

October 26, 2019

U.S. Securities and Exchange Commission 100 F Street, NE Washington, DC 20549

Subject: Failure of investor owned electric utilities to disclose cybersecurity risk.

#### **Dear Commissioners:**

I am a citizen who conducts public interest research on the security of the electric grid. I have conducted several recent studies which raise significant regulatory red flags, not the least of which is a massive cybersecurity risk coverup in the electric utility industry. I believe that cybersecurity risk is not being disclosed to shareholders (as well as ratepayers, Congress and state regulators). The purveyors of this coverup are the Federal Energy Regulatory Commission (FERC) and the North American Electric Reliability Corporation (NERC) aided and abetted by the entire electric utility industry, which consists of many publicly traded companies.

Exhibit A is a list of most of the "Investor Owned Utilities" from the industry group Edison Electric Institute's member list. Exhibit B is a list of the NERC Regulated Entities downloaded on October 26, 2019 from NERC's website. This list includes both investor owned and publicly owned utilities.

As detailed in the attached report of my research (Exhibit C), which I filed with FERC on October 25, 2019, I have been conducting an investigation since March of 2018 into NERC's practice of withholding the identities of Critical Infrastructure Protection (CIP) standards violators from the public. CIP standards include the standards for cybersecurity as well as physical security of critical facilities. This investigation has revealed that from July of 2010 through September of 2019 there had been 256 FERC dockets involving almost 1,500 "Unidentified Registered Entities." In each of these instances, the identity of the regulatory violator was withheld from

<sup>&</sup>lt;sup>1</sup> See: <a href="https://www.eei.org/about/members/uselectriccompanies/Pages/default.aspx">https://www.eei.org/about/members/uselectriccompanies/Pages/default.aspx</a> (accessed October 26, 2019).

<sup>&</sup>lt;sup>2</sup> See: <a href="https://www.nerc.com/pa/comp/Pages/Registration.aspx">https://www.nerc.com/pa/comp/Pages/Registration.aspx</a> (accessed October 26, 2019).

<sup>&</sup>lt;sup>3</sup> Exhibit D is a listing of these 256 FERC Dockets. Note: "Unidentified Registered Entity" or "URE" is the industry euphemism for CIP standard violators whose names are being withheld by NERC. As of 2019 NERC began hiding the number of UREs covered in spreadsheet NOPs, so we can no longer accurately determine the number of URE's involved and are making low-end estimates of the number of entities.

the public.<sup>4</sup> As part of the investigations, I have filed six Freedom of Information Act Requests, three of which are still pending, covering 253 FERC dockets.<sup>5</sup> So far, my FOIA requests have been successful in outing less than 10 of the 1,500 company names so far - including Duke Energy Corp (NYSE: DUK) and Pacific Gas and Electric Corp. (NYSE: PCG).

The companies that are regulated by the Securities Exchange Commission have reporting requirements for material events. Since the names of CIP violators are being covered up, investors are unaware of the cybersecurity risks that these publicly traded companies face—and whether the "C Suite" is taking appropriate actions to mitigate (or at least disclose) investor risk.

Another aspect being covered up is who is paying for CIP fines and mitigation – the shareholders or the ratepayers? And, most importantly, who decides who pays?

The last question is easy: Absent transparency, the regulatory violator decides who pays. The public ("ratepayers"), investors ("shareholders"), the state Public Utility Commissions (the ones who should be making these decisions) and Congress (the oversight) presently has no visibility over what the cyber risk is and who is paying for it.

For example: Last year, PG&E Corp was fined 2.7 million dollars for a cyber breach (which was exposed by one of my Freedom of Information Act requests). PG&E presumably also had to spend an unknown amount (but likely a substantial amount) of money on mitigation. Somebody had to pay for all of this. Because I could find no disclosure of the event or its costs in PG&E's filings with the Securities and Exchange Commission, it is impossible for the public to know whether the shareholders or the ratepayers ate these costs—I am sure both groups would like to know.

Does it make a difference in who should pay if a company is a repeat CIP violator? Does it make a difference in who should pay if the company is negligent? I'm sure the shareholders, ratepayers and Public Utility Commissions would think these situations should make a difference but the coverup has eliminated these stakeholders from view.

The *last* one who should be deciding who pays *is the regulatory violator*. This decision should be made by the appropriate regulator (the PUC) with full transparency to the two possible victims: the ratepayers and the shareholders.

<sup>&</sup>lt;sup>4</sup> A detailed report of the investigation is available here: <a href="https://michaelmabee.info/nerc-coverup-investigation-report/">https://michaelmabee.info/nerc-coverup-investigation-report/</a> (accessed October 25, 2019). Also see: <a href="https://michaelmabee.info/grid-coverup-continues/">https://michaelmabee.info/grid-coverup-continues/</a> (accessed October 25, 2019).

<sup>&</sup>lt;sup>5</sup> Details, updates and copies of my FOIA requests and responses are available here: https://michaelmabee.info/cip-violation-database/ (accessed October 25, 2019).

<sup>&</sup>lt;sup>6</sup> See report: <a href="https://michaelmabee.info/pge-endangered-the-grid/">https://michaelmabee.info/pge-endangered-the-grid/</a> (accessed October 22, 2019).

Whereas my FOIAs will take years (and likely litigation) to resolve, I believe the Commission can subpoena the FERC Notices of Penalty in Exhibit D and determine whether the publicly traded utilities have made the appropriate §15(d) disclosures to investors.

If the cases of PG&E Corp.<sup>7</sup> and Duke Energy Corp.<sup>8</sup> are any indication, I was not able to find any disclosures for the massive cybersecurity fines levied against them by regulators – leaving investors, ratepayers, state regulators and Congress in the dark.

Respectfully submitted,

Michael Mabee

me

<sup>&</sup>lt;sup>7</sup> See Report: "PG&E endangered the grid – and tried to cover it up." <a href="https://michaelmabee.info/pge-endangered-the-grid/">https://michaelmabee.info/pge-endangered-the-grid/</a> (accessed October 26, 2019).

<sup>&</sup>lt;sup>8</sup> See Report: "Duke Redux – A Repeat Cybersecurity Violator Exposed!" <a href="https://michaelmabee.info/duke-redux-a-repeat-cybersecurity-violator-exposed/">https://michaelmabee.info/duke-redux-a-repeat-cybersecurity-violator-exposed/</a> (accessed October 26, 2019).



Power by Association\*



U.S. Investor-Owned Electric Companies
International Members
Associate Members

The Edison Electric Institute, is the association that represents all U.S. investor-owned electric companies. Our members provide electricity for about 220 million Americans, and operate in all 50 states and the District of Columbia. As a whole, the electric power industry supports more than 7 million jobs in communities across the United States. In addition to our U.S. members, EEI has more than 65 international electric companies with operations in more than 90 countries, as International Members, and hundreds of industry suppliers and related organizations as Associate Members. Organized in 1933, EEI provides public policy leadership, strategic business intelligence, and essential conferences and forums.

# U.S. Energy Companies

**AES Corporation** 

Dayton Power & Light Company Indianapolis Power & Light Company

ALLETE

Minnesota Power

Superior Water, Light and Power Company

Alliant Energy
Ameren Corporation
Ameren Illinois
Ameren Missouri
American Electric Power

AEP Ohio AEP Texas

Appalachian Power Company Indiana Michigan Company Kentucky Power Company

Public Service Company of Oklahoma Southwestern Electric Power Company

American Transmission Company

**AVANGRID** 

Central Maine Power New York State Electric & Gas Rochester Gas & Electric The United Illuminating Company

Avista Corporation Avista Utilities

Alaska Electric Light and Power Company

Berkshire Hathaway Energy MidAmerican Energy Company

NV Energy
PacifiCorp
Pacific Power
Rocky Mountain Power
Black Hills Corporation
Black Hills Energy

Central Hudson Gas & Electric Corp.

Cleco Corporate Holdings

CenterPoint Energy

Cleco Power
CMS Energy
Consumers Energy

Consolidated Edison Company of

Consolidated Edison Company of New York

Orange and Rockland Utilities Rockland Electric Company Cross Texas Transmission

Dominion Energy

Dominion Energy Virginia Dominion Energy North Carolina South Carolina Electric & Gas

DTE Energy Duke Energy

Duquesne Light Company

Edison International

Southern California Edison

El Paso Electric
Entergy Corporation
Entergy Arkansas
Entergy Louisiana
Entergy Mississippi
Entergy New Orleans
Entergy Texas

Evergy

Kansas City Power & Light Company

Westar Energy Eversource Energy Exelon Corporation Atlantic City Electric

Baltimore Gas and Electric Company

ComEd Delmarva Power PECO

Pepco FirstEnergy Corp.

The Illuminating Company
Jersey Central Power & Light

Met-Ed
Mon Power
Ohio Edison
Penelec
Penn Power
Potomac Edison
Toledo Edison
West Penn Power
Florida Public Utilities
Green Mountain Power
Hawaiian Electric Industries
Hawaiian Electric Company
Hawaii Electric Light Company
Maui Electric Company

IDACORP
Idaho Power
ITC Holdings Corp.
ITC Great Plains
ITC Michigan
ITC Midwest
Liberty Utilities
Empire District
MDU Resources Group

Montana-Dakota Utilities Company

MGE Energy

Madison Gas and Electric Company Mt. Carmel Public Utility Company

National Grid NextEra Energy

Florida Power & Light Company

Gulf Power

**NiSource** 

Northern Indiana Public Service Company

NorthWestern Energy
OGE Energy Corporation

Oklahoma Gas & Electric Company
Ohio Valley Electric Corporation

Oncor

Otter Tail Corporation
Otter Tail Power Company

PG&E Corporation

Pacific Gas & Electric Company Pinnacle West Capital Corporation Arizona Public Service Company

PNM Resources PNM

**TNMP** 

Portland General Electric

PPL Corporation
PPL Electric Utilities
LG&E and KU Energy
Public Service Enterprise Group

Public Service Electric & Gas Company

PSEG Long Island Puget Sound Energy

San Diego Gas & Electric Company

Sharyland Utilities Southern Company

Alabama Power Company Georgia Power Company Mississippi Power Company Tampa Electric an Emera Company

Tennessee Valley Authority - EEI Strategic Partner

UGI Corporation
 UGI Utilities
Unitil Corporation
UNS Energy Corporation
 Tucson Electric Power
 UniSource Energy Services
Upper Peninsula Power Company
Vermont Electric Power Company

WEC Energy Group
We Energies

Wisconsin Public Service

Upper Michigan Energy Resources

Xcel Energy

# International Members

AES Corporation

Alectra - Canada

Altalink - Canada

APR Energy - United States

ATCO Electric - Canada

Bahamas Power and Light - Bahamas

Barbados Light & Power - Barbados

Belize Electricity - Belize

Bermuda Electric Light (BELCO) - Bermuda

Brookfield Renewables - Canada

Capital Power Corp. - Canada

CEMIG - Brazil

CESC Ltd. - India

China Southern Power Grid Co. - China

Chubu Electric Power - Japan

Comisión Federal de Electricidad (CFE) - Mexico

# Compagnie Ivoirienne d'Electricité (CIE) - Ivory

Coast

EDF - France

EDP - Portugal

EGE Haina - Dominican Republic

Emera, Inc. - Canada

Barbados Light & Power - Barbados

Nova Scotia Power Inc. - Canada

Dominica Electricity Services Ltd. - Island of

Dominica

St. Lucia Electricity Services (LUCELEC) - West

Indies

Endeavour Energy - Australia

Energy Queensland - Australia

ENMAX - Canada

Entegrus Powerlines - Canada

ESB - Ireland

Fortis, Inc. - Canada

Caribbean Utilities - Cayman Islands

Eastern Canada - Canada

FortisAlberta - Canada

FortisBC Electric - Canada

Maritime Electric - Canada

Newfoundland Power - Canada

Gulf Cooperation Council Interconnection

Authority (GCCIA) - Saudi Arabia

Hydro One - Canada

Hydro Ottawa - Canada

Hydro-Québec - Canada

Iberdrola - Spain

Irbid District Electricity (IDECO) - Jordan

J-Power - Japan

Jemena - Australia

Kansai Electric Power - Japan

Korea Electric Power (KEPCO) - Korea

Manitoba Hydro - Canada

National Grid - United Kingdom

Ontario Power Generation (OPG) - Canada

Orion New Zealand Ltd. - New Zealand

Power Assets Holdings - Hong Kong

Powerco Ltd. - New Zealand

SA Power Networks - Australia

SaskPower - Canada

St. Lucia Electricity Services (LUCELEC) - West

Indies

St. Vincent Electricity Services (VINLEC) - West

State Grid Corporation of China (SGCC) - China

TasNetworks - Australia Tohoku Electric Power - Japan

Tokyo Electric Power (TEPCO) - Japan

Toronto Hydro - Canada TransAlta - Canada

Transpower New Zealand Ltd. - New Zealand

UK Power Networks - United Kingdom Unison Networks Ltd. - New Zealand

Vector Ltd. - New Zealand

Wellington Electricity - New Zealand

### **Associates**

#### Power-Plus Members

General Electric

Navigant Consulting, Inc.

Oracle Utilities

PowerPlan Inc.

Quanta Services

#### **Power Members**

Aclara

Black & Veatch

Deloitte

ΕY

Google

Mitsubishi Electric Power Products, Inc

Pike Electric

Troutman Sanders LLP

Uptake

Utilities International

#### Associate Members

ABB Inc.

Accenture

AccuWeather Enterprise Solutions

Advanced Microgrid Solutions

AECOM

AEGIS Insurance Services, Inc

Aggreko

Akin Gump Strauss Hauer & Feld, LLP

Allan Briteway Electrical Utility Contractors, Inc.

Alston & Bird LLP

Altec Inc.

American Water

American Wholesale Lighting

American Wind Energy Association

Ampirical

Anixter Inc.

Aon Global Power

**APTIM** 

ARCOS LLC

Ardmore Roderick

Asplundh Brush Control Co

Atwell, LLC

AutoGrid Systems

Babcock & Wilcox Company, The

Bain & Company, Inc

Baker Botts L.L.P.

BakerHostetler

Balch & Bingham LLP

Bidgely

Bosch Security and Safety Systems

Boston Consulting Group, The

Bracewell LLP

Bright Investments, LLC

Burns & McDonnell Engineering Co. Inc.

Carmen L Gentile, PLLC

Caterpillar Inc.

**CBRE Clarion Securities** 

Chapman and Cutler LLP

Charles River Associates

Choate, Hall & Stewart LLP

Cit

Commonwealth Associates, Inc.

Concentric Energy Advisors, Inc.

Contour Global Management INC. Corpfinance International Limited

Crowell & Moring LLP

CS Week

Cupertino Electric, Inc.

CyberCon

D&D Power Inc

Danella Companies, Inc David Evans and Associates

Davis Wright Tremaine LLP

Day Pitney LLP

Disaster Resource Group

Distributed Energy Financial Group

DNV GL Energy Services USA

Dorsey & Whitney LLP

E Source

Eaton Corporation

e-Hazard.com

EHS Partners, LLC

Electrical Consultants, Inc.

EN Engineering, LLC Enchanted Rock LLC

Energy Management Collaborative (EMC)

Lifergy Mariage

EnergyHub Inc Enovation Partners, LLC

Environmental Consultants, Inc.

Ephektiv

EQ by Equiniti

FRM

ESTA International, LLC Evercore

Eversheds Sutherland

Faegre Baker Daniels, LLP

FDH Infrastructure Services, LLC

Ferreira Power West

First Solar, Inc.

Flagger Force Traffic Control Services

Fortress Information Security FTI Consulting, Inc.

Geometric Strategies

Gibson Dunn & Crutcher HDR, Inc.

Heidrick & Struggles

Hemma Lighting Solutions

Henkels & McCoy Group

Hogan Lovells US LLP Holland & Knight LLP

Associate Members (cont'd)

Hunton Andrews Kurth LLP Huron Consulting Group

IBM Corp ICF

IHS Global Inc. **IMCORP** 

Infratech Corporation Innogy Consulting Americas

International Technology and Trade Associates,

Inc. (ITTA) ISC2, Inc. ITRON, Inc.

Japan Electric Power Information Center, USA

Jenner & Block LLP Jones Day K&L Gates LLP Kiewit Corporation Kinetics Consulting LLC

KPMG LLP Landis+Gyr Inc. Latham & Watkins

Leidos

Lignite Energy Council Lindsey Manufacturing Co. Lockheed Martin Corporation

Loeb & Loeb LLP Logisticus Group Lucasys

M&S Engineering, LLC MaintenX International Marison Energy Systems maslansky + partners

MasTec Transmission - Substation Group

McCarter & English, LLP McGuireWoods LLP McKinsey & Co

Michael Best & Friedrich LLP MICHELS Corporation Microsoft Corporation

Midwest Energy Efficiency Alliance Midwest Energy Emissions Corp Milbank, Tweed, Hadley & McCloy LLP

Miller & Chevalier Chartered

Milwaukee Tool

Mitsubishi Hitachi Power Systems Americas, Inc.

Moelis & Company

Moran Environmental Recovery, LLC Morgan, Lewis & Bockius LLP Mortenson Construction

MOSAIC Motive Power Inc.

Munger, Tolles & Olson LLP

MYR Group Inc Novar

Nuclear Electric Insurance Limited

Oliver Wyman

OMICRON electronics Corp. USA

Orbital Engineering Osborn Maledon P.A. Osmose Utilities Services, Inc. Pace Global

Parker Poe Adams & Bernstein, LLP Peak Load Management Alliance Pegasus Global Holdings, Inc.

Perkins Coie LLP

Pillsbury Winthrop Shaw Pittman LLP

PLH Group, Inc. POWER Engineers, Inc. PowerAdvocate, Inc.

PowerGrid Services, Collective Storm Response

Preng & Associates

PricewaterhouseCoopers LLP Quarles & Brady LLP Recurrent Energy Reed Smith LLP

Regulated Capital Consultants RHR International LLP S&C Electric Company

Sagewell, Inc. Sargent & Lundy, LLC Saulsbury Industries Schiff Hardin LLP Schneider Electric

Schweitzer Engineering Laboratories, Inc. (SEL)

ScottMadden, Inc.

Sensus

Sharper Shape Inc Shelton Group Sidley Austin LLP Siemens Energy, Inc.

Skadden, Arps, Slate, Meagher & Flom LLP

Smart Electric Power Alliance

SoftSmiths, Inc SPE Utility Contractors Spencer Stuart Stanley Consultants, Inc. Stantec Consulting Services, Inc.

Stem, Inc.

Steptoe & Johnson, LLP

Sterling Site Access Solutions, LLC

Stikeman Elliott LLP Stinson Leonard Street LLP Stoll Keenon Ogden PLLC Storm Services, LLC Taft Stettinius & Hollister LLP **Technical Consumer Products** Tenaska Marketing Ventures

Terracon The Desoto Group **TPC Training** Transventure Energy Trilliant Networks Inc.

Terex Utilities

United States Energy Association

Uplight **URBINT USIC** Utegration

UtiliCon Solutions, Ltd.

Utilligent LLC

Van Ness Feldman, LLP

Vestas - American Wind Technology

Veteran Power, Inc. Viking Mat Company Vinson & Elkins LLP

Virtuoso Sourcing Group, LLC

Volkert, Inc.

Wartsila North America, Inc. Waste Management, Inc.

Water Integrated Treatment Systems, LLC

West Monroe Partners White & Case LLP Wilson Construction Co Winston & Strawn LLP Witt OBriens LLC

Wood

Wright & Talisman, P.C.



# NERC

NCR ID#	Entity Name	Regional Compliance Enforcement Authority	Jurisdiction
NCR11516	ACE O&M, LLC	MRO	United States
NCR11645	AE Power Services LLC	MRO	United States
NCR01056	AEP as Agent for AEP OK Transco., PSCO, and SWEPCO	MRO	United States
NCR01055	AES Shady Point, LLC	MRO	United States
NCR00959	Alexandria Light & Power	MRO	United States
NCR11785	Algonquin Power Co.	MRO	United States
NCR00961	Alliant Energy - East	MRO	<b>United States</b>
NCR00962	Alliant Energy - West	MRO	<b>United States</b>
NCR00685	American Transmission Co. LLC	MRO	United States
NCR01060	Arkansas Electric Cooperative Corporation	MRO	United States
NCR10002	Atlantic Municipal Utilities (Board Of Waterworks & Electric Power Plant Trustees)	MRO	United States
NCR10259	Avangrid Renewables	MRO	United States
NCR11548	Balko Wind, LLC	MRO	United States
NCR00102	Basin Electric Power Cooperative	MRO	United States
NCR05030	Black Hills Corporation	MRO	United States
NCR11886	Blue Cloud Wind Energy, LLC	MRO	United States
NCR01061	Board Of Public Utilities (Kansas City KS)	MRO	United States
NCR10319	Board Of Public Utilities, City Of McPherson, Kansas	MRO	United States
NCR01062	Borger Energy Associates, LP	MRO	United States
NCR11563	Buckeye Wind Energy, LLC	MRO	United States
NCR11354	Canadian Hills Wind, LLC	MRO	United States
NCR05059	Caprock Wind LLC	MRO	United States
NCR01067	Carthage Water & Electric Plant	MRO	United States
NCR00969	Cedar Falls Utilities	MRO	United States
NCR10104	Cedarburg Light & Water Utility	MRO	United States
NCR00970	Central Iowa Power Cooperative	MRO	United States
NCR11163	Central Nebraska Public Power and Irrigation District, The	MRO	United States
NCR11734	Central Power Electric Cooperative, Inc.	MRO	United States
NCR06043	Central Valley Electric Cooperative, Inc.	MRO	United States
NCR10316	CHI Power, Inc.	MRO	United States
NCR11240	Cimarron Windpower II, LLC	MRO	United States
NCR00972	City Of Ames Electric Services	MRO	United States
NCR00982	City of Escanaba	MRO	United States
NCR00974	City Of Grand Island, NE	MRO	United States
NCR10227	City Of Ottawa	MRO	United States
NCR11771	City of Saskatoon	MRO	Saskatchewan
NCR01081	City Utilities Of Springfield, MO	MRO	United States
NCR00769	Clearway Energy Operating, LLC	MRO	United States
NCR11829	Clearway Renew LLC	MRO	United States
NCR11926	Clearway Renewable Operation & Maintenance LLC	MRO	United States

NCR1105 Consolidated Edison Development, Inc.  MRO United States NCR01773 Consolidated Water Power Co  MRO United States NCR00977 Corn Belt Power Cooperative MRO United States NCR00977 Corn Belt Power Cooperative MRO United States NCR10181 CPV Keenan II Renewable Energy Company, LLC MRO United States NCR01081 CPV Keenan II Renewable Energy Company, LLC MRO United States NCR00979 Dairyland Power Cooperative MRO United States NCR00979 Dairyland Power Cooperative MRO United States NCR00989 Dairyland Power Cooperative MRO United States NCR010810 Depress North MRO United States NCR011250 Depress North MRO United States NCR011273 East River Electric Power Cooperative, Inc MRO United States NCR011273 East River Electric Power Cooperative, Inc MRO United States NCR011277 East Texas Electric Cooperative, Inc MRO United States NCR01092 Eastman Cogeneration Limited Partnership MRO United States NCR01092 Exelon Wind 4, LLC MRO United States NCR01092 Frontier Wind Energy LLC MRO United States NCR01092 Frontier Wind LLC MRO United States NCR01092 Frontier Wind LLC MRO United States NCR01092 Frontier Wind LLC MRO United States NCR01093 Globelen Spread Panhandle Wind Ranch, LLC MRO United States NCR01009 Globelen Spread Exercic Cooperative, Inc. MRO United States NCR01009 Globelen Spread Exercic Wind Energy, LLC MRO United States NCR01009 Glo	NCD111E1	Coffornillo Municipal Light & Dower	MPO	United States
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NCR00979   Dairyland Power Cooperative   MRO   United States   NCR11179   Dempsey Ridge Wind Farm, LLC   MRO   United States   NCR00980   Detroit Lakes Public Utilities   MRO   United States   NCR11250   Dogwood Power Management, LLC   MRO   United States   NCR11241   Duke Energy Renewables Services, LLC   MRO   United States   NCR11241   Duke Energy Renewables Services, LLC   MRO   United States   NCR11273   East River Electric Power Cooperative, Inc   MRO   United States   NCR001227   East Texas Electric Cooperative Inc.   MRO   United States   NCR010227   East Texas Electric Cooperative Inc.   MRO   United States   NCR010227   East Texas Electric Cooperative Inc.   MRO   United States   NCR01022   Eastman Cogeneration Limited Partnership   MRO   United States   NCR01022   Exclon Wind 4, LLC   MRO   United States   NCR01022   Exclon Wind 4, LLC   MRO   United States   NCR06046   Farmers' Electric Cooperative, Inc. Of New Mexico   MRO   United States   NCR06046   Farmers' Electric Cooperative, Inc. Of New Mexico   MRO   United States   NCR011314   Flat Ridge 2 Wind Energy, LLC   MRO   United States   NCR11314   Flat Ridge Wind Energy, LLC   MRO   United States   NCR11444   Glencoe Light and Power Commission   MRO   United States   NCR11444   Glencoe Light and Power Commission   MRO   United States   NCR11444   Glencoe Light and Power Commission   MRO   United States   NCR110020   Golden Spread Electric Cooperative, Inc.   MRO   United States   NCR11030   Golden Spread Electric Cooperative, Inc.   MRO   United States   NCR11682   Grande Prainie Wind, LLC   MRO   United States   NCR11687   Great Western Wind Energy, LLC   MRO   United States   NCR11687   Great Western Wind Energy, LLC   MRO   United States   NCR11005   Harfford Electric   MRO   United States   NCR01007   Great Plains Windopen, LLC   MRO   United States   NCR01007   M		,		
NCR11179 Dempsey Ridge Wind Farm, LLC MRO United States NCR00980 Detroit Lakes Public Utilities MRO United States NCR11250 Dogwood Power Management, LLC MRO United States NCR11241 Duke Energy Renewables Services, LLC MRO United States NCR11241 Duke Energy Renewables Services, LLC MRO United States NCR11733 East River Electric Power Cooperative, Inc MRO United States NCR01227 East Texas Electric Cooperative Inc. MRO United States NCR01092 Eastman Cogeneration Limited Partnership MRO United States NCR01092 Esteman Cogeneration Limited Partnership MRO United States NCR01092 Exelon Wind 4, LLC MRO United States NCR01022 Exelon Wind 4, LLC MRO United States NCR010122 Exelon Wind 4, LLC MRO United States NCR010122 Exelon Wind 4, LLC MRO United States NCR010122 Exelon Wind 4, LLC MRO United States NCR01158 Fenton Power Partners 1, LLC MRO United States NCR01154 Flat Ridge 2 Wind Energy LLC MRO United States NCR011314 Flat Ridge Wind Energy LLC MRO United States NCR01012 Flat Ridge Wind Energy LLC MRO United States NCR01012 Flat Ridge Wind Energy LLC MRO United States NCR01012 Flat Ridge Wind Energy LLC MRO United States NCR01013 Flower MRO United States NCR01013 Golden Spread Electric Cooperative, Inc. MRO United States NCR01010 Golden Spread Electric Cooperative, Inc. MRO United States NCR01010 Golden Spread Electric Cooperative, Inc. MRO United States NCR01010 Grand River Dam Authority MRO Un				
NCR010390   Detroit Lakes Public Utilities   MRO United States   NCR11250   Dogwood Power Management, LLC   MRO United States   NCR11241   Duke Energy Renewables Services, LLC   MRO United States   NCR11273   East River Electric Power Cooperative, Inc.   MRO United States   NCR01227   East Texas Electric Cooperative Inc.   MRO United States   NCR01092   Eastman Cogeneration Limited Partnership   MRO United States   NCR01092   Eastman Cogeneration Limited Partnership   MRO United States   NCR01092   Eastman Cogeneration Limited Partnership   MRO United States   NCR01022   Exelon Wind 4, LLC   MRO United States   NCR01138   Fenton Power Partners 1, LLC   MRO United States   NCR01138   Fenton Power Partners 1, LLC   MRO United States   NCR01134   Flat Ridge 2 Wind Energy LLC   MRO United States   NCR010312   Flat Ridge Wind Energy LLC   MRO United States   NCR010312   Flat Ridge Wind Energy LLC   MRO United States   NCR01032   Floritier Windpower, LLC   MRO United States   NCR01134   Glenote Elight and Power Commission   MRO United States   NCR01032   Golden Spread Electric Cooperative, Inc.   MRO United States   NCR01135   Golden Spread Electric Cooperative, Inc.   MRO United States   NCR01030   Golden Spread Electric Cooperative, Inc.   MRO United States   NCR01031   Grand Prairie Wind, LLC   MRO United States   NCR01035   Grande Prairie Wind, LLC   MRO United States   NCR01035   Grande Prairie Wind, LLC   MRO United States   NCR01035   Grant Plains Windpark, LLC   MRO United States   NCR01035   Great Plains Windpark, LLC   MRO United States   NCR01035   Great Western Wind Energy, LLC   MRO United States   NCR01035   Great Western Wind Energy, LLC   MRO United States   NCR01035   Great Western Wind Energy, LLC   MRO United States   NCR01035   Hastings Unitine States   NCR01035   Hastings Unitine States   NCR01036   Hardford Electric Comparative, Inc.   MRO		·		
NCR11250  Dogwood Power Management, LLC  NCR11241  Duke Energy Renewables Services, LLC  MRO  United States  NCR11237  East River Electric Power Cooperative, Inc  MRO  United States  NCR01227  East Texas Electric Cooperative Inc.  MRO  United States  NCR01092  Eastman Cogeneration Limited Partnership  MRO  United States  NCR01092  Eastman Cogeneration Limited Partnership  MRO  United States  NCR010122  Exelon Wind 4, LLC  MRO  United States  NCR010122  Exelon Wind 4, LLC  MRO  United States  NCR010124  Exelon Wind 4, LLC  MRO  United States  NCR010134  Fentor Power Partners 1, LLC  MRO  United States  NCR011314  Flat Ridge 2 Wind Energy, LLC  MRO  United States  NCR113124  Flat Ridge Wind Energy, LLC  MRO  United States  NCR113134  Flat Ridge Wind Energy, LLC  MRO  United States  NCR113144  Glencoe Light and Power Commission  MRO  United States  NCR110312  Flore Windpower, LLC  MRO  United States  NCR110313  Golden Spread Electric Cooperative, Inc.  MRO  United States  NCR11033  Golden Spread Electric Cooperative, Inc.  MRO  United States  NCR11031  Golden Spread Electric Cooperative, Inc.  MRO  United States  NCR011010  Grand River Dam Authority  MRO  United States  NCR011030  Grand River Dam Authority  MRO  United States  NCR011030  Grand Fraire Wind, LLC  MRO  United States  NCR011030  Grand Fraire Wind, LLC  MRO  United States  NCR011030  Great Plains Windpark, LLC  MRO  United States  NCR011030  Great Plains Windpark, LLC  MRO  United States  NCR011030  Great Plains Windpark, LLC  MRO  United States  NCR01030  Great Plains Windpark, LLC  MRO  United States  NCR011030  Great Plains Windpark, LLC  MRO  United States  NCR011031  Great Country Energy, LLC  MRO  United States  NCR011031  Great Country Energy, LLC  MRO  United States  NCR01031  Hennepin County, MN  MRO  United States  NCR01031  Hennepin County, MN  MRO  United States  NCR01031  Hennepin County, MN  MRO  United States  NCR01032  Independence Power & Light (independence, Missouri)  MRO  United States  NCR01039  Hutchinson Utilities Commission  MRO				
NCR11241   Duke Energy Renewables Services, LLC   MRO   United States				
NCR11733   East River Electric Power Cooperative, Inc   MRO   United States   NCR01227   East Texas Electric Cooperative Inc.   MRO   United States   NCR01092   Eastman Cooperation United Partnership   MRO   United States   NCR11662   EDP Renewables North America LLC   MRO   United States   NCR010122   Exelon Wind 4, LLC   MRO   United States   NCR010122   Exelon Wind 4, LLC   MRO   United States   NCR010124   Exelon Wind 4, LLC   MRO   United States   NCR010125   Exelon Wind 4, LLC   MRO   United States   NCR010126   Farmer's Electric Cooperative, Inc. Of New Mexico   MRO   United States   NCR013134   Flat Ridge 2 Wind Energy, LLC   MRO   United States   NCR113134   Flat Ridge 2 Wind Energy, LLC   MRO   United States   NCR113134   Flat Ridge Wind Energy, LLC   MRO   United States   NCR11692   Frontier Windpower, LLC   MRO   United States   NCR11692   Frontier Windpower, LLC   MRO   United States   NCR11692   Frontier Windpower, LLC   MRO   United States   NCR11692   Golden Spread Electric Cooperative, Inc.   MRO   United States   NCR11002   Golden Spread Electric Cooperative, Inc.   MRO   United States   NCR11013   Golden Spread Electric Cooperative, Inc.   MRO   United States   NCR010101   Grand River Dam Authority   MRO   United States   NCR11635   Great Palins Windpark, LLC   MRO   United States   NCR11635   Great Palins Windpark, LLC   MRO   United States   NCR11637   Great Palins Windpark, LLC   MRO   United States   NCR11070   Great Plains Windpark, LLC   MRO   United States   NCR010103   Green Country Energy, LLC   MRO   United States   NCR010103   Green Country Energy, LLC   MRO   United States   NCR010103   Green Country Operating Services, LLC   MRO   United States   NCR010105   Hartford Electric   MRO   United States   NCR010105   Hartford Electric   MRO   United States   NCR010105   Hartford Electric   MRO   United States   NCR01072   Independence Power & Light (Independence, Missouri)   MRO   United States   NCR010107   Independence Power & Light (Independence, Missouri)   MRO   United States				
NCR01227 East Texas Electric Cooperative Inc. MRO United States NCR01092 Eastman Cogeneration Limited Partnership MRO United States NCR01052 EDP Renewables North America LLC MRO United States NCR010122 Exelon Wind 4, LLC MRO United States NCR00066 Farmers' Electric Cooperative, Inc. Of New Mexico MRO United States NCR010123 Fenton Power Partners 1, LLC MRO United States NCR01138 Fenton Power Partners 1, LLC MRO United States NCR011314 Flat Ridge 2 Wind Energy LLC MRO United States NCR01312 Flat Ridge Wind Energy LLC MRO United States NCR0312 Flat Ridge Wind Energy LLC MRO United States NCR0312 Flat Ridge Wind Energy LLC MRO United States NCR01692 Frontier Windpower, LLC MRO United States NCR011692 Frontier Windpower, LLC MRO United States NCR011692 Frontier Windpower, LLC MRO United States NCR011692 Golden Spread Electric Cooperative, Inc. MRO United States NCR011691 Grand River Dam Authority MRO United States NCR01101 Grand River Dam Authority MRO United States NCR011835 GRE HERC Services LLC MRO United States NCR011682 Grande Prairie Wind, LLC MRO United States NCR011683 Great Palais Windpark, LLC MRO United States NCR011687 Great Western Wind Energy, LLC MRO United States NCR01103 Great River Energy MRO United States NCR01104 Green Country Renegy, LLC MRO United States NCR01104 Green Country Operating Services, LLC MRO United States NCR010105 Hartford Electric MRO United States NCR010107 Kanasa City Power & Light Company MRO United States NCR0101				
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NCR11692 Frontier Windpower, LLC MRO United States NCR11444 Glencoe Light and Power Commission MRO United States NCR10020 Golden Spread Electric Cooperative, Inc. MRO United States NCR011153 Golden Spread Panhandle Wind Ranch, LLC MRO United States NCR01101 Grand River Dam Authority MRO United States NCR01102 Grand River Dam Authority MRO United States NCR11682 Grande Prairie Wind, LLC MRO United States NCR11682 Grande Prairie Wind, LLC MRO United States NCR11835 GRE HERC Services LLC MRO United States NCR11070 Great Plains Windpark, LLC MRO United States NCR0109092 Great River Energy MRO United States NCR010992 Great Western Wind Energy, LLC MRO United States NCR01103 Green Country Energy, LLC MRO United States NCR01104 Green Country Operating Services, LLC MRO United States NCR010105 Hartford Electric MRO United States NCR00993 Hastings Utilities MRO United States NCR00993 Hastings Utilities MRO United States NCR00997 Hutchinson Utilities Commission MRO United States NCR00997 Independence Power & Light (Independence, Missouri) MRO United States NCR01072 Independence Power & Light (Independence, Missouri) MRO United States NCR11718 Invenergy Services LLC MRO United States NCR117257 Ironwood Windpower, LLC MRO United States NCR10109 Tir C Great Plains, LLC MRO United States NCR10109 Kansas Electric Power Cooperative, Inc. MRO United States NCR010107 Kansas City Power & Light (Company MRO United States NCR01007 Kansas City Power & Light Company MRO United States NCR01007 Kansas City Power & Light Company MRO United States NCR01007 Kansas City Power & Light Company MRO United States NCR010107 Kansas City Power & Light Company MRO United States NCR010107 Kansas City Power & Light Company MRO United States NCR010107 Kansas City Power & Light Company MRO United States NCR010107 Kansas City Power & Light Company MRO United States NCR010107 Kansas City Power & Light Company MRO United States NCR010107 Kansas City Power & Light Company MRO United States NCR010107 Kansas City Power & Light Company MRO United States NCR0	NCR11314	Flat Ridge 2 Wind Energy LLC	MRO	United States
NCR11444         Glencoe Light and Power Commission         MRO         United States           NCR10020         Golden Spread Electric Cooperative, Inc.         MRO         United States           NCR11153         Golden Spread Panhandle Wind Ranch, LLC         MRO         United States           NCR01101         Grand River Dam Authority         MRO         United States           NCR11682         Grand River Dam Authority         MRO         United States           NCR11835         GRE HERC Services LLC         MRO         United States           NCR11070         Great Plains Windpark, LLC         MRO         United States           NCR011070         Great River Energy         MRO         United States           NCR011070         Great Western Wind Energy, LLC         MRO         United States           NCR01103         Grean Country Energy, LLC         MRO         United States           NCR01103         Green Country Deprating Services, LLC         MRO         United States           NCR010104         Green Country Operating Services, LLC         MRO         United States           NCR010105         Hartford Electric         MRO         United States           NCR00993         Hastings Utilities         MRO         United States           NCR00997	NCR10312	Flat Ridge Wind Energy, LLC	MRO	United States
NCR10020         Golden Spread Electric Cooperative, Inc.         MRO         United States           NCR11153         Golden Spread Panhandle Wind Ranch, LLC         MRO         United States           NCR01101         Grand River Dam Authority         MRO         United States           NCR11682         Grande Prairie Wind, LLC         MRO         United States           NCR11835         GRE HERC Services LLC         MRO         United States           NCR11070         Great Plains Windpark, LLC         MRO         United States           NCR01092         Great River Energy         MRO         United States           NCR01087         Great Western Wind Energy, LLC         MRO         United States           NCR01103         Green Country Energy, LLC         MRO         United States           NCR01104         Green Country Operating Services, LLC         MRO         United States           NCR010105         Hartford Electric         MRO         United States           NCR00993         Hastings Utilities         MRO         United States           NCR00993         Hutchinson Utilities Commission         MRO         United States           NCR00997         Hutchinson Utilities Commission         MRO         United States           NCR01072         Inde	NCR11692	Frontier Windpower, LLC	MRO	United States
NCR11153 Golden Spread Panhandle Wind Ranch, LLC MRO United States NCR01101 Grand River Dam Authority MRO United States NCR11682 Grande Prairie Wind, LLC MRO United States NCR11835 GRE HERC Services LLC MRO United States NCR11070 Great Plains Windpark, LLC MRO United States NCR00992 Great River Energy MRO United States NCR00992 Great River Energy MRO United States NCR011687 Great Western Wind Energy, LLC MRO United States NCR01103 Green Country Operating Services, LLC MRO United States NCR01104 Green Country Operating Services, LLC MRO United States NCR01105 Hartford Electric MRO United States NCR00993 Hastings Utilities MRO United States NCR00993 Hastings Utilities MRO United States NCR00997 Hutchinson Utilities Commission MRO United States NCR00997 Hutchinson Utilities Commission MRO United States NCR0072 Independence Power & Light (Independence, Missouri) MRO United States NCR0172 Independence Power & Light (Independence, Missouri) MRO United States NCR01718 Invenergy Services LLC MRO United States NCR01718 Invenergy Services LLC MRO United States NCR0192 Irronwood Windpower, LLC MRO United States NCR11718 Invenergy Services LLC MRO United States NCR11257 Irronwood Windpower, LLC MRO United States NCR1092 ITC Midwest MRO United States NCR1092 ITC Midwest MRO United States NCR1092 ITC Midwest MRO United States NCR1093 MRO United States NCR1094 MRO United States NCR1095 MRO United States NCR10107 Kansas City Power & Light Company MRO United States NCR01107 Kansas City Power & Light Company MRO United States NCR01107 Kansas City Power & Light Company MRO United States NCR01107 Kansas City Power Partners, LLC MRO United States NCR01107 Kansas City Power Partners, LLC MRO United States NCR01107 Kansas City Power Partners, LLC MRO United States NCR01113 Kiowa Power Partners, LLC MRO United States NCR01113 Lakefield Wind Project, LLC MRO United States NCR010301 Lea Power Partners, LLC	NCR11444	Glencoe Light and Power Commission	MRO	United States
NCR01101       Grand River Dam Authority       MRO       United States         NCR11682       Grande Prairie Wind, LLC       MRO       United States         NCR11335       GRE HERC Services LLC       MRO       United States         NCR11070       Great Plains Windpark, LLC       MRO       United States         NCR00992       Great River Energy       MRO       United States         NCR011687       Great Western Wind Energy, LLC       MRO       United States         NCR01103       Green Country Energy, LLC       MRO       United States         NCR01104       Green Country Operating Services, LLC       MRO       United States         NCR01105       Hartford Electric       MRO       United States         NCR00993       Hastings Utilities       MRO       United States         NCR00381       Hennepin County, MN       MRO       United States         NCR00997       Hutchinson Utilities Commission       MRO       United States         NCR10724       Independence Power & Light (Independence,Missouri)       MRO       United States         NCR10725       Independence Power & Light (Independence,Missouri)       MRO       United States         NCR11718       Invenergy Services LLC       MRO       United States	NCR10020	Golden Spread Electric Cooperative, Inc.	MRO	United States
NCR11682 Grande Prairie Wind, LLC MRO United States NCR11835 GRE HERC Services LLC MRO United States NCR11070 Great Plains Windpark, LLC MRO United States NCR0992 Great River Energy MRO United States NCR01687 Great Western Wind Energy, LLC MRO United States NCR01103 Green Country Energy, LLC MRO United States NCR01104 Green Country Operating Services, LLC MRO United States NCR01105 Hartford Electric MRO United States NCR00993 Hastings Utilities MRO United States NCR00993 Hastings Utilities MRO United States NCR00997 Hutchinson Utilities Commission MRO United States NCR00172 Independence Power & Light (Independence, Missouri) MRO United States NCR101244 Invenergy Cannon Falls, LLC MRO United States NCR11718 Invenergy Services LLC MRO United States NCR11718 Invenergy Services LLC MRO United States NCR11257 Ironwood Windpower, LLC MRO United States NCR11092 ITC Midwest MRO United States NCR10109 Kansas City Power & Light Company MRO United States NCR01107 Kansas City Power & Light Company MRO United States NCR01107 Kansas City Power Cooperative, Inc. MRO United States NCR10107 Kansas Electric Power Cooperative, Inc. MRO United States NCR10107 Kansas Electric Power Cooperative, Inc. MRO United States NCR11617 Kingfisher Wind, LLC c/o Apex Wind Asset Management MRO United States NCR11180 Lakefield Wind Project, LLC MRO United States NCR11180 Lakefield Wind Project, LLC MRO United States NCR00010 Lea Power Partners, LLC MRO United States	NCR11153	Golden Spread Panhandle Wind Ranch, LLC	MRO	United States
NCR11835 GRE HERC Services LLC MRO United States NCR11070 Great Plains Windpark, LLC MRO United States NCR00992 Great River Energy MRO United States NCR11687 Great Western Wind Energy, LLC MRO United States NCR01103 Green Country Energy, LLC MRO United States NCR01104 Green Country Operating Services, LLC MRO United States NCR01105 Hartford Electric MRO United States NCR00993 Hastings Utilities MRO United States NCR00993 Hastings Utilities MRO United States NCR00997 Hutchinson Utilities Commission MRO United States NCR00997 Hutchinson Utilities Commission MRO United States NCR00997 Independence Power & Light (Independence, Missouri) MRO United States NCR10244 Invenergy Cannon Falls, LLC MRO United States NCR11718 Invenergy Services LLC MRO United States NCR11257 Ironwood Windpower, LLC MRO United States NCR11257 Ironwood Windpower, LLC MRO United States NCR10192 ITC Midwest MRO United States NCR10192 TC Great Plains, LLC MRO United States NCR10106 Jefferson Utilities MRO United States NCR01107 Kansas City Power & Light Company MRO United States NCR01107 Kansas City Power Cooperative, Inc. MRO United States NCR11617 Kingfisher Wind, LLC c/o Apex Wind Asset Management MRO United States NCR11180 Lakefield Wind Project, LLC MRO United States NCR11180 Lakefield Wind Project, LLC MRO United States NCR11180 Lakefield Wind Project, LLC MRO United States NCR10301 Lea Power Partners, LLC	NCR01101	Grand River Dam Authority	MRO	United States
NCR11070 Great Plains Windpark, LLC MRO United States NCR00992 Great River Energy MRO United States NCR01687 Great Western Wind Energy, LLC MRO United States NCR01103 Green Country Energy, LLC MRO United States NCR01104 Green Country Operating Services, LLC MRO United States NCR01105 Hartford Electric MRO United States NCR00993 Hastings Utilities MRO United States NCR00381 Hennepin County, MN MRO United States NCR00997 Hutchinson Utilities Commission MRO United States NCR001072 Independence Power & Light (Independence, Missouri) MRO United States NCR101244 Invenergy Cannon Falls, LLC MRO United States NCR11718 Invenergy Services LLC MRO United States NCR11257 Ironwood Windpower, LLC MRO United States NCR11257 Ironwood Windpower, LLC MRO United States NCR101092 ITC Great Plains, LLC MRO United States NCR101092 ITC Midwest MRO United States NCR101094 Kansas City Power & Light Company MRO United States NCR01107 Kansas City Power & Light Company MRO United States NCR01107 Kansas City Power & Light Company MRO United States NCR01109 Kansas Electric Power Cooperative, Inc. MRO United States NCR11617 Kingfisher Wind, LLC C/o Apex Wind Asset Management MRO United States NCR01113 Kingfisher Wind, LLC C/o Apex Wind Asset Management MRO United States NCR011130 Lakefield Wind Project, LLC MRO United States NCR011310 Lakefield Wind Project, LLC MRO United States NCR011301 Lea Power Partners, LLC MRO United States	NCR11682	Grande Prairie Wind, LLC	MRO	United States
NCR00992Great River EnergyMROUnited StatesNCR11687Great Western Wind Energy, LLCMROUnited StatesNCR01103Green Country Energy, LLCMROUnited StatesNCR01104Green Country Operating Services, LLCMROUnited StatesNCR01105Hartford ElectricMROUnited StatesNCR00993Hastings UtilitiesMROUnited StatesNCR00997Hutchinson Utilities CommissionMROUnited StatesNCR00997Independence Power & Light (Independence, Missouri)MROUnited StatesNCR01072Independence Power & Light (Independence, Missouri)MROUnited StatesNCR11244Invenergy Cannon Falls, LLCMROUnited StatesNCR11718Invenergy Services LLCMROUnited StatesNCR11257Ironwood Windpower, LLCMROUnited StatesNCR10400ITC Great Plains, LLCMROUnited StatesNCR10192ITC MidwestMROUnited StatesNCR01095Jefferson UtilitiesMROUnited StatesNCR01107Kansas City Power & Light CompanyMROUnited StatesNCR01107Kansas Electric Power Cooperative, Inc.MROUnited StatesNCR01017Kansas Electric Power Cooperative, Inc.MROUnited StatesNCR01113Kingfisher Wind, LLC c/o Apex Wind Asset ManagementMROUnited StatesNCR01113Kingfisher Wind, LLC c/o Apex Wind Asset ManagementMROUnited StatesNCR06047Lea County Electric	NCR11835	GRE HERC Services LLC	MRO	United States
NCR11687 Great Western Wind Energy, LLC MRO United States NCR01103 Green Country Energy, LLC MRO United States NCR01104 Green Country Operating Services, LLC MRO United States NCR01105 Hartford Electric MRO United States NCR00993 Hastings Utilities MRO United States NCR00381 Hennepin County, MN MRO United States NCR00381 Hennepin County, MN MRO United States NCR00997 Hutchinson Utilities Commission MRO United States NCR01072 Independence Power & Light (Independence, Missouri) MRO United States NCR01072 Independence Power & Light (Independence, Missouri) MRO United States NCR110244 Invenergy Cannon Falls, LLC MRO United States NCR11257 Ironwood Windpower, LLC MRO United States NCR11257 Ironwood Windpower, LLC MRO United States NCR110400 ITC Great Plains, LLC MRO United States NCR101092 ITC Midwest MRO United States NCR01092 ITC Midwest MRO United States NCR01092 ITC Midwest MRO United States NCR01006 Jefferson Utilities MRO United States NCR01107 Kansas City Power & Light Company MRO United States NCR01107 Kansas City Power & Light Company MRO United States NCR01107 Kansas City Power Alight Company MRO United States NCR10107 Kansas Electric Power Cooperative, Inc. MRO United States NCR10107 Kingfisher Wind, LLC c/o Apex Wind Asset Management MRO United States NCR11180 Lakefield Wind Project, LLC MRO United States NCR11180 Lakefield Wind Project, LLC MRO United States NCR00047 Lea County Electric Cooperative, Inc. MRO United States	NCR11070	Great Plains Windpark, LLC	MRO	United States
NCR01103 Green Country Energy, LLC MRO United States NCR01104 Green Country Operating Services, LLC MRO United States NCR10105 Hartford Electric MRO United States NCR00993 Hastings Utilities MRO United States NCR00381 Hennepin County, MN MRO United States NCR00997 Hutchinson Utilities Commission MRO United States NCR01072 Independence Power & Light (Independence, Missouri) MRO United States NCR10244 Invenergy Cannon Falls, LLC MRO United States NCR11718 Invenergy Services LLC MRO United States NCR11257 Ironwood Windpower, LLC MRO United States NCR11257 Ironwood Windpower, LLC MRO United States NCR10400 ITC Great Plains, LLC MRO United States NCR10192 ITC Midwest MRO United States NCR10106 Jefferson Utilities MRO United States NCR01107 Kansas City Power & Light Company MRO United States NCR01109 Kansas Electric Power Cooperative, Inc. MRO United States NCR11617 Kingfisher Wind, LLC c/o Apex Wind Asset Management MRO United States NCR01113 Kiowa Power Partners, LLC MRO United States NCR01113 Lae Power Partners, LLC MRO United States NCR011180 Lakefield Wind Project, LLC MRO United States NCR010301 Lea Power Partners, LLC MRO United States	NCR00992	Great River Energy	MRO	United States
NCR01104 Green Country Operating Services, LLC MRO United States NCR10105 Hartford Electric MRO United States NCR00993 Hastings Utilities MRO United States NCR00381 Hennepin County, MN MRO United States NCR00997 Hutchinson Utilities Commission MRO United States NCR01072 Independence Power & Light (Independence, Missouri) MRO United States NCR10244 Invenergy Cannon Falls, LLC MRO United States NCR11718 Invenergy Services LLC MRO United States NCR11257 Ironwood Windpower, LLC MRO United States NCR11257 Ironwood Windpower, LLC MRO United States NCR10400 ITC Great Plains, LLC MRO United States NCR10192 ITC Midwest MRO United States NCR10106 Jefferson Utilities MRO United States NCR01107 Kansas City Power & Light Company MRO United States NCR01109 Kansas Electric Power Cooperative, Inc. MRO United States NCR10107 Kingfisher Wind, LLC c/o Apex Wind Asset Management MRO United States NCR11180 Lakefield Wind Project, LLC MRO United States NCR11180 Lakefield Wind Project, LLC MRO United States NCR0047 Lea County Electric Cooperative, Inc. MRO United States NCR0301 United States	NCR11687	Great Western Wind Energy, LLC	MRO	United States
NCR10105Hartford ElectricMROUnited StatesNCR00993Hastings UtilitiesMROUnited StatesNCR00381Hennepin County, MNMROUnited StatesNCR00997Hutchinson Utilities CommissionMROUnited StatesNCR01072Independence Power & Light (Independence, Missouri)MROUnited StatesNCR10244Invenergy Cannon Falls, LLCMROUnited StatesNCR11718Invenergy Services LLCMROUnited StatesNCR11257Ironwood Windpower, LLCMROUnited StatesNCR10400ITC Great Plains, LLCMROUnited StatesNCR10192ITC MidwestMROUnited StatesNCR10106Jefferson UtilitiesMROUnited StatesNCR01107Kansas City Power & Light CompanyMROUnited StatesNCR01109Kansas Electric Power Cooperative, Inc.MROUnited StatesNCR10107Kaukauna UtilitiesMROUnited StatesNCR11617Kingfisher Wind, LLC c/o Apex Wind Asset ManagementMROUnited StatesNCR01113Kiowa Power Partners, LLCMROUnited StatesNCR11180Lakefield Wind Project, LLCMROUnited StatesNCR06047Lea County Electric Cooperative, Inc.MROUnited StatesNCR10301Lea Power Partners, LLCMROUnited States	NCR01103	Green Country Energy, LLC	MRO	United States
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NCR00381 Hennepin County, MN MRO United States NCR00997 Hutchinson Utilities Commission MRO United States NCR01072 Independence Power & Light (Independence, Missouri) MRO United States NCR10244 Invenergy Cannon Falls, LLC MRO United States NCR11718 Invenergy Services LLC MRO United States NCR11257 Ironwood Windpower, LLC MRO United States NCR11257 Ironwood Windpower, LLC MRO United States NCR10400 ITC Great Plains, LLC MRO United States NCR10400 ITC Midwest MRO United States NCR10192 ITC Midwest MRO United States NCR01105 Jefferson Utilities MRO United States NCR01107 Kansas City Power & Light Company MRO United States NCR01109 Kansas Electric Power Cooperative, Inc. MRO United States NCR10107 Kaukauna Utilities MRO United States NCR11617 Kingfisher Wind, LLC c/o Apex Wind Asset Management MRO United States NCR01113 Kiowa Power Partners, LLC MRO United States NCR11180 Lakefield Wind Project, LLC MRO United States NCR06047 Lea County Electric Cooperative, Inc. MRO United States NCR10301 United States	NCR10105	Hartford Electric	MRO	United States
NCR00997 Hutchinson Utilities Commission MRO United States NCR01072 Independence Power & Light (Independence, Missouri) MRO United States NCR10244 Invenergy Cannon Falls, LLC MRO United States NCR11718 Invenergy Services LLC MRO United States NCR11257 Ironwood Windpower, LLC MRO United States NCR10400 ITC Great Plains, LLC MRO United States NCR10400 ITC Missouries MRO United States NCR10192 ITC Missouries MRO United States NCR10192 ITC Missouries MRO United States NCR01096 Jefferson Utilities MRO United States NCR01107 Kansas City Power & Light Company MRO United States NCR01109 Kansas Electric Power Cooperative, Inc. MRO United States NCR01109 Kansas Electric Power Cooperative, Inc. MRO United States NCR11617 Kingfisher Wind, LLC c/o Apex Wind Asset Management MRO United States NCR01113 Kiowa Power Partners, LLC MRO United States NCR11180 Lakefield Wind Project, LLC MRO United States NCR06047 Lea County Electric Cooperative, Inc. MRO United States NCR10301 United States	NCR00993	Hastings Utilities	MRO	United States
NCR01072 Independence Power & Light (Independence, Missouri) MRO United States NCR10244 Invenergy Cannon Falls, LLC MRO United States NCR11718 Invenergy Services LLC MRO United States NCR11257 Ironwood Windpower, LLC MRO United States NCR10400 ITC Great Plains, LLC MRO United States NCR10192 ITC Midwest MRO United States NCR10192 ITC Midwest MRO United States NCR01107 Kansas City Power & Light Company MRO United States NCR01107 Kansas Electric Power Cooperative, Inc. MRO United States NCR10107 Kaukauna Utilities MRO United States NCR10107 Kaukauna Utilities MRO United States NCR11617 Kingfisher Wind, LLC c/o Apex Wind Asset Management MRO United States NCR01113 Kiowa Power Partners, LLC MRO United States NCR11180 Lakefield Wind Project, LLC MRO United States NCR06047 Lea County Electric Cooperative, Inc. MRO United States NCR10301 Lea Power Partners, LLC MRO United States	NCR00381	Hennepin County, MN	MRO	United States
NCR10244 Invenergy Cannon Falls, LLC MRO United States NCR11718 Invenergy Services LLC MRO United States NCR11257 Ironwood Windpower, LLC MRO United States NCR10400 ITC Great Plains, LLC MRO United States NCR10192 ITC Midwest MRO United States NCR10196 Jefferson Utilities MRO United States NCR01107 Kansas City Power & Light Company MRO United States NCR01109 Kansas Electric Power Cooperative, Inc. MRO United States NCR10107 Kaukauna Utilities MRO United States NCR10107 Kaukauna Utilities MRO United States NCR11617 Kingfisher Wind, LLC c/o Apex Wind Asset Management MRO United States NCR01113 Kiowa Power Partners, LLC MRO United States NCR11180 Lakefield Wind Project, LLC MRO United States NCR06047 Lea County Electric Cooperative, Inc. MRO United States NCR10301 United States	NCR00997	Hutchinson Utilities Commission	MRO	United States
NCR11718 Invenergy Services LLC MRO United States NCR11257 Ironwood Windpower, LLC MRO United States NCR10400 ITC Great Plains, LLC MRO United States NCR10192 ITC Midwest MRO United States NCR10106 Jefferson Utilities MRO United States NCR01107 Kansas City Power & Light Company MRO United States NCR01109 Kansas Electric Power Cooperative, Inc. MRO United States NCR10107 Kaukauna Utilities MRO United States NCR10107 Kingfisher Wind, LLC c/o Apex Wind Asset Management MRO United States NCR11617 Kingfisher Wind, LLC c/o Apex Wind Asset Management MRO United States NCR01113 Kiowa Power Partners, LLC MRO United States NCR11180 Lakefield Wind Project, LLC MRO United States NCR06047 Lea County Electric Cooperative, Inc. MRO United States NCR10301 Lea Power Partners, LLC MRO United States	NCR01072	Independence Power & Light (Independence, Missouri)	MRO	United States
NCR11257 Ironwood Windpower, LLC MRO United States NCR10400 ITC Great Plains, LLC MRO United States NCR10192 ITC Midwest MRO United States NCR10106 Jefferson Utilities MRO United States NCR01107 Kansas City Power & Light Company MRO United States NCR01109 Kansas Electric Power Cooperative, Inc. MRO United States NCR10107 Kaukauna Utilities MRO United States NCR10107 Kaukauna Utilities MRO United States NCR11617 Kingfisher Wind, LLC c/o Apex Wind Asset Management MRO United States NCR01113 Kiowa Power Partners, LLC MRO United States NCR11180 Lakefield Wind Project, LLC MRO United States NCR06047 Lea County Electric Cooperative, Inc. MRO United States NCR10301 Lea Power Partners, LLC MRO United States	NCR10244	Invenergy Cannon Falls, LLC	MRO	United States
NCR10400ITC Great Plains, LLCMROUnited StatesNCR10192ITC MidwestMROUnited StatesNCR10106Jefferson UtilitiesMROUnited StatesNCR01107Kansas City Power & Light CompanyMROUnited StatesNCR01109Kansas Electric Power Cooperative, Inc.MROUnited StatesNCR10107Kaukauna UtilitiesMROUnited StatesNCR11617Kingfisher Wind, LLC c/o Apex Wind Asset ManagementMROUnited StatesNCR01113Kiowa Power Partners, LLCMROUnited StatesNCR11180Lakefield Wind Project, LLCMROUnited StatesNCR06047Lea County Electric Cooperative, Inc.MROUnited StatesNCR10301Lea Power Partners, LLCMROUnited States	NCR11718	Invenergy Services LLC	MRO	United States
NCR10192  ITC Midwest  NCR10106  Jefferson Utilities  NCR01107  Kansas City Power & Light Company  NCR01109  Kansas Electric Power Cooperative, Inc.  NCR10107  Kaukauna Utilities  NCR10107  Kingfisher Wind, LLC c/o Apex Wind Asset Management  NCR01113  Kiowa Power Partners, LLC  NCR11180  Lakefield Wind Project, LLC  NCR06047  Lea County Electric Cooperative, Inc.  MRO  United States  NCR11180  Lakefield Wind Project, LLC  MRO  United States  NCR06047  Lea County Electric Cooperative, Inc.  MRO  United States  NCR10301  United States	NCR11257	Ironwood Windpower, LLC	MRO	United States
NCR10106Jefferson UtilitiesMROUnited StatesNCR01107Kansas City Power & Light CompanyMROUnited StatesNCR01109Kansas Electric Power Cooperative, Inc.MROUnited StatesNCR10107Kaukauna UtilitiesMROUnited StatesNCR11617Kingfisher Wind, LLC c/o Apex Wind Asset ManagementMROUnited StatesNCR01113Kiowa Power Partners, LLCMROUnited StatesNCR11180Lakefield Wind Project, LLCMROUnited StatesNCR06047Lea County Electric Cooperative, Inc.MROUnited StatesNCR10301Lea Power Partners, LLCMROUnited States	NCR10400	ITC Great Plains, LLC	MRO	United States
NCR01107Kansas City Power & Light CompanyMROUnited StatesNCR01109Kansas Electric Power Cooperative, Inc.MROUnited StatesNCR10107Kaukauna UtilitiesMROUnited StatesNCR11617Kingfisher Wind, LLC c/o Apex Wind Asset ManagementMROUnited StatesNCR01113Kiowa Power Partners, LLCMROUnited StatesNCR11180Lakefield Wind Project, LLCMROUnited StatesNCR06047Lea County Electric Cooperative, Inc.MROUnited StatesNCR10301Lea Power Partners, LLCMROUnited States	NCR10192	ITC Midwest	MRO	United States
NCR01109Kansas Electric Power Cooperative, Inc.MROUnited StatesNCR10107Kaukauna UtilitiesMROUnited StatesNCR11617Kingfisher Wind, LLC c/o Apex Wind Asset ManagementMROUnited StatesNCR01113Kiowa Power Partners, LLCMROUnited StatesNCR11180Lakefield Wind Project, LLCMROUnited StatesNCR06047Lea County Electric Cooperative, Inc.MROUnited StatesNCR10301Lea Power Partners, LLCMROUnited States	NCR10106	Jefferson Utilities	MRO	United States
NCR01109Kansas Electric Power Cooperative, Inc.MROUnited StatesNCR10107Kaukauna UtilitiesMROUnited StatesNCR11617Kingfisher Wind, LLC c/o Apex Wind Asset ManagementMROUnited StatesNCR01113Kiowa Power Partners, LLCMROUnited StatesNCR11180Lakefield Wind Project, LLCMROUnited StatesNCR06047Lea County Electric Cooperative, Inc.MROUnited StatesNCR10301Lea Power Partners, LLCMROUnited States	NCR01107	Kansas City Power & Light Company	MRO	United States
NCR10107Kaukauna UtilitiesMROUnited StatesNCR11617Kingfisher Wind, LLC c/o Apex Wind Asset ManagementMROUnited StatesNCR01113Kiowa Power Partners, LLCMROUnited StatesNCR11180Lakefield Wind Project, LLCMROUnited StatesNCR06047Lea County Electric Cooperative, Inc.MROUnited StatesNCR10301Lea Power Partners, LLCMROUnited States	NCR01109		MRO	United States
NCR01113       Kiowa Power Partners, LLC       MRO       United States         NCR11180       Lakefield Wind Project, LLC       MRO       United States         NCR06047       Lea County Electric Cooperative, Inc.       MRO       United States         NCR10301       Lea Power Partners, LLC       MRO       United States	NCR10107	·	MRO	United States
NCR01113Kiowa Power Partners, LLCMROUnited StatesNCR11180Lakefield Wind Project, LLCMROUnited StatesNCR06047Lea County Electric Cooperative, Inc.MROUnited StatesNCR10301Lea Power Partners, LLCMROUnited States	NCR11617	Kingfisher Wind, LLC c/o Apex Wind Asset Management	MRO	United States
NCR11180     Lakefield Wind Project, LLC     MRO     United States       NCR06047     Lea County Electric Cooperative, Inc.     MRO     United States       NCR10301     Lea Power Partners, LLC     MRO     United States	NCR01113		MRO	United States
NCR06047     Lea County Electric Cooperative, Inc.     MRO     United States       NCR10301     Lea Power Partners, LLC     MRO     United States	NCR11180	Lakefield Wind Project, LLC	MRO	United States
NCR10301 Lea Power Partners, LLC MRO United States		-		United States
				United States
				United States

NCD10226	Llana Estacada Wind LD	I MADO	United States
NCR10226 NCR10022	Llano Estacado Wind, LP	MRO MRO	United States United States
	LSP-Cottage Grove, LP	+	United States
NCR06048	Lubbock Power And Light	MRO	
NCR00818	Madison Gas And Electric Company	MRO	United States
NCR01003	Manitoba Hydro	MRO	Manitoba
NCR01006	Marshall Municipal Utilities	MRO	United States
NCR01007	Marshfield Utilities	MRO	United States
NCR11739	McKenzie Electric Cooperative	MRO	United States
NCR11893	Meadowlark Wind I LLC (New Frontier)	MRO	Manitoba
NCR10108	Menasha Utilities	MRO	United States
NCR11772	Meridian Limited Partnership	MRO	Saskatchewan
NCR00824	MidAmerican Energy Company	MRO	United States
NCR00826	Midcontinent Independent System Operator, Inc.	MRO	United States
NCR01118	Midwest Energy, Inc.	MRO	United States
NCR01012	Minnesota Municipal Power Agency	MRO	United States
NCR00674	Minnesota Power (Allete, Inc.)	MRO	United States
NCR01013	Minnkota Power Cooperative, Inc.	MRO	United States
NCR03044	MISO-MBHydro Contingency Reserve Sharing Group	MRO	United States
NCR01014	Missouri Basin Municipal Power Agency (MRES)	MRO	United States
NCR01015	Montana-Dakota Utilities Company	MRO	United States
NCR01016	Moorhead Public Service	MRO	United States
NCR11740	Mountrail-Williams Electric Cooperative	MRO	United States
NCR00303	Municipal Energy Agency Of Nebraska	MRO	United States
NCR00967	Muscatine Power & Water (Board Of Water, Electric & Communications)	MRO	United States
NCR06054	NAES Corporation - Dogwood	MRO	United States
NCR11565	NAES Corporation - Cottage Grove	MRO	United States
NCR11236	NAES Corporation - Goodman Energy Center	MRO	United States
NCR01018	Nebraska Public Power District	MRO	United States
NCR10019	NextEra Energy Resources, LLC	MRO	United States
NCR11721	North Battleford Power L.P.	MRO	Saskatchewan
NCR11684	North Star Solar PV, LLC	MRO	United States
NCR11607	Northeast Texas Electric Cooperative - HCPP	MRO	United States
NCR01124	Northeast Texas Electric Cooperative, Inc	MRO	United States
NCR01020	Northern States Power (Xcel Energy)	MRO	United States
NCR11741	Northwest Iowa Power Cooperative	MRO	United States
NCR01021	NorthWestern Energy	MRO	United States
NCR11642	NRG Energy Services - Golden Spread	MRO	United States
NCR11730	NRG Energy Services-Panhandle Wind Ranch (GOP)	MRO	United States
NCR10110	Oconomowoc Utilities	MRO	United States
NCR11683	Odell Wind Farm, LLC	MRO	United States
NCR01130	Oklahoma Gas And Electric Co.	MRO	United States
NCR04108	Oklahoma Municipal Power Authority	MRO	United States
NCR11874	Olympia Renewable Platform	MRO	United States
NCR00860	Omaha Public Power District	MRO	United States
NCR11485	Oneta Power, LLC	MRO	United States
NCR01023	Otter Tail Power Company	MRO	United States
NCR01135	Paragould Light & Water Commission	MRO	United States
NCR11808	Pattern Operators LP	MRO	United States
NCR11877	Persimmon Creek Wind Farm 1, LLC	MRO	United States
NCR01024	Pierre Municipal Utilities	MRO	United States
NCR10111	Plymouth Utilities	MRO	United States
NCR11268	Pocahontas Prairie Wind LLC	MRO	United States
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NRCR11953 Prairie Breeze Wind Energy III LC MRO United States NCR11460 Prairie Breeze Wind Energy III C MRO United States NCR11460 Prairie Breeze Wind Energy III C MRO United States NCR11479 Red Dirt Wind Project, LLC MRO United States NCR11779 Red Dirt Wind Project, LLC MRO United States NCR11279 Red Dirt Wind Project, LLC MRO United States NCR11823 Red File Wind Project, LLC MRO United States NCR11823 Red File Wind Project, LLC MRO United States NCR11823 Red File Wind Project, LLC MRO United States NCR11823 Red File Wind Project, LLC MRO United States NCR11823 Red States Wind Project, LLC MRO United States NCR11823 Red File Wind Froject, LLC MRO United States NCR11826 Red File Wind Wind File Win	NCD110F2	Ducinia Ducasa Wind Fungura IIII C	I MPO	United Ctates
NCR11460         Prairie Breeze Wind Energy LLC         MRO         United States           NCR06010         Rayburn Country Electric Cooperative, Inc.         MRO         United States           NCR10304         Red Dirt Wind Project, LLC         MRO         United States           NCR10304         Red Hills Wind Project, LLC         MRO         United States           NCR10112         Reedsburg Utility Commission         MRO         United States           NCR10113         River Falls Municipal Utilities         MRO         United States           NCR01027         Recessburg Utility Commission         MRO         United States           NCR10128         Rock Falls Wind Farm, LLC         MRO         United States           NCR11780         Rock Falls Wind Farm, LLC         MRO         United States           NCR11784         Rocker Falls Wind Farm, LLC         MRO         United States           NCR11743         Rosewelf Wind Project, LLC         MRO         United States           NCR11743         Rosewelf Wind Project, LLC         MRO         United States           NCR11750         Saskathewan         MRO         United States           NCR11560         Rosevel Wind, LLC         MRO         United States           NCR11570         Saskathewan	NCR11953	Prairie Breeze Wind Energy II LLC	MRO	United States
NCR05010         Rayburn Country Electric Cooperative, Inc.         MRO         United States           NCR11779         Red Dirt Wind Project, LLC.         MRO         United States           NCR10304         Red Hills Wind Project, LLC.         MRO         United States           NCR11823         Red Pine Wind Project, LLC.         MRO         United States           NCR10112         Reedsburg Utility Commission         MRO         United States           NCR10113         River Falls Municipal Utilities         MRO         United States           NCR01027         Rochester Public Utilities         MRO         United States           NCR11780         Rock Fall SW Mind Farm, LLC         MRO         United States           NCR11940         RockGen Energy, LLC         MRO         United States           NCR11950         Rossevelt Wind Project, LLC         MRO         United States           NCR11960         Rosevert Wind Project, LLC         MRO         United States           NCR11742         Rosphrider Electric Cooperative, Inc         MRO         United States           NCR11742         Sheridan Electric Cooperative, Inc         MRO         United States           NCR11742         Sheridan Electric Cooperative, Inc         MRO         United States           N	H		<b>+</b>	
NCR11779         Red Dirt Wind Project, LLC.         MRO         United States           NCR10304         Red Hills Wind Project, LLC.         MRO         United States           NCR10323         Red Pills Wind Project, LLC.         MRO         United States           NCR10112         RedSburg Utility Commission         MRO         United States           NCR10121         RedShafis Wind Farm, LLC         MRO         United States           NCR10127         Rochester Public Utilities         MRO         United States           NCR11780         Rock Fails Wind Farm, LLC         MRO         United States           NCR11780         Rock Fails Wind Farm, LLC         MRO         United States           NCR11781         Rock Fails Wind Farm, LLC         MRO         United States           NCR11793         Rose Rose Energy, LLC         MRO         United States           NCR11723         Roughrider Electric Cooperative, Inc.         MRO         United States           NCR11729         Saskatchewan Power Corporation         MRO         United States           NCR111720         Saskatchewan Power Corporative, Inc.         MRO         United States           NCR111270         Saskatchewan Power Comporative, Inc.         MRO         United States           NCR111272		<u> </u>	<b>†</b>	
NCR10304 Red Hills Wind Project, LLC. MRO United States NCR11623 Red Pine Wind Project, LLC MRO United States NCR10112 Reedsbury Utility Commission MRO United States NCR10113 River Falls Municipal Utilities MRO United States NCR10127 Rochester Public Utilities MRO United States NCR10127 Rochester Public Utilities MRO United States NCR10127 Rochester Public Utilities MRO United States NCR11780 Rock Falls Wind Farm, LLC MRO United States NCR11780 Rock Falls Wind Farm, LLC MRO United States NCR11946 RockGen Energy, LLC MRO United States NCR11946 RockGen Energy, LLC MRO United States NCR11570 Rocker Hvind Project, LLC MRO United States NCR11570 States Wind Project, LLC MRO United States NCR11743 Roughrider Electric Cooperative, Inc MRO United States NCR01029 Saskatchewan Power Corporation MRO Saskatchewan NCR11770 SaskPower International Inc. MRO Saskatchewan NCR11770 SaskPower International Inc. MRO Saskatchewan NCR11742 Sheridan Electric Cooperative, Inc. MRO United States NCR11596 State Creek Wind, LLC MRO United States NCR11596 State Creek Wind, LLC MRO United States NCR11591 Solomon Forks Wind Project, LLC MRO United States NCR11593 Solomon Forks Wind Project, LLC MRO United States NCR11595 Southern Minesota Municipal Power Agency MRO United States NCR11695 Southern Minesota Municipal Power Agency MRO United States NCR01134 Southwester Power Company MRO United States NCR01144 Southwestern Power Administration MRO United States NCR01144 Southwestern Power Administration MRO United States NCR01145 Southwestern Public Service Co. (Xcel Energy) MRO United States NCR01145 Southwestern Public Service Co. (Xcel Energy) MRO United States NCR11322 Spearville 3, LLC MRO United States NCR11322 Spearville 3, LLC MRO United States NCR11323 Spinning Spar Wind, LLC MRO United States NCR11326 Spy Hill Power L.P. MRO MRO United States NCR11326 Spy Hill Power L.P. MRO United States NCR11326 Spy Hill Power Corporation MRO United States NCR11329 Tri-County Electric Cower Corporation MRO United States NCR0133 Tri-State Generation		· · · · · · · · · · · · · · · · · · ·		
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NCR01027         Rochester Public Utilities         MRO         United States           NCR11780         Rock Falls Wind Farm, LLC         MRO         United States           NCR11786         RockGen Energy, LLC         MRO         United States           NCR11746         RockGen Energy, LLC         MRO         United States           NCR11743         Roughrider Electric Cooperative, Inc         MRO         United States           NCR11770         Saskatchewan Power Corporation         MRO         Saskatchewan           NCR11770         Saskatchewan Electric Cooperative, Inc.         MRO         United States           NCR11586         Slate Creek Wind, LC         MRO         United States           NCR11685         Solomon Forks Wind Project, LLC         MRO         United States           NCR11685         SOLV, Inc.         MRO         United States           NCR11686         Southern Minnesota Municipal Power Agency         MRO         United States           NCR11685         SOUTHern Minnesota Municipal Power Agency         MRO         United States           NCR11405         Southwestern Power Administration         MRO         United States           NCR01141         Southwestern Power Administration         MRO         United States           NCR11222 <td></td> <td>- · ·</td> <td></td> <td></td>		- · ·		
NCR11780   Rock Falls Wind Farm, LLC   MRO   United States   NCR11546   RockGen Energy, LLC   MRO   United States   NCR11546   RockGen Energy, LLC   MRO   United States   NCR11547   Roughrider Electric Cooperative, Inc   MRO   United States   NCR11743   Roughrider Electric Cooperative, Inc   MRO   United States   NCR01029   Saskatchewan Power Corporation   MRO   Saskatchewan   NCR011770   SaskPower International Inc.   MRO   Saskatchewan   NCR11770   SaskPower International Inc.   MRO   United States   NCR11786   Salet Creek Wind, LLC   MRO   United States   NCR11586   Slate Creek Wind, LLC   MRO   United States   NCR11586   Southern South Project, LLC   MRO   United States   NCR11585   SOLY, Inc.   MRO   United States   NCR11685   SOLY, Inc.   MRO   United States   NCR01030   Southern Minnesota Municipal Power Agency   MRO   United States   NCR01030   Southern Power Company   MRO   United States   NCR01143   Southwest Power Pool, Inc.   MRO   United States   NCR01144   Southwestern Power Administration   MRO   United States   NCR01145   Southwestern Power Administration   MRO   United States   NCR01145   Southwestern Public Service Co. (Xcel Energy)   MRO   United States   NCR01145   Southwestern Public Service Co. (Xcel Energy)   MRO   United States   NCR11322   Spearville 3, LLC   MRO   United States   NCR11323   Spinning Spur Wind, LLC   MRO   United States   NCR11720   St. Joseph Windfarm Inc.   MRO   Manitoba   NCR11720   St. Joseph Windfarm Inc.   MRO   Manitoba   NCR11720   St. Loseph Windfarm Inc.   MRO   United States   NCR11721   St. Joseph Windfarm Inc.   MRO   United States   NCR11901   Stoneray Power Partners, LLC   MRO   United States   NCR11901   Stoneray Power Partners, LLC   MRO   United States   NCR11024   Tatala Garden Wind Project, LLC   MRO   United States   NCR11025   Tatala Generation And Transmission Association Inc Transmission   MRO   United States   NCR11728   Thunder Ranch Wind Project, LLC   MRO   United States   NCR11739   Transource Energy, LLC   MRO   United States   NCR117		·	<b>†</b>	
NCR11946 RockGen Energy, LLC MRO United States NCR11550 Roosevelt Wind Project, LLC MRO United States NCR11743 Roughrider Eletric Cooperative, Inc MRO United States NCR01029 Saskatchewan Power Corporation MRO Saskatchewan NCR11770 SaskPower International Inc. MRO Saskatchewan NCR11770 SaskPower International Inc. MRO United States NCR11742 Sheridan Electric Cooperative, Inc. MRO United States NCR11586 Slate Creek Wind, LLC MRO United States NCR11586 Slate Creek Wind, LLC MRO United States NCR11585 SOUV, Inc. MRO United States NCR11695 SOUTH MINION OF S	<b>—</b>		<b>†</b>	
NCR11560         Rosevelt Wind Project, LLC         MRO         United States           NCR11743         Roughrider Electric Cooperative, Inc         MRO         United States           NCR01029         Saskatchewan Power Corporation         MRO         Saskatchewan           NCR11770         Sask Power International Inc.         MRO         Saskatchewan           NCR11742         Sheridan Electric Cooperative, Inc.         MRO         United States           NCR11586         Slate Creek Wind M, LC         MRO         United States           NCR11919         Solomon Forks Wind Project, LLC         MRO         United States           NCR11685         SOLV, Inc.         MRO         United States           NCR01030         Southern Minnesota Municipal Power Agency         MRO         United States           NCR01143         Southwest Power Pool, Inc.         MRO         United States           NCR01144         Southwestern Public Service Co. (Xcel Energy)         MRO         United States           NCR01145         Southwestern Public Service Co. (Xcel Energy)         MRO         United States           NCR11220         Speanville 3, LLC         MRO         United States           NCR11232         Speanville 3, LLC         MRO         United States           NCR11		,		
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NCR11742         Sheridan Electric Cooperative, Inc.         MRO         United States           NCR11586         Slate Creek Wind, LLC         MRO         United States           NCR11919         Solomon Forks Wind Project, LLC         MRO         United States           NCR11085         SOLV, Inc.         MRO         United States           NCR01030         Southern Minnesota Municipal Power Agency         MRO         United States           NCR01143         Southwest Power Pool, Inc.         MRO         United States           NCR01144         Southwestern Power Administration         MRO         United States           NCR01145         Southwestern Public Service Co. (Xcel Energy)         MRO         United States           NCR011322         Spearville 3, LLC         MRO         United States           NCR11323         Southwestern Public Service Co. (Xcel Energy)         MRO         United States           NCR11320         Spearville 3, LLC         MRO         United States           NCR11270         MRO         Joseph Windfarm Inc.         MRO         United States           NCR11220         Sp. Julie Power L.P.         MRO         Manitoba           NCR11220         St. Leon Wind Energy L.D         MRO         Manitoba           NCR11220	NCR01029	,	-	
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NCR11695         Southern Power Company         MRO         United States           NCR01143         Southwest Power Power, Inc.         MRO         United States           NCR01144         Southwestern Power Administration         MRO         United States           NCR01145         Southwestern Public Service Co., (Xcel Energy)         MRO         United States           NCR11322         Spearville 3, LLC         MRO         United States           NCR11323         Spinning Spur Wind, LLC         MRO         United States           NCR11720         St. Joseph Windfarm Inc.         MRO         Manitoba           NCR11270         St. Leon Wind Energy LP         MRO         Manitoba           NCR11269         St. Leon Wind Energy LP         MRO         Manitoba           NCR11901         Stoneray Power Partners, LLC         MRO         United States           NCR11902         Sunflower Electric Power Corporation         MRO         United States           NCR101245         Tatanka Wind Project, LLC         MRO         United States           NCR10245         Tatanka Wind Project, LLC         MRO         United States           NCR01053         The Empire District Electric Company         MRO         United States           NCR11578         Thunder Ranch	NCR11685	SOLV, Inc.	MRO	United States
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NCR01145         Southwestern Public Service Co. (Xcel Energy)         MRO         United States           NCR11322         Spearville 3, LLC         MRO         United States           NCR11323         Spinning Spur Wind, LLC         MRO         United States           NCR11722         Spy Hill Power L.P.         MRO         Saskatchewan           NCR117270         St. Joseph Windfarm Inc.         MRO         Manitoba           NCR11269         St. Leon Wind Energy LP         MRO         Manitoba           NCR11901         Stoneray Power Partners, LLC         MRO         United States           NCR01148         Sunflower Blectric Power Corporation         MRO         United States           NCR11702         Sunflower Wind Project, LLC         MRO         United States           NCR11702         Sunflower Wind Project, LLC         MRO         United States           NCR00633         Tenaska Gateway Partners Ltd         MRO         United States           NCR01155         The Empire District Electric Company         MRO         United States           NCR11778         Thunder Ranch Wind Project, LLC         MRO         United States           NCR11531         Tri-Cstate Generation And Transmission Association Inc Transmission         MRO         United States	NCR01143	Southwest Power Pool, Inc.	MRO	United States
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NCR11231 Tri-County Electric Cooperative, Inc of Oklahoma MRO United States  NCR10102 Tri-State Generation And Transmission Association Inc Transmission MRO United States  NCR11738 Upper Missouri Power Cooperative MRO United States  NCR01033 Upper Peninsula Power Company MRO United States  NCR11880 Upstream Wind Energy, LLC MRO United States  NCR01357 USACE - Kansas City District MRO United States  NCR06037 USACE - Little Rock District MRO United States  NCR00978 USACE - Omaha District MRO United States  NCR06038 USACE - Tulsa District MRO United States  NCR11159 Wapsipinicon Wind Project, LLC MRO United States  NCR00658 Western Area Power Administration - Rocky Mountain Region MRO United States  NCR01036 Western Area Power Administration - Upper Great Plains East MRO United States	NCR11778	Thunder Ranch Wind Project, LLC	MRO	<b>United States</b>
NCR10102Tri-State Generation And Transmission Association Inc TransmissionMROUnited StatesNCR11738Upper Missouri Power CooperativeMROUnited StatesNCR01033Upper Peninsula Power CompanyMROUnited StatesNCR11880Upstream Wind Energy, LLCMROUnited StatesNCR01357USACE - Kansas City DistrictMROUnited StatesNCR06037USACE - Little Rock DistrictMROUnited StatesNCR00978USACE - Omaha DistrictMROUnited StatesNCR06038USACE - Tulsa DistrictMROUnited StatesNCR11159Wapsipinicon Wind Project, LLCMROUnited StatesNCR00658Wester Energy, Inc.MROUnited StatesNCR05464Western Area Power Administration - Rocky Mountain RegionMROUnited StatesNCR01036Western Area Power Administration - Upper Great Plains EastMROUnited States	NCR11539	Transource Energy, LLC	MRO	<b>United States</b>
NCR11738Upper Missouri Power CooperativeMROUnited StatesNCR01033Upper Peninsula Power CompanyMROUnited StatesNCR11880Upstream Wind Energy, LLCMROUnited StatesNCR01357USACE - Kansas City DistrictMROUnited StatesNCR06037USACE - Little Rock DistrictMROUnited StatesNCR00978USACE - Omaha DistrictMROUnited StatesNCR06038USACE - Tulsa DistrictMROUnited StatesNCR11159Wapsipinicon Wind Project, LLCMROUnited StatesNCR00658Wester Energy, Inc.MROUnited StatesNCR05464Western Area Power Administration - Rocky Mountain RegionMROUnited StatesNCR01036Western Area Power Administration - Upper Great Plains EastMROUnited States	NCR11231	Tri-County Electric Cooperative, Inc of Oklahoma	MRO	<b>United States</b>
NCR01033Upper Peninsula Power CompanyMROUnited StatesNCR11880Upstream Wind Energy, LLCMROUnited StatesNCR01357USACE - Kansas City DistrictMROUnited StatesNCR06037USACE - Little Rock DistrictMROUnited StatesNCR00978USACE - Omaha DistrictMROUnited StatesNCR06038USACE - Tulsa DistrictMROUnited StatesNCR11159Wapsipinicon Wind Project, LLCMROUnited StatesNCR00658Wester Energy, Inc.MROUnited StatesNCR05464Western Area Power Administration - Rocky Mountain RegionMROUnited StatesNCR01036Western Area Power Administration - Upper Great Plains EastMROUnited States	NCR10102	Tri-State Generation And Transmission Association Inc Transmission	MRO	United States
NCR11880 Upstream Wind Energy, LLC MRO United States NCR01357 USACE - Kansas City District MRO United States NCR06037 USACE - Little Rock District MRO United States NCR00978 USACE - Omaha District MRO United States NCR06038 USACE - Tulsa District MRO United States NCR11159 Wapsipinicon Wind Project, LLC MRO United States NCR00658 Wester Energy, Inc. MRO United States NCR05464 Western Area Power Administration - Rocky Mountain Region MRO United States NCR01036 Western Area Power Administration - Upper Great Plains East MRO United States	NCR11738	Upper Missouri Power Cooperative	MRO	<b>United States</b>
NCR01357USACE - Kansas City DistrictMROUnited StatesNCR06037USACE - Little Rock DistrictMROUnited StatesNCR00978USACE - Omaha DistrictMROUnited StatesNCR06038USACE - Tulsa DistrictMROUnited StatesNCR11159Wapsipinicon Wind Project, LLCMROUnited StatesNCR00658Westar Energy, Inc.MROUnited StatesNCR05464Western Area Power Administration - Rocky Mountain RegionMROUnited StatesNCR01036Western Area Power Administration - Upper Great Plains EastMROUnited States	NCR01033	Upper Peninsula Power Company	MRO	<b>United States</b>
NCR06037USACE - Little Rock DistrictMROUnited StatesNCR00978USACE - Omaha DistrictMROUnited StatesNCR06038USACE - Tulsa DistrictMROUnited StatesNCR11159Wapsipinicon Wind Project, LLCMROUnited StatesNCR00658Westar Energy, Inc.MROUnited StatesNCR05464Western Area Power Administration - Rocky Mountain RegionMROUnited StatesNCR01036Western Area Power Administration - Upper Great Plains EastMROUnited States	NCR11880	Upstream Wind Energy, LLC	MRO	United States
NCR00978USACE - Omaha DistrictMROUnited StatesNCR06038USACE - Tulsa DistrictMROUnited StatesNCR11159Wapsipinicon Wind Project, LLCMROUnited StatesNCR00658Westar Energy, Inc.MROUnited StatesNCR05464Western Area Power Administration - Rocky Mountain RegionMROUnited StatesNCR01036Western Area Power Administration - Upper Great Plains EastMROUnited States	NCR01357	USACE - Kansas City District	MRO	United States
NCR06038USACE - Tulsa DistrictMROUnited StatesNCR11159Wapsipinicon Wind Project, LLCMROUnited StatesNCR00658Westar Energy, Inc.MROUnited StatesNCR05464Western Area Power Administration - Rocky Mountain RegionMROUnited StatesNCR01036Western Area Power Administration - Upper Great Plains EastMROUnited States	NCR06037	USACE - Little Rock District	MRO	United States
NCR11159Wapsipinicon Wind Project, LLCMROUnited StatesNCR00658Westar Energy, Inc.MROUnited StatesNCR05464Western Area Power Administration - Rocky Mountain RegionMROUnited StatesNCR01036Western Area Power Administration - Upper Great Plains EastMROUnited States	NCR00978	USACE - Omaha District	MRO	United States
NCR00658Westar Energy, Inc.MROUnited StatesNCR05464Western Area Power Administration - Rocky Mountain RegionMROUnited StatesNCR01036Western Area Power Administration - Upper Great Plains EastMROUnited States	NCR06038	USACE - Tulsa District	MRO	United States
NCR05464       Western Area Power Administration - Rocky Mountain Region       MRO       United States         NCR01036       Western Area Power Administration - Upper Great Plains East       MRO       United States	NCR11159	Wapsipinicon Wind Project, LLC	MRO	United States
NCR05464       Western Area Power Administration - Rocky Mountain Region       MRO       United States         NCR01036       Western Area Power Administration - Upper Great Plains East       MRO       United States	NCR00658	Westar Energy, Inc.	MRO	United States
NCR01036 Western Area Power Administration - Upper Great Plains East MRO United States	NCR05464		MRO	United States
NCR01160 Western Farmers Electric Cooperative MRO United States	NCR01036	Western Area Power Administration - Upper Great Plains East	MRO	United States
	NCR01160	Western Farmers Electric Cooperative	MRO	United States

NCR01038	Willmar Municipal Utilities	MRO	United States
NCR01030	Wisconsin Rapids Water Works & Lighting Commission	MRO	United States
NCR01040	WPPI Energy	MRO	United States
NCR11791	Alcoa Power Generating IncLong Sault Division	NPCC	United States
NCR11387	Allegany Generating Station LLC	NPCC	United States
NCR07076	AP (Curtis Palmer) LLC	NPCC	United States
NCR11112	Astoria Energy II LLC	NPCC	United States
NCR00538	Astoria Energy, LLC	NPCC	United States
NCR07012	Astoria Generating Company L.P.	NPCC	United States
NCR10259	Avangrid Renewables	NPCC	United States
NCR11246	Bayonne Energy Center	NPCC	United States
NCR07015	Bear Swamp Power Company LLC	NPCC	United States
NCR10351	Berkshire Power Company, LLC	NPCC	United States
NCR11559	Berlin Station, LLC	NPCC	United States
NCR11675	Blue Sky West, LLC	NPCC	United States
NCR00503	BNY Power Operations, LLC	NPCC	United States
NCR07034	Bozrah Light and Power Company	NPCC	United States
NCR07022	Braintree Electric Light Department	NPCC	United States
NCR03035	Bridgeport Energy, LLC	NPCC	United States
NCR11647	Brookfield Power US Asset Management LLC	NPCC	United States
NCR11324	Brookfield White Pine Hydro, LLC	NPCC	United States
NCR10237	Brooklyn Navy Yard Cogeneration Partners, L.P.	NPCC	United States
NCR11459	Bucksport Generation LLC	NPCC	United States
NCR07024	Burlington Electric Department	NPCC	United States
NCR10353	Caithness Long Island, LLC	NPCC	United States
NCR00006	Calpine Corporation	NPCC	United States
NCR11056	CAMS - Connecticut	NPCC	United States
NCR11488	CAMS - New York, LLC	NPCC	United States
NCR10330	Canandaigua Power Partners, LLC	NPCC	United States
NCR07026	Capitol District Energy Center Cogeneration Associates, JV	NPCC	United States
NCR10354	Carr Street Generating Station, LP	NPCC	United States
NCR10355	Carthage Energy, LLC	NPCC	United States
NCR10382	Castleton Power, LLC	NPCC	United States
NCR11254	Cayuga Operating Company, LLC	NPCC	United States
NCR07028	Central Hudson Gas & Electric Corporation	NPCC	United States
NCR07029	Central Maine Power Company	NPCC	United States
NCR11949	CGX Operating Services, LLC	NPCC	United States
NCR07031	Chicopee Municipal Lighting Plant	NPCC	United States
NCR10357	CMEEC - Alfred L. Pierce Power Station	NPCC	United States
NCR11133	Connecticut Transmission Municipal Electric Energy Cooperative	NPCC	United States
NCR07046	Consolidated Edison Co of NY, Inc	NPCC	United States
NCR11088	Constellation Mystic Power, LLC	NPCC	United States
NCR11892	Copenhagen Wind Farm, LLC	NPCC	United States
NCR10009	Covanta Niagara LP	NPCC	United States
NCR10010	Covanta Onondaga LP	NPCC	United States
NCR10011	Covanta SEMASS LLC	NPCC	United States
NCR11828	CPV Towantic, LLC	NPCC	United States
NCR11827	CPV Valley, LLC	NPCC	United States
NCR07055	Cross Sound Cable Company, LLC.	NPCC	United States
NCR11487	Danskammer Energy, LLC	NPCC	United States
NCR07056	Danvers Electric Division	NPCC	United States
NCR02922	Dartmouth Power Associates, LP	NPCC	United States

NCR11878	Dominion Energy Generation Marketing, Inc.	NPCC	United States
NCR07061	Dominion Energy Manchester Street, Inc.	NPCC	United States
NCR07065	Dominion Energy Nuclear Connecticut, Inc.	NPCC	United States
NCR11662	EDP Renewables North America LLC	NPCC	United States
NCR07013	Emera, Maine	NPCC	United States
NCR11061	Empire Generating Co, LLC	NPCC	United States
NCR07073	Entergy Nuclear Indian Point 2, LLC	NPCC	United States
NCR07074	Entergy Nuclear Indian Point 3, LLC	NPCC	United States
NCR10358	Erie Boulevard Hydropower, LP	NPCC	United States
NCR00374	Essential Power Massachusetts, LLC	NPCC	United States
NCR00540	Essential Power Newington, LLC	NPCC	United States
NCR11727	Evergreen Gen Lead LLC	NPCC	United States
NCR11582	Evergreen Wind Power II, LLC	NPCC	United States
NCR07176	Eversource Energy Service Company	NPCC	United States
NCR04057	Exelon Generation Company, LLC	NPCC	United States
NCR00778	Exelon Generation Company, LLC - Exelon Nuclear	NPCC	United States
NCR11042	Fairport Municipal Commision	NPCC	United States
NCR10049	FirstLight Hydro Generating Company	NPCC	United States
NCR07086	Fitchburg Gas and Electric Light Company	NPCC	United States
NCR11819	Footprint Power Salem Harbor Development LP	NPCC	United States
NCR07090	Fortistar North Tonawanda	NPCC	United States
NCR11710	GenConn Energy LLC	NPCC	United States
NCR11873	GenOn Bowline	NPCC	United States
NCR11198	Granite Reliable Power, LLC	NPCC	United States
NCR07102	Granite State Electric Company	NPCC	United States
NCR10359	Great Lakes Hydro America - ME	NPCC	United States
NCR07220	Great River Hydro, LLC	NPCC	United States
NCR07103	Green Mountain Power Corporation	NPCC	United States
NCR11753	Greenidge Generation LLC	NPCC	United States
NCR07035	Groton Utilities	NPCC	United States
NCR11853	GSP Merrimack LLC	NPCC	United States
NCR11852	GSP Newington LLC	NPCC	United States
NCR11851	GSP Schiller LLC	NPCC	United States
NCR11766	Helix Maine Wind Development, LLC	NPCC	United States
NCR11796	Helix Ravenswood, LLC	NPCC	United States
NCR07106	Hingham Municipal Lighting Plant	NPCC	United States
NCR07107	Hudson Light and Power Department	NPCC	United States
NCR07109	HYDRO ONE NETWORKS INC.	NPCC	Ontario
NCR07110	Hydro-Québec Distribution	NPCC	Quebec
NCR07111	Hydro-Quebec Production	NPCC	Quebec
NCR07112	Hydro-Quebec TransEnergie	NPCC	Quebec
NCR10360	Indeck - Corinth, LP	NPCC	United States
NCR10361	Indeck - Olean, LP	NPCC	United States
NCR10362	Indeck - Oswego, LP	NPCC	United States
NCR10363	Indeck - Yerkes, LP	NPCC	United States
NCR10364	Indeck Energy Services of Silver Springs, LP	NPCC	United States
NCR00124	Ipswich Municipal Light Department	NPCC	United States
NCR07124	ISO-NE	NPCC	United States
NCR11436	Kendall Green Energy Holdings, LLC	NPCC	United States
NCR11126	Kleen Energy Systems, LLC.	NPCC	United States
NCR00164	Littleton Electric Light Department	NPCC	United States
NCR07132	Lockport Energy Associates	NPCC	United States
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NCR07133	Long Island Power Authority	NPCC	United States
NCR10133	Luminant Energy Company LLC	NPCC	United States
NCR07134	Maine Electric Power Company	NPCC	United States
NCR11900	Manchester Street, L.L.C.	NPCC	United States
NCR07135	Mansfield Municipal Electric Department	NPCC	United States
NCR00208	Marblehead Municipal Light Department	NPCC	United States
NCR11793	Marco DM Holdings, LLC	NPCC	United States
NCR07136	Mass. Municipal Wholesale Electric Company	NPCC	United States
NCR11044	Massena Electric Department	NPCC	United States
NCR07045	Materials Innovation and Recycling Authority (MIRA)	NPCC	United States
NCR10251	Middleborough Gas and Electric Department	NPCC	United States
NCR00333	Middleton Municipal Electric Department	NPCC	United States
NCR07144	Millennium Power Partners, LP	NPCC	United States
NCR07037	Mohegan Tribal Utility Authority	NPCC	United States
NCR11535	NAES Corporation - Beaver Falls	NPCC	United States
NCR11866	NAES Corporation - Canal Station	NPCC	United States
NCR11705	NAES Corporation - Castleton Power	NPCC	United States
NCR11561	NAES Corporation - Cogen Technologies Linden Venture	NPCC	United States
NCR11795	NAES Corporation - Dighton	NPCC	United States
NCR11729	NAES Corporation - Empire	NPCC	United States
NCR07167	NAES Corporation - Lockport	NPCC	United States
NCR11794	NAES Corporation - Milford	NPCC	United States
NCR11243	NAES Corporation - MIRA - JETS	NPCC	United States
NCR11244	NAES Corporation - MIRA - PBF	NPCC	United States
NCR07169	NAES Corporation - North Tonawanda	NPCC	United States
NCR11536	NAES Corporation - Syracuse	NPCC	United States
NCR11127	NAES Corporation-Kleen Energy Systems, LLC.	NPCC	United States
NCR07128	National Grid Generation LLC	NPCC	United States
NCR11171	National Grid USA	NPCC	United States
NCR00130	Neptune Regional Transmission System, LLC	NPCC	United States
NCR07154	New Athens Generating Company, LLC	NPCC	United States
NCR07155	New Brunswick Power Corporation	NPCC	New Brunswick
NCR07159	New England Power Company	NPCC	United States
NCR07091	New Hampshire Transmission, LLC	NPCC	United States
NCR07160	New York Independent System Operator	NPCC	United States
NCR07161	New York Power Authority	NPCC	United States
NCR11639	New York Transco LLC	NPCC	United States
NCR10019	NextEra Energy Resources, LLC	NPCC	United States
NCR07163	Niagara Mohawk Power Corporation	NPCC	United States
NCR00126	North Attleborough Electric Department	NPCC	United States
NCR07038	Norwich Public Utilities	NPCC	United States
NCR00415	Norwood Municipal Light Department	NPCC	United States
NCR07178	Nova Scotia Power Inc.	NPCC	Nova Scotia
NCR11709	NRG Northeast	NPCC	United States
NCR11709 NCR07181	NYSEG	NPCC	+
NCR07181 NCR11797		NPCC	United States United States
	Ocean State Power, LLC		+
NCR07184	Ontario IESO Orango and Rockland Utilities Inc	NPCC	Ontario
NCR07186	Orange and Rockland Utilities, Inc.	NPCC	United States
NCR07191	Peabody Municipal Light Plant	NPCC	United States
NCR10369	Penobscot Energy Recovery Company	NPCC	United States
NCR10342	Pinetree Power - Tamworth, Inc.	NPCC	United States
NCR07195	Pittsfield Generating Company LP	NPCC	United States

NCR11405	Plainfield Renewable Energy, LLC	NPCC	United States
NCR11045	Plattsburgh Municipal Lighting Department	NPCC	United States
NCR10370	Power City Partners, LP	NPCC	United States
NCR00893	PSEG Fossil LLC	NPCC	United States
NCR11504	Purenergy Operating Services LLC Selkirk	NPCC	United States
NCR10026	PurEnergy Operating Services, LLC	NPCC	United States
NCR07206	Reading Municipal Light Department	NPCC	United States
NCR11337	ReEnergy Black River	NPCC	United States
NCR11514	ReEnergy Livermore Falls	NPCC	United States
NCR11340	ReEnergy Lyonsdale	NPCC	United States
NCR10352	ReEnergy Stratton	NPCC	United States
NCR10371	Rensselaer Generating LLC	NPCC	United States
NCR11200	Rhode Island State Energy Center, LP	NPCC	United States
NCR07207	Rochester Gas and Electric	NPCC	United States
NCR11341	Roseton Generating LLC	NPCC	United States
NCR11130	Rumford Power Inc.	NPCC	United States
NCR11046	Salamanca Board of Public Utilities	NPCC	United States
NCR07208	Saranac Power Partners, L.P.	NPCC	United States
NCR11534	SBF New York, L.L.C.	NPCC	United States
NCR10051	Selkirk Cogen Partners, L.P.	NPCC	United States
NCR10372	Seneca Power Partners, LP	NPCC	United States
NCR10299	Sheldon Energy, LLC	NPCC	United States
NCR10252	Shrewsbury Electric and Cable Operations	NPCC	United States
NCR11253	Somerset Operating Company, LLC	NPCC	United States
NCR11792	South Hadley Electric Light Department	NPCC	United States
NCR10373	Sterling Power Partners	NPCC	United States
NCR11408	Stony Creek Energy LLC	NPCC	United States
NCR11152	Tanner Street Generation, LLC	NPCC	United States
NCR07214	Taunton Municipal Lighting Plant	NPCC	United States
NCR07217	The City of Holyoke Gas and Electric Department	NPCC	United States
NCR11649	Third Taxing District of East Norwalk	NPCC	United States
NCR11129	Tiverton Power LLC	NPCC	United States
NCR07041	Town of Wallingford Dept of Utilities	NPCC	United States
NCR07222	United Illuminating Company	NPCC	United States
NCR07223	Unitil Energy Systems, Inc.	NPCC	United States
NCR10366	Valcour Altona Windpark, LLC	NPCC	United States
NCR10271	Valcour Bliss Windpark, LLC	NPCC	United States
NCR10367	Valcour Chateaugay Windpark, LLC	NPCC	United States
NCR10272	Valcour Clinton Windpark, LLC	NPCC	United States
NCR10273	Valcour Ellenburg Windpark, LLC	NPCC	United States
NCR10368	Valcour Wethersfield Windpark, LLC	NPCC	United States
NCR07224	Vermont Electric Cooperative	NPCC	United States
NCR07227	Vermont Public Power Supply Authority	NPCC	United States
NCR07228	Vermont Transco, LLC	NPCC	United States
NCR07229	Verso Androscoggin LLC	NPCC	United States
NCR11041	Village of Arcade	NPCC	United States
NCR11041	Village of Lake Placid	NPCC	United States
NCR11047	Village of Solvay Electric Dept.	NPCC	United States
NCR00200	Village of Solvay Electric Dept.  Vistra Energy Corp.	NPCC	United States
NCR10253	Wakefield Municipal Gas and Light Department	NPCC	United States
NCR10233 NCR11102	Wallingford Energy LLC	NPCC	United States
NCR11102 NCR10339		NPCC	United States
IACKT033A	Waterbury Generation, LLC	NPCC	United States

NCR10374	Waterside Power, LLC	NPCC	United States
NCR07230	Wellesley Municipal Light Plant	NPCC	United States
NCR07233	Westfield Gas & Electric Light Department	NPCC	United States
NCR02923	Wheelabrator Bridgeport, L.P.	NPCC	United States
NCR10172	Wheelabrator Millbury Inc.	NPCC	United States
NCR10033	Wheelabrator Saugus J.V.	NPCC	United States
NCR10221	Wheelabrator Westchester Inc.	NPCC	United States
NCR11516	ACE O&M, LLC	RF	United States
NCR11645	AE Power Services LLC	RF	United States
NCR11401	AEP Generation Resources Inc.	RF	United States
NCR11178	AES Laurel Mountain, LLC	RF	United States
NCR00666	AES Warrior Run	RF	United States
NCR00667	Alcoa Power Generating Inc.	RF	United States
NCR11785	Algonquin Power Co.	RF	United States
NCR08039	Allegheny Ridge Wind Farm, LLC	RF	United States
NCR10337	Alliant Energy - East	RF	United States
NCR00680	American Bituminous Power Partners, L.P.	RF	United States
NCR00682	American Electric Power Service Corporation as agent for Appalachian Power Company, Indiana Michigan Power Company, Kentucky Power Company, Kingsport Power Company, Ohio Power Company, Wheeling Power Company, AEP Ohio Transmission Company, AEP Appalachian Transmission Company, AEP West Virginia Transmission Company, AEP Indiana Michigan Transmission Company and AEP Kentucky Transmission Company, Inc.	RF	United States
NCR00683	American Municipal Power Inc.	RF	United States
NCR00685	American Transmission Co. LLC	RF	United States
NCR11899	AMP Transmission, L.L.C.	RF	United States
NCR11787	Apple Blossom Wind, LLC	RF	United States
NCR11760	Armstrong Power, LLC	RF	United States
NCR00688	Atlantic City Electric Company	RF	United States
NCR11659	Aurora Generation, LLC	RF	United States
NCR10259	Avangrid Renewables	RF	United States
NCR00689	Baltimore Gas and Electric Company	RF	United States
NCR11040	Beech Ridge Energy LLC	RF	United States
NCR00170	Benton County Wind Farm, LLC	RF	United States
NCR00690	Big Sandy Peaker Plant, LLC	RF	United States
NCR11461	Big Sky Wind, LLC	RF	United States
NCR11910	Birdsboro Power LLC	RF	United States
NCR11289	Bishop Hill Energy LLC	RF	United States
NCR11647	Brookfield Power US Asset Management LLC	RF	United States
NCR11837	Buchanan Generation, LLC	RF	United States
NCR00700	Buckeye Power, Inc.	RF	United States
NCR11225	Butler Rural Electric Cooperative, Inc.	RF	United States
NCR00006	Calpine Corporation	RF	United States
NCR00214	Camp Grove Wind Farm, LLC	RF	United States
NCR11786	Carroll County Energy, LLC	RF	United States
NCR11780 NCR11949	CGX Operating Services, LLC	RF	United States
NCR00708	Chambers Cogeneration, Limited Partnership	RF	United States
NCR11820	Chambers Cogeneration, Elimited Farthership  Chambersburg Energy, LLC	RF	United States
NCR11820 NCR10316	CHI Power, Inc.	RF	United States
INCUTOSTO	Cili rowei, ilic.	NΓ	Officed States
NCR00712	City of Cleveland, Dept. of Public Utilities, Division of Cleveland Public Power	RF	United States

	City of Columbus Ohio Donartment of Bublic Utilities Division of Water And	1	1
NCR02000	City of Columbus, Ohio, Department of Public Utilities, Division of Water And Power	RF	United States
NCR00713	City of Dover	RF	United States
NCR08007	City of Dover - Ohio	RF	United States
NCR00716	City of Greenfield	RF	United States
NCR00718	City of Lansing by its Board of Water and Light	RF	United States
NCR02710	City of Niles Light Department	RF	United States
NCR00721	City of Rochelle	RF	United States
NCR00722	City of Vineland New Jersey	RF	United States
NCR06019	City of Westerville Electric Division	RF	United States
NCR11869	Clean Energy Future-Lordstown, LLC	RF	United States
NCR00724	Cloverland Electric Cooperative	RF	United States
NCR00727	CMS Generation Michigan Power, L. L. C.	RF	United States
NCR08012	Coldwater Board of Public Utilities	RF	United States
NCR10229	Commonwealth Chesapeake Company, LLC	RF	United States
NCR08013	Commonwealth Edison Company	RF	United States
NCR11216	Constellation Maryland Peaker Fleet	RF	United States
NCR00740	Consumers Energy Company	RF	United States
NCR00742	Cordova Energy Company, LLC	RF	United States
NCR00743	Covanta Delaware	RF	United States
NCR10389	Covanta Plymouth Renewable Energy, LLC.	RF	United States
NCR10388	Covanta York Renewable Energy, LLC.	RF	United States
NCR11952	CPV Fairview, LLC	RF	United States
NCR11706	CPV Maryland, LLC	RF	United States
NCR11585	CPV Shore, LLC	RF	United States
NCR10209	Crete Energy Venture, LLC	RF	United States
NCR08014	Cuyahoga Falls Electric System	RF	United States
NCR00751	Dearborn Industrial Generation, L. L. C.	RF	United States
NCR11173	Delaware City Refining Company LLC	RF	United States
NCR00752	Delmarva Power & Light Company	RF	United States
NCR00780	Dominion Energy Fairless, LLC	RF	United States
NCR11878	Dominion Energy Generation Marketing, Inc.	RF	United States
NCR00753	DTE Electric Company	RF	United States
NCR00761	Duke Energy Corporation	RF	United States
NCR00762	Duquesne Light Company	RF	United States
NCR11228	Eagle Point Power Generation, LLC	RF	United States
NCR11686	Eastern Shore Solar, LLC	RF	United States
NCR00768	Easton Utilities Commission	RF	United States
NCR08051	Ebensburg Power Company	RF	United States
NCR10305	EcoGrove Wind LLC	RF	United States
NCR11662	EDP Renewables North America LLC	RF	United States
NCR10257	EFS Parlin Holdings LLC	RF	United States
NCR11437	Elgin Energy Center, LLC	RF	United States
NCR11378	Elwood Energy, LLC	RF	United States
NCR08052	Entergy Nuclear Palisades, LLC	RF	United States
NCR00212	Essential Power OPP, LLC	RF	United States
NCR00251	Essential Power Rock Springs, LLC	RF	United States
NCR04057	Exelon Generation Company, LLC	RF	United States
NCR00778	Exelon Generation Company, LLC - Exelon Nuclear	RF	United States
NCR11898	Fairless Energy, L.L.C.	RF	United States
	FirstEnergy Generation and Marketing as agent for FirstEnergy Generation;		
NCR11317	FirstEnergy Solutions Corp.	RF	United States
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NCR11316	FirstEnergy Nuclear as agent for FirstEnergy Nuclear Generation, LLC; FirstEnergy  Nuclear Operating Company	RF	United States
NCR11315	FirstEnergy Utilities as agent for Allegheny Energy Supply Company, L.L.C., American Transmission Systems, Incorporated; The Cleveland Electric Illuminating Company; Jersey Central Power & Light Company; Metropolitan Edison Company; Mid-Atlantic Interstate Transmission; Monongahela Power Company; Ohio Edison Company; Pennsylvania Electric Company; Pennsylvania Power Company; The Potomac Edison Company; The Toledo Edison Company; Trans-Allegheny Interstate Line Company; and West Penn Power Company	RF	United States
NCR00376	Forked River Power LLC	RF	United States
NCR03040	Fowler Ridge II Wind Farm LLC	RF	United States
NCR10308	Fowler Ridge III Wind Farm LLC	RF	United States
NCR10307	Fowler Ridge Wind Farm LLC	RF	United States
NCR11821	Gans Energy, LLC	RF	United States
NCR11945	Garrison Energy Center, LLC	RF	United States
NCR11747	General Electric International - Linden VFT	RF	United States
NCR11696	General Electric International - Marcus Hook	RF	United States
NCR11871	GenOn Mid-Atlantic, LLC	RF	United States
NCR11137	GenOn Northeast Management Company	RF	United States
NCR11136	GenOn Power Midwest	RF	United States
NCR11141	GenOn REMA 1	RF	United States
NCR11029	Grand Ridge Energy II LLC	RF	United States
NCR11030	Grand Ridge Energy III LLC	RF	United States
NCR11031	Grand Ridge Energy IV LLC	RF	United States
NCR10306	Grand Ridge Energy LLC	RF	United States
NCR11235	Gratiot County Wind LLC	RF	United States
NCR11749	Helix Ironwood LLC	RF	United States
NCR11297	Homer City Generation, L.P.	RF	United States
NCR00794	Hoosier Energy REC, Inc.	RF	United States
NCR11366	Hudson Transmission Partners, LLC	RF	United States
NCR11859	Hunterstown Combined Cycle Generating Station	RF	United States
NCR00796	Indiana Municipal Power Agency	RF	United States
NCR00798	Indianapolis Power & Light Company	RF	United States
NCR11335	Interpower/Ahlcon Partners Limited Partnership	RF	United States
NCR11513	Invenergy Nelson LLC	RF	United States
NCR11748	IPSC Brandywine Power	RF	United States
NCR11638	ITC Interconnection LLC	RF	United States
NCR00803	ITC Transmission	RF	United States
NCR11712	Kelly Creek Wind, LLC	RF	United States
NCR00810	Keystone Urban Renewal, LP	RF	United States
NCR11475	KMC Thermo, LLC	RF	United States
NCR11836	Lackawanna Energy Center LLC	RF	United States
NCR11447	Lake Lynn Generation, LLC	RF	United States
NCR00168	Lakewood Cogeneration, LP	RF	United States
NCR11788	Lee County Generating Station, LLC	RF	United States
NCR11724	Lightstone Generation LLC	RF	United States
NCR10208	Lincoln Generating Facility, LLC	RF	United States
NCR11208	Longview Power LLC	RF	United States
NCR11107	LSP University Park, LLC	RF	United States
NCR00817	LSP-Whitewater, LP	RF	United States
NCR10133	Luminant Energy Company LLC	RF	United States

NCR11311	Mehoopany Wind Energy LLC	RF	United States
NCR11911	Mendota Hills, LLC	RF	United States
NCR00820	METC	RF	United States
NCR08023	Michigan Electric Coordinated Systems	RF	United States
NCR11409	Michigan Power LP	RF	United States
NCR00822	Michigan Public Power Agency	RF	United States
NCR00822		RF	United States
	Midcontinent Independent System Operator, Inc.	1	United States
NCR10282	Midland Cogeneration Venture, Limited Partnership	RF	United States
NCR03044	MISO-MBHydro Contingency Reserve Sharing Group	RF	
NCR11842 NCR00834	Montpelier Generating Station, LLC	RF	United States United States
NCR10283	Morgantown Energy Associates	RF RF	United States United States
NCR10283	Morris Cogeneration, LLC  Moxie Freedom LLC	RF	United States
NCR11832 NCR00836		RF	United States
NCR00839	Municipal Light and Power - City of Anderson	RF	-
	NAES Corporation - Big Sandy		United States United States
NCR11911	NAES Corporation - Birdsboro Power	RF	
NCR10234	NAES Corporation - Chesapeake	RF	United States
NCR11562	NAES Corporation - East Coast Power Linden Holdings	RF	United States
NCR11017	NAES Corporation - Lawrence	RF	United States
NCR11831	NAES Corporation - Middletown Energy Center	RF	United States
NCR11767	NAES Corporation - Red Oak	RF	United States
NCR11728	NAES Corporation - Wabash River Highland	RF	United States
NCR11564	NAES Corporation - Whitewater	RF	United States
NCR00849	NAES Corporation - Wolf Hills	RF	United States
NCR11018	NAES Corporation - Worthington	RF	United States
NCR11527	NAES Corporation-Newark Energy Center	RF	United States
NCR00293	NedPower Mount Storm, LLC	RF	United States
NCR00130	Neptune Regional Transmission System, LLC	RF	United States
NCR10295	New Covert Generating Company, LLC	RF	United States
NCR11526	Newark Energy Center, LLC	RF	United States
NCR10019	NextEra Energy Resources, LLC	RF	United States
NCR00852	Northampton Generating Company, LP	RF	United States
NCR11553	Northeastern Rural Electric Membership Cooperative	RF	United States
NCR02611	Northern Indiana Public Service Company LLC	RF	United States
NCR11879	Northwest Ohio Wind, LLC	RF	United States
NCR11715	NRG East	RF	United States
NCR11581	NRG Energy Services LLC - Morgantown	RF	United States
NCR11843	O.H. Hutchings CT, LLC	RF	United States
NCR00857	Ohio Valley Electric Corporation	RF	United States
NCR00859	Old Dominion Electric Cooperative	RF	United States
NCR11731	Oregon Clean Energy, LLC	RF	United States
NCR11840	Panda Hummel Station, LLC	RF	United States
NCR11611	Panda Liberty LLC	RF	United States
NCR11654	Panda Patriot LLC	RF	United States
NCR11808	Pattern Operators LP	RF	United States
NCR08026	PECO Energy Company	RF	United States
NCR11569	Pilot Hill Wind, LLC	RF	United States
NCR11861	Pioneer Transmission, LLC	RF	United States
NCR00879	PJM Interconnection, LLC	RF	United States
NCR00881	Potomac Electric Power Company	RF	United States
NCR00884	PPL Electric Utilities Corporation	RF	United States
NCR00893	PSEG Fossil LLC	RF	United States

NCR00266 Public Service Electric & Gas Company RF United States NCR10026 Purfenergy Operating Services, LLC RF United States NCR10026 Purfenergy Operating Services, LLC RF United States NCR10200 Radford's Raw Wild Farm, LLC RF United States NCR01300 Raven F5 Property Holdings LLC RF United States NCR002009 Richmond Power and Light RF United States NCR003012 Riverside Generating Company, LLC RF United States NCR011660 Rockford Generation, LLC RF United States NCR011660 Rockford Generation, LLC RF United States NCR00363 Rockford Generating Company, LLC RF United States NCR00363 Rockford Generating, LLC RF United States NCR00363 Rockford Electric Company RF United States NCR003009 Rockford Market Power Corporation RF United States NCR004020 Rockford Market Power Corporation RF United States NCR00311 Safe Harbor Water Power Corporation RF United States NCR00312 Scrubgrass Generating Company, LP RF United States NCR00312 Scrubgrass Generating Company, LP RF United States NCR00312 Scrubgrass Generating Company, LP RF United States NCR00315 Southern Indiana Gas & Electric Company (I/L) RF United States NCR00315 Southern Indiana Gas & Electric Company (I/L) RF United States NCR00315 Southern Indiana Gas & Electric Company (I/L) RF United States NCR00312 Southern Indiana Gas & Electric Company (I/L) RF United States NCR00312 Southern Maryland Electric Cooperative, Inc. RF United States NCR00313 Southern Maryland Electric Cooperative, Inc. RF United States NCR00313 Southern Maryland Electric Cooperative, Inc. RF United States NCR00313 Southern Maryland Electric Cooperative, Inc. RF United States NCR00313 Southern Maryland Electric Cooperative, Inc. RF United States NCR00303 Southern Maryland Electric Cooperative, Inc. RF United States NCR00303 The Cooperative Property (I/L) RF United States NCR003	NCR00895	DSEC Nuclear LLC	RF	United States
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NCR11800   Radford's Run Wind Farm, LLC   RF   United States   NCR11308   Raven FS Property Holdings LLC   RF   United States   NCR00909   Richmond Power and Light   RF   United States   NCR00909   Richmond Power and Light   RF   United States   NCR009012   Riverside Generating Company, LLC   RF   United States   NCR01600   Rockford Generating Company, LLC   RF   United States   NCR00863   Rockland Electric Company   RF   United States   NCR003009   Rocky Road Power, LLC   RF   United States   NCR003009   Rocky Road Power, LLC   RF   United States   NCR004000   Rolling Hills Generating, LLC   RF   United States   NCR00911   Safe Harbor Water Power Corporation   RF   United States   NCR009911   Safe Harbor Water Power Corporation   RF   United States   NCR00912   Scrubgrass Generating Company, LP   RF   United States   NCR00912   Scrubgrass Generating, LLC   RF   United States   NCR00912   Scrubgrass Generating, LLC   RF   United States   NCR01615   Seward Generation, LLC   RF   United States   NCR01615   Seward Generation, LLC   RF   United States   NCR01615   Seward Generation, LLC   RF   United States   NCR00917   NCR00917   NCR00917   NCR00917   NCR00917   NCR00917   NCR00917   NCR00917   NCR00918   Southern Indiana Gas & Electric Company d/b/a Vectren Energy Delivery of Indiana,   RF   United States   NCR00889   Susquehana Nuclear, LLC   RF   United States   NCR01822   Springdale Energy, LLC   RF   United States   NCR01822   Springdale Energy, LLC   RF   United States   NCR00889   Susquehana Nuclear, LLC   RF   United States   NCR00889   Susquehana Nuclear, LLC   RF   United States   NCR01830   Tales Generating, LLC   RF   United States   NCR01830   Tales Generating, LLC   RF   United States   NCR01830   Tales Generating, LLC   RF   United States   NCR011362   Tales Generating Station, LLC   RF   United States   NCR011362   Tales Generating Station, LLC   RF   United States   NCR011362   Tales Generating Station, LLC   RF   United States   NCR011363   The City of Hamilton, Ohio   RF   United States   NCR0		. ,		
NCR11308   Raven FS Property Holdings LLC   RF   United States   NCR000909   Richmond Power and Light   RF   United States   NCR03012   Riverside Generating Company, LLC   RF   United States   NCR03012   Riverside Generating Company, LLC   RF   United States   NCR01660   Rockford Generation, LLC   RF   United States   NCR03009   Rocky Road Power, LLC   RF   United States   NCR03009   Rocky Road Power, LLC   RF   United States   NCR03009   Rocky Road Power, LLC   RF   United States   NCR00040   Rolling Hills Generating, LLC   RF   United States   NCR000910   Safe Harbor Water Power Corporation   RF   United States   NCR000911   Safe Harbor Water Power Corporation   RF   United States   NCR000912   Scrubgrass Generating, LLC   RF   United States   NCR00915   Seward Generation, LLC   RF   United States   NCR01146   Seward Generation, LLC   RF   United States   NCR011515   Seward Generation, LLC   RF   United States   NCR00917   Southern Indiana Gas & Electric Company (Jp) a Vectren Energy Delivery of Indiana   NCR00917   Inc.   United States   NCR00917   Southern Maryland Electric Cooperative, Inc.   RF   United States   NCR01182   Springdale Energy, LLC   RF   United States   NCR01182   Springdale Energy, LLC   RF   United States   NCR01182   Stote States   Stote States   NCR01182   Stote States   Stote States   NCR01182   Stote States   Stote States   NCR01183   Stote States   Stote States   NCR01184   Tale Electric Generating Station, LLC   RF   United States   NCR01185   Stote States   Stote States   NCR01185   Tales Represented the Representation   RF   United States   NCR01183   Tales Represented the Representation   RF   United States   NCR01185   Tales Generation   LLC				
Richmond Power and Light   RF		,		
NCR03012   Riverside Generating Company, LLC   RF United States   NCR11660   Rockford Generation, LLC   RF United States   NCR030863   Rockfand Electric Company   RF United States   NCR03009   Rocky Road Power, LLC   RF United States   NCR03009   Rocky Road Power, LLC   RF United States   NCR03009   Rocky Road Power, LLC   RF United States   NCR03019   Safe Harbor Water Power Corporation   RF United States   NCR00911   Safe Harbor Water Power Corporation   RF United States   NCR00912   Scrubgrass Generating Company, LP   RF United States   NCR00912   Scrubgrass Generating Company, LP   RF United States   NCR00912   Scrubgrass Generating Company, LP   RF United States   NCR01615   Seward Generation, LLC   RF United States   NCR11615   Seward Generation, LLC   RF United States   NCR01615   Seward Generation, LLC   RF United States   NCR08031   South Central Power Co.   RF United States   NCR00917   Southern Indiana Gas & Electric Company d/b/a Vectree Energy Delivery of Indiana,   RF United States   NCR00917   Southern Indiana Gas & Electric Company d/b/a Vectree Energy Delivery of Indiana,   RF United States   NCR00918   Southern Maryland Electric Cooperative, Inc.   RF United States   NCR11812   S. Joseph Energy LLC   RF United States   NCR11822   Springdale Energy, LLC   RF United States   NCR00925   T.E.S. Filer City Station Limited Partnership   RF United States   NCR00925   T.E.S. Filer City Station Limited Partnership   RF United States   NCR11937   Tale Generation, LLC   RF United States   NCR11967   Tale Generation, LLC   RF United States   NCR11967   Tale Generation, LLC   RF United States   NCR11967   TAQA Gen X LLC   RF United States   NCR11967   TAQA Gen X LLC   RF United States   NCR1197   TAQA Gen X LLC   RF United States   NCR11957   TAQA Gen X LLC   RF United States   NCR11957   Taya Generation   LLC   RF United States   NCR11957   Taya Generation   LLC   RF United States   NCR11957   Taya Generation   LLC   RF United States   NCR11959   Tray General LIC   RF United States   NCR11959   Tray Gen				
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NCR11391       West Deptford Energy, LLC       RF       United States         NCR08077       Wheelabrator Falls Inc.       RF       United States         NCR00417       Whiting Clean Energy, Inc.       RF       United States         NCR11284       Wildcat Wind Farm I, LLC       RF       United States         NCR11498       Wisconsin Electric Power - MIUP       RF       United States	NCR00941		RF	United States
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NCR00417     Whiting Clean Energy, Inc.     RF     United States       NCR11284     Wildcat Wind Farm I, LLC     RF     United States       NCR11498     Wisconsin Electric Power - MIUP     RF     United States				United States
NCR11284     Wildcat Wind Farm I, LLC     RF     United States       NCR11498     Wisconsin Electric Power - MIUP     RF     United States				
NCR11498 Wisconsin Electric Power - MIUP RF United States				
	NCR00951	Wisconsin Electric Power Company	RF	

NCR00952	Wisconsin Public Service Corporation	RF	United States
NCR00953	Wolf Hills Energy, LLC	RF	United States
NCR00954	Wolverine Power Supply Cooperative, Inc.	RF	United States
NCR11870	Worley - Clean Energy Future-Lordstown	RF	United States
NCR11732	Worley - Crean Energy Tutture-Eurostown  Worley - Oregon Clean Energy	RF	United States
NCR11732 NCR11813	Worley - St. Joseph Energy Center	RF	United States
NCR11815	Yankee Street, LLC	RF	United States
NCR11050	AL Sandersville, LLC	SERC	United States
NCR11833	AL Solar A, LLC	SERC	United States
NCR01165	Alabama Municipal Electric Authority	SERC	United States
NCR01166	Alabama Power Company	SERC	United States
NCR10248	Ameren Missouri	SERC	United States
NCR01175	Ameren Services Company	SERC	United States
NCR00683	American Municipal Power Inc.	SERC	United States
NCR01060	Arkansas Electric Cooperative Corporation	SERC	United States
NCR01060 NCR01177		SERC	United States
NCR10259	Associated Electric Cooperative, Inc.	SERC	United States
	Avangrid Renewables		
NCR01178	Baconton Power LLC	SERC	United States United States
NCR00003 NCR00004	Bartow, City of	SERC	
	Beaches Energy Services of Jacksonville Beach	SERC	United States
NCR11606	Beauregard Electric Cooperative, Inc.	SERC	United States United States
NCR01180	Big Rivers Electric Corporation	SERC SERC	United States
NCR11309	Bishop Hill Energy II LLC		United States
NCR11856	Bishop Hill Energy III LLC	SERC	
NCR01183	Blue Ridge Electric Membership Corporation	SERC	United States
NCR01186	Brazos Electric Power Cooperative, Inc.	SERC	United States
NCR11313	Broad River Energy, LLC	SERC	United States
NCR11647	Brookfield Power US Asset Management LLC	SERC	United States
NCR11286	Brookfield Smoky Mountain Hydropower LLC	SERC	United States
NCR11192	Calhoun Power Company, LLC	SERC	United States
NCR11318	California Ridge Energy LLC	SERC	United States
NCR00006	Calpine Corporation	SERC	United States
NCR11479	Carville Energy LLC	SERC	United States
NCR09001	Catalyst Old River Hydroelectric Limited Partnership	SERC	United States
NCR01191	Central Electric Power Cooperative Inc	SERC	United States United States
NCR11466	Century Aluminum of Kentucky GP	SERC	
NCR10390	CER Generation LLC	SERC	United States
NCR11191	Cherokee County Cogeneration Partners, LLC	SERC	United States
NCR10316	CHI Power, Inc.	SERC	United States
NCR11418	Choctaw Generation Limited Partnership, LLLP	SERC	United States
NCR06033	City of Alexandria	SERC	United States
NCR01068	City Of Alexandria	SERC	United States
NCR01195	City of Cambridge Mississippi	SERC	United States
NCR01071	City Of Clarksdale, Mississippi	SERC	United States
NCR01196	City of Columbia, MO	SERC	United States
NCR01199	City of Dalton d/b/a Dalton Utilities	SERC	United States
NCR11916	City of Henderson, KY, Utility Commission, DBA Henderson Municipal Power & Light	SERC	United States
NCR11010	City of Leesburg	SERC	United States
NCR11091	City of North Little Rock Electric Department	SERC	United States
NCR00054	City of Ocala Electric Utility	SERC	United States
NCR01202	City of Orangeburg Department of Public Utilities	SERC	United States

NCR31150 City of West Memphis (DP-UES) SERC United States NCR301082 City Water & Light - Jones Dorro, Arkansas SERC United States NCR301082 City Water & Light - Jones Dorro, Arkansas SERC United States NCR301083 Cico Corporate Holdings LLC SERC United States NCR301083 Cico Corporate Holdings LLC SERC United States NCR311602 Columbia Energy LLC SERC United States NCR311622 Conteol is Solar, LLC SERC United States NCR311622 Conteol is Solar, LLC SERC United States NCR311623 Company Corporation SERC United States NCR311623 Conteol is Solar, LLC SERC United States NCR311092 Conway Corporation SERC United States NCR311092 Conway Corporation SERC United States NCR311092 Convant Palm Beach Resource Recovery, LLC SERC United States NCR311091 COUNTED STATES NCR31151 COOPATION SERC United States NCR31121 COVATIA, Palmarka, Inc. SERC United States NCR31121 COVATIA, Palmarka, Inc. SERC United States NCR31121 COVATIA, Palmarka, Inc. SERC United States NCR30054 Covatia Palm Beach Resource Recovery, LLC SERC United States NCR30054 Covatia Palm Beach Resource Recovery, LLC SERC United States NCR30054 Covatia Palm Beach Resource Recovery, LLC SERC United States NCR30054 Covatia Palm Beach Resource Recovery, LLC SERC United States NCR30054 Covatia Palm Beach Resource Recovery, LLC SERC United States NCR30156 Covatia Palmarka, Inc. SERC United States NCR30157 Covatia Palmarka, In	NCD01220	City of Conjugational II CIVII D	CEDC	United States
NCR01032	NCR01328	City of Springfield, IL - CWLP	SERC	United States
NCR00499   Claiborne Electric Cooperative, Inc.   SERC   United States   NCR01083   Cleco Corporate Holdings LLC   SERC   United States   NCR011480   Columbia Energy LLC   SERC   United States   NCR011622   Coneto II Solar, LLC   SERC   United States   NCR011092   Conway Corporation   SERC   United States   NCR011092   Conway Corporation   SERC   United States   NCR011015   Cooperative Energy   SERC   United States   NCR01210   Cottonwood Energy Company LP   SERC   United States   NCR001210   Cottonwood Energy Company LP   SERC   United States   NCR001211   Covanta Palm Beach Resource Recovery, LLC.   SERC   United States   NCR001211   Covanta, Fairfax, Inc.   SERC   United States   NCR00020   CP IUSA North Carolina LLC (Roxboro)   SERC   United States   NCR00020   CP IUSA North Carolina LLC (Roxboro)   SERC   United States   NCR011212   Craven County Wood Energy Limited Partnership   SERC   United States   NCR01122   Craven County Wood Energy Limited Partnership   SERC   United States   NCR01123   Cover County Wood Energy Limited Partnership   SERC   United States   NCR01124   Cypress Creek O.SM, LLC   SERC   United States   NCR01125   Cypress Creek O.SM, LLC   SERC   United States   NCR01126   Cube Hydro Carolinas, LLC   SERC   United States   NCR01127   Dibie Electric Membership Corporation   SERC   United States   NCR01128   Depart Membership Corporation   SERC   United States   NCR01129   Dibie Electric Membership Corporation   SERC   United States   NCR01129   Downloon Energy Generation Marketing, Inc.   SERC   United States   NCR01129   Downloon Energy Sent Carolina, Inc.   SERC   United States   NCR01129   Downloon Energy Generation Marketing, Inc.   SERC   United States   NCR01129   Downloon Energy Sent Carolina, Inc.   SERC   United States   NCR01129   Duke Energy Projects, LLC   SERC   United States   NCR01129   Duke Energy Projects, LLC   SERC   United States   NCR01129   Duke Energy Fordina, LLC   SERC   United States   NCR01129   Edgecombe Geno, LLC   SERC   United States   NCR01129   Edgecombe				
NCR01083   Cleco Corporate Holdings LLC				
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NCR10054   Covanta Palm Beach Resource Recovery, LLC.   SERC   United States   NCR01211   Covanta, Fairfax, Inc.   SERC   United States   NCR09020   CPI USA North Carolina LLC (Roxboro)   SERC   United States   NCR09020   CPI USA North Carolina LLC (Southport)   SERC   United States   NCR01212   Craven County Wood Energy Limited Partnership   SERC   United States   NCR01169   Cube Hydro Carolinas, LLC   SERC   United States   NCR01169   Cube Hydro Carolinas, LLC   SERC   United States   NCR011867   Cypress Creek O&M, LLC   SERC   United States   NCR11481   Decatur Energy Center, LLC   SERC   United States   NCR11481   Decatur Energy Center, LLC   SERC   United States   NCR011915   DEPCOM Power   SERC   United States   NCR011915   DEPCOM Power   SERC   United States   NCR011915   DEPCOM Power   SERC   United States   NCR011915   DOBINION Energy Generation Marketing, Inc.   SERC   United States   NCR011878   Dominion Energy South Carolina, Inc.   SERC   United States   NCR011860   Dorchester Biomass, LLC   SERC   United States   NCR01193   Doswell Limited Partnership   SERC   United States   NCR01193   Doswell Limited Partnership   SERC   United States   NCR01193   Duke Energy Carolinas, LLC   SERC   United States   NCR01219   Duke Energy Florida, LLC   SERC   United States   NCR01219   Duke Energy Florida, LLC   SERC   United States   NCR01228   Duke Energy Proprises, LLC   SERC   United States   NCR01225   East Kentucky Power Cooperative   SERC   United States   NCR01225   East Kentucky Power Cooperative   SERC   United States   NCR01225   East Kentucky Power Cooperative   SERC   United States   NCR01226   East Mississippi Electric Power Association   SERC   United States   NCR01227   East Texas Electric Cooperative Inc.   SERC   United States   NCR01228   Edgecombe Genco, LLC   SERC   United States   NCR01228   Edgecombe Genco   LC   SERC   United States   NCR01228   Edgecombe Operating Services, LLC   SERC   United States   NCR01228   Edgecombe Genco   LC   SERC   United States   NCR01234   Energy United El		, , , , , , , , , , , , , , , , , , , ,		
NCR01211 COVANTA, Fairfax, Inc.  NCR09021 CPI USA North Carolina LLC (Roxboro)  SERC United States NCR09020 CPI USA North Carolina LLC (Roxboro)  SERC United States NCR01212 Craven County Wood Energy Limited Partnership  SERC United States NCR01212 Craven County Wood Energy Limited Partnership  SERC United States NCR01213 Cube Hydro Carolinas, LLC  SERC United States NCR01169 Cube Hydro Carolinas, LLC  SERC United States NCR01181 Decatur Energy Center, LLC  SERC United States NCR11481 Decatur Energy Center, LLC  SERC United States NCR11481 Decatur Energy Center, LLC  SERC United States NCR11915 DEPCOM Power  SERC United States NCR01466 Disite Electric Membership Corporation  SERC United States NCR01878 Dominion Energy Senteration Marketing, Inc.  SERC United States NCR01878 Dominion Energy South Carolina, Inc.  SERC United States NCR01880 Dorchester Biomass, LLC  SERC United States NCR01193 Doswell Limited Partnership  SERC United States NCR01219 Duke Energy Carolinas, LLC  SERC United States NCR01219 Duke Energy Carolinas, LLC  SERC United States NCR01229 Duke Energy Progress, LLC  SERC United States NCR01239 Duke Energy Progress, LLC  SERC United States NCR01230 Duke Energy Renewables Services, LLC  SERC United States NCR01226 East Mississippi Electric Power Association  SERC United States NCR01227 East Texas Electric Cooperative  SERC United States NCR01227 East Texas Electric Power Association  SERC United States NCR01228 Edgecombe Operating Services, LLC  SERC United States NCR01229 Edgecombe Operating Services, LLC  SERC United States NCR01234 Energy-United Electric Membership Corporation  SERC United States NCR01234 Energy-Indited Electric Membership Corporation  SERC United States NCR01234 Ener				
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NCR00416         Dixie Electric Membership Corporation         SERC         United States           NCR11878         Dominion Energy Generation Marketing, Inc.         SERC         United States           NCR00915         Dominion Energy South Carolina, Inc.         SERC         United States           NCR11860         Dorchester Biomass, LLC         SERC         United States           NCR11193         Doswell Limited Partnership         SERC         United States           NCR01219         Duke Energy Carolinas, LLC         SERC         United States           NCR00063         Duke Energy Florida, LLC         SERC         United States           NCR01298         Duke Energy Progress, LLC         SERC         United States           NCR01298         Duke Energy Progress, LLC         SERC         United States           NCR01229         East State Setucky Power Cooperative         SERC         United States           NCR01225         East Mississippi Electric Power Association         SERC         United States           NCR01226         East Mississippi Electric Power Association         SERC         United States           NCR01227         East Texas Electric Cooperative Inc.         SERC         United States           NCR01228         Edgecombe Operating Services, LLC         SERC	NCR11481	Decatur Energy Center, LLC		United States
NCR11878   Dominion Energy Generation Marketing, Inc.   SERC   United States	NCR11915	DEPCOM Power		United States
NCR00915         Dominion Energy South Carolina, Inc.         SERC         United States           NCR11860         Dorchester Biomass, LLC         SERC         United States           NCR11193         Doswell Limited Partnership         SERC         United States           NCR01219         Duke Energy Carolinas, LLC         SERC         United States           NCR00063         Duke Energy Florida, LLC         SERC         United States           NCR01298         Duke Energy Progress, LLC         SERC         United States           NCR01295         East Kentucky Power Cooperative         SERC         United States           NCR01225         East Kentucky Power Cooperative         SERC         United States           NCR01226         East Mississippi Electric Power Association         SERC         United States           NCR01227         East Texas Electric Cooperative Inc.         SERC         United States           NCR01228         Edgecombe Genco, LLC         SERC         United States           NCR01229         Edgecombe Operating Services, LLC         SERC         United States           NCR11597         Effingham County Power, LLC         SERC         United States           NCR11399         Electric Energy, Inc.         SERC         United States	NCR00416	Dixie Electric Membership Corporation	SERC	United States
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NCR01219         Duke Energy Carolinas, LLC         SERC         United States           NCR00063         Duke Energy Florida, LLC         SERC         United States           NCR01298         Duke Energy Progress, LLC         SERC         United States           NCR11608         Duke Energy Renewables Services, LLC         SERC         United States           NCR01225         East Kentucky Power Cooperative         SERC         United States           NCR01226         East Mississippi Electric Power Association         SERC         United States           NCR01227         East Texas Electric Cooperative Inc.         SERC         United States           NCR01228         Edgecombe Genco, LLC         SERC         United States           NCR01229         Edgecombe Genco, LLC         SERC         United States           NCR11562         EDP Renewables North America LLC         SERC         United States           NCR11597         Effingham County Power, LLC         SERC         United States           NCR11399         Electric Energy, Inc.         SERC         United States           NCR11355         Electric Energy Hort Carolina, Inc.         SERC         United States           NCR01234         EnergyUnited Electric Membership Corporation         SERC         United States	NCR11860	Dorchester Biomass, LLC	SERC	United States
NCR00063         Duke Energy Florida, LLC         SERC         United States           NCR01298         Duke Energy Progress, LLC         SERC         United States           NCR11608         Duke Energy Renewables Services, LLC         SERC         United States           NCR01225         East Kentucky Power Cooperative         SERC         United States           NCR01226         East Mississippi Electric Power Association         SERC         United States           NCR01227         East Texas Electric Cooperative Inc.         SERC         United States           NCR01228         Edgecombe Genco, LLC         SERC         United States           NCR01229         Edgecombe Operating Services, LLC         SERC         United States           NCR11662         EDP Renewables North America LLC         SERC         United States           NCR11979         Effingham County Power, LLC         SERC         United States           NCR11399         Electric Energy, Inc.         SERC         United States           NCR11355         Electricities of North Carolina, Inc.         SERC         United States           NCR01232         EnergyUnited Electric Membership Corporation         SERC         United States           NCR01234         Entergy - Fossil & Hydroelectric Generation         SERC         <	NCR11193	Doswell Limited Partnership	SERC	United States
NCR01298         Duke Energy Progress, LLC         SERC         United States           NCR11608         Duke Energy Renewables Services, LLC         SERC         United States           NCR01225         East Kentucky Power Cooperative         SERC         United States           NCR01226         East Mississippi Electric Power Association         SERC         United States           NCR01227         East Texas Electric Cooperative Inc.         SERC         United States           NCR01228         Edgecombe Genco, LLC         SERC         United States           NCR01229         Edgecombe Operating Services, LLC         SERC         United States           NCR01229         Edgecombe Operating Services, LLC         SERC         United States           NCR11662         EDP Renewables North America LLC         SERC         United States           NCR11597         Effingham County Power, LLC         SERC         United States           NCR11399         Electric Energy, Inc.         SERC         United States           NCR11395         Electric Energy, Inc.         SERC         United States           NCR01232         EnergyUnited Electric Membership Corporation         SERC         United States           NCR01234         Entergy - Fossil & Hydroelectric Generation         SERC         Unit	NCR01219	Duke Energy Carolinas, LLC	SERC	United States
NCR11608         Duke Energy Renewables Services, LLC         SERC         United States           NCR01225         East Kentucky Power Cooperative         SERC         United States           NCR01226         East Mississippi Electric Power Association         SERC         United States           NCR01227         East Texas Electric Cooperative Inc.         SERC         United States           NCR01228         Edgecombe Genco, LLC         SERC         United States           NCR01229         Edgecombe Operating Services, LLC         SERC         United States           NCR01229         Edgecombe Operating Services, LLC         SERC         United States           NCR11290         Effigham County Power, LLC         SERC         United States           NCR11397         Effingham County Power, LLC         SERC         United States           NCR11399         Electric Energy, Inc.         SERC         United States           NCR11355         Electric Energy, Inc.         SERC         United States           NCR01232         EnergyUnited Electric Membership Corporation         SERC         United States           NCR01234         Entergy - Fossi & Hydroelectric Generation         SERC         United States           NCR11166         Entergy - Fossi & Hydroelectric Generation         SERC	NCR00063	Duke Energy Florida, LLC	SERC	United States
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NCR01227 East Texas Electric Cooperative Inc.  NCR01228 Edgecombe Genco, LLC  SERC United States  NCR01229 Edgecombe Operating Services, LLC  SERC United States  NCR11662 EDP Renewables North America LLC  SERC United States  NCR11597 Effingham County Power, LLC  SERC United States  NCR11399 Electric Energy, Inc.  SERC United States  NCR11355 Electricities of North Carolina, Inc.  SERC United States  NCR01232 EnergyUnited Electric Membership Corporation  SERC United States  NCR01234 Entergy  SERC United States  NCR11667 Entergy - Fossil & Hydroelectric Generation  SERC United States  NCR11666 ETEC – Hardin County Peaking Facility  SERC United States  NCR11657 ETEC – San Jacinto County Peaking Facility  NCR11657 ETEC – San Jacinto County Peaking Facility  SERC United States  NCR11658 EthosEnergy – Hardin County Peaking Facility  SERC United States  NCR11658 EthosEnergy – Hardin County Peaking Facility  SERC United States  NCR11658 EthosEnergy – Hardin County Peaking Facility  SERC United States  NCR11658 EthosEnergy – San Jacinto County Peaking Facility  SERC United States  NCR11658 EthosEnergy – San Jacinto County Peaking Facility  SERC United States  NCR11848 EthosEnergy – Woodville Renewable Power Project  SERC United States  NCR00128 ExxonMobil Corp – Baton Rouge  SERC United States  NCR01239 ExxonMobil Oil Corporation – Beaumont Refinery  SERC United States  NCR01240 Fayetteville Public Works Commission	NCR01225	East Kentucky Power Cooperative	SERC	United States
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NCR01229 Edgecombe Operating Services, LLC  NCR11662 EDP Renewables North America LLC  SERC United States  NCR11597 Effingham County Power, LLC  NCR11399 Electric Energy, Inc.  SERC United States  NCR11355 ElectriCities of North Carolina, Inc.  NCR01232 EnergyUnited Electric Membership Corporation  SERC United States  NCR01234 Entergy  NCR01234 Entergy SERC United States  NCR11167 Entergy - Fossil & Hydroelectric Generation  NCR11166 Entergy - Nuclear  NCR11166 ETEC – Hardin County Peaking Facility  NCR11656 ETEC – San Jacinto County Peaking Facility  NCR11657 ETEC – San Jacinto County Peaking Facility  NCR11658 EthosEnergy – Hardin County Peaking Facility  NCR11658 EthosEnergy – Hardin County Peaking Facility  NCR11655 EthosEnergy – San Jacinto County Peaking Facility  NCR11656 EthosEnergy – San Jacinto County Peaking Facility  NCR11658 EthosEnergy – Woodville Renewable Power Project  NCR11655 EthosEnergy – Woodville Renewable Power Project  NCR11656 EthosEnergy – Woodville Renewable Power Project  NCR11656 EthosEnergy – Woodville Renewable Power Project  NCR11657 ETEC – Woodville Renewable Power Project  NCR11658 EthosEnergy – Woodville Renewable Power Project  NCR11656 EthosEnergy – Woodville Renewable Power Project  NCR11656 EthosEnergy – Woodville Renewable Power Project  NCR11848 EthosEnergy – Woodville Renewable Power Project  NCR00778 Exelon Generation Company, LLC - Exelon Nuclear  NCR00128 ExxonMobil Corp - Baton Rouge  NCR01239 ExxonMobil Corporation - Beaumont Refinery  NCR01240 Fayetteville Public Works Commission  SERC United States	NCR01227	East Texas Electric Cooperative Inc.	SERC	United States
NCR11662 EDP Renewables North America LLC SERC United States NCR11597 Elffingham County Power, LLC SERC United States NCR11399 Electric Energy, Inc. SERC United States NCR11355 ElectriCities of North Carolina, Inc. SERC United States NCR01232 EnergyUnited Electric Membership Corporation SERC United States NCR01234 Entergy SERC United States NCR01234 Entergy SERC United States NCR11167 Entergy Fossil & Hydroelectric Generation SERC United States NCR11166 Entergy - Nuclear SERC United States NCR11166 Entergy - Nuclear SERC United States NCR111656 ETEC – Hardin County Peaking Facility SERC United States NCR11657 ETEC – San Jacinto County Peaking Facility SERC United States NCR11847 ETEC – Woodville Renewable Power Project SERC United States NCR11658 EthosEnergy – Hardin County Peaking Facility SERC United States NCR11655 EthosEnergy – San Jacinto County Peaking Facility SERC United States NCR11848 EthosEnergy – Woodville Renewable Power Project SERC United States NCR00128 Exelon Generation Company, LLC - Exelon Nuclear SERC United States NCR00128 ExxonMobil Corp - Baton Rouge SERC United States NCR01239 ExxonMobil Oil Corporation - Beaumont Refinery SERC United States NCR01240 Fayetteville Public Works Commission SERC United States	NCR01228	Edgecombe Genco, LLC	SERC	United States
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NCR00778       Exelon Generation Company, LLC - Exelon Nuclear       SERC       United States         NCR00128       ExxonMobil Corp - Baton Rouge       SERC       United States         NCR01239       ExxonMobil Oil Corporation - Beaumont Refinery       SERC       United States         NCR01240       Fayetteville Public Works Commission       SERC       United States	NCR11655	EthosEnergy – San Jacinto County Peaking Facility	SERC	United States
NCR00128     ExxonMobil Corp - Baton Rouge     SERC     United States       NCR01239     ExxonMobil Oil Corporation - Beaumont Refinery     SERC     United States       NCR01240     Fayetteville Public Works Commission     SERC     United States	NCR11848	EthosEnergy – Woodville Renewable Power Project	SERC	United States
NCR00128     ExxonMobil Corp - Baton Rouge     SERC     United States       NCR01239     ExxonMobil Oil Corporation - Beaumont Refinery     SERC     United States       NCR01240     Fayetteville Public Works Commission     SERC     United States	NCR00778	Exelon Generation Company, LLC - Exelon Nuclear	SERC	United States
NCR01239     ExxonMobil Oil Corporation - Beaumont Refinery     SERC     United States       NCR01240     Fayetteville Public Works Commission     SERC     United States			SERC	United States
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NCR00022 Florida Municipal Power Agency	SERC	United States
NCR00023 Florida Municipal Power Pool	SERC	United States
NCR00024 Florida Power & Light Co.	SERC	United States
NCR01241 Florida Power & Light Co.  Florida Power & Light Company	SERC	United States
NCR00025 Florida Public Utilities Company	SERC	United States
NCR00026 Florida Reliability Coordinating Council, Inc.	SERC	United States
	SERC	United States
5 1		United States
NCR00027   Fort Pierce Utilities Authority   NCR01244   French Broad Electric Membership Corporation	SERC SERC	United States
		United States
NCR00032 Gainesville Regional Utilities	SERC	
NCR00069 General Electric International - Shady Hills	SERC	United States
NCR11761 General Electric International – Birchwood	SERC	United States
NCR11875 GenOn Florida	SERC	United States
NCR11204 GenOn Wholesale Generation	SERC	United States
NCR01247 Georgia Power Company	SERC	United States
NCR01248 Georgia System Operations Corporation	SERC	United States
NCR01249 Georgia Transmission Corporation	SERC	United States
NCR11434 Gibson City Energy Center, LLC	SERC	United States
NCR11435 Grand Tower Energy Center, LLC	SERC	United States
NCR11623 Green Power Solutions of Georgia, LLC	SERC	United States
NCR11393 Gridforce Energy Management, LLC	SERC	United States
NCR01252 Gulf Power Company	SERC	United States
NCR00035 Hardee Power Partners Limited	SERC	United States
NCR10293 Haywood Electric Membership Corporation	SERC	United States
NCR01254 Henderson Municipal Power & Light	SERC	United States
NCR01255 Holland Energy, LLC	SERC	United States
NCR00037 Homestead, City of	SERC	United States
NCR11537 Hoopeston Wind, LLC	SERC	United States
NCR00794 Hoosier Energy REC, Inc.	SERC	United States
NCR00795 Illinois Municipal Electric Agency	SERC	United States
NCR00039 Indiantown Cogeneration LP	SERC	United States
NCR11768 Innovative Solar 37, LLC	SERC	United States
NCR11782 Innovative Solar 42, LLC	SERC	United States
NCR11624 Innovative Solar 46, LLC	SERC	United States
NCR00040 JEA	SERC	United States
NCR00041 Key West, City of (Keys Energy)	SERC	United States
NCR00042 Kissimmee Utility Authority	SERC	United States
NCR01114 Lafayette Utilities System	SERC	United States
NCR00043 Lake Worth, City of	SERC	United States
NCR00044 Lakeland Electric	SERC	United States
NCR00045 Lee County Electric Cooperative, Inc	SERC	United States
NCR01223 LG&E and KU Services Company as agent for Louisville Gas and Electric Company	SERC	United States
and Kentucky Utilities Company	JENC	Omice States
NCR01116 Louisiana Energy & Power Authority	SERC	United States
NCR01265 Louisiana Generating, LLC	SERC	United States
NCR10133 Luminant Energy Company LLC	SERC	United States
NCR11066 Memphis Light, Gas and Water Division	SERC	United States
NCR00167 Mid Georgia Cogen L.P.	SERC	United States
NCR00826 Midcontinent Independent System Operator, Inc.	SERC	United States
NCR03044 MISO-MBHydro Contingency Reserve Sharing Group	SERC	United States
NCR06050 Mississippi Delta Energy Agency	SERC	United States
NCR01273 Mississippi Power Company	SERC	United States

NRC11952	NCD11402	Mobile Freeward L.C.	CEDC	United States
NCR11956	NCR11482	Mobile Energy L L C	SERC	United States
NCR01278	H	· · · · · · · · · · · · · · · · · · ·		
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NCR11932   NAES Corporation — Wansley #9   SERC   United States   NCR11077   Nashville Electric Service   SERC   United States   NCR11575   NC Renewable Power Lumberton LLC   SERC   United States   NCR00017   Nelson Industrial Steam Company   SERC   United States   NCR00017   Nelson Industrial Steam Company   SERC   United States   NCR011700   New Creek Wind LLC   SERC   United States   NCR000052   New Smyran Beach, Utilities Commission of   SERC   United States   NCR000052   New Smyran Beach, Utilities Commission of   SERC   United States   NCR000052   New Smyran Beach, Utilities Commission of   SERC   United States   NCR000052   New Smyran Beach, Utilities Commission of   SERC   United States   NCR01279   North Carolina Electric Membership Corporation   SERC   United States   NCR01279   North Carolina Electric Cooperative Inc.   SERC   United States   NCR01279   North Carolina Electric Cooperative   SERC   United States   NCR01281   Northern Virginia Electric Cooperative   SERC   United States   NCR01281   NRG Energy Services LLC - Plum Point   SERC   United States   NCR01287   Original Corporation   SERC   United States   NCR01287   Original Corporation   SERC   United States   NCR01287   Original Corporation   SERC   United States   NCR001287   Original Corporation   SERC   United States   NCR000559   Old Dominion Electric Cooperative   SERC   United States   NCR000559   Old Dominion Electric Cooperative   SERC   United States   NCR00057   Oriando Utilities Commission   SERC   United States   NCR00057   Oriando Utilities Commission   SERC   United States   NCR00057   Oriando Utilities Commission   SERC   United States   NCR00057   Original Utilities   SERC   United States   NCR00058   Performance Materials NA, Inc.   SERC   United Stat		·		
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NCR01279   North Carolina Electric Membership Corporation   SERC   United States   NCR11016   Northeast Louisiana Power Cooperative Inc.   SERC   United States   NCR10281   Northern Virginia Electric Cooperative   SERC   United States   NCR11914   NRG Cottonwood Tenant LLC   SERC   United States   NCR11914   NRG Energy Services LLC - Plum Point   SERC   United States   NCR01184   NRG Energy Services LLC - Plum Point   SERC   United States   NCR01287   Ocidenda Chemical Corporation   SERC   United States   NCR001287   Oglethorpe Power Corporation   SERC   United States   NCR00289   Old Dominion Electric Cooperative   SERC   United States   NCR00899   Old Dominion Electric Cooperative   SERC   United States   NCR01287   Orlando Utilities Commission   SERC   United States   NCR01290   Owensboro, KY Municipal Utilities   SERC   United States   NCR02041   Paducah Power System   SERC   United States   NCR02041   Paducah Power System   SERC   United States   NCR01290   Owensboro, KY Municipal Utilities   SERC   United States   NCR01290   Panda Stonewall LLC   SERC   United States   NCR01290   Performance Materials NA, Inc.   SERC   United States   NCR01292   Piedmont Electric Membership Corporation   SERC   United States   NCR0137   Piedmont Green Power, LLC   SERC   United States   NCR0137   Piedmont Green Power, LLC   SERC   United States   NCR0137   Piedmont Green Power, LLC   SERC   United States   NCR0137   Piedmont Electric Plant Board   SERC   United States   NCR0139   Piedmont Electric Plant Board   SERC   United States   NCR0139   Piedmont Electric Plant Board	-	· · · · · · · · · · · · · · · · · · ·		
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NCR01290         Owensboro, KY Municipal Utilities         SERC         United States           NCR03041         Paducah Power System         SERC         United States           NCR11720         Panda Stonewall LLC         SERC         United States           NCR11808         Pattern Operators LP         SERC         United States           NCR09008         Performance Materials NA, Inc.         SERC         United States           NCR11805         PIC Group, Inc. – South Boston Energy, LLC         SERC         United States           NCR01292         Piedmont Electric Membership Corporation         SERC         United States           NCR11877         Piedmont Green Power, LLC         SERC         United States           NCR11183         Pioneer Trail Wind Farm, LLC         SERC         United States           NCR00879         PJM Interconnection, LLC         SERC         United States           NCR10385         Plum Point Energy Associates (PPEA), LLC - GO         SERC         United States           NCR10137         Poplar Bluff         SERC         United States           NCR10203         PowerSouth Energy Cooperative         SERC         United States           NCR11020         Prairie Power, Inc.         SERC         United States           NCR11020	NCR11895	Oleander Holdings, LLC	SERC	United States
NCR03041       Paducah Power System       SERC       United States         NCR11720       Panda Stonewall LLC       SERC       United States         NCR11808       Pattern Operators LP       SERC       United States         NCR09008       Performance Materials NA, Inc.       SERC       United States         NCR11805       PIC Group, Inc. – South Boston Energy, LLC       SERC       United States         NCR01292       Piedmont Electric Membership Corporation       SERC       United States         NCR11477       Piedmont Green Power, LLC       SERC       United States         NCR118183       Pioneer Trail Wind Farm, LLC       SERC       United States         NCR00879       PJM Interconnection, LLC       SERC       United States         NCR10385       Plum Point Energy Associates (PPEA), LLC - GO       SERC       United States         NCR010137       Poplar Bluff       SERC       United States         NCR0203       PowerSouth Energy Cooperative       SERC       United States         NCR1175       Prairie State Generating Company       SERC       United States         NCR11002       Princeton Electric Plant Board       SERC       United States         NCR01139       Public Service Commission Of Yazoo City       SERC       United S	NCR00057	Orlando Utilities Commission	SERC	United States
NCR11720 Panda Stonewall LLC SERC United States NCR11808 Pattern Operators LP SERC United States NCR09008 Performance Materials NA, Inc. SERC United States NCR09008 PIC Group, Inc. – South Boston Energy, LLC SERC United States NCR11805 PIC Group, Inc. – South Boston Energy, LLC SERC United States NCR01292 Piedmont Electric Membership Corporation SERC United States NCR11477 Piedmont Green Power, LLC SERC United States NCR11477 Piedmont Green Power, LLC SERC United States NCR11183 Pioneer Trail Wind Farm, LLC SERC United States NCR00879 PJM Interconnection, LLC SERC United States NCR00879 PJM Point Energy Associates (PPEA), LLC - GO SERC United States NCR1137 Poplar Bluff SERC United States NCR10203 PowerSouth Energy Cooperative SERC United States NCR09035 Prairie Power, Inc. SERC United States NCR09035 Prairie Power, Inc. SERC United States NCR11175 Prairie State Generating Company SERC United States NCR11002 Princeton Electric Plant Board SERC United States NCR01139 Public Service Commission Of Yazoo City SERC United States NCR01139 Public Service Commission Of Yazoo City SERC United States NCR01139 Reedy Creek Improvement District SERC United States NCR01305 Sabine River Authority of TX/LA SERC United States NCR01483 Santa Rosa Energy Center, LLC SERC United States NCR01148 Santa Rosa Energy Center, LLC SERC United States NCR01142 Sikeston Board Of Municipal Utilities SERC United States NCR1165 Sextlers Trail Wind Farm LLC SERC United States NCR11305 Smoky Mountain Transmission LLC SERC United States NCR11367 South Boston Energy LLC SERC United States NCR11367 South Boston Energy LLC SERC United States NCR11367 South Boston Energy LLC	NCR01290	Owensboro, KY Municipal Utilities	SERC	United States
NCR11808       Pattern Operators LP       SERC       United States         NCR09008       Performance Materials NA, Inc.       SERC       United States         NCR11805       PIC Group, Inc. – South Boston Energy, LLC       SERC       United States         NCR01292       Piedmont Electric Membership Corporation       SERC       United States         NCR11477       Piedmont Green Power, LLC       SERC       United States         NCR1183       Pioneer Trail Wind Farm, LLC       SERC       United States         NCR00879       PJM Interconnection, LLC       SERC       United States         NCR00385       Plum Point Energy Associates (PPEA), LLC - GO       SERC       United States         NCR01137       Poplar Bluff       SERC       United States         NCR10203       PowerSouth Energy Cooperative       SERC       United States         NCR011203       PowerSouth Energy Coperative       SERC       United States         NCR110203       Prairie State Generating Company       SERC       United States         NCR11175       Prairie State Generating Company       SERC       United States         NCR11032       Public Service Commission Of Yazoo City       SERC       United States         NCR01139       Public Service Commission Of Yazoo City       <	NCR03041	Paducah Power System	SERC	United States
NCR09008       Performance Materials NA, Inc.       SERC       United States         NCR11805       PIC Group, Inc. – South Boston Energy, LLC       SERC       United States         NCR01292       Piedmont Electric Membership Corporation       SERC       United States         NCR11477       Piedmont Green Power, LLC       SERC       United States         NCR1183       Pioneer Trail Wind Farm, LLC       SERC       United States         NCR00879       PJM Interconnection, LLC       SERC       United States         NCR01385       Plum Point Energy Associates (PPEA), LLC - GO       SERC       United States         NCR01137       Poplar Bluff       SERC       United States         NCR01023       PowerSouth Energy Cooperative       SERC       United States         NCR09035       Prairie Power, Inc.       SERC       United States         NCR11175       Prairie State Generating Company       SERC       United States         NCR11020       Princeton Electric Plant Board       SERC       United States         NCR01139       Public Service Commission Of Yazoo City       SERC       United States         NCR010305       Reedy Creek Improvement District       SERC       United States         NCR01305       Sabine River Authority of TX/LA       SERC<	NCR11720	Panda Stonewall LLC	SERC	United States
NCR11805       PIC Group, Inc. – South Boston Energy, LLC       SERC       United States         NCR01292       Piedmont Electric Membership Corporation       SERC       United States         NCR11477       Piedmont Green Power, LLC       SERC       United States         NCR11183       Pioneer Trail Wind Farm, LLC       SERC       United States         NCR00879       PJM Interconnection, LLC       SERC       United States         NCR10385       Plum Point Energy Associates (PPEA), LLC - GO       SERC       United States         NCR10203       Poylar Bluff       SERC       United States         NCR10203       PowerSouth Energy Cooperative       SERC       United States         NCR09035       Prairie Power, Inc.       SERC       United States         NCR11175       Prairie State Generating Company       SERC       United States         NCR11002       Princeton Electric Plant Board       SERC       United States         NCR01139       Public Service Commission Of Yazoo City       SERC       United States         NCR00065       Reedy Creek Improvement District       SERC       United States         NCR01305       Sabine River Authority of TX/LA       SERC       United States         NCR01483       Santa Rosa Energy Center, LLC       SERC </td <td>NCR11808</td> <td>Pattern Operators LP</td> <td>SERC</td> <td>United States</td>	NCR11808	Pattern Operators LP	SERC	United States
NCR01292Piedmont Electric Membership CorporationSERCUnited StatesNCR11477Piedmont Green Power, LLCSERCUnited StatesNCR11183Pioneer Trail Wind Farm, LLCSERCUnited StatesNCR00879PJM Interconnection, LLCSERCUnited StatesNCR10385Plum Point Energy Associates (PPEA), LLC - GOSERCUnited StatesNCR10377Poplar BluffSERCUnited StatesNCR10203PowerSouth Energy CooperativeSERCUnited StatesNCR10203PowerSouth Energy CooperativeSERCUnited StatesNCR00305Prairie Power, Inc.SERCUnited StatesNCR11175Prairie State Generating CompanySERCUnited StatesNCR11002Princeton Electric Plant BoardSERCUnited StatesNCR01139Public Service Commission Of Yazoo CitySERCUnited StatesNCR01139Public Service Commission Of Yazoo CitySERCUnited StatesNCR00065Reedy Creek Improvement DistrictSERCUnited StatesNCR01305Sabine River Authority of TX/LASERCUnited StatesNCR11483Santa Rosa Energy Center, LLCSERCUnited StatesNCR0068Seminole Electric CooperativeSERCUnited StatesNCR1135Settlers Trail Wind Farm LLCSERCUnited StatesNCR11629Shelby County Energy Center, LLCSERCUnited StatesNCR0142Sikeston Board Of Municipal UtilitiesSERCUnited StatesNCR11305Smoky M	NCR09008	Performance Materials NA, Inc.	SERC	United States
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NCR11629Shelby County Energy Center, LLCSERCUnited StatesNCR01142Sikeston Board Of Municipal UtilitiesSERCUnited StatesNCR11305Smoky Mountain Transmission LLCSERCUnited StatesNCR11685SOLV, Inc.SERCUnited StatesNCR11367South Boston Energy LLCSERCUnited StatesNCR01312South Carolina Public Service AuthoritySERCUnited States	NCR00068	Seminole Electric Cooperative	SERC	United States
NCR01142       Sikeston Board Of Municipal Utilities       SERC       United States         NCR11305       Smoky Mountain Transmission LLC       SERC       United States         NCR11685       SOLV, Inc.       SERC       United States         NCR11367       South Boston Energy LLC       SERC       United States         NCR01312       South Carolina Public Service Authority       SERC       United States	NCR11135	Settlers Trail Wind Farm LLC	SERC	United States
NCR11305     Smoky Mountain Transmission LLC     SERC     United States       NCR11685     SOLV, Inc.     SERC     United States       NCR11367     South Boston Energy LLC     SERC     United States       NCR01312     South Carolina Public Service Authority     SERC     United States	NCR11629	Shelby County Energy Center, LLC	SERC	United States
NCR11685     SOLV, Inc.     SERC     United States       NCR11367     South Boston Energy LLC     SERC     United States       NCR01312     South Carolina Public Service Authority     SERC     United States	NCR01142	Sikeston Board Of Municipal Utilities	SERC	United States
NCR11367         South Boston Energy LLC         SERC         United States           NCR01312         South Carolina Public Service Authority         SERC         United States	NCR11305	Smoky Mountain Transmission LLC	SERC	United States
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	NCR11816	Southampton Solar, LLC	SERC	United States

NCR00070   Southeestern Power Administration   SFRC   United States   NCR01312   Southern Company Services, Inc Gen   SFRC   United States   NCR01321   Southern Illinois Power Cooperative   SFRC   United States   NCR01322   Southern Power Company   SFRC   United States   NCR01323   Southwest Inclusional Electric Membership Corporation   SFRC   United States   NCR01324   Southwest Electric Cooperative, Inc.   SFRC   United States   NCR01325   Southwest Electric Cooperative, Inc.   SFRC   United States   NCR01325   SOVEGA Power LLC   SFRC   United States   NCR01325   SOVEGA Power LLC   SFRC   United States   NCR01329   Spruance Genco, LLC   SFRC   United States   NCR01330   Spruance Operating Services, LLC   SFRC   United States   NCR01330   Tallahassee, City of   SFRC   United States   NCR00073   Tallahassee, City of   SFRC   United States   NCR00074   Tamps Electric Company   SFRC   United States   NCR00075   Tensaka Alabama IP Partners, L.P   SFRC   United States   NCR001331   TEC Contingency Reserve Sharing Group   SFRC   United States   NCR001332   Tensaka Alabama Partners, L.P   SFRC   United States   NCR01335   Tensaka Alabama Partners, L.P   SFRC   United States   NCR01337   Tensaka Gengia Partners, L.P   SFRC   United States   NCR01339   Tensaka Partners, L.P   SFRC   United States   NCR01330   Tensaka Partne	NCDCCC70	Courth costory Douglas Advasta interesting	CEDC	United Ctatas
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NCR01322 Southwest Louislana Electric Membership Corporation SERC United States NCR01324 Southwestern Electric Cooperative, Inc.  NCR01325 SOUVEGA Power LLC SERC United States NCR01325 SOUVEGA Power LLC SERC United States NCR01325 SOUVEGA Power LLC SERC United States NCR01329 Spruance Genco, LLC SERC United States NCR01330 Spruance Operating Services, LLC SERC United States NCR01330 Spruance Operating Services, LLC SERC United States NCR01330 Spruance Operating Services, LLC SERC United States NCR01334 States Operating Services, LLC SERC United States NCR01334 Summit Farms Solar, LLC SERC United States NCR01334 Summit Farms Solar, LLC SERC United States NCR00073 Tallahasses, City of SERC United States NCR00073 Tallahasses, City of SERC United States NCR00073 Tallahasses, City of SERC United States NCR00343 TEE Contingency Reserve Sharing Group SERC United States NCR003344 Tampa Electric Company SERC United States NCR003345 Tenaska Alabama IP Partners, L.P. SERC United States NCR01335 Tanaska Alabama IP Partners, L.P. SERC United States NCR01335 Tanaska Alabama Partners, L.P. SERC United States NCR01337 Tenaska Grontler Partners, L.P. SERC United States NCR01351 Ternessee Valley Authority SERC United States NCR01354 The Dow Chemical Company SERC United States NCR01356 The Dow Chemical Company SERC United States NCR01356 The Dow Chemical Company SERC United States NCR01356 UNITED SERC United States NCR01356 UN				
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INCR01325   SOWERA POWER LICE   SERC   United States   NCR01329   Spruance Genco, LLC   SERC   United States   NCR01330   Spruance Operating Services, LLC   SERC   United States   NCR01330   Spruance Operating Services, LLC   SERC   United States   NCR01330   Spruance Operating Services, LLC   SERC   United States   NCR01334   Summit Farms Solar, LLC   SERC   United States   NCR01335   Staton Clean Energy, LLC   SERC   United States   NCR01336   Staton Clean Energy, LLC   SERC   United States   NCR00073   Tallahassee, City of   SERC   United States   NCR000074   Tampa Electric Company   SERC   United States   NCR000074   Tampa Electric Company   SERC   United States   NCR000034   TEC Contingency Reserve Sharing Group   SERC   United States   NCR001335   Tenaska Alabama Partners, L.P.   SERC   United States   NCR01335   Tenaska Frontier Partners, Ltd   SERC   United States   NCR001337   Tenaska Ceorgia Partners, L.P.   SERC   United States   NCR001339   Tenaska Ceorgia Partners, L.P.   SERC   United States   NCR01339   Tenaska Virginia Partners, L.P.   SERC   United States   NCR01151   Tennessee Valley Authority   SERC   United States   NCR01152   Terrebonne Parish Consolidated Government   SERC   United States   NCR01152   Terrebonne Parish Consolidated Government   SERC   United States   NCR01154   The Dow Chemical Company   SERC   United States   NCR01155   Terrebonne Parish Consolidated Government   SERC   United States   NCR01348   Town of Sharpsburg   SERC   United States   NCR01349   Town of Sharpsburg   SERC   United States   NCR01350   Town of Waynesville   SERC   United States   NCR01351   Town of Waynesville   SERC   United States   NCR01352   United States   United States   NCR01353   USACE - Charleston District   SERC   United States   NCR01364   USACE - Sharbville District   SERC   United States   NCR01365   USACE - Mashville District   SERC   United States   NCR01364   USACE - Nashville District   SERC   United States   NCR01364   USACE - Nashville District   SERC   United States   NCR01364   Us				
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NCR01339   Tenaska Virginia Partners, L.P.   SERC   United States		, ,		
NCR01151         Tennessee Valley Authority         SERC         United States           NCR01152         Terrebonne Parish Consolidated Government         SERC         United States           NCR09037         The Dow Chemical Company         SERC         United States           NCR11014         Titton Energy, LLC         SERC         United States           NCR01348         Town of Sharpsburg         SERC         United States           NCR01349         Town of Stantonsburg         SERC         United States           NCR01350         Town of Waynesville         SERC         United States           NCR01356         USACE - Charleston District         SERC         United States           NCR01359         USACE - Fort Worth District         SERC         United States           NCR01360         USACE - Mobile District         SERC         United States           NCR01361         USACE - Savannah District         SERC         United States           NCR01364         USACE - Wilmington District         SERC         United States           NCR01365         VACAR South         SERC         United States           NCR00078         Vandolah Power Company, LLC         SERC         United States           NCR00078         Virginia Electric and Power Company - Po				
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NCR09037 The Dow Chemical Company SERC United States NCR11014 Tilton Energy, LLC SERC United States NCR01348 Town of Sharpsburg SERC United States NCR01349 Town of Sharpsburg SERC United States NCR01350 Town of Waynesville SERC United States NCR01350 Town of Waynesville SERC United States NCR01356 USACE - Charleston District SERC United States NCR01356 USACE - Fort Worth District SERC United States NCR01359 USACE - Mobile District SERC United States NCR01359 USACE - Mobile District SERC United States NCR01360 USACE - Nashville District SERC United States NCR01360 USACE - Nashville District SERC United States NCR01361 USACE - Savannah District SERC United States NCR01364 USACE - Wilmington District SERC United States NCR01365 VACAR South SERC United States NCR001365 VACAR South SERC United States NCR001214 Virginia Electric and Power Company, LLC SERC United States NCR00214 Virginia Electric and Power Company - Nuclear (GO,GOP) SERC United States NCR09006 Virginia Electric and Power Company - Power Generation SERC United States NCR00200 Virginia Electric and Power Association, Inc. SERC United States NCR00200 Wabash Valley Power Association, Inc. SERC United States NCR01314 Walton Bainbridge Power Facility SERC United States NCR01313 Walton Discover Power Facility SERC United States NCR11598 Washington County Power, LLC SERC United States NCR11599 Washington County Power, LLC SERC United States NCR11591 Washington County Power, LLC SERC United States NCR11591 Washington County Power, LLC SERC United States NCR11591 Washington County Power Facility SERC United States NCR11625 WestRock Southeast, LLC SERC United States NCR11625 Washington County Power Co.  American Electric Power Service Corp as agent for AEP Texas Inc. and Public Service United States United States Company of Oklahoma				
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NCR01348 Town of Sharpsburg SERC United States NCR01349 Town of Stantonsburg SERC United States NCR01350 Town of Waynesville SERC United States NCR01350 USACE - Charleston District SERC United States NCR01356 USACE - Charleston District SERC United States NCR01359 USACE - Mobile District SERC United States NCR01359 USACE - Mobile District SERC United States NCR01360 USACE - Nashville District SERC United States NCR01361 USACE - Savannah District SERC United States NCR01364 USACE - Wilmington District SERC United States NCR01365 VACAR South SERC United States NCR01365 VACAR South SERC United States NCR00078 Vandolah Power Company, LLC SERC United States NCR01214 Virginia Electric and Power Company (DP, TO) SERC United States NCR09006 Virginia Electric and Power Company - Nuclear (GO,GOP) SERC United States NCR09028 Virginia Electric and Power Company - Puchear (GO,GOP) SERC United States NCR00028 Virginia Electric and Power Company - Puchear (GO,GOP) SERC United States NCR00020 Vistra Energy Corp. SERC United States NCR009040 Wabash Valley Power Association, Inc. SERC United States NCR01314 Walton Bainbridge Power Facility SERC United States NCR01314 Walton Bainbridge Power Facility SERC United States NCR01313 Walton County Power, LLC SERC United States NCR01313 Walton Discover Power Facility SERC United States NCR01313 Walton Discover Power, LLC SERC United States NCR01315 WestRock Southeast, LLC SERC United States NCR0159 Washington County Power, LLC SERC United States NCR0165 WestRock Southeast, LLC SERC United States NCR0165 WestRock Southeast, LLC SERC United States NCR01661 Air Liquide Large Industries U.S., LP Texas RE United States NCR00061 Air Liquide Large Industries U.S., LP Texas RE United States NCR01785 Algonquin Power Co.  American Electric Power Service Corp as agent for AEP Texas Inc. and Public Service Company of Oklahom		, ,		
NCR01349   Town of Stantonsburg   SERC   United States				
NCR01350   Town of Waynesville   SERC   United States				
NCR01356 USACE - Charleston District SERC United States NCR11109 USACE - Fort Worth District SERC United States NCR01359 USACE - Mobile District SERC United States NCR01360 USACE - Mobile District SERC United States NCR01361 USACE - Savannah District SERC United States NCR01364 USACE - Savannah District SERC United States NCR01365 VACAR South SERC United States NCR01365 VACAR South SERC United States NCR00078 Vandolah Power Company, LLC SERC United States NCR01214 Virginia Electric and Power Company (DP, TO) SERC United States NCR09006 Virginia Electric and Power Company - Nuclear (GO,GOP) SERC United States NCR09028 Virginia Electric and Power Company - Power Generation SERC United States NCR00200 Vistra Energy Corp. SERC United States NCR00940 Wabash Valley Power Association, Inc. SERC United States NCR01314 Walton Bainbridge Power Facility SERC United States NCR01314 Walton Discover Power, LLC SERC United States NCR01313 Walton Discover Power, LLC SERC United States NCR01313 Walton Discover Power, LLC SERC United States NCR01313 Walton Discover Power, LLC SERC United States NCR013159 Washington County Power, LLC SERC United States NCR01625 WestRock Southeast, LLC SERC United States NCR01625 WestRock Southeast, LLC SERC United States NCR00081 Winter Park, City of SERC United States NCR11641 Alamo 6, LLC Texas RE United States NCR11785 Algonquin Power Co. Texas RE United States NCR11785 Algonquin Power Co. Texas RE United States NCR00060 American Electric Power Service Corp as agent for AEP Texas Inc. and Public Service Company of Oklahoma	NCR01349			
NCR11109 USACE - Fort Worth District SERC United States NCR01359 USACE - Mobile District SERC United States NCR01360 USACE - Nashville District SERC United States NCR01361 USACE - Savannah District SERC United States NCR01364 USACE - Wilmington District SERC United States NCR01365 VACAR South SERC United States NCR01365 VACAR South SERC United States NCR00078 Vandolah Power Company, LLC SERC United States NCR001214 Virginia Electric and Power Company (DP, TO) SERC United States NCR09006 Virginia Electric and Power Company - Nuclear (GO,GOP) SERC United States NCR09028 Virginia Electric and Power Company - Power Generation SERC United States NCR00200 Vistra Energy Corp. SERC United States NCR00304 Wabash Valley Power Association, Inc. SERC United States NCR01314 Walton Bainbridge Power Facility SERC United States NCR013159 Walton County Power, LLC SERC United States NCR01313 Walton Discover Power Facility SERC United States NCR01313 Walton Discover Power, LLC SERC United States NCR013159 Washington County Power, LLC SERC United States NCR11599 Washington County Power, LLC SERC United States NCR0165 WestRock Southeast, LLC SERC United States NCR00081 Winter Park, City of SERC United States NCR10001 Air Liquide Large Industries U.S., LP Texas RE United States NCR11785 Algonquin Power Co.  American Electric Power Service Corp as agent for AEP Texas Inc. and Public Service Texas RE United States NCR04006		,		
NCR01359 USACE - Mobile District SERC United States NCR01360 USACE - Nashville District SERC United States NCR01361 USACE - Savannah District SERC United States NCR01364 USACE - Wilmington District SERC United States NCR01365 VACAR South SERC United States NCR00078 Vandolah Power Company, LLC SERC United States NCR001214 Virginia Electric and Power Company (DP, TO) SERC United States NCR09006 Virginia Electric and Power Company - Nuclear (GO,GOP) SERC United States NCR09028 Virginia Electric and Power Company - Power Generation SERC United States NCR00200 Vistra Energy Corp. SERC United States NCR00940 Wabash Valley Power Association, Inc. SERC United States NCR01314 Walton Bainbridge Power Facility SERC United States NCR013159 Walton County Power, LLC SERC United States NCR01313 Walton Discover Power Facility SERC United States NCR01313 Walton Discover Power, LLC SERC United States NCR11599 Washington County Power, LLC SERC United States NCR11625 WestRock Southeast, LLC SERC United States NCR00001 Air Liquide Large Industries U.S., LP Texas RE United States NCR11785 Algonquin Power Co.  American Electric Power Service Corp as agent for AEP Texas Inc. and Public Service Texas RE United States NCR04006	NCR01356	USACE - Charleston District	SERC	United States
NCR01360 USACE - Nashville District SERC United States NCR01361 USACE - Savannah District SERC United States NCR01364 USACE - Wilmington District SERC United States NCR01365 VACAR South SERC United States NCR00078 Vandolah Power Company, LLC SERC United States NCR01214 Virginia Electric and Power Company (DP, TO) SERC United States NCR09006 Virginia Electric and Power Company - Nuclear (GO,GOP) SERC United States NCR09028 Virginia Electric and Power Company - Power Generation SERC United States NCR00200 Vista Energy Corp. SERC United States NCR00940 Wabash Valley Power Association, Inc. SERC United States NCR01314 Walton Bainbridge Power Facility SERC United States NCR11598 Walton County Power, LLC SERC United States NCR01313 Walton Discover Power Facility SERC United States NCR01313 Walton Discover Power, LLC SERC United States NCR11599 Washington County Power, LLC SERC United States NCR11625 WestRock Southeast, LLC SERC United States NCR11625 WestRock Southeast, LLC SERC United States NCR10001 Air Liquide Large Industries U.S., LP Texas RE United States NCR11641 Alamo 6, LLC Texas RE United States NCR11785 Algonquin Power Co. Texas RE United States NCR11785 Algonquin Power Co.	NCR11109	USACE - Fort Worth District	SERC	United States
NCR01361 USACE - Savannah District SERC United States NCR01364 USACE - Wilmington District SERC United States NCR01365 VACAR South SERC United States NCR00078 Vandolah Power Company, LLC SERC United States NCR01214 Virginia Electric and Power Company (DP, TO) SERC United States NCR09006 Virginia Electric and Power Company - Nuclear (GO,GOP) SERC United States NCR09028 Virginia Electric and Power Company - Power Generation SERC United States NCR09020 Vistra Energy Corp. SERC United States NCR00200 Wabash Valley Power Association, Inc. SERC United States NCR01314 Walton Bainbridge Power Facility SERC United States NCR11598 Walton County Power, LLC SERC United States NCR01313 Walton Discover Power Facility SERC United States NCR01314 Washington County Power, LLC SERC United States NCR11599 Washington County Power, LLC SERC United States NCR11599 Washington County Power, LLC SERC United States NCR11625 WestRock Southeast, LLC SERC United States NCR00081 Winter Park, City of SERC United States NCR00081 Air Liquide Large Industries U.S., LP Texas RE United States NCR11641 Alamo 6, LLC Texas RE United States NCR11785 Algonquin Power Co. Texas RE United States NCR04006 American Electric Power Service Corp as agent for AEP Texas Inc. and Public Service Company of Oklahoma	NCR01359	USACE - Mobile District	SERC	United States
NCR01364 USACE - Wilmington District SERC United States NCR01365 VACAR South SERC United States NCR00078 Vandolah Power Company, LLC SERC United States NCR01214 Virginia Electric and Power Company (DP, TO) SERC United States NCR09006 Virginia Electric and Power Company - Nuclear (GO,GOP) SERC United States NCR09028 Virginia Electric and Power Company - Power Generation SERC United States NCR00200 Vistra Energy Corp. SERC United States NCR00300 Wabash Valley Power Association, Inc. SERC United States NCR01314 Walton Bainbridge Power Facility SERC United States NCR01314 Walton Discover Power, LLC SERC United States NCR01313 Walton Discover Power Facility SERC United States NCR01313 Washington County Power, LLC SERC United States NCR11599 Washington County Power, LLC SERC United States NCR11625 WestRock Southeast, LLC SERC United States NCR00081 Winter Park, City of SERC United States NCR00081 Air Liquide Large Industries U.S., LP Texas RE United States NCR11641 Alamo 6, LLC Texas RE United States NCR11785 Algonquin Power Co. Texas RE United States NCR04006 American Electric Power Service Corp as agent for AEP Texas Inc. and Public Service Company of Oklahoma				
NCR01365VACAR SouthSERCUnited StatesNCR00078Vandolah Power Company, LLCSERCUnited StatesNCR01214Virginia Electric and Power Company (DP, TO)SERCUnited StatesNCR09006Virginia Electric and Power Company - Nuclear (GO,GOP)SERCUnited StatesNCR09028Virginia Electric and Power Company - Power GenerationSERCUnited StatesNCR00200Vistra Energy Corp.SERCUnited StatesNCR00940Wabash Valley Power Association, Inc.SERCUnited StatesNCR01314Walton Bainbridge Power FacilitySERCUnited StatesNCR11598Walton County Power, LLCSERCUnited StatesNCR01313Walton Discover Power FacilitySERCUnited StatesNCR11599Washington County Power, LLCSERCUnited StatesNCR11625WestRock Southeast, LLCSERCUnited StatesNCR00081Winter Park, City ofSERCUnited StatesNCR10001Air Liquide Large Industries U.S., LPTexas REUnited StatesNCR11641Alamo 6, LLCTexas REUnited StatesNCR11785Algonquin Power Co.Texas REUnited StatesNCR04006American Electric Power Service Corp as agent for AEP Texas Inc. and Public ServiceTexas REUnited States	NCR01361			United States
NCR00078 Vandolah Power Company, LLC  NCR01214 Virginia Electric and Power Company (DP, TO)  NCR09006 Virginia Electric and Power Company - Nuclear (GO,GOP)  NCR09028 Virginia Electric and Power Company - Power Generation  NCR09028 Virginia Electric and Power Company - Power Generation  NCR00200 Vistra Energy Corp.  NCR00200 Vistra Energy Corp.  NCR00940 Wabash Valley Power Association, Inc.  NCR01314 Walton Bainbridge Power Facility  NCR01315 Walton County Power, LLC  NCR01313 Walton Discover Power Facility  NCR01313 Walton Discover Power Facility  NCR01313 Walton Discover Power, LLC  NCR013159 Washington County Power, LLC  NCR011625 WestRock Southeast, LLC  NCR00081 WestRock Southeast, LLC  NCR00081 Winter Park, City of  NCR00081 Air Liquide Large Industries U.S., LP  Texas RE  NCR11641 Alamo 6, LLC  NCR01785 Algonquin Power Co.  Texas RE  United States  NCR04006 American Electric Power Service Corp as agent for AEP Texas Inc. and Public Service  Company of Oklahoma  Nulled States  United States  United States  United States  United States	NCR01364	USACE - Wilmington District		United States
NCR01214 Virginia Electric and Power Company (DP, TO) SERC United States NCR09006 Virginia Electric and Power Company - Nuclear (GO,GOP) SERC United States NCR09028 Virginia Electric and Power Company - Power Generation SERC United States NCR00200 Vistra Energy Corp. SERC United States NCR00240 Wabash Valley Power Association, Inc. SERC United States NCR00314 Walton Bainbridge Power Facility SERC United States NCR01314 Walton Discover Power, LLC SERC United States NCR11598 Walton County Power, LLC SERC United States NCR01313 Walton Discover Power Facility SERC United States NCR11599 Washington County Power, LLC SERC United States NCR11625 WestRock Southeast, LLC SERC United States NCR00081 Winter Park, City of SERC United States NCR10001 Air Liquide Large Industries U.S., LP Texas RE United States NCR11641 Alamo 6, LLC Texas RE United States NCR11785 Algonquin Power Co. Texas RE United States NCR04006 American Electric Power Service Corp as agent for AEP Texas Inc. and Public Service Company of Oklahoma	NCR01365		SERC	United States
NCR09006 Virginia Electric and Power Company - Nuclear (GO,GOP) SERC United States NCR09028 Virginia Electric and Power Company - Power Generation SERC United States NCR00200 Vistra Energy Corp. SERC United States NCR00940 Wabash Valley Power Association, Inc. SERC United States NCR01314 Walton Bainbridge Power Facility SERC United States NCR11598 Walton County Power, LLC SERC United States NCR01313 Walton Discover Power Facility SERC United States NCR01313 Washington County Power, LLC SERC United States NCR11599 Washington County Power, LLC SERC United States NCR11625 WestRock Southeast, LLC SERC United States NCR100081 Winter Park, City of SERC United States NCR10001 Air Liquide Large Industries U.S., LP Texas RE United States NCR11641 Alamo 6, LLC Texas RE United States NCR11785 Algonquin Power Co. Texas RE United States NCR04006 American Electric Power Service Corp as agent for AEP Texas Inc. and Public Service Company of Oklahoma		Vandolah Power Company, LLC		United States
NCR09028Virginia Electric and Power Company - Power GenerationSERCUnited StatesNCR00200Vistra Energy Corp.SERCUnited StatesNCR00940Wabash Valley Power Association, Inc.SERCUnited StatesNCR01314Walton Bainbridge Power FacilitySERCUnited StatesNCR11598Walton County Power, LLCSERCUnited StatesNCR01313Walton Discover Power FacilitySERCUnited StatesNCR11599Washington County Power, LLCSERCUnited StatesNCR11625WestRock Southeast, LLCSERCUnited StatesNCR00081Winter Park, City ofSERCUnited StatesNCR10001Air Liquide Large Industries U.S., LPTexas REUnited StatesNCR11641Alamo 6, LLCTexas REUnited StatesNCR11785Algonquin Power Co.Texas REUnited StatesNCR04006American Electric Power Service Corp as agent for AEP Texas Inc. and Public Service Company of OklahomaTexas REUnited States				United States
NCR00200 Vistra Energy Corp.  NCR00940 Wabash Valley Power Association, Inc.  NCR01314 Walton Bainbridge Power Facility  NCR11598 Walton County Power, LLC  NCR01313 Walton Discover Power Facility  NCR01313 Walton Discover Power Facility  NCR11599 Washington County Power, LLC  NCR11599 Washington County Power, LLC  NCR11625 WestRock Southeast, LLC  NCR0081 Winter Park, City of  NCR00081 Winter Park, City of  NCR10001 Air Liquide Large Industries U.S., LP  NCR10001 Alamo 6, LLC  NCR11641 Alamo 6, LLC  NCR11785 Algonquin Power Co.  NCR04006 American Electric Power Service Corp as agent for AEP Texas Inc. and Public Service  Company of Oklahoma  Texas RE  United States  United States  United States	NCR09006			United States
NCR00940 Wabash Valley Power Association, Inc.  NCR01314 Walton Bainbridge Power Facility SERC United States  NCR11598 Walton County Power, LLC SERC United States  NCR01313 Walton Discover Power Facility SERC United States  NCR11599 Washington County Power, LLC SERC United States  NCR11599 Washington County Power, LLC SERC United States  NCR11625 WestRock Southeast, LLC SERC United States  NCR00081 Winter Park, City of SERC United States  NCR10001 Air Liquide Large Industries U.S., LP Texas RE United States  NCR11641 Alamo 6, LLC Texas RE United States  NCR11785 Algonquin Power Co.  NCR04006 American Electric Power Service Corp as agent for AEP Texas Inc. and Public Service Company of Oklahoma  Texas RE United States				United States
NCR01314Walton Bainbridge Power FacilitySERCUnited StatesNCR11598Walton County Power, LLCSERCUnited StatesNCR01313Walton Discover Power FacilitySERCUnited StatesNCR11599Washington County Power, LLCSERCUnited StatesNCR11625WestRock Southeast, LLCSERCUnited StatesNCR00081Winter Park, City ofSERCUnited StatesNCR10001Air Liquide Large Industries U.S., LPTexas REUnited StatesNCR11641Alamo 6, LLCTexas REUnited StatesNCR11785Algonquin Power Co.Texas REUnited StatesNCR04006American Electric Power Service Corp as agent for AEP Texas Inc. and Public Service Company of OklahomaTexas REUnited States	NCR00200	Vistra Energy Corp.		United States
NCR11598 Walton County Power, LLC  NCR01313 Walton Discover Power Facility  NCR11599 Washington County Power, LLC  NCR11625 WestRock Southeast, LLC  NCR00081 Winter Park, City of  NCR10001 Air Liquide Large Industries U.S., LP  NCR10001 Texas RE  NCR11641 Alamo 6, LLC  NCR11785 Algonquin Power Co.  NCR04006 American Electric Power Service Corp as agent for AEP Texas Inc. and Public Service  Company of Oklahoma  Texas RE  United States  United States  United States  United States  Texas RE  United States  United States	NCR00940	Wabash Valley Power Association, Inc.	SERC	United States
NCR01313 Walton Discover Power Facility SERC United States NCR11599 Washington County Power, LLC SERC United States NCR11625 WestRock Southeast, LLC SERC United States NCR00081 Winter Park, City of SERC United States NCR10001 Air Liquide Large Industries U.S., LP Texas RE United States NCR11641 Alamo 6, LLC Texas RE United States NCR11785 Algonquin Power Co. Texas RE United States NCR04006 American Electric Power Service Corp as agent for AEP Texas Inc. and Public Service Company of Oklahoma	NCR01314	Walton Bainbridge Power Facility	SERC	United States
NCR11599Washington County Power, LLCSERCUnited StatesNCR11625WestRock Southeast, LLCSERCUnited StatesNCR00081Winter Park, City ofSERCUnited StatesNCR10001Air Liquide Large Industries U.S., LPTexas REUnited StatesNCR11641Alamo 6, LLCTexas REUnited StatesNCR11785Algonquin Power Co.Texas REUnited StatesNCR04006American Electric Power Service Corp as agent for AEP Texas Inc. and Public Service Company of OklahomaTexas REUnited States	NCR11598	Walton County Power, LLC	SERC	United States
NCR11625WestRock Southeast, LLCSERCUnited StatesNCR00081Winter Park, City ofSERCUnited StatesNCR10001Air Liquide Large Industries U.S., LPTexas REUnited StatesNCR11641Alamo 6, LLCTexas REUnited StatesNCR11785Algonquin Power Co.Texas REUnited StatesNCR04006American Electric Power Service Corp as agent for AEP Texas Inc. and Public Service Company of OklahomaTexas REUnited States	NCR01313	Walton Discover Power Facility	SERC	United States
NCR00081Winter Park, City ofSERCUnited StatesNCR10001Air Liquide Large Industries U.S., LPTexas REUnited StatesNCR11641Alamo 6, LLCTexas REUnited StatesNCR11785Algonquin Power Co.Texas REUnited StatesNCR04006American Electric Power Service Corp as agent for AEP Texas Inc. and Public Service Company of OklahomaTexas REUnited States	NCR11599	Washington County Power, LLC	SERC	United States
NCR10001     Air Liquide Large Industries U.S., LP     Texas RE     United States       NCR11641     Alamo 6, LLC     Texas RE     United States       NCR11785     Algonquin Power Co.     Texas RE     United States       NCR04006     American Electric Power Service Corp as agent for AEP Texas Inc. and Public Service Company of Oklahoma     Texas RE     United States	NCR11625	WestRock Southeast, LLC	SERC	United States
NCR11641     Alamo 6, LLC     Texas RE     United States       NCR11785     Algonquin Power Co.     Texas RE     United States       NCR04006     American Electric Power Service Corp as agent for AEP Texas Inc. and Public Service Company of Oklahoma     Texas RE     United States	NCR00081	Winter Park, City of	SERC	United States
NCR11785     Algonquin Power Co.     Texas RE     United States       NCR04006     American Electric Power Service Corp as agent for AEP Texas Inc. and Public Service Company of Oklahoma     Texas RE     United States	NCR10001	Air Liquide Large Industries U.S., LP	Texas RE	United States
NCR04006 American Electric Power Service Corp as agent for AEP Texas Inc. and Public Service Texas RE United States	NCR11641	Alamo 6, LLC	Texas RE	United States
NCR04006 Company of Oklahoma Texas RE United States	NCR11785	Algonquin Power Co.	Texas RE	United States
	NCR04006	· -	Texas RE	United States
	NCR11265		Texas RE	United States

NCR11746	Astra Wind, LLC	Texas RE	United States
NCR10259	Avangrid Renewables	Texas RE	United States
NCR04008	Bandera Electric Cooperative, Inc.	Texas RE	United States
NCR04009	Barney Davis, LLC	Texas RE	United States
NCR04010	Barney M Davis Unit 1	Texas RE	United States
NCR04011	BASF Corp	Texas RE	United States
NCR04012	Bastrop Energy Partners, LP	Texas RE	United States
NCR11814	Bearkat Wind Energy I, LLC	Texas RE	United States
NCR11814 NCR11809	Big Country Electric Cooperative, Inc	Texas RE	United States
NCR04013	Bluebonnet Electric Co Op, Inc.	Texas RE	United States
NCR11320	Bobcat Bluff Wind Project, LLC	Texas RE	United States
NCR04015	Brazos Electric Power Co Op, Inc.	Texas RE	United States
NCR10210	Brazos Wind, LP	Texas RE	United States
NCR10210	Briscoe Wind Farm, LLC	Texas RE	United States
NCR04018	Brownsville Public Utilities Board	Texas RE	United States
NCR04018	Brownsville Public Utilities Board Silas Ray	Texas RE	United States
NCR11799	Bruenning's Breeze Wind Farm, LLC	Texas RE	United States
NCR04022	Bryan Texas Utilities	Texas RE	United States
NCR04025	Buffalo Gap Wind Farm, LLC	Texas RE	United States
NCR10290 NCR00006	Bull Creek Wind, LLC  Calpine Corporation	Texas RE Texas RE	United States
	Campine Corporation  Cameron Wind I, LLC	Texas RE	United States United States
NCR11591	Canadian Breaks LLC	Texas RE	United States
NCR11944			United States
NCR04028	Center Point Energy Houston Electric, LLC	Texas RE	United States
NCR10175	Central Texas Electric Cooperative, Inc.	Texas RE	United States
NCR11807	Champion Wind Form LLC	Texas RE	
NCR10173	Champion Wind Farm, LLC	Texas RE	United States United States
NCR11763	Chapman Ranch Wind I, LLC	Texas RE	
NCR04029	City of Austin dba Austin Energy	Texas RE	United States
NCR04030	City of Austin dba Austin Energy	Texas RE	United States United States
NCR04032	City of College Station	Texas RE	United States
NCR04033	City of Garland	Texas RE	United States
NCR04034	City of Garland	Texas RE Texas RE	United States
NCR04035	City of Garrataun		United States
NCR10004	City of Georgetown	Texas RE	United States
NCR10189 NCR00769	City of San Marcos  Clearway Energy Operating, LLC	Texas RE Texas RE	United States
NCR11829	Clearway Renew LLC	Texas RE	
NCR11829 NCR11926	Clearway Renewable Operation & Maintenance LLC	Texas RE	United States
	Colbeck's Corner, LLC	Texas RE	United States United States
NCR11627 NCR11804	Colleman County Electric Cooperative, Inc.	Texas RE	United States
NCR11862			
	Consho Valley Flortris Connerative Inc	Texas RE	United States
NCR11790	Concho Valley Electric Cooperative, Inc.	Texas RE	United States
NCR11605	Consolidated Edison Development, Inc.	Texas RE	United States
NCR11735	Cotton Plains Wind I, LLC	Texas RE	United States
NCR04037	Cross Toyas Transmission, LLC	Texas RE	United States
NCR11114	Cross Texas Transmission, LLC	Texas RE	United States
NCR04049	Demost Wind LLC	Texas RE	United States
NCR11750	Dermott Wind, LLC	Texas RE	United States
NCR04050	Desert Sky Wind Farm, LP	Texas RE	United States
NCR04051	Direct Energy, LP	Texas RE	United States
NCR11032	Duke Energy Renewables Services, LLC	Texas RE	United States

NCR11556   Ector County Energy Center LLC	NCR01227	East Texas Electric Cooperative Inc.	Texas RE	United States
NCR00551	H	·		
NCR11241	H	· • • ·		
NCR11662         EDP Renewables North America LLC         Texas RE         United States           NCR11430         EIF Channelview Cogeneration, LLC         Texas RE         United States           NCR11698         Beter Wind, LLC         Texas RE         United States           NCR04056         Electric Reliability Council of Texas, Inc.         Texas RE         United States           NCR04055         Equistar Chemical, LP         Texas RE         United States           NCR04057         Exelon Generation Company, LLC         Texas RE         United States           NCR04058         Exxonmobil Relingia and Supply Company         Texas RE         United States           NCR11931         First Solar Electric - Phoebe, LLC         Texas RE         United States           NCR11938         First Solar Electric-Windian States         United States           NCR11266         First Solar Electric-Midway I, LLC         Texas RE         United States           NCR11284         First Solar Electric-Midway I, LLC         Texas RE         United States           NCR11285         First Solar Electric-Midway I, LLC         Texas RE         United States           NCR11289         First Solar Electric United States         NCR1168         Fixas RE         United States           NCR11289         First Solar Electric		<u> </u>		
NCR11430				
NCR11958				
NCR04056				
NCR10211				
NCR04055 Equistar Chemical, LP Texas RE NCR04057 Exelon Generation Company, LLC Texas RE NCR04058 Exxonmobili Refining and Supply Company Texas RE United States NCR04058 Exxonmobili Refining and Supply Company Texas RE United States NCR11933 First Solar Electric - Phoebe, LLC Texas RE United States NCR11726 First Solar Electric-East Pecos, LLC Texas RE United States NCR11726 First Solar Electric-Midway 1, LLC Texas RE United States NCR11889 First Solar Electric-Midway 1, LLC Texas RE United States NCR11889 First Solar Electric-Midway 1, LLC Texas RE United States NCR11889 First Solar Electric-Midway 1, LLC Texas RE United States NCR11924 Flat Top Wind I, LLC Texas RE United States NCR11930 Flovanna Wind Energy 2 LLC Texas RE United States NCR11930 Flovanna Wind Energy 2 LLC Texas RE United States NCR11930 Flovanna Wind Energy 2 LLC Texas RE United States NCR11950 Foard City Wind, LLC Texas RE United States NCR04003 Flovanna Wind Energy 2 LLC Texas RE United States NCR04003 Forest Creek Wind Farm, LLC Texas RE United States NCR04003 Forest Creek Wind Farm, LLC Texas RE United States NCR04005 Foard City Wind Farm, LLC Texas RE United States NCR040074 GEN TEX Power Corp Texas RE United States NCR040075 GEUS Texas RE United States NCR040076 GEUS Texas RE United States NCR040079 GEUS Texas RE United States N		•		
NCR04057   Exelon Generation Company, LLC   Texas RE   United States   NCR04058   Exxonmobil Refining and Supply Company   Texas RE   United States   NCR011933   First Solar Electric-Phobe, LLC   Texas RE   United States   NCR11726   First Solar Electric-Cast Pecos, LLC   Texas RE   United States   NCR11784   First Solar Electric-Cast Pecos, LLC   Texas RE   United States   NCR11889   First Solar Electric-Camesa 2, LLC   Texas RE   United States   NCR11889   First Solar Electric-Idmova 1, LLC   Texas RE   United States   NCR11884   Filst Top Wind I, LLC   Texas RE   United States   NCR11824   Filst Top Wind I, LLC   Texas RE   United States   NCR11930   Filovanna Wind Energy 2 LLC   Texas RE   United States   NCR11930   Filovanna Wind Energy 2 LLC   Texas RE   United States   NCR11950   Filovanna Wind Energy 2 LLC   Texas RE   United States   NCR11950   Ford City Wind, LLC   Texas RE   United States   NCR11950   Ford City Wind, LLC   Texas RE   United States   NCR04003   Forest Creek Wind Farm, LLC   Texas RE   United States   NCR04005   Formosa Utility Venture, Ltd.   Texas RE   United States   NCR04005   Formosa Utility Venture, Ltd.   Texas RE   United States   NCR04007   GEN TEX Power Corp   Texas RE   United States   NCR040075   GEUS   Texas RE   United States   NCR040075   GEUS   Texas RE   United States   NCR040075   GEUS   Texas RE   United States   NCR040076   GEUS   Texas RE   United States   NCR04076   GEUS   Texas RE   United States   NCR04076   GEUS   Texas RE   United States   NCR04076   GEUS   Texas RE   United States   NCR04079   GUID		,		
NCR04058 Exxonmobil Refining and Supply Company  First Solar Electric - Phoebe, LIC  Texas RE  United States NCR11736  First Solar Electric-Ext Pecos, LIC  Texas RE  United States NCR11884  First Solar Electric-Indicates Pecos, LIC  Texas RE  United States NCR11889  First Solar Electric-Indicates Pecos, LIC  Texas RE  United States NCR11889  First Solar Electric-Indicates J. LIC  Texas RE  United States NCR11889  First Solar Electric-Indicates J. LIC  Texas RE  United States NCR11890  Filoresville Electric Light & Power System  Texas RE  United States NCR10262  Fioresville Electric Light & Power System  Texas RE  United States NCR11930  Filorenna Wind Energy 2 LIC  Texas RE  United States NCR11930  Filorenna Wind Energy LIC  Texas RE  United States NCR11950  Foard City Wind, LIC  Texas RE  United States NCR04003  Forest Creek Wind Farm, LIC  Texas RE  United States NCR04003  Forest Creek Wind Farm, LIC  Texas RE  United States NCR04005  Firendswood Energy Genco LIC  Texas RE  United States NCR04074  GEN TEX Power Corp  Texas RE  United States NCR04075  GEUS  Texas RE  United States NCR04076  GEUS  Texas RE  United States NCR04076  GOIden Spread Electric Cooperative, Inc.  Texas RE  United States NCR11491  Grandview Wind Farm, LIC  Texas RE  United States NCR11491  Grandview Wind Farm, LIC  Texas RE  United States NCR11491  Grandview Wind Farm, LIC  Texas RE  United States NCR11491  Grandview Wind Farm, LIC  Texas RE  United States NCR11491  Grandview Wind Farm, LIC  Texas RE  United States NCR11491  Grandview Wind Farm, LIC  Texas RE  United States NCR11491  Grandview Wind Farm, LIC  Texas RE  United States NCR11491  Grandview Wind Farm, LIC  Texas RE  United States NCR11491  Grandview Wind Farm, LIC  Texas RE  United States NCR11491  Grandview Wind Farm, LIC  Texas RE  United States NCR11491  Grandview Wind Farm, LIC  Texas RE  United States NCR11491  Grandview Wind Farm, LIC  Texas RE  United States NCR11491  Grandview Wind Farm, LIC  Texas RE  United States NCR11493  Indicad States NCR11493  Indicad States N		·		
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NCR11726   First Solar Electric-East Pecos, LIC   Texas RE   United States	-			
NCR11884   First Solar Electric-Lamesa 2, LLC   Texas RE   United States NCR11889   First Solar Electric-Wildway 1, LLC   Texas RE   United States NCR11824   Flat Top Wind 1, LLC   Texas RE   United States NCR10262   Floresville Electric Light & Power System   Texas RE   United States NCR11930   Fluvanna Wind Energy 2, LLC   Texas RE   United States NCR11769   Fluvanna Wind Energy 2, LLC   Texas RE   United States NCR11769   Fluvanna Wind Energy 2, LLC   Texas RE   United States NCR11769   Fluvanna Wind Energy 2, LLC   Texas RE   United States NCR11950   Foard City Wind, LLC   Texas RE   United States NCR04003   Forest Creek Wind Farm, LLC   Texas RE   United States NCR04003   Forest Creek Wind Farm, LLC   Texas RE   United States NCR040059   Formosa Utility Venture, Ltd.   Texas RE   United States NCR04059   Formosa Utility Venture, Ltd.   Texas RE   United States NCR04074   GEN TEX Power Corp   Texas RE   United States NCR04075   GEUS   Texas RE   United States NCR04075   GEUS   Texas RE   United States NCR04075   GEUS   Texas RE   United States NCR04076   GEUS   Texas RE   United States NCR04076   GEUS   Texas RE   United States NCR04076   GEUS   Texas RE   United States NCR11854   Goldthwaite Wind Energy LLC   Texas RE   United States NCR11491   Grandview Wind Farm, LLC   Texas RE   United States NCR11491   Grandview Wind Farm, LLC   Texas RE   United States NCR11573   Green Pastures Wind I, LLC   Texas RE   United States NCR04079   Guadalup Valley Electric Co Op Inc.   Texas RE   United States NCR04079   Guadalup Valley Electric Co Op Inc.   Texas RE   United States NCR04079   Guadalup Valley Electric Co Op Inc.   Texas RE   United States NCR04079   Guadalup Valley Electric Co Op Inc.   Texas RE   United States NCR04082   Ingleside Cogeneration, LP   Texas RE   United States NCR04084   Inwenergy Services LLC   Texa	-			
NCR11889   First Solar Electric-Midway 1, LLC   Texas RE   United States NCR11242   Filat Top Wind I, LLC   Texas RE   United States NCR10262   Filoresville Electric Light & Power System   Texas RE   United States NCR10262   Filoresville Electric Light & Power System   Texas RE   United States NCR11930   Filovanna Wind Energy 2 LLC   Texas RE   United States NCR11769   Filovanna Wind Energy LLC   Texas RE   United States NCR11769   Filovanna Wind Energy LLC   Texas RE   United States NCR04003   Forest Creek Wind Farm, LLC   Texas RE   United States NCR04003   Forest Creek Wind Farm, LLC   Texas RE   United States NCR04059   Formosa Utility Venture, Ltd.   Texas RE   United States NCR04059   Formosa Utility Venture, Ltd.   Texas RE   United States NCR04074   GEN TEX Power Corp   Texas RE   United States NCR04075   GEUS   Texas RE   United States NCR04075   GEUS   Texas RE   United States NCR04076   GOIdden Spread Electric Cooperative, Inc.   Texas RE   United States NCR04076   Goldthwaite Wind Energy LLC   Texas RE   United States NCR04076   Goldthwaite Wind Energy LLC   Texas RE   United States NCR04076   Goldthwaite Wind Energy LLC   Texas RE   United States NCR04076   Goldthwaite Wind Energy LLC   Texas RE   United States NCR04079   Guadalupe Valley Electric Co Op Inc.   Texas RE   United States NCR04079   Guadalupe Valley Electric Co Op Inc.   Texas RE   United States NCR04079   Guadalupe Valley Electric Co Op Inc.   Texas RE   United States NCR04079   Guadalupe Valley Electric Co Op Inc.   Texas RE   United States NCR04079   Guadalupe Valley Electric Co Op Inc.   Texas RE   United States NCR04079   Guadalupe Valley Electric Co Op Inc.   Texas RE   United States NCR04079   Guadalupe Valley Electric Co Op Inc.   Texas RE   United States NCR04079   Inadale Wind Farm, LLC   Texas RE   United States NCR04079   Inadale Wind Farm, LLC   Texas RE   United States NCR04082   Ingleside Cogen		•		
NCR11824 Flat Top Wind I, LLC  Texas RE United States NCR11930 Floresville Electric Light & Power System  Flavas RE United States NCR11930 Floresville Electric Light & Power System  Flavas RE United States NCR11930 Floresville Electric Light & Power System  Floresville Electric Light & Power System  Floresville Electric Light & Power System  Flavas RE United States NCR11950 Floresville Electric Light & Power System  NCR11950 Floresville Electric Light & Power System  NCR040003 Foress Creek Wind Farm, LLC  Texas RE United States NCR040030 Foress Creek Wind Farm, LLC  Texas RE United States NCR040079 Formosa Utility Venture, Ltd.  Texas RE United States NCR040074 GEN TEX Power Corp  Texas RE United States NCR040075 GEUS  NCR040075 GEUS  NCR04076 GEUS  NCR04076 GEUS  NCR04076 GEUS  NCR04076 GOIden Spread Electric Cooperative, Inc.  Texas RE United States NCR11364 Goldhwaite Wind Energy LLC  Texas RE United States NCR11364 Goldhwaite Wind Farm, LLC  Texas RE United States NCR11365 Green Pastures Wind I, LLC  Texas RE United States NCR11573 Green Pastures Wind I, LLC  Texas RE United States NCR04079 Guadalupue Valley Electric Coop Inc.  Texas RE United States NCR11631 Gunsight Mountain Wind Energy LLC  Texas RE United States NCR11630 Hackberry Wind, LLC  Texas RE United States NCR11630 Horse Creek Wind, LLC  Texas RE United States NCR11630 Horse Creek Wind, LLC  Texas RE United States NCR11630 Horse Creek Wind, LLC  Texas RE United States NCR11630 Horse Creek Wind, LLC  Texas RE United States NCR11630 Horse Creek Wind, LLC  Texas RE United States NCR11630 Horse Creek Wind, LLC  Texas RE United States NCR11630 Horse Creek Wind, LLC  Texas RE United States NCR11630 Horse Creek Wind, LLC  Texas RE United States NCR11630 Horse Creek Wind, LLC  Texas RE United States NCR11630 Horse Creek Wind, LLC  Texas RE United States NCR11630 Horse Creek Wind, LLC  Texas RE United States NCR11630 Horse Creek Wind, LLC  Texas RE United States NCR11640 Horse Creek Wind, LLC  Texas RE United States NCR11650 Horse Creek Wind LEXE Texas R		· · · · · · · · · · · · · · · · · · ·		
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NCR11864         Mountain Creek Power, LLC         Texas RE         United States           NCR11935         NAES Corporation - Nacogdoches         Texas RE         United States           NCR11508         NAES Corporation - Quail Run Energy Center         Texas RE         United States           NCR11181         NAES Corporation-Sandy Creek Energy Station         Texas RE         United States           NCR040101         New Braunfels Utilities         Texas RE         United States           NCR040101         New Braunfels Utilities         Texas RE         United States           NCR10019         NextEra Energy Resources, LLC         Texas RE         United States           NCR10276         Notrees Windpower, LP         Texas RE         United States           NCR10326         NRG Cedar Bayou Development Co, LLC         Texas RE         United States           NCR10326         NRG Energy Services - Golden Spread         Texas RE         United States           NCR1042         NRG Energy Services - Golden Spread         Texas RE         United States           NCR10400         NRG Texas Power, LLC         Texas RE         United States           NCR10410         Nucces Bay, LLC         Texas RE         United States           NCR104109         Oncor Electric Delivery Ompany LLC         Texas R	NCR11888	Midway Solar 1, LLC	Texas RE	United States
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NCR11508         NAES Corporation - Quail Run Energy Center         Texas RE         United States           NCR11181         NAES Corporation-Sandy Creek Energy Station         Texas RE         United States           NCR04101         New Braunfels Utilities         Texas RE         United States           NCR10019         NextEra Energy Resources, LLC         Texas RE         United States           NCR10276         Notrees Windpower, LP         Texas RE         United States           NCR10326         NRG Cedar Bayou Development Co, LLC         Texas RE         United States           NCR10326         NRG Energy Services - Golden Spread         Texas RE         United States           NCR10402         NRG Texas Power, LLC         Texas RE         United States           NCR10900         NRG Texas Power, LLC         Texas RE         United States           NCR04106         Nucece Bay, LLC         Texas RE         United States           NCR10180         Nuceces Electric Cooperative, Inc.         Texas RE         United States           NCR01180         Nuceces Electric Cooperative, Inc.         Texas RE         United States           NCR01080         Oncor Electric Delivery Company LLC         Texas RE         United States           NCR04109         Oncor Electric Delivery Company LLC <t< td=""><td>NCR11864</td><td>Mountain Creek Power, LLC</td><td>Texas RE</td><td>United States</td></t<>	NCR11864	Mountain Creek Power, LLC	Texas RE	United States
NCR11181NAES Corporation-Sandy Creek Energy StationTexas REUnited StatesNCR04101New Braunfels UtilitiesTexas REUnited StatesNCR10019NextEra Energy Resources, LLCTexas REUnited StatesNCR10276Notrees Windpower, LPTexas REUnited StatesNCR10326NRG Cedar Bayou Development Co, LLCTexas REUnited StatesNCR10326NRG Energy Services - Golden SpreadTexas REUnited StatesNCR11642NRG Energy Services - Golden SpreadTexas REUnited StatesNCR10900NRG Texas Power, LLCTexas REUnited StatesNCR04106Nueces Bay, LLCTexas REUnited StatesNCR04107Nueces Electric Cooperative, Inc.Texas REUnited StatesNCR04108Nueces Electric Cooperative, Inc.Texas REUnited StatesNCR04109Oncor Electric Delivery Company LLCTexas REUnited StatesNCR04109Oncor Electric Delivery Company LLCTexas REUnited StatesNCR04100Oxy Vinyls LPTexas REUnited StatesNCR04110Oxy Vinyls LPTexas REUnited StatesNCR11470Panda Sherman Power, LLCTexas REUnited StatesNCR11872Panda Temple Power II, LLCTexas REUnited StatesNCR10334Panther Creek Wind Farm Three, LLCTexas REUnited StatesNCR10335Papalote Creek II, LLCTexas REUnited StatesNCR10336Papalote Creek II, LLCTexas REUnited StatesNCR1	NCR11935	NAES Corporation - Nacogdoches	Texas RE	United States
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NCR10326 NRG Cedar Bayou Development Co, LLC Texas RE United States NCR11642 NRG Energy Services - Golden Spread Texas RE United States NCR10090 NRG Texas Power, LLC Texas RE United States NCR04106 Nueces Bay, LLC Texas RE United States NCR04108 Nueces Electric Cooperative, Inc. Texas RE United States NCR11736 Old Settler Wind, LLC Texas RE United States NCR04109 Oncor Electric Delivery Company LLC Texas RE United States NCR04109 Oncor Electric Delivery Company LLC Texas RE United States NCR0072 Optim Energy Altura Cogen, LLC Texas RE United States NCR04110 Oxy Vinyls LP Texas RE United States NCR04110 Oxy Vinyls LP Texas RE United States NCR11470 Panda Sherman Power, LLC Texas RE United States NCR11872 Panda Temple Power II, LLC Texas RE United States NCR10249 Panther Creek Wind Farm I & II, LLC Texas RE United States NCR10334 Panther Creek Wind Farm Three, LLC Texas RE United States NCR10335 Papalote Creek I, LLC Texas RE United States NCR11033 Papalote Creek I, LLC Texas RE United States NCR11033 Papalote Creek I, LLC Texas RE United States NCR11033 Papalote Creek II, LLC Texas RE United States NCR11033 Papalote Creek II, LLC Texas RE United States NCR11033 Papalote Creek II, LLC Texas RE United States NCR11033 Paris Generation, LP Texas RE United States NCR04138 Paris Generation, LP Texas RE United States NCR11808 Pattern Operators LP Texas RE United States NCR11346 Pedernales Elec Co Op Inc. Texas RE United States NCR11346 Petra Nova Power I LLC Texas RE United States NCR11344 Phoebe Energy Project, LLC Texas RE United States	NCR10019	NextEra Energy Resources, LLC	Texas RE	United States
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NCR10180 Nueces Electric Cooperative, Inc.  NCR11736 Old Settler Wind, LLC  NCR04109 Oncor Electric Delivery Company LLC  NCR10072 Optim Energy Altura Cogen, LLC  NCR04110 Oxy Vinyls LP  NCR11470 Panda Sherman Power, LLC  NCR11872 Panda Temple Power II, LLC  NCR10249 Panther Creek Wind Farm I & II, LLC  NCR10334 Papalote Creek I, LLC  NCR10335 Papalote Creek I, LLC  NCR11033 Papalote Creek II, LLC  NCR11033 Papalote Creek II, LLC  NCR11033 Papalote Creek II, LLC  NCR11033 Pattern Operators LP  NCR04118 Pedernales Elec Co Op Inc.  NCR04114 Texas RE  United States  NCR04114 Power II, LLC  Texas RE  United States	NCR10090	NRG Texas Power, LLC	Texas RE	United States
NCR11736 Old Settler Wind, LLC Texas RE United States NCR04109 Oncor Electric Delivery Company LLC Texas RE United States NCR10072 Optim Energy Altura Cogen, LLC Texas RE United States NCR04110 Oxy Vinyls LP Texas RE United States NCR11470 Panda Sherman Power, LLC Texas RE United States NCR11872 Panda Temple Power II, LLC Texas RE United States NCR10249 Panther Creek Wind Farm I & II, LLC Texas RE United States NCR10334 Panther Creek Wind Farm Three, LLC Texas RE United States NCR10335 Papalote Creek I, LLC Texas RE United States NCR11033 Papalote Creek II, LLC Texas RE United States NCR11033 Papalote Creek II, LLC Texas RE United States NCR04138 Paris Generation, LP Texas RE United States NCR04138 Pattern Operators LP Texas RE United States NCR04111 Pedernales Elec Co Op Inc. Texas RE United States NCR11346 Petra Nova Power I LLC Texas RE United States NCR11934 Phoebe Energy Project, LLC Texas RE United States	NCR04106	Nueces Bay, LLC	Texas RE	United States
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NCR10072 Optim Energy Altura Cogen, LLC Texas RE United States  NCR04110 Oxy Vinyls LP Texas RE United States  NCR11470 Panda Sherman Power, LLC Texas RE United States  NCR11872 Panda Temple Power II, LLC Texas RE United States  NCR10249 Panther Creek Wind Farm I & II, LLC Texas RE United States  NCR10334 Panther Creek Wind Farm Three, LLC Texas RE United States  NCR10335 Papalote Creek I, LLC Texas RE United States  NCR10335 Papalote Creek II, LLC Texas RE United States  NCR11033 Papalote Creek II, LLC Texas RE United States  NCR04138 Paris Generation, LP Texas RE United States  NCR04138 Pattern Operators LP Texas RE United States  NCR04110 Pedernales Elec Co Op Inc. Texas RE United States  NCR04111 Pedernales Elec Co Op Inc. Texas RE United States  NCR11346 Petra Nova Power I LLC Texas RE United States  NCR11934 Phoebe Energy Project, LLC Texas RE United States	NCR11736	Old Settler Wind, LLC	Texas RE	<b>United States</b>
NCR04110Oxy Vinyls LPTexas REUnited StatesNCR11470Panda Sherman Power, LLCTexas REUnited StatesNCR11872Panda Temple Power II, LLCTexas REUnited StatesNCR10249Panther Creek Wind Farm I & II, LLCTexas REUnited StatesNCR10334Panther Creek Wind Farm Three, LLCTexas REUnited StatesNCR10335Papalote Creek I, LLCTexas REUnited StatesNCR11033Papalote Creek II, LLCTexas REUnited StatesNCR04138Paris Generation, LPTexas REUnited StatesNCR11808Pattern Operators LPTexas REUnited StatesNCR04111Pedernales Elec Co Op Inc.Texas REUnited StatesNCR11346Petra Nova Power I LLCTexas REUnited StatesNCR11934Phoebe Energy Project, LLCTexas REUnited States	NCR04109	Oncor Electric Delivery Company LLC	Texas RE	United States
NCR11470 Panda Sherman Power, LLC Texas RE United States NCR11872 Panda Temple Power II, LLC Texas RE United States NCR10249 Panther Creek Wind Farm I & II, LLC Texas RE United States NCR10334 Panther Creek Wind Farm Three, LLC Texas RE United States NCR10335 Papalote Creek I, LLC Texas RE United States NCR10335 Papalote Creek II, LLC Texas RE United States NCR11033 Papalote Creek II, LLC Texas RE United States NCR04138 Paris Generation, LP Texas RE United States NCR04138 Pattern Operators LP Texas RE United States NCR04111 Pedernales Elec Co Op Inc. Texas RE United States NCR04111 Pedernales Elec Co Op Inc. Texas RE United States NCR11346 Petra Nova Power I LLC Texas RE United States NCR11934 Phoebe Energy Project, LLC Texas RE United States	NCR10072	Optim Energy Altura Cogen, LLC	Texas RE	<b>United States</b>
NCR11872 Panda Temple Power II, LLC Texas RE United States NCR10249 Panther Creek Wind Farm I & II, LLC Texas RE United States NCR10334 Panther Creek Wind Farm Three, LLC Texas RE United States NCR10335 Papalote Creek I, LLC Texas RE United States NCR1033 Papalote Creek II, LLC Texas RE United States NCR11033 Papalote Creek II, LLC Texas RE United States NCR04138 Paris Generation, LP Texas RE United States NCR11808 Pattern Operators LP Texas RE United States NCR04111 Pedernales Elec Co Op Inc. Texas RE United States NCR11346 Petra Nova Power I LLC Texas RE United States NCR11934 Phoebe Energy Project, LLC Texas RE United States	NCR04110	Oxy Vinyls LP	Texas RE	United States
NCR10249Panther Creek Wind Farm I & II, LLCTexas REUnited StatesNCR10334Panther Creek Wind Farm Three, LLCTexas REUnited StatesNCR10335Papalote Creek I, LLCTexas REUnited StatesNCR11033Papalote Creek II, LLCTexas REUnited StatesNCR04138Paris Generation, LPTexas REUnited StatesNCR11808Pattern Operators LPTexas REUnited StatesNCR04111Pedernales Elec Co Op Inc.Texas REUnited StatesNCR11346Petra Nova Power I LLCTexas REUnited StatesNCR11934Phoebe Energy Project, LLCTexas REUnited States	NCR11470	Panda Sherman Power, LLC	Texas RE	<b>United States</b>
NCR10334Panther Creek Wind Farm Three, LLCTexas REUnited StatesNCR10335Papalote Creek I, LLCTexas REUnited StatesNCR11033Papalote Creek II, LLCTexas REUnited StatesNCR04138Paris Generation, LPTexas REUnited StatesNCR11808Pattern Operators LPTexas REUnited StatesNCR04111Pedernales Elec Co Op Inc.Texas REUnited StatesNCR11346Petra Nova Power I LLCTexas REUnited StatesNCR11934Phoebe Energy Project, LLCTexas REUnited States	NCR11872	Panda Temple Power II, LLC	Texas RE	<b>United States</b>
NCR10335Papalote Creek I, LLCTexas REUnited StatesNCR11033Papalote Creek II, LLCTexas REUnited StatesNCR04138Paris Generation, LPTexas REUnited StatesNCR11808Pattern Operators LPTexas REUnited StatesNCR04111Pedernales Elec Co Op Inc.Texas REUnited StatesNCR11346Petra Nova Power I LLCTexas REUnited StatesNCR11934Phoebe Energy Project, LLCTexas REUnited States	NCR10249	Panther Creek Wind Farm I & II, LLC	Texas RE	United States
NCR11033Papalote Creek II, LLCTexas REUnited StatesNCR04138Paris Generation, LPTexas REUnited StatesNCR11808Pattern Operators LPTexas REUnited StatesNCR04111Pedernales Elec Co Op Inc.Texas REUnited StatesNCR11346Petra Nova Power I LLCTexas REUnited StatesNCR11934Phoebe Energy Project, LLCTexas REUnited States	NCR10334	Panther Creek Wind Farm Three, LLC	Texas RE	United States
NCR04138Paris Generation, LPTexas REUnited StatesNCR11808Pattern Operators LPTexas REUnited StatesNCR04111Pedernales Elec Co Op Inc.Texas REUnited StatesNCR11346Petra Nova Power I LLCTexas REUnited StatesNCR11934Phoebe Energy Project, LLCTexas REUnited States	NCR10335	Papalote Creek I, LLC	Texas RE	United States
NCR11808Pattern Operators LPTexas REUnited StatesNCR04111Pedernales Elec Co Op Inc.Texas REUnited StatesNCR11346Petra Nova Power I LLCTexas REUnited StatesNCR11934Phoebe Energy Project, LLCTexas REUnited States	NCR11033	Papalote Creek II, LLC	Texas RE	United States
NCR04111       Pedernales Elec Co Op Inc.       Texas RE       United States         NCR11346       Petra Nova Power I LLC       Texas RE       United States         NCR11934       Phoebe Energy Project, LLC       Texas RE       United States	NCR04138	Paris Generation, LP	Texas RE	United States
NCR11346     Petra Nova Power I LLC     Texas RE     United States       NCR11934     Phoebe Energy Project, LLC     Texas RE     United States	NCR11808	Pattern Operators LP	Texas RE	United States
NCR11934 Phoebe Energy Project, LLC Texas RE United States	NCR04111	Pedernales Elec Co Op Inc.	Texas RE	United States
	NCR11346	Petra Nova Power I LLC	Texas RE	United States
	NCR11934	Phoebe Energy Project, LLC	Texas RE	United States
	NCR11868	PHR Holdings LLC	Texas RE	United States

NCR11765	Port Comfort Power LLC	Texas RE	United States
NCR04112	Power Resources LTD	Texas RE	United States
NCR00338	Pyron Wind Farm, LLC	Texas RE	United States
NCR11525	Quail Run Energy Partners, LP	Texas RE	<b>United States</b>
NCR11947	Ranchero Wind Farm, LLC	Texas RE	<b>United States</b>
NCR11838	Rattlesnake Power, LLC	Texas RE	<b>United States</b>
NCR11547	Rattlesnake Wind I LLC	Texas RE	<b>United States</b>
NCR04113	Rayburn Country Electric Cooperative, Inc.	Texas RE	<b>United States</b>
NCR11725	RES Americas Wind Operations, Inc.	Texas RE	<b>United States</b>
NCR11924	Rio Bravo Windpower, LLC	Texas RE	<b>United States</b>
NCR03038	Rio Grande Electric Co Op	Texas RE	<b>United States</b>
NCR11774	Rocksprings Val Verde Wind LLC	Texas RE	<b>United States</b>
NCR10174	Roscoe Wind Farm, LLC	Texas RE	<b>United States</b>
NCR11544	Route 66 Wind Power, LLC	Texas RE	<b>United States</b>
NCR11383	RWE Renewables QSE, LLC	Texas RE	<b>United States</b>
NCR04118	San Bernard Electric Coop, Inc.	Texas RE	United States
NCR00253	San Miguel Electric Cooperative, Inc.	Texas RE	United States
NCR11646	San Roman Wind I, LLC	Texas RE	United States
NCR04004	Sand Bluff Wind Farm LLC	Texas RE	United States
NCR11182	Sandy Creek Services, LLC	Texas RE	United States
NCR11918	Santa Rita East Wind Energy LLC	Texas RE	United States
NCR11841	Santa Rita Wind Energy LLC	Texas RE	United States
NCR10321	Scurry County Wind II, LLC	Texas RE	United States
NCR10027	Scurry County Wind, LP	Texas RE	United States
NCR11566	Shannon Wind, LLC	Texas RE	United States
NCR04119	Sharyland Utilities, L.L.C.	Texas RE	United States
NCR10261	Sherbino I Wind Farm, LLC	Texas RE	United States
NCR11206	Sherbino II Wind Farm LLC	Texas RE	United States
NCR11202	Signal Hill Generating LLC	Texas RE	United States
NCR11310	South Houston Green Power, LLC	Texas RE	United States
NCR11620	South Plains Wind Energy II, LLC	Texas RE	United States
NCR11579	South Plains Wind Energy, LLC	Texas RE	United States
NCR04124	South Texas Electric Cooperative, Inc.	Texas RE	United States
NCR11221	Southern Power Company	Texas RE	United States
NCR11789	Southwest Texas Electric Cooperative, Inc.	Texas RE	United States
NCR11575	Spinning Spur Wind Three, LLC	Texas RE	United States
NCR11464	Spinning Spur Wind Two	Texas RE	<b>United States</b>
NCR10224	Stanton Wind Energy, LLC	Texas RE	United States
NCR11887	Stella Wind Farm, LLC	Texas RE	United States
NCR11507	Stephens Ranch Wind Energy	Texas RE	United States
NCR04127	STP Nuclear Operating Company	Texas RE	United States
NCR10183	Sweeny Cogeneration LLC	Texas RE	United States
NCR04132	Sweetwater Wind 2, LLC	Texas RE	United States
NCR04133	Sweetwater Wind 3 LLC	Texas RE	United States
NCR04135	Sweetwater Wind 4 LLC	Texas RE	United States
NCR02715	Sweetwater Wind 5, LLC	Texas RE	United States
NCR11891	Tahoka Wind, LLC	Texas RE	United States
NCR11384	Taylor Electric Cooperative, Inc.	Texas RE	United States
NCR11462	Temple Generation I, LLC	Texas RE	United States
NCR04136	Tenaska Frontier Partners LTD	Texas RE	United States
NCR04137	Tenaska Gateway Partners LTD	Texas RE	United States
NCR11116	Texas Medical Center Central Heating and Cooling Services Corp	Texas RE	United States
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NCR04141	Texas Municipal Power Agency	Texas RE	United States
NCR11456	Texas Municipal Power Agency	Texas RE	United States
NCR04143	Texas-New Mexico Power Co	Texas RE	United States
NCR04148	Trent Wind Farm LP	Texas RE	United States
NCR11205	Trinity Hills Wind Farm LLC	Texas RE	United States
NCR10277	Turkey Track Wind Energy Center	Texas RE	United States
NCR11495	TX Hereford Wind, LLC	Texas RE	United States
NCR11519	TX Jumbo Road Wind, LLC	Texas RE	United States
NCR04156	USACE - Tulsa District	Texas RE	United States
NCR10181	Victoria Electric Cooperative, INC.	Texas RE	United States
NCR11948	Victoria Port Power, LLC	Texas RE	United States
NCR04159	Victoria WLE LP	Texas RE	United States
NCR04160	Weatherford Municipal Utility System	Texas RE	United States
NCR01160	Western Farmers Electric Cooperative	Texas RE	United States
NCR11784	Willow Springs Windfarm, LLC	Texas RE	United States
NCR11074	Wind Energy Transmission Texas, LLC	Texas RE	United States
NCR11865	Wolf Hollow I Power, LLC	Texas RE	United States
NCR11506	Worley - Channelview Cogeneration	Texas RE	United States
NCR11826	54KR 8ME LLC	WECC	United States
NCR11634	62SK 8ME LLC	WECC	United States
NCR11643	63SU 8ME LLC	WECC	United States
NCR11921	64KT 8ME LLC	WECC	United States
NCR11645	AE Power Services LLC	WECC	United States
NCR05002	AES Alamitos, LLC	WECC	United States
NCR05004	AES Huntington Beach, LLC	WECC	United States
NCR05007	AES Redondo Beach LLC	WECC	United States
NCR11209	Agua Caliente Solar LLC	WECC	United States
NCR10042	Alameda Municipal Power	WECC	United States
NCR11785	Algonquin Power Co.	WECC	United States
NCR11258	Alta Wind VIII, LLC	WECC	United States
NCR11528	AltaGas Brush Energy Inc.	WECC	United States
NCR05363	AltaGas Ripon Energy Inc.	WECC	United States
NCR05014	Aragonne Wind LLC	WECC	United States
NCR05015	Arizona Electric Power Cooperative, Inc.	WECC	United States
NCR05016	Arizona Public Service Company	WECC	United States
NCR11426	Arlington Valley Solar Energy II, LLC	WECC	United States
NCR03051	Arlington Valley, LLC	WECC	United States
NCR03049	Arlington Valley, LLC - AVBA	WECC	United States
NCR11452	ASI Operations Inc	WECC	United States
NCR10259	Avangrid Renewables	WECC	United States
NCR05020	Avista Corporation	WECC	United States
NCR11118	Balancing Authority of Northern California	WECC	United States
NCR11411	Barrick Goldstrike Mines Inc.	WECC	United States
NCR05023	Basin Electric Power Cooperative	WECC	United States
NCR10194	BIV Generation Company, LLC	WECC	United States
NCR05030	Black Hills Corporation	WECC	United States
NCR11433	Blythe Energy Inc.	WECC	United States
NCR00086	Boise-Kuna Irrigation District	WECC	United States
NCR05032	Bonneville Power Administration	WECC	United States
NCR11676	Boulder Solar Power, LLC	WECC	United States
NCR05033	Bountiful City Light & Power	WECC	United States
	, ,		
NCR05039	Burney Forest Products, A Joint Venture	WECC	United States

NCR11170	Caithness Shepherds Flat, LLC	WECC	United States
NCR05047	California Department of Water Resources	WECC	United States
NCR11801	California Flats Solar, LLC	WECC	United States
NCR05048	California Independent System Operator	WECC	United States
NCR05053	CalPeak Power Panoche LLC	WECC	United States
NCR11940	Calpeak Power Panoche LLC	WECC	United States
NCR05054	CalPeak Power Vaca-Dixon LLC	WECC	United States
NCR11941	CalPeak Power Vaca-Dixon, LLC	WECC	United States
NCR11439	CalPECo	WECC	United States
NCR00006	Calpine Corporation	WECC	United States
NCR11626	CAMS - Garnet Valley	WECC	United States
NCR11680	Catalina Solar 2, LLC	WECC	United States
NCR11484	Catalina Solar, LLC	WECC	United States
NCR11775	CD Global Solar NC Sponsor, L.P.	WECC	United States
NCR11161	Cedar Creek II, LLC	WECC	United States
NCR10165	Cedar Creek Wind Energy, LLC	WECC	United States
NCR11271	Cedar Point Wind, LLC	WECC	United States
NCR11431	Centinela Solar Energy, LLC	WECC	United States
NCR05067	City of Anaheim	WECC	United States
NCR05069	City of Azusa	WECC	United States
NCR05072	City of Burbank	WECC	United States
NCR05074	City of Colton	WECC	United States
NCR05079	City of Fort Collins	WECC	United States
NCR05489	City of Gallup	WECC	United States
NCR05081	City of Glendale	WECC	United States
NCR05084	City of Idaho Falls Electric Light Division	WECC	United States
NCR05086	City of Longmont	WECC	United States
NCR05087	City of Loveland, Colorado	WECC	United States
NCR05089	City of Palo Alto	WECC	United States
NCR05090	City of Pasadena Water and Power	WECC	United States
NCR05091	City of Redding	WECC	United States
NCR05093	City of Riverside Public Utilities	WECC	United States
NCR05094	City of Roseville	WECC	United States
NCR11025	City of Spokane Waste-to-Energy Facility	WECC	United States
NCR05096	City of St George	WECC	United States
NCR05097	City of Tacoma, Department of Public Utilities, Light Division	WECC	United States
NCR05494	City of Ukiah	WECC	United States
NCR11883	Clearway Energy Operating LLC - Fossil	WECC	United States
NCR00769	Clearway Energy Operating, LLC	WECC	United States
NCR11829	Clearway Renew LLC	WECC	United States
NCR11926	Clearway Renewable Operation & Maintenance LLC	WECC	United States
NCR10311	Colorado Energy Management - BCP	WECC	United States
NCR00254	Colorado Energy Management - BIV	WECC	United States
NCR00296	Colorado Energy Management - CPP	WECC	United States
NCR10378	Colorado Energy Management - MPC	WECC	United States
NCR00339	Colorado Energy Management - RMP	WECC	United States
NCR11389	Colorado Highlands Wind, LLC	WECC	United States
NCR10195	Colorado Power Partners	WECC	United States
NCR05106	Colorado Springs Utilities	WECC	United States
NCR05107	Colstrip Energy Limited Partnership	WECC	United States
NCR10043	Columbia Basin Hydropower	WECC	United States
NCR11665	Comanche Solar PV, LLC	WECC	United States
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NCR11605	Consolidated Edison Development, Inc.	WECC	United States
NCR05115	Continental Divide Electric Cooperative	WECC	United States
NCR11290	Copper Mountain Solar 2, LLC	WECC	United States
NCR11290 NCR11476	Copper Mountain Solar 2, LLC  Copper Mountain Solar 3, LLC	WECC	United States
NCR11476 NCR11666	Copper Mountain Solar 4, LLC	WECC	United States
NCR05119	Coso Energy Developers	WECC	United States
NCR05119 NCR05120	<u> </u>	WECC	United States
NCR05120	Coso Finance Partners  Coso Power Developers	WECC	United States
	· ·	1	United States
NCR05123 NCR05124	Cowlitz County PUD No. 1	WECC	United States
	Crockett Cogeneration, a California Limited Partnership	WECC	United States
NCR11359 NCR11572	CSolar IV South, LLC  CSolar IV West, LLC	WECC	United States
NCR11372 NCR11922	CXA La Paloma, LLC	WECC	United States
NCR11922 NCR05169	CXA La Palonia, LEC  CXA Sundevil Holdco, Inc.	WECC	United States
NCR05109	Deseret Generation & Transmission Co-operative	WECC	United States
NCR00125	Descret Generation & Transmission Co-operative  DGC Operations, LLC	WECC	United States
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NCR11633	Dominion Solar Projects III, Inc.	WECC	United States
NCR10264	Duke Energy Renewables Services, LLC	WECC	United States
NCR11757	EDF RAH - Playa Solar, LLC	WECC	United States
NCR11441	EDF Renewable Service	WECC	United States
NCR11662	EDP Renewables North America LLC	WECC	United States
NCR05140	El Paso Electric Company	WECC	United States
NCR05143	Elk Hills Power, LLC	WECC	United States
NCR11531	Energia Sierra Juarez, S. de R.L. de C.V.	WECC	United States
NCR11568	Energy Keepers Incorporated	WECC	United States
NCR00209	Energy Northwest - Columbia	WECC	United States
NCR00250	Energy Northwest - Energy/Business Services	WECC	United States
NCR05232	Equilon Enterprises, LLC	WECC	United States
NCR05153	Eugene Water & Electric Board	WECC	United States
NCR11325	Exelon Generation Co. LLC	WECC	United States
NCR05154	Fall River Rural Electric/PNGC	WECC	United States
NCR05155	Farmington Electric Utility System	WECC	United States
NCR11326	First Solar Electric - AVSR1, LLC	WECC	United States
NCR11902	First Solar Electric - California Flats S, LLC	WECC	United States
NCR11394	First Solar Electric - CVS, LLC	WECC	United States
NCR11361	First Solar Electric - DSL, LLC	WECC	United States
NCR11358	First Solar Electric - ISECS, LLC	WECC	United States
NCR11758	First Solar Electric - Playa, LLC	WECC	United States
NCR11903	First Solar Electric - Techren Solar I, LLC	WECC	United States
NCR11343	First Solar Electric - TPZ, LLC	WECC	United States
NCR11907	First Solar Electric - Willow Springs LLC	WECC	United States
NCR11857	First Solar Electric – Mount Signal 3, LLC	WECC	United States
NCR11673	First Solar Electric-Astoria I, LLC	WECC	United States
NCR11677	First Solar Electric-Astoria II, LLC	WECC	United States
NCR11776	First Solar Electric-Beacon, LLC	WECC	United States
NCR11802	First Solar Electric-CA Flats N, LLC	WECC	United States
NCR11571	First Solar Electric-ISECSW, LLC	WECC	United States
NCR11609	First Solar Electric-Red Hills, LLC	WECC	United States
NCR11612	First Solar Electric-Stateline, LLC	WECC	United States
NCR05162	Fountain Valley Power, LLC	WECC	United States
NCR05164	Frederickson Power LP	WECC	United States
NCR11149	GenOn Energy Inc.	WECC	United States

NCR11372	Gila Bend Operations Company	WECC	United States
NCR05171	Glacier Electric Cooperative, Inc.	WECC	United States
NCR11703	Golden Fields Solar I, LLC	WECC	United States
NCR11703 NCR11089	Goshen Phase II LLC	WECC	United States
NCR11089 NCR05172	Grays Harbor County PUD	WECC	United States
NCR02551	Grays Harbor Energy LLC	WECC	United States
NCR11806	, 5,	WECC	United States
	Great Valley Solar Portfolio Holdings, LLC	<u> </u>	United States
NCR11393	Gridforce Energy Management, LLC GridLiance Holdco, LP	WECC	United States
NCR11783	,		United States
NCR03050	Griffith Energy, LLC	WECC	United States
NCR03052 NCR05177	Griffith Energy, LLC - GRGO	WECC	United States
NCR05177	Harbor Cogeneration Company, LLC	1	United States
	Hermiston Generating Co., L.P.	WECC	United States
NCR05182	Hetch Hetchy Water and Power		
NCR05184	High Desert Power Project, LLC	WECC	United States United States
NCR11304	High Plains Ranch II LLC	WECC	
NCR11744	Hill County Electric Cooperative, Inc.	WECC	United States
NCR05190	Holy Cross Energy	WECC	United States
NCR11443	Hudson Ranch Power I	WECC	United States
NCR05191	Idaho Power Company	WECC	United States
NCR11103	Idaho Wind Partners 1, LLC	WECC	United States
NCR05195	Imperial Irrigation District	WECC	United States
NCR11427	Imperial Valley Solar 1, LLC	WECC	United States
NCR11858	Imperial Valley Solar 3, LLC	WECC	United States
NCR05197	Indigo Generation, LLC	WECC	United States
NCR10267	Inland Empire Energy Center LLC	WECC	United States
NCR11226	Intermountain Rural Electric Association	WECC	United States
NCR11421	Ivanpah Master Holdings LLC	WECC	United States
NCR05503	Judith Gap Energy LLC	WECC	United States
NCR05204	Kern River Cogeneration Company	WECC	United States
NCR05504	KES-Kingsburg, LP	WECC	United States
NCR05505	Kings River Conservation District	WECC	United States
NCR05206	Klickitat County PUD	WECC	United States
NCR05507	La Plata Electric Association, Inc.	WECC	United States
NCR05213	Larkspur Energy, LLC	WECC	United States
NCR05216	Lassen Municipal Utility District	WECC	United States
NCR05223	Los Angeles Department of Water and Power	WECC	United States
NCR11467	Los Angeles Department of Water and Power - APEX	WECC	United States
NCR05225	Lower Valley Energy	WECC	United States
NCR10133	Luminant Energy Company LLC	WECC	United States
NCR11849	Luz Solar Partners Ltd. IX	WECC	United States
NCR11850	Luz Solar Partners Ltd. VIII	WECC	United States
NCR05229	Malacha Hydro Limited Partnership GOP	WECC	United States
NCR11942	Malaga Power, LLC	WECC	United States
NCR11542	Malaga Power, LLC	WECC	United States
NCR05231	Marchief Power Company LLC	WECC	United States
NCR11256	Mariposa Energy, LLC	WECC	United States
NCR11360	MATL LLP	WECC	United States
NCR11636	MaxGen Energy Services	WECC	United States
NCR11303	Meadow Creek Project Company LLC	WECC	United States
NCR05234	Merced Irrigation District	WECC	United States
NCR05235	Mesquite Power LLC	WECC	United States

NCR11273	Mesquite Solar 1, LLC	WECC	United States
NCR11273 NCR11672	Mesquite Solar 2, LLC	WECC	United States
NCR11672 NCR11661	Mesquite Solar 3, LLC	WECC	United States
NCR05236	Metropolitan Water District of Southern California	WECC	United States
NCR10323	Midway Peaking, LLC	WECC	United States
NCR10323	Midway Peaking, LLC	WECC	United States
NCR11943 NCR11803		WECC	United States
NCR05510	Midway Sunset Cognoration Company	WECC	United States
_	Midway Sunset Cogeneration Company	1	United States
NCR10394 NCR11697	Milford Wind Corridor Phase I, LLC  Moapa Southern Paiute Solar, LLC	WECC	United States
NCR11697 NCR05244		WECC	United States
NCR11463	Modesto Irrigation District  Mojave 16/17/18, LLC	WECC	United States
NCR11403	Mojave 3/4/5	WECC	United States
NCR01015	Montana-Dakota Utilities Company	WECC	United States
NCR01013	Mountain Air Projects, LLC	WECC	United States
NCR11328	• ,	WECC	United States
NCR11912 NCR05254	MRP - San Joaquin Energy, LLC	WECC	United States
NCR05254	Mt. Poso Cogeneration Co.		
	Municipal Energy Agency of Nebraska	WECC	United States
NCR05257	Murray City Corporation		United States
NCR11261	Mustang Hills, LLC  NAES - Panoche	WECC	United States
NCR11518		WECC	United States United States
NCR11936	NAES CalPeak Panoche	WECC	
NCR11937	NAES CalPeak Power Vaca-Dixon	WECC	United States
NCR11306	NAES Corporation - Ferndale	WECC	United States
NCR11104	NAES Corporation - Harvest Wind Project	WECC	United States
NCR11632	NAES Corporation - High Desert Power Project	WECC	United States
NCR11929	NAES Corporation - Kern River	WECC	United States
NCR11589	NAES Corporation - Plains End	WECC	United States
NCR11590	NASS Corporation - Rathdrum Power	WECC	United States United States
NCR11830	NAES Corporation - Sunnyside Cogeneration	WECC	United States
NCR11928 NCR00418	NAES Corporation - Sycamore	WECC	United States
	NAES Corporation - White Creek Wind 1	WECC	United States
NCR11938	NAES Midway Pooling	WECC	United States
NCR11939 NCR11913	NAES Midway Peaking  NAES San Joaquin	WECC	United States
NCR05515	National Nuclear Security Administration - Los Alamos National Laboratory	WECC	United States
NCKU3313	National Nuclear Security Administration - Los Alamos National Laboratory	WECC	Officed States
NCR10260	National Nuclear Security Administration and Sandia National Laboratories -	WECC	United States
NCR00257	NaturEner Power Watch, LLC	WECC	United States
NCR10395	NaturEner Power Watch, LLC (GWA)	WECC	United States
NCR11272	NaturEner Rim Rock Energy, LLC	WECC	United States
NCR11382	NaturEner Wind Watch, LLC	WECC	United States
NCR10044	Nevada Cogeneration Associates #1	WECC	United States
NCR11469	Nevada Irrigation District	WECC	United States
NCR05261	Nevada Power Company	WECC	United States
NCR11395	Nevada Solar One, LLC	WECC	United States
NCR05263	New Harquahala Generating Company, LLC	WECC	United States
NCR02552	New Harquahala Generating Company, LLC - HGBA	WECC	United States
NCR00377	Newmont Nevada Energy Investment, LLC	WECC	United States
NCR10019	NextEra Energy Resources, LLC	WECC	United States
NCR11927	North Rosamond Solar, LLC	WECC	United States

NRCR05280 Northern Wasco Country People's Utility District NRCR1667 NorthStar Energy Management, LLC NRCR05281 Northwest Power Pool Reserve Sharing Group NRCR05282 Northwest Power Pool Reserve Sharing Group NRCR05282 Northwest Power Pool Reserve Sharing Group NRCR05283 Northwest Power Pool Reserve Sharing Group NRCR05284 NRCR05282 Northwestern Corporation NRCR05284 NRC Energy Services, LLC - Carlabad NRCR05284 NRC Energy Services, LLC - Carlabad NRCR05284 NRC Energy Services, LLC - El Segundo NRCR05281 NRC Energy Services, LLC - El Segundo NRCR05281 NRC Energy Services, LLC - El Segundo NRCR05280 NRCR05281 NRC Energy Services, LLC - El Segundo NRCR05280 NRCR05280 Oper8minute, LLC NRCR11520 Oper8minute, LLC NRCR11520 Oper8minute, LLC NRCR11520 Orage Grove Energy, LP. WECC United States NRCR11521 Orage Grove Energy, LP. WECC United States NRCR11522 Orage Grove Energy, LP. WECC United States NRCR11521 ORN 39 LLC WECC United States NRCR11521 ORN 39 LLC WECC United States NRCR11521 ORN 41 WECC United States NRCR11521 ORN 47 LLC WECC United States NRCR11523 ORN 47 LLC WECC United States NRCR11529 ORN 47 LLC WECC United States NRCR11629 Pacific Gas and Electric Company WECC United States NRCR11642 Pacific Wind WECC United States NRCR11644 Pacific Wind WECC United States NRCR11647 Pacific Wind WECC United States NRCR11648 Pacific Wind WECC United States NRCR11649 Pacific Wind WECC United States NRCR11640 Pacific Wind WECC United States NRCR11	NCB0E270	Northern California Dower Agency	WECC	United States
NCR11567 Northwest Power Pool Reserve Sharing Group WECC United States NCR05281 Northwest Power Pool Reserve Sharing Group WECC United States NCR05282 Northwestern Corporation WECC United States NCR01584 NRS Energy Services, LLC - Carlsbad WECC United States NCR11484 NRS Energy Services, LLC - Carlsbad WECC United States NCR11484 NRS Energy Services, LLC - Marsh Landing WECC United States NCR05141 NRG Energy Services, LLC - Marsh Landing WECC United States NCR05141 NRG Energy Services, LLC - Marsh Landing WECC United States NCR11150 NRS Energy Services, LLC - Marsh Landing WECC United States NCR11150 NRS Energy Services, LLC - Marsh Landing WECC United States NCR111520 Opperationate, LLC WECC United States NCR111521 Orange Grove Energy, L.P. WECC United States NCR111521 Orange Grove Energy, L.P. WECC United States NCR05287 Oragon Trail Electric Consumers Cooperative WECC United States NCR11521 ORNI 39 LLC WECC United States NCR11521 ORNI 43 LLC WECC United States NCR11521 ORNI 43 LLC WECC United States NCR11521 ORNI 43 LLC WECC United States NCR11628 ORNI 41 LL WECC United States NCR11628 ORNI 42 LLC WECC United States NCR11624 ORNI 47 LLC WECC United States NCR11624 ORNI 47 LLC WECC United States NCR11624 Pacific Wind WECC United States NCR11644 Pacific Wind WECC United States NCR11645 Pacific Wind WECC United States NCR11644 Pacific Wind WECC United States NCR11644 Pacific Wind Wind WECC United States NCR1	NCR05278	Northern California Power Agency	WECC	
NCR05281 Northwest Power Pool Reserve Sharing Group WECC United States NCR05282 Northwestern Corporation WECC United States NCR1854 NRG Energy Services, LLC - Caribad WECC United States NCR11854 NRG Energy Services, LLC - Caribad WECC United States NCR01148 NRG Energy Services, LLC - El Segundo WECC United States NCR011410 NRG Energy Services, LLC - El Segundo WECC United States NCR01150 NRG Energy Services, LLC - El Segundo WECC United States NCR1150 NRG Energy Services, LLC - El Segundo WECC United States NCR11920 Operâminute, LLC WECC United States NCR11920 Operâminute, LLC WECC United States NCR11920 Orange Grove Energy, L.P. WECC United States NCR05287 Orange Grove Energy, L.P. WECC United States NCR01521 ORAN 39 LLC WECC United States NCR01521 ORAN 31 LLC WECC United States NCR11881 ORAN 31 LLC WECC United States NCR11882 ORAN 31 LLC WECC United States NCR11882 ORAN 32 LLC WECC United States NCR01399 ORAN 32 LLC WECC United States NCR01399 Orange States NCR05299 Pacific Gas and Electric Company WECC United States NCR05299 Pacific Gas and Electric Company WECC United States NCR05299 Pacific Gas and Electric Company WECC United States NCR05290 Pacific Gas and Electric Company WECC United States NCR01344 Paclouse Wind, LLC WECC United States NCR01347 Pache Energy Center LLC WECC United States NCR01344 Paclouse Wind, LLC WECC United States NCR01347 Pache Energy Center LLC WECC United States NCR01349 Pack Reliability WECC United States NCR03315 Pend Original Company NCEC United States NCR03320 Pack Reliability NC	H			
NCR05282   NorthWestern Corporation				<del> </del>
NCR11454 NRG Energy Services, LLC - Carlsbad WECC United States NCR11148 NRG Energy Services, LLC - El Segundo WECC United States NCR111410 NRG Energy Services, LLC - El Segundo WECC United States NCR11150 NRG Energy Services, LLC - El Segundo WECC United States NCR11150 NRG Energy Services, LLC - El Segundo WECC United States NCR11920 Operaminute, LLC WECC United States NCR11920 Operaminute, LLC WECC United States NCR11920 Orange Grove Energy, LP. WECC United States NCR11932 Orange Grove Energy, LP. WECC United States NCR05287 Oragen Trail Electric Consumers Cooperative WECC United States NCR05287 Oragen Trail Electric Consumers Cooperative WECC United States NCR11931 ORNI 39 LLC WECC United States NCR11933 ORNI 43 LLC WECC United States NCR11933 ORNI 43 LLC WECC United States NCR11933 ORNI 43 LLC WECC United States NCR11939 ORNI 43 LLC WECC United States NCR11939 ORNI 43 LLC WECC United States NCR01939 Pacific Gas and Electric Company WECC United States NCR05299 Pacific Gas and Electric Company WECC United States NCR11442 Pacific Gas and Electric Company WECC United States NCR11442 Pacific Gas and Electric Company WECC United States NCR11444 Pacific Gas And Electric Company WECC United States NCR11444 Palouse Wind, LLC WECC United States NCR05304 Pacific Utrapower Chinese Station WECC United States NCR05304 Pacific United States NCR05304 Pacific United States NCR05304 Pacific United States NCR05304 Pacific United States NCR05305 Pa	<b>—</b>			<del> </del>
NCR11148 NRG Energy Services, LLC – Walnut Creek WECC United States NCR05141 NRG Energy Services, LLC – March Landing WECC United States NCR11500 NRG Energy Services, LLC – March Landing WECC United States NCR11520 Operations. LLC WECC United States NCR11920 Operations. LLC WECC United States NCR11352 Orange Grove Energy, LP, WECC United States NCR05287 Oregon Trial Electric Consumers Cooperative WECC United States NCR05287 Oregon Trial Electric Consumers Cooperative WECC United States NCR11521 ORN 39 LLC WECC United States NCR11831 ORN 13 LLC WECC United States NCR11839 ORN 143 LLC WECC United States NCR11839 ORN 143 LLC WECC United States NCR11839 ORN 147 LLC WECC United States NCR11839 ORN 147 LLC WECC United States NCR118412 ORN 147 LLC WECC United States NCR11842 ORN 147 LLC WECC United States NCR11842 ORN 147 LLC WECC United States NCR118442 Pacific Wind WECC United States NCR118442 Pacific Wind WECC United States NCR118444 Pacific Wind WECC United States NCR118444 Pacific Wind WECC United States NCR11844 Pacific Wind WECC United States NCR		•		
NCR05141   NRG Energy Services, LLC — El Segundo   WECC   United States   NCR11150   NRG Energy Services, LLC — Marsh Landing   WECC   United States   NCR11150   Oper@minute, LLC   WECC   United States   NCR11352   Orange Grove Energy, L.P.   WECC   United States   NCR11352   Orange Grove Energy, L.P.   WECC   United States   NCR05287   Oregon Trail Electric Consumers Cooperative   WECC   United States   NCR05287   Oregon Trail Electric Consumers Cooperative   WECC   United States   NCR11351   ORN 13 LLC   WECC   United States   NCR11839   ORN 141   WECC   United States   NCR11839   ORN 141   WECC   United States   NCR11839   ORN 143 LLC   WECC   United States   NCR11839   ORN 143 LLC   WECC   United States   NCR11412   ORN 147 LLC   WECC   United States   NCR11412   ORN 147 LLC   WECC   United States   NCR05299   Pacific Gas and Electric Company   WECC   United States   NCR05299   Pacific Gas and Electric Company   WECC   United States   NCR05299   Pacific Gas and Electric Company   WECC   United States   NCR11442   Pacific Wind   WECC   United States   NCR11444   Pacific Wind   WECC   United States   NCR11444   Pacific Wind   WECC   United States   NCR05304   Pacific Gas   Pacific Gas   WECC   United States   NCR11344   Pacific Wind   Pacific Orp   WECC   United States   NCR11344   Pacific Wind   Pacific Orp   WECC   United States   NCR11344   Pacific Wind   Pacific Wind   WECC   United States   NCR11344   Pacific Wind   WECC   United States   NCR11347   Panche Energy Center LLC   WECC   United States   NCR11349   Pacific Gas   Pacific Wind   WECC   United States   NCR11349   Pacific Wind   WECC   United States   NCR11350   Pacific Wind   WECC   United States   NCR11350   Pinyon Pines Wind II, LLC   WECC   United States   NCR11350   Pinyon Pines Wind II, LLC   WECC   United States   NCR11350   Pinyon Pines Wind II, LLC	<b>—</b>	5,		
NCR11150   NRG Energy Services, LLC - Marsh Landing   WECC   United States   NCR11252   Orange Grove Energy, L.P.   WECC   United States   NCR11352   Orange Grove Energy, L.P.   WECC   United States   NCR05287   Oregon Trail Electric Consumers Cooperative   WECC   United States   NCR05287   Oregon Trail Electric Consumers Cooperative   WECC   United States   NCR11521   ORNI 39 LLC   WECC   United States   NCR11521   ORNI 39 LLC   WECC   United States   NCR11839   ORNI 43 LLC   WECC   United States   NCR11839   ORNI 43 LLC   WECC   United States   NCR11412   ORNI 47 LLC   WECC   United States   NCR011412   ORNI 47 LLC   WECC   United States   NCR011422   ORNI 47 LLC   WECC   United States   NCR010396   Otay Mesa Energy Center, LLC   WECC   United States   NCR010396   Otay Mesa Energy Center, LLC   WECC   United States   NCR011424   Pacific Wind   WECC   United States   NCR011424   Pacific Wind   WECC   United States   NCR011424   Pacific Wind   WECC   United States   NCR011444   Palouse Wind, LLC   WECC   United States   NCR011644   Parrey, LLC   WECC   United States   NCR011644   Parrey, LLC   WECC   United States   NCR011644   Parrey, LLC   WECC   United States   NCR011654   Peach   Pack   NCR011655   Peach   NCR011655   Peach   NCR011655   Pio Pico Energy Center, LLC   WECC   United States   NCR011350   Pilot Pilot Pilot Will Water Agency   WECC   United States   NCR011350   Pilot P		<u> </u>		
NCR11930				
NCR11352   Orange Grove Energy, L.P.   WECC   United States   NCR05287   Oregon Trail Electric Consumers Cooperative   WECC   United States   NCR011521   ORN 139 LLC   WECC   United States   NCR11881   ORN 141   WECC   United States   NCR11839   ORN 143 LLC   WECC   United States   NCR11839   ORN 143 LLC   WECC   United States   NCR11412   ORN 147 LLC   WECC   United States   NCR011412   ORN 147 LLC   WECC   United States   NCR05299   Pacific Gas and Electric Company   WECC   United States   NCR01142   Pacific Gas and Electric Company   WECC   United States   NCR01142   Pacific Ultrapower Chinese Station   WECC   United States   NCR01144   Pacific Ultrapower Chinese Station   WECC   United States   NCR01144   Palouse Wind, LLC   WECC   United States   NCR010347   Panoche Energy Center LLC   WECC   United States   NCR010347   Panoche Energy Center LLC   WECC   United States   NCR010347   Panoche Energy Center LLC   WECC   United States   NCR011644   Parrey, LLC   WECC   United States   NCR011644   Parrey, LLC   WECC   United States   NCR011649   Pack Reliability   WECC   United States   NCR011659   Pack Reliability   WECC   United States   NCR011659   Pack Reliability   WECC   United States   NCR011659   Pack Origin Penal Wind I, LLC   WECC   United States   NCR011347   Pinyon Pines Wind I, LLC   WECC   United States   NCR011347   Pinyon Pines Wind II, LLC   WECC   United States   NCR011347   Pinyon Pines Wind II, LLC   WECC   United States   NCR011347   Pinyon Pines Wind II, LLC   WECC   United States   NCR011347   Pinyon Pines Wind II, LLC   WECC   United States   NCR011347   Pinyon Pines Wind II, LLC   WECC   United States   NCR011340   Pinyon Pines Wind II, LLC   WECC   United States   NCR011340   Pinyon Pines Wind II, LLC   WECC   United States   NCR01322   Pinyon Pines Wind II, LLC   WECC   United States   NCR00332   Pinyon Pines Wind II, LLC   WECC   United S	<b>—</b>			
NCR05287   Oregon Trail Electric Consumers Cooperative   WECC   United States   NCR11521   ORN 39 LLC   WECC   United States   NCR11839   ORNI 43 LLC   WECC   United States   NCR11839   ORNI 43 LLC   WECC   United States   NCR11839   ORNI 43 LLC   WECC   United States   NCR118412   ORNI 47 LLC   WECC   United States   NCR11412   ORNI 47 LLC   WECC   United States   NCR10396   Otay Meas Energy Center, LLC   WECC   United States   NCR05299   Pacific Gas and Electric Company   WECC   United States   NCR05299   Pacific Gas and Electric Company   WECC   United States   NCR11279   Pacific-Ultrapower Chinese Station   WECC   United States   NCR11279   Pacific-Ultrapower Chinese Station   WECC   United States   NCR11279   Pacific-Ultrapower Chinese Station   WECC   United States   NCR11344   Palouse Wind, LLC   WECC   United States   NCR11344   Palouse Wind, LLC   WECC   United States   NCR11344   Panoche Energy Center LLC   WECC   United States   NCR11644   Parrey, LLC   WECC   United States   NCR11644   Parrey, LLC   WECC   United States   NCR11644   Parrey, LLC   WECC   United States   NCR11688   Pattern Operators IP   WECC   United States   NCR11689   Peak Reliability   WECC   United States   NCR11699   Peak Reliability   WECC   United States   NCR11699   Peak Reliability   WECC   United States   NCR11350   Pend Oreille County Public Utility District No. 1   WECC   United States   NCR11350   Pinyon Pines Wind II, LLC   WECC   United States   NCR11350   Pinyon Pines Wind II, LLC   WECC   United States   NCR11350   Pinyon Pines Wind II, LLC   WECC   United States   NCR11350   Pinyon Pines Wind II, LLC   WECC   United States   NCR11350   Pinyon Pines Wind II, LLC   WECC   United States   NCR11350   Pinyon Pines Wind II, LLC   WECC   United States   NCR01320   Pilars End, LLC   WECC   United States   NCR01321   Pilate River Power Authority   WECC   United States   NCR03321   Pilate River Power Authority   WECC   United States   NCR03322   Pilamas-Sierra Rural Electric Cooperative   WECC   United States   NCR03333   P	<b>—</b>	·		+
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NCR05304         Pacificorp         WECC         United States           NCR11344         Palouse Wind, LLC         WECC         United States           NCR10347         Panoche Energy Center LLC         WECC         United States           NCR11644         Parrey, LLC         WECC         United States           NCR11808         Pattern Operators LP         WECC         United States           NCR10289         Peak Reliability         WECC         United States           NCR05315         Pend Oreille County Public Utility District No. 1         WECC         United States           NCR11595         PIC Group, Inc Tonopah         WECC         United States           NCR11347         Pinyon Pines Wind II, LLC         WECC         United States           NCR11350         Pinyon Pines Wind II, LLC         WECC         United States           NCR11420         Placer County Water Agency         WECC         United States           NCR01420         Placer County Water Agency         WECC         United States           NCR03321         Plains End, LLC         WECC         United States           NCR05322         Pilains End II, LLC         WECC         United States           NCR05321         Plate River Power Authority         WECC         <				United States
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NCR11644         Partery, LLC         WECC         United States           NCR11808         Pattern Operators LP         WECC         United States           NCR10289         Peak Reliability         WECC         United States           NCR05315         Pend Oreille County Public Utility District No. 1         WECC         United States           NCR11995         PIC Group, Inc Tonopah         WECC         United States           NCR11347         Pinyon Pines Wind II, LLC         WECC         United States           NCR11350         Pinyon Pines Wind II, LLC         WECC         United States           NCR11652         Pio Pico Energy Center, LLC         WECC         United States           NCR11420         Placer County Water Agency         WECC         United States           NCR00322         Plains End, LLC         WECC         United States           NCR05320         Plains End, LLC         WECC         United States           NCR05321         Platte River Power Authority         WECC         United States           NCR05322         Plumas-Sierra Rural Electric Cooperative         WECC         United States           NCR05325         Portland General Electric Company         WECC         United States           NCR05332         Provo City Corpor	NCR11344	Palouse Wind, LLC	WECC	United States
NCR11808 Pattern Operators LP WECC United States NCR10289 Peak Reliability WECC United States NCR05315 Pend Oreille County Public Utility District No. 1 WECC United States NCR05315 Pend Oreille County Public Utility District No. 1 WECC United States NCR11395 PIC Group, Inc Tonopah WECC United States NCR11347 Pinyon Pines Wind I, LLC WECC United States NCR11347 Pinyon Pines Wind I, LLC WECC United States NCR11350 Pinyon Pines Wind II, LLC WECC United States NCR11652 Pio Pico Energy Center, LLC WECC United States NCR11652 Pio Pico Energy Center, LLC WECC United States NCR11420 Placer County Water Agency WECC United States NCR00082 Plains End II, LLC WECC United States NCR00320 Plains End, LLC WECC United States NCR05321 Piate River Power Authority WECC United States NCR05322 Plumas-Sierra Rural Electric Cooperative WECC United States NCR05322 Plumas-Sierra Rural Electric Cooperative WECC United States NCR05325 Portland General Electric Company WECC United States NCR05325 Portland General Electric Company WECC United States NCR05332 Provo City Corporation WECC United States NCR05332 Provo City Corporation WECC United States NCR05531 Public Service Company of Colorado WECC United States NCR05333 Public Service Company of New Mexico WECC United States NCR05333 Public Service Company of New Mexico WECC United States NCR05333 Public Utility District No. 1 of Benton County WECC United States NCR05334 Public Utility District No. 1 of Clark County WECC United States NCR05334 Public Utility District No. 1 of Clark County WECC United States NCR05335 Public Utility District No. 1 of Clark County WECC United States NCR05335 Public Utility District No. 1 of Oxnopamic County WECC United States NCR05336 Public Utility District No. 1 of Oxnopamic County WECC United States NCR05336 Public Utility District No. 1 of Oxnopamic County WECC United States NCR05336 Public Utility District No. 1 of Oxnopamic County WECC United States NCR05343 Public Utility District No. 1 of Oxnopamic County WECC United States NCR05344 Public Utility D	NCR10347	Panoche Energy Center LLC	WECC	United States
NCR10289 Peak Reliability WECC United States NCR05315 Pend Oreille County Public Utility District No. 1 WECC United States NCR11595 PIC Group, Inc Tonopah WECC United States NCR11347 Pinyon Pines Wind I, LLC WECC United States NCR11350 Pinyon Pines Wind II, LLC WECC United States NCR11350 Pinyon Pines Wind II, LLC WECC United States NCR11350 Pinyon Pines Wind II, LLC WECC United States NCR11652 Pio Pico Energy Center, LLC WECC United States NCR11420 Placer County Water Agency WECC United States NCR0082 Plains End II, LLC WECC United States NCR00320 Plains End, LLC WECC United States NCR05321 Platte River Power Authority WECC United States NCR05322 Plumas-Sierra Rural Electric Cooperative WECC United States NCR05325 Portland General Electric Company WECC United States NCR05325 Portland General Electric Company WECC United States NCR05332 Provo City Corporation WECC United States NCR05332 Provo City Corporation WECC United States NCR05332 Provo City Corporation WECC United States NCR05333 Public Service Company of New Mexico WECC United States NCR05333 Public Service Company of New Mexico WECC United States NCR05331 Public Utility District Mo. 1 of Benton County WECC United States NCR05338 Public Utility District No. 1 of Clark County WECC United States NCR05338 Public Utility District No. 1 of Clark County WECC United States NCR05334 Public Utility District No. 1 of Okanogan County WECC United States NCR05335 Public Utility District No. 1 of Okanogan County WECC United States NCR05335 Public Utility District No. 1 of Okanogan County WECC United States NCR05340 Public Utility District No. 1 of Okanogan County WECC United States NCR05341 Public Utility District No. 1 of Okanogan County WECC United States NCR05342 Public Utility District No. 1 of Downshish County WECC United States NCR05344 Public Utility District No. 1 of Downshish County WECC United States NCR05344 Public Utility District No. 1 of Downshish County WECC United States	NCR11644	Parrey, LLC	WECC	United States
NCR05315       Pend Oreille County Public Utility District No. 1       WECC       United States         NCR11595       PIC Group, Inc Tonopah       WECC       United States         NCR11347       Pinyon Pines Wind I, LLC       WECC       United States         NCR11350       Pinyon Pines Wind II, LLC       WECC       United States         NCR11652       Pio Pico Energy Center, LLC       WECC       United States         NCR11420       Placer County Water Agency       WECC       United States         NCR00822       Plains End II, LLC       WECC       United States         NCR05320       Plains End, LLC       WECC       United States         NCR05321       Platte River Power Authority       WECC       United States         NCR05322       Plumas-Sierra Rural Electric Cooperative       WECC       United States         NCR05325       Portland General Electric Company       WECC       United States         NCR05325       Portland General Electric Company       WECC       United States         NCR05326       Provo City Corporation       WECC       United States         NCR05332       Provo City Corporation       WECC       United States         NCR05333       Public Service Company of New Mexico       WECC       United States	NCR11808	Pattern Operators LP	WECC	United States
NCR11595 PIC Group, Inc Tonopah WECC United States NCR11347 Pinyon Pines Wind I, LLC WECC United States NCR11350 Pinyon Pines Wind II, LLC WECC United States NCR11652 Pio Pico Energy Center, LLC WECC United States NCR11620 Pilacer County Water Agency WECC United States NCR11420 Placer County Water Agency WECC United States NCR10082 Plains End II, LLC WECC United States NCR00820 Plains End, LLC WECC United States NCR05320 Plains End, LLC WECC United States NCR05321 Plate River Power Authority WECC United States NCR05322 Plumas-Sierra Rural Electric Cooperative WECC United States NCR05322 Portland General Electric Company WECC United States NCR05325 Portland General Electric Company WECC United States NCR05325 Powder River Energy Corporation WECC United States NCR05332 Provo City Corporation WECC United States NCR05333 Public Service Company of Colorado WECC United States NCR05333 Public Service Company of New Mexico WECC United States NCR05330 Public Utility District #1 of Lewis County WECC United States NCR05337 Public Utility District No. 1 of Benton County WECC United States NCR05338 Public Utility District No. 1 of Chelan County WECC United States NCR05334 Public Utility District No. 1 of Clark County WECC United States NCR05335 Public Utility District No. 1 of Okanogan County WECC United States NCR05336 Public Utility District No. 1 of Okanogan County WECC United States NCR05336 Public Utility District No. 1 of Okanogan County WECC United States NCR05336 Public Utility District No. 1 of Okanogan County WECC United States NCR05340 Public Utility District No. 1 of Okanogan County WECC United States NCR05342 Public Utility District No. 1 of Okanogan County WECC United States NCR05344 Public Utility District No. 1 of Okanogan County WECC United States NCR05344 Public Utility District No. 1 of Okanogan County WECC United States NCR05344 Public Utility District No. 1 of Okanogan County WECC United States NCR05344 Public Utility District No. 1 of Okanogan County WECC United States NCR05344 Public Utility Distric	NCR10289	Peak Reliability	WECC	United States
NCR11347       Pinyon Pines Wind I, LLC       WECC       United States         NCR11350       Pinyon Pines Wind II, LLC       WECC       United States         NCR11652       Pio Pico Energy Center, LLC       WECC       United States         NCR11420       Placer County Water Agency       WECC       United States         NCR00082       Plains End II, LLC       WECC       United States         NCR05320       Platte River Power Authority       WECC       United States         NCR05321       Platte River Power Authority       WECC       United States         NCR05322       Plumas-Sierra Rural Electric Cooperative       WECC       United States         NCR05325       Portland General Electric Company       WECC       United States         NCR05326       Portland General Electric Company       WECC       United States         NCR05332       Powder River Energy Corporation       WECC       United States         NCR05332       Provo City Corporation       WECC       United States         NCR05332       Public Service Company of Colorado       WECC       United States         NCR05333       Public Service Company of New Mexico       WECC       United States         NCR053340       Public Utility District #10 f Lewis County       WECC	NCR05315	Pend Oreille County Public Utility District No. 1	WECC	United States
NCR11350 Pinyon Pines Wind II, LLC WECC United States NCR11652 Pio Pico Energy Center, LLC WECC United States NCR11420 Placer County Water Agency WECC United States NCR00082 Plains End II, LLC WECC United States NCR05320 Plains End, LLC WECC United States NCR05321 Plate River Power Authority WECC United States NCR05322 Plumas-Sierra Rural Electric Cooperative WECC United States NCR05322 Portland General Electric Company WECC United States NCR05325 Portland General Electric Company WECC United States NCR05326 Provo City Corporation WECC United States NCR05332 Provo City Corporation WECC United States NCR05332 Provo City Corporation WECC United States NCR05521 Public Service Company of Colorado WECC United States NCR05521 Public Service Company of New Mexico WECC United States NCR05333 Public Service Company of New Mexico WECC United States NCR05334 Public Utility District #1 of Lewis County WECC United States NCR05337 Public Utility District No. 1 of Benton County WECC United States NCR05338 Public Utility District No. 1 of Chelan County WECC United States NCR05334 Public Utility District No. 1 of Clark County WECC United States NCR05334 Public Utility District No. 1 of Okanogan County WECC United States NCR05335 Public Utility District No. 1 of Snohomish County WECC United States NCR05335 Public Utility District No. 1 of Snohomish County WECC United States NCR05335 Public Utility District No. 1 of Snohomish County WECC United States NCR05342 Public Utility District No. 1 of Mhatcom County WECC United States NCR05342 Public Utility District No. 2 of Grant County, Washington WECC United States NCR05344 Puget Sound Energy, Inc.	NCR11595	PIC Group, Inc Tonopah	WECC	United States
NCR11652Pio Pico Energy Center, LLCWECCUnited StatesNCR11420Placer County Water AgencyWECCUnited StatesNCR00082Plains End II, LLCWECCUnited StatesNCR05320Plains End, LLCWECCUnited StatesNCR05321Platte River Power AuthorityWECCUnited StatesNCR05322Plumas-Sierra Rural Electric CooperativeWECCUnited StatesNCR05325Portland General Electric CompanyWECCUnited StatesNCR05325Powder River Energy CorporationWECCUnited StatesNCR05332Provo City CorporationWECCUnited StatesNCR05332Public Service Company of ColoradoWECCUnited StatesNCR05521Public Service Company of New MexicoWECCUnited StatesNCR05333Public Utility District #1 of Lewis CountyWECCUnited StatesNCR05340Public Utility District No. 1 of Benton CountyWECCUnited StatesNCR05338Public Utility District No. 1 of Chelan CountyWECCUnited StatesNCR05334Public Utility District No. 1 of Chelan CountyWECCUnited StatesNCR05335Public Utility District No. 1 of Okanogan CountyWECCUnited StatesNCR05335Public Utility District No. 1 of Snohomish CountyWECCUnited StatesNCR05342Public Utility District No. 2 of Grant County, WashingtonWECCUnited StatesNCR05344Public Utility District No. 2 of Grant County, WashingtonWECCUnited States <td>NCR11347</td> <td>Pinyon Pines Wind I, LLC</td> <td>WECC</td> <td>United States</td>	NCR11347	Pinyon Pines Wind I, LLC	WECC	United States
NCR11420 Placer County Water Agency WECC United States NCR00082 Plains End II, LLC WECC United States NCR05320 Plains End, LLC WECC United States NCR05321 Platte River Power Authority WECC United States NCR05322 Plumas-Sierra Rural Electric Cooperative WECC United States NCR05325 Portland General Electric Company WECC United States NCR05325 Power River Energy Corporation WECC United States NCR011745 Powder River Energy Corporation WECC United States NCR05332 Provo City Corporation WECC United States NCR05332 Public Service Company of Colorado WECC United States NCR05333 Public Service Company of New Mexico WECC United States NCR05333 Public Utility District #1 of Lewis County WECC United States NCR05340 Public Utility District #1 of Lewis County WECC United States NCR05337 Public Utility District No. 1 of Benton County WECC United States NCR05338 Public Utility District No. 1 of Clark County WECC United States NCR05334 Public Utility District No. 1 of Clark County WECC United States NCR05334 Public Utility District No. 1 of Okanogan County WECC United States NCR05335 Public Utility District No. 1 of Snohomish County WECC United States NCR05335 Public Utility District No. 1 of Whatcom County WECC United States NCR05322 Public Utility District No. 2 of Grant County, Washington WECC United States NCR05344 Public Utility District No. 2 of Grant County, Washington WECC United States NCR05344 Public Utility District No. 2 of Grant County, Washington WECC United States NCR05344 Public Utility District No. 2 of Grant County, Washington WECC United States NCR05344 Public Utility District No. 2 of Grant County, Washington WECC United States	NCR11350	Pinyon Pines Wind II, LLC	WECC	United States
NCR00082 Plains End II, LLC WECC United States NCR05320 Plains End, LLC WECC United States NCR05321 Platte River Power Authority WECC United States NCR05322 Plumas-Sierra Rural Electric Cooperative WECC United States NCR05325 Portland General Electric Company WECC United States NCR05326 Powder River Energy Corporation WECC United States NCR05332 Provo City Corporation WECC United States NCR05332 Provo City Corporation WECC United States NCR05521 Public Service Company of Colorado WECC United States NCR05333 Public Service Company of New Mexico WECC United States NCR05333 Public Utility District #1 of Lewis County WECC United States NCR05340 Public Utility District #1 of Lewis County WECC United States NCR05337 Public Utility District No. 1 of Benton County WECC United States NCR05338 Public Utility District No. 1 of Chelan County WECC United States NCR05334 Public Utility District No. 1 of Clark County WECC United States NCR05344 Public Utility District No. 1 of Okanogan County WECC United States NCR05355 Public Utility District No. 1 of Snohomish County WECC United States NCR05522 Public Utility District No. 1 of Whatcom County WECC United States NCR05342 Public Utility District No. 2 of Grant County, Washington WECC United States NCR05344 Puget Sound Energy, Inc. WECC United States	NCR11652	Pio Pico Energy Center, LLC	WECC	United States
NCR05320Plains End, LLCWECCUnited StatesNCR05321Platte River Power AuthorityWECCUnited StatesNCR05322Plumas-Sierra Rural Electric CooperativeWECCUnited StatesNCR05325Portland General Electric CompanyWECCUnited StatesNCR11745Powder River Energy CorporationWECCUnited StatesNCR05332Provo City CorporationWECCUnited StatesNCR05521Public Service Company of ColoradoWECCUnited StatesNCR05333Public Service Company of New MexicoWECCUnited StatesNCR05340Public Utility District #1 of Lewis CountyWECCUnited StatesNCR05337Public Utility District No. 1 of Benton CountyWECCUnited StatesNCR05338Public Utility District No. 1 of Chelan CountyWECCUnited StatesNCR05334Public Utility District No. 1 of Clark CountyWECCUnited StatesNCR05335Public Utility District No. 1 of Okanogan CountyWECCUnited StatesNCR05335Public Utility District No. 1 of Snohomish CountyWECCUnited StatesNCR05322Public Utility District No. 1 of Whatcom CountyWECCUnited StatesNCR05342Public Utility District No. 2 of Grant County, WashingtonWECCUnited StatesNCR05344Puget Sound Energy, Inc.WECCUnited States	NCR11420	Placer County Water Agency	WECC	United States
NCR05321 Platte River Power Authority WECC United States NCR05322 Plumas-Sierra Rural Electric Cooperative WECC United States NCR05325 Portland General Electric Company WECC United States NCR11745 Powder River Energy Corporation WECC United States NCR05332 Provo City Corporation WECC United States NCR05332 Provo City Corporation WECC United States NCR05521 Public Service Company of Colorado WECC United States NCR05333 Public Service Company of New Mexico WECC United States NCR05333 Public Utility District #1 of Lewis County WECC United States NCR05340 Public Utility District #1 of Lewis County WECC United States NCR05337 Public Utility District No. 1 of Benton County WECC United States NCR05338 Public Utility District No. 1 of Chalan County WECC United States NCR05334 Public Utility District No. 1 of Clark County WECC United States NCR05334 Public Utility District No. 1 of Okanogan County WECC United States NCR05286 Public Utility District No. 1 of Snohomish County WECC United States NCR05335 Public Utility District No. 1 of Snohomish County WECC United States NCR05522 Public Utility District No. 1 of Whatcom County WECC United States NCR05342 Public Utility District No. 2 of Grant County, Washington WECC United States NCR05343 PUD No. 1 of Douglas County WECC United States NCR05344 Puget Sound Energy, Inc.	NCR00082	Plains End II, LLC	WECC	United States
NCR05322Plumas-Sierra Rural Electric CooperativeWECCUnited StatesNCR05325Portland General Electric CompanyWECCUnited StatesNCR11745Powder River Energy CorporationWECCUnited StatesNCR05332Provo City CorporationWECCUnited StatesNCR05521Public Service Company of ColoradoWECCUnited StatesNCR05333Public Service Company of New MexicoWECCUnited StatesNCR05340Public Utility District #1 of Lewis CountyWECCUnited StatesNCR05337Public Utility District No. 1 of Benton CountyWECCUnited StatesNCR05338Public Utility District No. 1 of Chelan CountyWECCUnited StatesNCR05334Public Utility District No. 1 of Clark CountyWECCUnited StatesNCR05286Public Utility District No. 1 of Okanogan CountyWECCUnited StatesNCR05335Public Utility District No. 1 of Snohomish CountyWECCUnited StatesNCR05522Public Utility District No. 1 of Whatcom CountyWECCUnited StatesNCR05342Public Utility District No. 2 of Grant County, WashingtonWECCUnited StatesNCR05343PUD No. 1 of Douglas CountyWECCUnited StatesNCR05344Puget Sound Energy, Inc.WECCUnited States	NCR05320	Plains End, LLC	WECC	United States
NCR05325 Portland General Electric Company WECC United States  NCR11745 Powder River Energy Corporation WECC United States  NCR05332 Provo City Corporation WECC United States  NCR05521 Public Service Company of Colorado WECC United States  NCR05333 Public Service Company of New Mexico WECC United States  NCR05340 Public Utility District #1 of Lewis County WECC United States  NCR05337 Public Utility District No. 1 of Benton County WECC United States  NCR05338 Public Utility District No. 1 of Chelan County WECC United States  NCR05338 Public Utility District No. 1 of Clark County WECC United States  NCR05334 Public Utility District No. 1 of Clark County WECC United States  NCR05335 Public Utility District No. 1 of Okanogan County WECC United States  NCR05286 Public Utility District No. 1 of Snohomish County WECC United States  NCR05335 Public Utility District No. 1 of Whatcom County WECC United States  NCR05342 Public Utility District No. 2 of Grant County, Washington WECC United States  NCR05343 PUD No. 1 of Douglas County WECC United States  NCR05344 Puget Sound Energy, Inc. WECC United States	NCR05321	Platte River Power Authority	WECC	United States
NCR11745Powder River Energy CorporationWECCUnited StatesNCR05332Provo City CorporationWECCUnited StatesNCR05521Public Service Company of ColoradoWECCUnited StatesNCR05333Public Service Company of New MexicoWECCUnited StatesNCR05340Public Utility District #1 of Lewis CountyWECCUnited StatesNCR05337Public Utility District No. 1 of Benton CountyWECCUnited StatesNCR05338Public Utility District No. 1 of Chelan CountyWECCUnited StatesNCR05334Public Utility District No. 1 of Clark CountyWECCUnited StatesNCR05286Public Utility District No. 1 of Okanogan CountyWECCUnited StatesNCR05335Public Utility District No. 1 of Snohomish CountyWECCUnited StatesNCR05322Public Utility District No. 1 of Whatcom CountyWECCUnited StatesNCR05342Public Utility District No. 2 of Grant County, WashingtonWECCUnited StatesNCR05343PUD No. 1 of Douglas CountyWECCUnited StatesNCR05344Puget Sound Energy, Inc.WECCUnited States	NCR05322	Plumas-Sierra Rural Electric Cooperative	WECC	United States
NCR05332 Provo City Corporation WECC United States NCR05521 Public Service Company of Colorado WECC United States NCR05333 Public Service Company of New Mexico WECC United States NCR05340 Public Utility District #1 of Lewis County WECC United States NCR05337 Public Utility District No. 1 of Benton County WECC United States NCR05338 Public Utility District No. 1 of Chelan County WECC United States NCR05338 Public Utility District No. 1 of Chelan County WECC United States NCR05334 Public Utility District No. 1 of Clark County WECC United States NCR05335 Public Utility District No. 1 of Okanogan County WECC United States NCR05335 Public Utility District No. 1 of Snohomish County WECC United States NCR05322 Public Utility District No. 1 of Whatcom County WECC United States NCR05342 Public Utility District No. 2 of Grant County, Washington WECC United States NCR05343 PUD No. 1 of Douglas County WECC United States NCR05344 Puget Sound Energy, Inc.	NCR05325	Portland General Electric Company	WECC	United States
NCR05521Public Service Company of ColoradoWECCUnited StatesNCR05333Public Service Company of New MexicoWECCUnited StatesNCR05340Public Utility District #1 of Lewis CountyWECCUnited StatesNCR05337Public Utility District No. 1 of Benton CountyWECCUnited StatesNCR05338Public Utility District No. 1 of Chelan CountyWECCUnited StatesNCR05334Public Utility District No. 1 of Clark CountyWECCUnited StatesNCR05286Public Utility District No. 1 of Okanogan CountyWECCUnited StatesNCR05335Public Utility District No. 1 of Snohomish CountyWECCUnited StatesNCR05522Public Utility District No. 1 of Whatcom CountyWECCUnited StatesNCR05342Public Utility District No. 2 of Grant County, WashingtonWECCUnited StatesNCR05343PUD No. 1 of Douglas CountyWECCUnited StatesNCR05344Puget Sound Energy, Inc.WECCUnited States	NCR11745	Powder River Energy Corporation	WECC	United States
NCR05333 Public Service Company of New Mexico  NCR05340 Public Utility District #1 of Lewis County  NCR05337 Public Utility District No. 1 of Benton County  NCR05338 Public Utility District No. 1 of Chelan County  NCR05338 Public Utility District No. 1 of Chelan County  NCR05334 Public Utility District No. 1 of Clark County  NCR05335 Public Utility District No. 1 of Okanogan County  NCR05335 Public Utility District No. 1 of Snohomish County  NCR05335 Public Utility District No. 1 of Snohomish County  NCR05522 Public Utility District No. 1 of Whatcom County  NCR05342 Public Utility District No. 2 of Grant County, Washington  NCR05343 PUD No. 1 of Douglas County  NCR05344 Puget Sound Energy, Inc.  WECC United States  NCR05344 United States	NCR05332	Provo City Corporation	WECC	United States
NCR05340 Public Utility District #1 of Lewis County WECC United States NCR05337 Public Utility District No. 1 of Benton County WECC United States NCR05338 Public Utility District No. 1 of Chelan County WECC United States NCR05334 Public Utility District No. 1 of Clark County WECC United States NCR05345 Public Utility District No. 1 of Okanogan County WECC United States NCR05335 Public Utility District No. 1 of Snohomish County WECC United States NCR05326 Public Utility District No. 1 of Whatcom County WECC United States NCR05522 Public Utility District No. 1 of Whatcom County WECC United States NCR05342 Public Utility District No. 2 of Grant County, Washington WECC United States NCR05343 PUD No. 1 of Douglas County WECC United States NCR05344 Puget Sound Energy, Inc.	NCR05521	Public Service Company of Colorado	WECC	United States
NCR05337 Public Utility District No. 1 of Benton County  NCR05338 Public Utility District No. 1 of Chelan County  NCR05334 Public Utility District No. 1 of Clark County  NCR05286 Public Utility District No. 1 of Okanogan County  NCR05335 Public Utility District No. 1 of Snohomish County  NCR05335 Public Utility District No. 1 of Snohomish County  NCR05522 Public Utility District No. 1 of Whatcom County  NCR05342 Public Utility District No. 2 of Grant County, Washington  NCR05343 PUD No. 1 of Douglas County  NCR05344 Puget Sound Energy, Inc.  WECC United States  NCR05344 Puget Sound Energy, Inc.	NCR05333	Public Service Company of New Mexico	WECC	United States
NCR05338Public Utility District No. 1 of Chelan CountyWECCUnited StatesNCR05334Public Utility District No. 1 of Clark CountyWECCUnited StatesNCR05286Public Utility District No. 1 of Okanogan CountyWECCUnited StatesNCR05335Public Utility District No. 1 of Snohomish CountyWECCUnited StatesNCR05522Public Utility District No. 1 of Whatcom CountyWECCUnited StatesNCR05342Public Utility District No. 2 of Grant County, WashingtonWECCUnited StatesNCR05343PUD No. 1 of Douglas CountyWECCUnited StatesNCR05344Puget Sound Energy, Inc.WECCUnited States	NCR05340	Public Utility District #1 of Lewis County	WECC	United States
NCR05334Public Utility District No. 1 of Clark CountyWECCUnited StatesNCR05286Public Utility District No. 1 of Okanogan CountyWECCUnited StatesNCR05335Public Utility District No. 1 of Snohomish CountyWECCUnited StatesNCR05522Public Utility District No. 1 of Whatcom CountyWECCUnited StatesNCR05342Public Utility District No. 2 of Grant County, WashingtonWECCUnited StatesNCR05343PUD No. 1 of Douglas CountyWECCUnited StatesNCR05344Puget Sound Energy, Inc.WECCUnited States	NCR05337	Public Utility District No. 1 of Benton County	WECC	United States
NCR05286Public Utility District No. 1 of Okanogan CountyWECCUnited StatesNCR05335Public Utility District No. 1 of Snohomish CountyWECCUnited StatesNCR05522Public Utility District No. 1 of Whatcom CountyWECCUnited StatesNCR05342Public Utility District No. 2 of Grant County, WashingtonWECCUnited StatesNCR05343PUD No. 1 of Douglas CountyWECCUnited StatesNCR05344Puget Sound Energy, Inc.WECCUnited States	NCR05338	Public Utility District No. 1 of Chelan County	WECC	United States
NCR05335Public Utility District No. 1 of Snohomish CountyWECCUnited StatesNCR05522Public Utility District No. 1 of Whatcom CountyWECCUnited StatesNCR05342Public Utility District No. 2 of Grant County, WashingtonWECCUnited StatesNCR05343PUD No. 1 of Douglas CountyWECCUnited StatesNCR05344Puget Sound Energy, Inc.WECCUnited States	NCR05334	Public Utility District No. 1 of Clark County	WECC	United States
NCR05522Public Utility District No. 1 of Whatcom CountyWECCUnited StatesNCR05342Public Utility District No. 2 of Grant County, WashingtonWECCUnited StatesNCR05343PUD No. 1 of Douglas CountyWECCUnited StatesNCR05344Puget Sound Energy, Inc.WECCUnited States	NCR05286	Public Utility District No. 1 of Okanogan County	WECC	United States
NCR05342       Public Utility District No. 2 of Grant County, Washington       WECC       United States         NCR05343       PUD No. 1 of Douglas County       WECC       United States         NCR05344       Puget Sound Energy, Inc.       WECC       United States	NCR05335	Public Utility District No. 1 of Snohomish County	WECC	United States
NCR05343     PUD No. 1 of Douglas County     WECC     United States       NCR05344     Puget Sound Energy, Inc.     WECC     United States	NCR05522	Public Utility District No. 1 of Whatcom County	WECC	United States
NCR05344 Puget Sound Energy, Inc. WECC United States	NCR05342	Public Utility District No. 2 of Grant County, Washington	WECC	United States
NCR05344 Puget Sound Energy, Inc. WECC United States	NCR05343		WECC	United States
	NCR05344		WECC	United States
	NCR05349		WECC	United States

NCR11951	RE Mustang Holdings LLC	WECC	United States
NCR11956	RE Astoria 2 LLC	WECC	United States
NCR11955	RE Astoria LLC	WECC	United States
NCR11717	RE Kansas LLC	WECC	United States
NCR11630	Red Horse III, LLC	WECC	United States
NCR11578	Red Horse Wind 2, LLC	WECC	United States
NCR11378	Rio Bravo Fresno	WECC	United States
NCR11277	Rio Bravo Rocklin	WECC	United States
NCR11214	Rockland Wind Farm LLC	WECC	United States
NCR11214 NCR10197	Rocky Mountain Power, LLC	WECC	United States
NCR10197 NCR05366	Rocky Mountain Reserve Group	WECC	United States
NCR05367	Rosebud Operating Services, Inc.	WECC	United States
NCR11353	Russell City Energy Company, LLC	WECC	United States
NCR05368	Sacramento Municipal Utility District	WECC	United States
NCR05369	Saguaro Power Company, A Limited Partnership	WECC	United States
NCR05372	Salt River Project Agricultural Improvement and Power District	WECC	United States
NCR05372		WECC	United States
	San Carlos Irrigation Project		United States
NCR05377	San Diego Gas & Electric	WECC	United States
NCR05524 NCR05382	San Luis Valley Rural Electric Cooperative, Inc. Seattle City Light	WECC	United States
	Sentinel Energy Center, LLC	WECC	United States
NCR11307	Shilloh III Wind Project, LLC.	WECC	United States
NCR11232 NCR11450	Shiloh IV Wind Project, LLC	WECC	United States
NCR10292	• /	WECC	United States
NCR10292 NCR05389	Shiloh Wind Project 2, LLC Sierra Pacific Industries	WECC	United States
NCR05389	Sierra Pacific Power Company	WECC	United States
NCR05390 NCR05392	Silicon Valley Power	WECC	United States
NCR11549	Solar Star California XIII, LLC	WECC	United States
NCR11349 NCR11424	Solar Star California XIII, LLC	WECC	United States
NCR11424 NCR11704	Solar Star California XII, LLC	WECC	United States
NCR11432	Solar Star California XX, LLC	WECC	United States
NCR11685	SOLV, Inc.	WECC	United States
NCR11054	South Feather Power Project	WECC	United States
NCR05398	Southern California Edison Company	WECC	United States
NCR11396	Southern Power Company	WECC	United States
NCR01143	Southwest Power Pool, Inc.	WECC	United States
NCR05401	Southwest rower rook, me.	WECC	United States
NCR11557	SPI Anderson 2	WECC	United States
NCR05529	Spindle Hill Energy LLC	WECC	United States
NCR11679	sPower Services, LLC	WECC	United States
NCR11529	Spring Canyon Energy LLC	WECC	United States
NCR11323	Sunrise Power Company, LLC	WECC	United States
NCR05029	SWG Colorado, LLC	WECC	United States
NCR05417	Sycamore Cogeneration Company	WECC	United States
NCR05329	Talen Montana, LLC	WECC	United States
NCR11904	Techren Solar I LLC	WECC	United States
NCR05420	Termoelectrica de Mexicali, S. de R.L. de C.V.	WECC	United States
NCR05043	Terra-Gen Dixie Valley, LLC	WECC	United States
NCR10345	Three Buttes Windpower LLC	WECC	United States
NCR11737	Three Peaks Power LLC	WECC	United States
NCR11594	Tonopah Solar Energy, LLC	WECC	United States
NCR11090	Top of the World	WECC	United States
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#### NCR Matrix (with Dates)

NCR11342	Topaz Solar Farms LLC	WECC	United States
NCR03036	Trans Bay Cable LLC	WECC	United States
NCR05533	TransAlta Centralia Generation, LLC	WECC	United States
NCR11457	TransAlta Wyoming Wind LLC	WECC	United States
NCR05430	Transmission Agency of Northern California	WECC	United States
NCR05431	Tri-Dam Project of the Oakdale and South San Joaquin Irrigation Districts	WECC	United States
NCR10030	Tri-State Generation and Transmission Association, Inc Reliability	WECC	United States
NCR05434	Tucson Electric Power	WECC	United States
NCR05435	Turlock Irrigation District	WECC	United States
NCR05436	Umatilla Electric Cooperative Assoc.	WECC	<b>United States</b>
NCR05441	US Bureau of Reclamation	WECC	United States
NCR05442	US Department Of Energy Richland Operations Office	WECC	United States
NCR05444	US Navy, Naval Base Kitsap	WECC	United States
NCR05537	USACE - Omaha District	WECC	United States
NCR05538	USACE - Portland District	WECC	United States
NCR05539	USACE - Seattle District	WECC	United States
NCR05540	USACE - Walla Walla District	WECC	United States
NCR05445	Utah Associated Municipal Power Systems	WECC	United States
NCR05446	Utah Municipal Power Agency	WECC	United States
NCR11610	Utah Red Hills Renewable Park, LLC	WECC	United States
NCR10216	Valencia Power, LLC	WECC	United States
NCR05447	Valley Electric Association, Inc	WECC	United States
NCR11078	Vantage Wind Energy LLC	WECC	United States
NCR00200	Vistra Energy Corp.	WECC	United States
NCR11905	Voyager II	WECC	United States
NCR05454	Watson Cogeneration Company	WECC	United States
NCR05456	Wellhead Power Panoche, LLC	WECC	United States
NCR05457	Wellhead Services, Inc	WECC	United States
NCR05461	Western Area Power Administration - Desert Southwest Region	WECC	United States
NCR05464	Western Area Power Administration - Rocky Mountain Region	WECC	United States
NCR05465	Western Area Power Administration - Sierra Nevada Region	WECC	United States
NCR05467	Western Area Power Administration - Upper Great Plains Region	WECC	United States
NCR11825	Western Frequency Response Sharing Group	WECC	United States
NCR11708	Western Interconnect LLC	WECC	United States
NCR11445	Western Power and Steam II LLC	WECC	United States
NCR11458	WestRock CP, LLC	WECC	United States
NCR11906	Willow Springs, LLC	WECC	United States
NCR11292	Windstar Energy, LLC	WECC	United States
NCR10350	Windy Flats Partners, LLC	WECC	United States
NCR10047	Woodland Biomass Power Ltd.	WECC	United States
NCR11428	Yuba County Water Agency	WECC	United States

<sup>\*</sup> Distribution Provider UFLS Only

<sup>\*\*</sup> Frequency Response Sharing Group

<sup>\*\*\*</sup> Regulation Reserve Sharing Group

# UNITED STATES OF AMERICA BEFORE THE FEDERAL ENERGY REGULATORY COMMISSION

Joint Staff White Paper on Notices of	)	
Penalty Pertaining to Violations of Critical	)	Docket No. AD19-18-000
<b>Infrastructure Protection Reliability Standards</b>	)	

#### Comments on the role of transparency in preventing regulatory failures

Submitted to FERC on October 25, 2019

#### Introduction

I am a private citizen who conducts public interest research on the security of the electric grid because I recognize the absolutely vital role of this infrastructure in powering every one of the nation's 16 critical infrastructures and in undergirding not just the well-being but the very survival of our modern society.

On September 3, 2019 I submitted comments and an alternate proposal to this docket, proposing specific information which should be released to the public by default in CIP Notices of Penalty (NOPs), Spreadsheet Notices of Penalty (SNOPs), "Find, Fix, Track" cases (FFT) and Compliance Exemption (CE) cases. Increased transparency (i.e., the release of the names of CIP standard violators) has been supported in this docket by a wide variety of cybersecurity experts, critical infrastructure protection experts, the press, private citizens and both elected and appointed public officials.

The purpose of this second filing is to provide for the record additional information—all related to transparency—which I believe is critical to this discussion. I have conducted several recent studies which raise significant regulatory red flags about the enforcement of Critical Infrastructure Protection (CIP) standards. I am gravely concerned that the public, investors, Congress and other regulators are receiving inadequate and misleading information about physical security and cybersecurity threats to the electric grid. I am also concerned that the nearly impossible complexity of the regulatory structure puts us at risk.

It is my hope that this docket will inform the public, Congress and other stakeholders as well as ensure that The Federal Energy Regulatory Commission (FERC), the North American Electric Reliability Corporation (NERC) and the Department of Energy (DOE) are providing accurate public information on the threats to the electric grid—and what is being done about them. I also hope that this docket sheds light on the complexity, limitations and failings of the current regulatory regime.

If we are to defend the critical energy infrastructure against natural and man-made threats, we must fix this hopelessly complex and bureaucratic "Rube Goldberg" of a regulatory system.

Not surprisingly, the release of the names of CIP violators is vehemently opposed by the industry. The industry is desperately clutching at straws with the vague argument that the release of the names of the violators would somehow help the bad actors attack utilities. This is notwithstanding the fact that the names of all NERC regulated entities are published on its website, so the bad guys already have a target list. Thus, the industry's argument is in essence that we need to protect the names of companies that violate CIP standards—rather than correct the underlying corporate misbehavior (i.e., "security by obscurity" which is a largely discredited security method).

However, the fact is that the public—and the national security of the U.S.—is already in grave danger under the present regulatory regime. The industry's longstanding cover-up of the names of the CIP violators has not made us safer. We need transparency and accountability if the longstanding vulnerabilities of our electric grid are to be adequately addressed.

Finally, the regulatory structure of the "electric grid" is mind-numbingly complex: there are more than 60 state and federal government regulators plus the nonprofit NERC and its seven Regional Entities. The FERC view of what constitutes the "electric grid" is likely limited to the "Bulk Power System" (BPS), however the public and the national security view includes all aspects of generation, transmission and distribution of electric power. Entities often overlap into generation, transmission and distribution; thus, many entities have multiple regulators at the state and federal level. The security needs of the *entire system* must be the focus, which underscores the mandate for transparency surrounding security violators anywhere in that system.

#### Regulatory Red Flags

As detailed below, my research has uncovered the following four areas of concern. All four are all related to the lack of transparency in the current regulatory regime and should be of great interest to the public, investors, state regulators and Congress:

#### 1. Vast Disparities Exist in Electric Grid Incident Reporting Among Official Sources.

- Physical Attacks: There were 578 physical attacks against the grid reported to the Department of Energy from January 1, 2010 through May 31, 2019. Yet according the NERC annual reliability reports, there was only one during the same period.
- Cyber Attacks: There were 29 cyberattacks against the grid reported to the Department of Energy (DOE) from January 1, 2010 through May 31, 2019. The Department of Homeland Security (DHS) reports substantially higher numbers of attacks per year than DOE. Yet according the NERC annual reliability reports, there were no cybersecurity incidents during the same period.

<sup>1</sup> See "NCR Active Entities List" <a href="https://www.nerc.com/pa/comp/Pages/Registration.aspx">https://www.nerc.com/pa/comp/Pages/Registration.aspx</a> (accessed October 19, 2019).

### 3. Physical security requirements for the electric grid—and their enforcement—are largely non-existent 6 years after the Metcalf attack.

- The physical security standard itself—CIP-014-2 (Physical Security)—is inadequate. There is no requirement that an entity's risk assessment or physical security plan be reviewed by anyone other than a peer utility. There is no regulator determination whatsoever as to the effectiveness of any entity's physical security plan.
- Enforcement of CIP-014-2 (Physical Security) seems nonexistent: In the six years since the Metcalf California substation attack, there have been only four citations issued for violations of the physical security standards. And these four citations were for administrative violations.

#### 4. Cybersecurity Standards Remain Inadequate:

- Despite the fact that the malware is what took down the electric gird in the Ukraine in 2015 and 2016, there remains no requirement that malware in the North American electric grid be detected, mitigated and removed.
- The electric utility industry, including industry lobbyist Edison Electric Institute—whose members include the government of the People's Republic of China<sup>2</sup>—continue to push back against additional cybersecurity measures, claiming that additional cybersecurity protections would be "unduly burdensome" and "unnecessary." And in its rulemaking, the Federal Energy Regulatory Commission bought this argument.
- Congress and the Government Accountability Office (GAO) pointed out deficiencies in cybersecurity in 2008. Congress and the Government Accountability Office (GAO) pointed out almost identical deficiencies in cybersecurity in 2019. In other words, we have gone literally nowhere in 11 years.

#### 5. Systematic and Permanent Coverup of Identities of Regulatory Violators:

- Since July of 2010, the identity of every violator of Critical Infrastructure Protection (CIP) standards has been withheld from the public, investors, state regulators and Congress. As of this writing, there have been a total of 256 FERC dockets involving almost 1,500 regulatory violators covered up. FOIA requests have succeeded in uncovering the identity of less than 10 violators.
- The industry, enabled by NERC, has attempted to permanently withhold these names of the violators despite the fact that the violations in most cases have been mitigated long ago.

These four interrelated areas of concern point to systematic, pervasive flaws in the regulation and protection of the electric grid. Critical information is being withheld from the public and conflicting (and misleading) information is being disseminated by the government and industry—lulling citizens, investors, state regulators and Congress into a false sense of security.

<sup>&</sup>lt;sup>2</sup> See report: "Is Edison Electric Institute Helping China Lobby For Less Grid Security?" <a href="https://michaelmabee.info/edison-electric-institute-china/">https://michaelmabee.info/edison-electric-institute-china/</a> (accessed October 19, 2019).

The above summary statements are based on my analysis of the publicly available information, detailed below. To the extent that the Commission or NERC believes that any of the information in the above summary is inaccurate or mischaracterized—perhaps this shows the need for this docket. More transparency would inform the public, investors, Congress and other regulators that all is well—or not.

1. Vast Disparities Exist in Electric Grid Incident Reporting Among Official Sources.

Utility companies and grid operators are required to submit reports on electric disturbance events to the Department of Energy (DOE) on a Form OE-417 ("Electric Emergency Incident and Disturbance Report").

I did an analysis of all the publicly available OE-417 data from 2010 through May of 2019. (I started in 2010 because that is when the NERC CIP Coverup began.<sup>3</sup>) First of all, there were 166 different "event types" reported many of which were either duplicates or related. For example, there were at least 24 different "event types" that denoted a physical attack. There were at least 50 "event types" that denoted a disturbance caused by weather. I grouped these 166 "event types" into 15 categories (actually "causes") so that we could get a sense of what has actually threatened the electric grid in the past 8 1/2 years.

There have been a total of 1,766 electric disturbance events filed during the period of January 1, 2010 through May 31, 2019.

Unfortunately, the public OE-417 data is so bad that there were 251 electric disturbance events where I was unable to identify a cause (14% of the reports). These are highlighted in yellow in the chart. Also, there were 68 generation, transmission and distribution interruptions I was not able to distill down further into what caused the "interruptions." Therefore, there were a total of 319 electric disturbance events (18%) where I couldn't identify the cause. I was able to identify a cause in 1447 electric disturbance events, or 82% of the OE-417 reports filed. (I used this 1447 known population for the study below.)

The results are disturbing to say the least.

Event	#
Weather	749
Cyber Attack	29
Physical Attack	578
Fuel Supply Deficiency	61
Equipment	15
Natural Disaster	10
Wildfire	5
Generation Interruption	16
Transmission Interruption	46
Distribution Interruption	6
Operations	80
Islanding	67
Load Shed	30
Public Appeal	64
5	10
Total Reports	1766
Cause Known from OE-417	1447

**Weather:** As one might suspect, weather was the cause of the majority of the disturbances, 749 events, or 52%. If one believes that weather is getting worse in recent years, then this number should be of great concern.

**Physical Attacks:** Shockingly, there were 578 physical attacks on the grid, or 40% of the incidents. As I will cover in more detail below, the "physical security standards" for our electric grid are weak to begin with and enforcement is almost non-existent.<sup>4</sup>

<sup>&</sup>lt;sup>3</sup> See Section 4 of this filing below. Full report available at <a href="https://michaelmabee.info/nerc-coverup-investigation-report/">https://michaelmabee.info/nerc-coverup-investigation-report/</a> (accessed October 25, 2019).

<sup>&</sup>lt;sup>4</sup> See Section 2 of this filing below. Full report available at <a href="https://michaelmabee.info/physical-security-dirty-little-secret/">https://michaelmabee.info/physical-security-dirty-little-secret/</a> (accessed October 21, 2019).

**Fuel Supply Deficiency:** There were 61 events, or 4% of the events. related to fuel supply deficiency. With the retirement of coal and nuclear plants, there is great potential for this problem to get worse.

Cyber Attacks: I was also surprised to learn that there have been 29 cyber attacks reported during this period (2% of the reports). What is most disturbing is that during the same period, the North American Electric Reliability Corporation (NERC) annual reliability reports seem to paint a completely different picture. <sup>5</sup>

#### OE-417 vs. NERC Reliability Reports

Here is what NERC reported in their annual reports<sup>6</sup> during this same period (note that the report each year is on the previous year, e.g., the 2019 report is for the events of the year 2018):

- **2019 Report** (page ix): "In 2018, there were no reported cyber or physical security incidents that resulted in an unauthorized control action or loss of load."
- **2018 Report** (page viii): "In 2017, there were no reported cyber or physical security incidents that resulted in a loss of load."
- **2017 Report** (page 3): "In 2016, there were no reported cyber or physical security incidents that resulted in a loss of load."
- 2016 Report (page v): "In 2015, there were no reported cybersecurity incidents that resulted in loss
  of load. There was one physical security incident that resulted in a loss of approximately 20 MW of
  load."
- **2015 Report** (page 7): "[N]o Reportable Cyber Security Incidents or physical security reportable events resulted in loss of load on the BPS in 2014." (Misleading, since the Nogales Station in Arizona was attacked by an IED in 2014. <sup>7</sup>)
- **2014 Report**: No mention of cyber or physical attacks. (Misleading, since the Metcalf Transformer attack took place in 2013.8)
- **2013 Report**: No mention of cyber or physical attacks.
- **2012 Report**: No mention of cyber or physical attacks.
- **2011 Report**: No mention of cyber or physical attacks.

There is clearly a huge disconnect between what the industry defines as a cybersecurity or physical security incident and what is reported on the OE-417s. The below chart reproduces the public OE-417 entries for the Metcalf attack (2013), the Nogales attack (2014) and the Buckskin attack (2016):

<sup>&</sup>lt;sup>5</sup> See Section 3 of this filing below.

<sup>&</sup>lt;sup>6</sup> Available at <a href="https://www.nerc.com/pa/RAPA/PA/Pages/default.aspx">https://www.nerc.com/pa/RAPA/PA/Pages/default.aspx</a> (accessed October 21, 2019).

<sup>&</sup>lt;sup>7</sup> Holstege, Sean and Randazzo, Ryan, The Republic. "Sabotage at Nogales station puts focus on threats to grid." June 13, 2014. <a href="https://www.azcentral.com/story/news/arizona/2014/06/12/sabotage-nogales-station-puts-focus-threats-grid/10408053/">https://www.azcentral.com/story/news/arizona/2014/06/12/sabotage-nogales-station-puts-focus-threats-grid/10408053/</a> (accessed October 24, 2019).

<sup>&</sup>lt;sup>8</sup> Smith, Rebecca. The Wall Street Journal. "Assault on California Power Station Raises Alarm on Potential for Terrorism." February 5, 2014. <a href="https://www.wsj.com/articles/assault-on-california-power-station-raises-alarm-on-potential-for-terrorism-1391570879">https://www.wsj.com/articles/assault-on-california-power-station-raises-alarm-on-potential-for-terrorism-1391570879</a> (accessed October 24, 2019).

Date Event Began	Time Event Began	Date of Restoration	Time of Restoration	Area Affected	NERC Region	Alert Criteria	Event Type	Demand Loss (MW)	Number of Customers Affected
4/16/2013	1:47 AM	4/18/2013	3:25 PM	California	WECC		Loss of Part of a High Voltage Substation, Physical Attack	N/A	0
6/11/2014	9:30 AM	6/11/2014	9:31 AM	Nogales, Arizona	WECC		Suspected Physical Attack	N/A	N/A
9/25/2016	12:49 PM	9/25/2016	RECHARGES PARTY	Utah: Kane County, Garfield County; Arizona: Coconino County, Mohave County	WECC	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems	Vandalism	20	10000

While this minimal information was reported on the OE-417, NERC did not find any of it noteworthy enough for their annual reports. These three events were significant physical attacks against the grid which NERC chose not to disclose to the public.

The discrepancies in physical security and cybersecurity reporting can be summarized as follows:

- There were 578 physical attacks against the grid reported on the OE-417's between January 1, 2010 through May 31, 2019, yet according the NERC there was only one during the same period.
- There were 29 cyberattacks against the grid reported on the OE-417's between January 1, 2010 through May 31, 2019, yet according the NERC there were none during the same period.

Meanwhile, federal government reports on cyberattacks against the energy sector during the same periods paint a completely different picture. For example, here's what the United States Government Accountability Office (GAO) had to say in Congressional testimony on October 21, 2015 on cyberattacks:

"Cyber incidents continue to affect the electric industry. For example, the Department of Homeland Security's Industrial Control Systems Cyber Emergency Response Team noted that the number of reported cyber incidents affecting control systems of companies in the electricity subsector increased from 3 in 2009 to 25 in 2011. The response team reported that the energy sector, which includes the electricity subsector, led all others in fiscal year 2014 with 79 reported incidents. Reported incidents affecting the electricity subsector have had a variety of impacts, including hacks into smart meters to steal power, failure in control systems devices requiring power plants to be shut down, and malicious software disabling safety monitoring systems."

And the U.S. Department of Homeland Security reported 59 cyberattacks on the energy sector in FY 2016<sup>9</sup> and 46 cyberattacks in FY 2015.<sup>10</sup>

Yet NERC reported no cybersecurity incidents in their annual reliability reports for the same periods.

<sup>&</sup>lt;sup>9</sup> National Cybersecurity and Communications Integration Center. "FY 2016 Incidents by Sector." <a href="https://www.us-cert.gov/sites/default/files/Annual Reports/Year in Review FY2016 IR Pie Chart S508C.pdf">https://www.us-cert.gov/sites/default/files/Annual Reports/Year in Review FY2016 IR Pie Chart S508C.pdf</a> (accessed October 20, 2019).

<sup>&</sup>lt;sup>10</sup> Idaho National Laboratory. "Cyber Threat and Vulnerability Analysis of the U.S. Electric Sector." August 2016. https://www.energy.gov/sites/prod/files/2017/01/f34/Cyber%20Threat%20and%20Vulnerability%20Analysis%20of%20the%20U.S.%20Electric%20Sector.pdf (accessed October 20, 2019).

NERC's definitions apparently don't consider most cyberattacks to be "reportable cyberattacks", the public is confused when the U.S. government reports a substantial number of cyberattacks against the energy subsector and NERC reports no cyberattacks.

While the industry may argue that there are different populations of regulated entities covered by the various reports, clearly, more transparency is needed for the public, investors, Congress and other regulators to understand these discrepancies and make sense of this conflicting information. Regulatory complexity requires even better public information. More on that later.

2. Physical security requirements for the electric grid—and their enforcement—are largely non-existent 6 years after the Metcalf attack.

At approximately 1:00 a.m. on April 16, 2013, a major PG&E transformer substation in Metcalf California was attacked. The attack was well-planned and sophisticated. One year later, the Metcalf station was struck again when the fence was cut open and, the facility entered and tools were stolen. 12

Obviously, the physical security situation had not improved much in the intervening year. In fact, PG&E's credibility was shot when its public statements about its physical security improvements were contradicted by a leaked internal memo.<sup>13</sup>

The April 2013 Metcalf attack was not the only physical attack on critical components of the North American electric grid. As previously noted, according the Department of Energy OE-417 reports, there were 578 physical attacks against the grid reported from January 1, 2010 through May 31, 2019.

However, the attack on the Metcalf substation—and the other attacks—shouldn't have been a surprise. A year before the Metcalf attack, the National Academies published a report titled: *Terrorism and the Electric Power Delivery System*. The report discussed physical security of high-voltage transformers noting:

"High-voltage transformers are of particular concern because they are vulnerable to attack, both from within and from outside the substation where they are located. These transformers are very large, difficult to move, custom-built, and difficult to replace. Most are no longer made in the United States, and the delivery time for new ones can run to months or years."

Then, one year after the Metcalf attack, the Wall Street Journal ran two alarming stories:

<sup>&</sup>lt;sup>11</sup> Smith, Rebecca. The Wall Street Journal. *"Assault on California Power Station Raises Alarm on Potential for Terrorism."* February 5, 2014. <a href="https://www.wsj.com/articles/assault-on-california-power-station-raises-alarm-on-potential-for-terrorism-1391570879">https://www.wsj.com/articles/assault-on-california-power-station-raises-alarm-on-potential-for-terrorism-1391570879</a> (accessed August 9, 2019).

<sup>&</sup>lt;sup>12</sup> Wald, Matthew L. The New York Times "California Power Substation Attacked in 2013 Is Struck Again." August 28, 2014. <a href="https://www.nytimes.com/2014/08/29/us/california-power-substation-attacked-in-2013-is-hit-again.html">https://www.nytimes.com/2014/08/29/us/california-power-substation-attacked-in-2013-is-hit-again.html</a> (accessed October 25, 2019).

<sup>&</sup>lt;sup>13</sup> NBC Bay Area "Internal Memo Reveals PG&E Years Away from Substation Security." April 5, 2016 <a href="https://www.nbcbayarea.com/investigations/Internal-Memo-Reveals-PGE-Years-Away-from-Substation-Security-303833811.html">https://www.nbcbayarea.com/investigations/Internal-Memo-Reveals-PGE-Years-Away-from-Substation-Security-303833811.html</a> (accessed October 25, 2019).

<sup>&</sup>lt;sup>14</sup> Available at: <a href="https://www.nap.edu/catalog/12050/terrorism-and-the-electric-power-delivery-system">https://www.nap.edu/catalog/12050/terrorism-and-the-electric-power-delivery-system</a> (accessed October 25, 2019).

- Assault on California Power Station Raises Alarm on Potential for Terrorism. April Sniper Attack Knocked Out Substation, Raises Concern for Country's Power Grid.<sup>15</sup>
- U.S. Risks National Blackout From Small-Scale Attack. *Federal Analysis Says Sabotage of Nine Key Substations Is Sufficient for Broad Outage.* 16

#### What was done?

After the February 5, 2014 Wall Street Journal article, the Senate sent a letter on February 7, 2014 to the Federal Energy Regulatory Commission (FERC), to ask them what they were doing to protect the grid.<sup>17</sup> And FERC Responded on February 11, 2014 telling the Senate that:

"Since the attack on the Metcalf facility in April 2013, the Commission's staff has taken responsive action together with NERC, other federal and state agencies, and transmission and generation asset owners and operators." <sup>18</sup>

Notwithstanding FERC's assurances to the senate in 2014, the physical security of our critical transformers and facilities remains a complete mess in 2019.

#### Problem #1: The standard—CIP-014-2 (Physical Security)—is a hollow standard.

As a result of Metcalf, FERC ordered NERC to develop a physical security standard. NERC submitted their proposed standard (known as CIP-014-119) on May 23, 2014.

FERC issued an order on November 20, 2014<sup>20</sup> literally ordering NERC to change one word. (The word was: "widespread" and was used 30 times in the proposed standard. This word—a slight of pen by NERC's attorneys—would have excluded many facilities from falling under the standard.)

On October 2, 2015, FERC approved the "Physical Security" standard, known as CIP-014-2.<sup>21</sup> Unfortunately, the physical security standard requires very little:

- 1. Requirement 1: Each Transmission Owner shall perform a risk assessment of its Transmission stations and Transmission substations.
- 2. Requirement 2: Each Transmission Owner shall have an unaffiliated third party verify the risk assessment [e.g., a peer grid company would meet the requirement—"Hey, if you verify mine, I'll verify yours"].

<sup>&</sup>lt;sup>15</sup> Smith, Rebecca. Wall Street Journal. February 5, 2014. Available at: <a href="https://www.wsj.com/articles/assault-on-california-power-station-raises-alarm-on-potential-for-terrorism-1391570879">https://www.wsj.com/articles/assault-on-california-power-station-raises-alarm-on-potential-for-terrorism-1391570879</a> (accessed October 25, 2019).

<sup>&</sup>lt;sup>16</sup> Smith, Rebecca. Wall Street Journal. March 12, 2014. Available at: <a href="https://www.wsj.com/articles/u-s-risks-national-blackout-from-small-scale-attack-1394664965">https://www.wsj.com/articles/u-s-risks-national-blackout-from-small-scale-attack-1394664965</a> (accessed October 25, 2019).

<sup>&</sup>lt;sup>17</sup> Available at: <a href="https://www.ferc.gov/industries/electric/indus-act/reliability/chairman-letter-incoming.pdf">https://www.ferc.gov/industries/electric/indus-act/reliability/chairman-letter-incoming.pdf</a> (accessed October 25, 2019).

<sup>&</sup>lt;sup>18</sup> Available at: <a href="https://www.ferc.gov/industries/electric/indus-act/reliability/chairman-letter-feinstein.pdf">https://www.ferc.gov/industries/electric/indus-act/reliability/chairman-letter-feinstein.pdf</a> (accessed October 25, 2019).

<sup>&</sup>lt;sup>19</sup> Available at: <a href="https://www.nerc.com/pa/Stand/ReliabilityStandards/CIP-014-1.pdf">https://www.nerc.com/pa/Stand/ReliabilityStandards/CIP-014-1.pdf</a> (accessed October 25, 2019).

<sup>&</sup>lt;sup>20</sup> Available at: https://www.ferc.gov/whats-new/comm-meet/2014/112014/E-4.pdf (accessed October 25, 2019).

<sup>&</sup>lt;sup>21</sup> Available at: https://www.nerc.com/pa/Stand/Reliability Standards/CIP-014-2.pdf (accessed October 25, 2019).

- 3. Requirement 3: If a Transmission Owner operationally controls an identified Transmission station or Transmission substation, it must notify the Transmission Operator that has operational control of the primary control center.
- 4. Requirement 4: Each Transmission Owner shall conduct an evaluation of the potential threats and vulnerabilities of a physical attack to each of their respective Transmission station(s), Transmission substation(s), and primary control center(s).
- 5. Requirement 5: Each Transmission Owner shall develop and implement a documented physical security plan(s) that covers their respective Transmission station(s), Transmission substation(s), and primary control center(s).
- 6. Requirement 6: Each Transmission Owner shall have an unaffiliated third party review the evaluation performed under Requirement R4 and the security plan(s) under Requirement R5 [again, a peer grid company would meet the requirement].

That's it. All the infrastructure owner must do is to have a binder with a bunch of papers labeled "Physical Security Plan" and have any peer utility they choose review the "risk assessment," "evaluation" and "security plan(s)". No need for it to be anybody who knows anything significant about physical security.

And there is no requirement as to what the "Physical Security Plan" must include—or even that it be effective. Nobody with regulatory authority even has to even approve it—All you need is somebody to "review" it. What if the "reviewer" happens to say "this plan sucks?" It doesn't matter. The only requirement is that the three-ring binder be "reviewed." (I guess most any papers in a three-ring binder will do.)

That unapproved three-ring binder of papers is what is standing between the United States and a catastrophic widespread power outage caused by a terrorist attack. (Also, it is worthy of note that generation plants are not included in NERC's physical security standard!)

#### Problem #2: Enforcement of CIP-014-2 seems nonexistent

One would think that after the public and Congressional interest in the Metcalf attack, FERC and NERC would take a special interest in the enforcement of the physical security standards. Unfortunately, one would be wrong. How many times since Metcalf have utilities been cited for violations of standard CIP-014-2?

Four.

We have had 578 physical attacks to the grid (that have been publicly disclosed) yet, utilities have been cited for violations of the standard only four (4) times in the six (6) plus years since the Metcalf attack. It would appear that this standard and regulatory scheme are not working. Here are the facts.

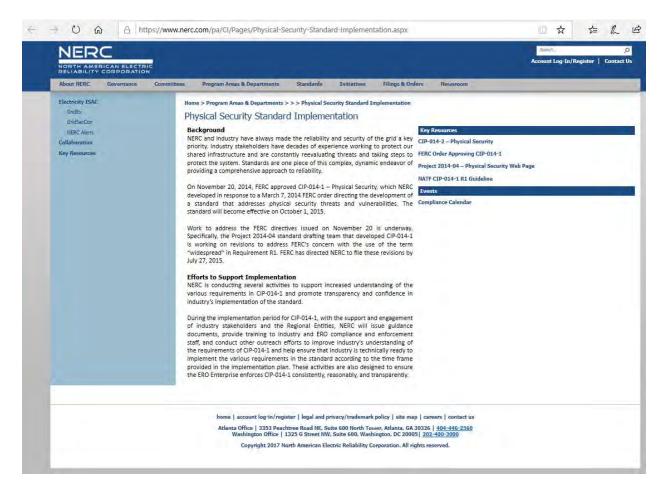
- There are 1,500 entities regulated by NERC.
- There are over 2000 EHV LPTs<sup>22</sup> (Extra High Voltage Large Power Transformers) in the United States and tens of thousands of LPTs.

<sup>&</sup>lt;sup>22</sup> U.S. Department of Energy "Large Power Transformers and the U.S. Electric Grid." June 2012. https://www.energy.gov/sites/prod/files/Large Power Transformer Study - June 2012 0.pdf (accessed October 25, 2019).

• There have been four (4) citations for non-compliance with the physical security "standards" since Metcalf.

The American people are not stupid. We see these transformers unguarded behind chain-link fences as we drive up the road or walk our dogs.

So how seriously does NERC take physical security? Not very seriously judging by their lack of effort to update their website. Here is a screenshot of NERC's website<sup>23</sup> on "Physical Security" taken on October 18, 2019. The webpage is talking about CIP-014-1. This standard has been superseded since October 2, 2015.



Oh, and that one link you see to "CIP-014-2 – Physical Security" on the right? It leads to an older version of the standard that notes on the last page: "This standard has not yet been approved by the applicable regulatory authority."<sup>24</sup>

<sup>&</sup>lt;sup>23</sup> Screenshot taken on October 18, 2019 of URL: <a href="https://www.nerc.com/pa/CI/Pages/Physical-Security-Standard-Implementation.aspx">https://www.nerc.com/pa/CI/Pages/Physical-Security-Standard-Implementation.aspx</a>.

<sup>&</sup>lt;sup>24</sup> I downloaded a copy of this document on October 24, 2019 and it is preserved here:
<a href="https://michaelmabee.info/wp-content/uploads/2019/10/Older-CIP-014-2-standard-dowloaded-on-2019-10-24.pdf">https://michaelmabee.info/wp-content/uploads/2019/10/Older-CIP-014-2-standard-dowloaded-on-2019-10-24.pdf</a>

NERC's physical security webpage does not look as if it has been updated in almost 4 years. What does that tell us about NERC management? (When I wrote an article about this issue exactly six months ago, I had hoped that perhaps NERC would take notice and update their webpage. I should not be surprised that it remains now just as I found it back then.)

So, let's take a look at the four times NERC found CIP-014-2 violations:

- In FERC Docket No. NP19-4-000<sup>25</sup> (one Violation—which everybody knows is Duke Energy Corp. <sup>26</sup>), Duke apparently excluded one substation from its risk assessment because they didn't think it met the criteria for inclusion.
- In FERC Docket No. NP18-14-000<sup>27</sup> (one violation), the "Unidentified Registered Entity" failed to do a risk assessment on one substation due to a "management oopsy."
- And in FERC Docket No. NP17-29-000<sup>28</sup> (two violations), the "Unidentified Registered Entity" failed
  to include one control center in its 1) risk assessment and 2) security plan (two violations) because
  an employee who knew what they were doing left the company, leaving nobody else at the
  company who knew what they were doing.

One will notice that all four of these "violations" are administrative in nature and have nothing to do with whether there is actually meaningful physical security in place.

#### History of the "Physical Security" standards

CIP-001-1 (Sabotage Reporting)<sup>29</sup> became effective on June 4, 2007. Utilities were cited for its violation 404 times between 6/4/2008 and 5/26/2011. It them morphed into CIP-001-1a (February 2, 2011)<sup>30</sup> and CIP-001-2a (August 2, 2011)<sup>31</sup>—neither of which were EVER cited.

Meanwhile, EOP-004-1 (Disturbance Reporting)<sup>32</sup>, which covered "equipment damage" among other things, had violations 16 times between 2009 and 2013.

NERC began to look at merging CIP-001 and EOP-004 "to eliminate redundancies" and on June 20, 2013, FERC approved<sup>33</sup> merging CIP-001-2a (Sabotage Reporting) and EOP-004-1 (Disturbance Reporting) into EOP-004-2 (Event Reporting)<sup>34</sup>. (CIP-001-2a Sabotage Reporting and EOP-004-1 Disturbance Reporting were then "Retired.") EOP-004-2 covers reporting "damage or destruction of a facility." EOP-004-2 and its successors have never been found to be violated.

Here is the enforcement history of these various standards:

<sup>&</sup>lt;sup>25</sup> Available at: https://elibrary.ferc.gov/idmws/file list.asp?document id=14739324 (accessed October 25, 2019).

<sup>&</sup>lt;sup>26</sup> Sobczak, Blake and Behr, Peter. E&E News. "Duke agreed to pay record fine for lax security — sources." February 1, 2019. <a href="https://www.eenews.net/stories/1060119265">https://www.eenews.net/stories/1060119265</a> (accessed October 25, 2019).

<sup>&</sup>lt;sup>27</sup> Available at: <a href="https://elibrary.ferc.gov/idmws/file-list.asp?document-id=14675460">https://elibrary.ferc.gov/idmws/file-list.asp?document-id=14675460</a> (accessed October 25, 2019).

<sup>&</sup>lt;sup>28</sup> Available at: <a href="https://elibrary.ferc.gov/idmws/file\_list.asp?document\_id=14605551">https://elibrary.ferc.gov/idmws/file\_list.asp?document\_id=14605551</a> (accessed October 25, 2019).

<sup>&</sup>lt;sup>29</sup> Available at: <a href="https://www.nerc.com/files/CIP-001-1.pdf">https://www.nerc.com/files/CIP-001-1.pdf</a> (accessed October 25, 2019).

<sup>&</sup>lt;sup>30</sup> Available at: <a href="https://www.nerc.com/files/CIP-001-1a.pdf">https://www.nerc.com/files/CIP-001-1a.pdf</a> (accessed October 25, 2019).

<sup>&</sup>lt;sup>31</sup> Available at: <a href="https://www.nerc.com/files/CIP-001-2a.pdf">https://www.nerc.com/files/CIP-001-2a.pdf</a> (accessed October 25, 2019).

<sup>&</sup>lt;sup>32</sup> Available at: https://www.nerc.com/files/EOP-004-1.pdf (accessed October 25, 2019).

<sup>&</sup>lt;sup>33</sup> FERC Order Approving Reliability Standard. 143 FERC ¶ 61,252. <a href="https://www.ferc.gov/whats-new/comm-meet/2013/062013/E-8.pdf">https://www.ferc.gov/whats-new/comm-meet/2013/062013/E-8.pdf</a> (accessed October 25, 2019).

<sup>&</sup>lt;sup>34</sup> Available at: https://www.nerc.com/files/EOP-004-2.pdf (accessed October 25, 2019).

- 404 Citations issued for CIP-001-1 (Sabotage Reporting) between 2008 and 2011
- 16 Citations were issued for EOP-004-1 (Disturbance Reporting) between 2009 and 2013—not all related to damage.

Metcalf happened on April 16, 2013, but then...

- No citations have been issued for EOP-004-2 (effective June 20, 2013)
- No citations have been issued for EOP-004-3 (effective November 19, 2015)
- No citations have been issued for EOP-004-4 (effective January 18, 2018)

And adding in the CIP-014 physical security Standard:

- No violation citations have been issued for CIP-014-1
- Four violation citations have been issued for CIP-014-2
  - NP19-4-000 (one violation)
  - NP18-14-000 (one violation)
  - NP17-29-000 (two violations)

I emphasize: There have been only four (4) NERC Physical Security standard violations cited since the Metcalf attack.

#### 3. Cybersecurity Standards Remain Inadequate:

We know from open sources that state actors such as Russia and China have penetrated the U.S. electric grid for over a decade.

Ten years ago, on April 8, 2009 the *Wall Street Journal* published an article entitled "Electricity Grid in U.S. Penetrated By Spies" in which it was reported:<sup>35</sup>

Cyberspies have penetrated the U.S. electrical grid and left behind software programs that could be used to disrupt the system, according to current and former national-security officials.

The spies came from China, Russia and other countries, these officials said, and were believed to be on a mission to navigate the U.S. electrical system and its controls. The intruders haven't sought to damage the power grid or other key infrastructure, but officials warned they could try during a crisis or war.

"The Chinese have attempted to map our infrastructure, such as the electrical grid," said a senior intelligence official. "So have the Russians."

On January 10, 2019—10 years later—the *Wall Street Journal* published an article entitled "America's Electric Grid Has a Vulnerable Back Door—and Russia Walked Through It." The article reports:<sup>36</sup>

<sup>&</sup>lt;sup>35</sup> Available at: https://www.wsj.com/articles/SB123914805204099085 (accessed October 19, 2019).

<sup>&</sup>lt;sup>36</sup> Available at: <a href="https://www.wsj.com/articles/americas-electric-grid-has-a-vulnerable-back-doorand-russia-walked-through-it-11547137112">https://www.wsj.com/articles/americas-electric-grid-has-a-vulnerable-back-doorand-russia-walked-through-it-11547137112</a> (accessed October 19, 2019).

A reconstruction of the hack reveals a glaring vulnerability at the heart of the country's electric system. Rather than strike the utilities head on, the hackers went after the system's unprotected underbelly—hundreds of contractors and subcontractors like All-Ways who had no reason to be on high alert against foreign agents. From these tiny footholds, the hackers worked their way up the supply chain. Some experts believe two dozen or more utilities ultimately were breached.

Despite the fact that Russia and China have been probing the grid and likely planting malware for over a decade, presently, there is no requirement for malware detection, mitigation and removal. In fact, FERC declined to direct NERC to develop such a standard on December 28, 2017:<sup>37</sup>

"The Foundation for Resilient Societies filed a petition asking the Commission to require additional measures for malware detection, mitigation, removal and reporting. We decline to propose additional Reliability Standard measures at this time for malware detection, mitigation and removal, based on the scope of existing Reliability Standards, Commission- directed improvements already being developed and other ongoing efforts. However, we propose to direct broader reporting requirements. Currently, incidents must be reported only if they have 'compromised or disrupted one or more reliability tasks,' and we propose to require reporting of certain incidents even before they have caused such harm or if they did not themselves cause any harm." [Emphasis added.]

Russian malware is what took down the electric gird in the Ukraine in 2015<sup>38</sup> and 2016<sup>39</sup>. And yet, there is no requirement for malware detection, mitigation and removal in the U.S. electric grid? This doesn't even make sense.

So, on December 28, 2017 the Commission declined "to propose additional Reliability Standard measures at this time for malware detection, mitigation and removal, based on the scope of existing Reliability Standards, Commission- directed improvements already being developed and other ongoing efforts."

It sounds from this statement like there could be some non-public things going on to protect us. Therefore, the public should "move along—nothing to see here."

Fast forward to the February 14, 2019 Senate Committee on Energy and Natural Resources hearing entitled: "Hearing to Consider the Status and Outlook for Cybersecurity Efforts in the Energy Industry." 40

<sup>&</sup>lt;sup>37</sup> Proposed Rule "Cyber Security Incident Reporting Reliability Standards." [Docket Nos. RM18–2–000 and AD17–9–000]. Available at: <a href="https://www.govinfo.gov/content/pkg/FR-2017-12-28/pdf/2017-28083.pdf">https://www.govinfo.gov/content/pkg/FR-2017-12-28/pdf/2017-28083.pdf</a> (accessed October 19, 2019).

<sup>&</sup>lt;sup>38</sup> ICS Alert (IR-ALERT-H-16-056-01) Cyber-Attack Against Ukrainian Critical Infrastructure. February 25, 2016. https://ics-cert.us-cert.gov/alerts/IR-ALERT-H-16-056-01 (accessed October 18, 2019).

<sup>&</sup>lt;sup>39</sup> Greenberg, Andy. Wired. 'Crash Override': The Malware That Took Down a Power Grid. June 12, 2017. https://www.wired.com/story/crash-override-malware/ (accessed October 18, 2019).

<sup>&</sup>lt;sup>40</sup> Available at: <a href="https://www.energy.senate.gov/public/index.cfm/hearings-and-business-meetings?ID=FE0534E7-2FC7-4DB0-BEA6-2634D3821ADD#">https://www.energy.senate.gov/public/index.cfm/hearings-and-business-meetings?ID=FE0534E7-2FC7-4DB0-BEA6-2634D3821ADD#</a> (accessed October 19, 2019).

Over a year after FERC declined to propose Reliability Standard measures for malware detection, mitigation and removal, Senator Angus King questioned NERC CEO James B. Robb on the issue:

**Sen. King:** "Okay let me ask another question. Do any of our utilities have Kaspersky, Huawei, or ZTE equipment in their system?"

Mr. Robb: "We issued a NERC alert..."

**Sen. King:** "I didn't ask you if you issued an alert. I asking you do any of our utilities have ZTE, Huawei, or Kaspersky equipment or software in their system?"

Mr. Robb: "Not to my knowledge."

Sen. King: "Not to your knowledge. Have you surveyed any of the utilities to determine that?"

Mr. Robb: "Uhhh, I don't believe we have."

Sen. King: "I think that would be a good idea don't you?"

Mr. Robb: "I'll take that on."

In other words, a year later, the regulators hadn't even checked to see if there is Russian or Chinese equipment or software installed on the electric grid.

Meanwhile, the U.S. Government is issuing alerts that the U.S. electric grid is under attack by state actors:

- October 20, 2017 "Advanced Persistent Threat Activity Targeting Energy and Other Critical Infrastructure Sectors"<sup>41</sup>
- March 15, 2018 "Russian Government Cyber Activity Targeting Energy and Other Critical Infrastructure Sectors"<sup>42</sup>
- December 20, 2018 "Intrusions Affecting Multiple Victims Across Multiple Sectors" 43

On January 21, 2021—Four years after the Foundation for Resilient Societies submitted a petition for rulemaking to, among other things, address the lack of a standard to detect, mitigate or remove malware—the modified reliability standard CIP-008-6 (Cyber Security—Incident Reporting and Response Planning) will become effective. The only real improvement will be to incident reporting.

<sup>&</sup>lt;sup>41</sup> US-CERT Alert (TA17-293A) "Advanced Persistent Threat Activity Targeting Energy and Other Critical Infrastructure Sectors" October 20, 2017. <a href="https://www.us-cert.gov/ncas/alerts/TA17-293A">https://www.us-cert.gov/ncas/alerts/TA17-293A</a> (accessed October 20, 2019)

<sup>&</sup>lt;sup>42</sup> US-CERT Alert (TA18-074A) "Russian Government Cyber Activity Targeting Energy and Other Critical Infrastructure Sectors." March 15, 2018. <a href="https://www.us-cert.gov/ncas/alerts/TA18-074A">https://www.us-cert.gov/ncas/alerts/TA18-074A</a> (accessed October 20, 2019).

<sup>&</sup>lt;sup>43</sup> US-CERT Alert (TA17-117A) "Intrusions Affecting Multiple Victims Across Multiple Sectors" December 20, 2018. https://www.us-cert.gov/ncas/alerts/TA17-117A (accessed October 20, 2019).

So, there is still no requirement to detect, mitigate or remove malware. But if a utility bumbles across it, they are at least required to report it—*After January 21, 2021!* 

Another disgraceful example of the lack of action on cybersecurity is the Aurora vulnerability—the continuing implications of which are very instructive today. In 2007 the Department of Homeland Security and the Idaho National Laboratory informed the industry<sup>44</sup> about the risk of a cyber-induced "Aurora Vulnerability" which could cause physical damage to grid infrastructure.<sup>45</sup>

Leading cybersecurity experts have been warning about Aurora since 2008<sup>46</sup> and that these experts also consider the cyberattacks in Ukraine as merely a warning<sup>47</sup> due to the fact that the Russian's could have, but chose NOT to exploit the Aurora vulnerability. The Department of Defense spent American taxpayer dollars to help create hardware to mitigate the Aurora vulnerability and offered these Cooper Power Systems iGR-933 Rotating Equipment Isolation Devices (REIDs) *free of charge* to utilities, and despite the fact that NERC ES-ISAC issued an initial Advisory Alert on Aurora in 2007 and another on Oct. 13, 2010, to date, it appears that only *two utilities* have decided to install these mitigation devices while the rest of the devices, which were paid for by U.S. taxpayers, likely collect dust in a warehouse somewhere (hopefully) in the United States.<sup>48</sup>

On May 21, 2008 Representative James R. Langevin, chairman of the House Subcommittee on Emerging Threats, Cybersecurity, and Science and Technology, in his opening statement to a hearing on cybersecurity<sup>49</sup> noted:

First, we will receive an update from the Federal Energy Regulatory Commission, FERC, and the North American Electric Reliability Corporation, NERC, about electric industry efforts to mitigate a cyber vulnerability known as Aurora. I think we could search far and wide and not find a more disorganized, ineffective response to an issue of national security of this import. Everything about the way this vulnerability was handled, from press leaks, to DHS's failure to provide more technical details to support the results of its test, to NERC's dismissive attitude to the industry's halfhearted approach toward mitigation, leaves me with little confidence that we are ready or willing to deal with the cybersecurity threat.

<sup>&</sup>lt;sup>44</sup> See NERC Press Release: "NERC Issues AURORA Alert to Industry." October 14, 2010. https://michaelmabee.info/wp-content/uploads/2019/10/PR AURORA 14 Oct 10.pdf (accessed October 24, 2019)

<sup>&</sup>lt;sup>45</sup> Meserve, Jeanne. CNN. "Mouse click could plunge city into darkness, experts say." September 27, 2007. http://edition.cnn.com/2007/US/09/26/power.at.risk/index.html (accessed October 24, 2019)

<sup>&</sup>lt;sup>46</sup> See Unfettered Blog: "One reason why we need regulation"

https://www.controlglobal.com/blogs/unfettered/one-reason-why-we-need-regulation/

<sup>&</sup>lt;sup>47</sup> See Unfettered Blog: "Waterfall Security podcast on Aurora and the need for engineers" <a href="https://www.controlglobal.com/blogs/unfettered/waterfall-security-podcast-on-aurora-and-the-need-for-engineers/">https://www.controlglobal.com/blogs/unfettered/waterfall-security-podcast-on-aurora-and-the-need-for-engineers/</a> or <a href="https://waterfall-security.com/podcasts/joe-weiss">https://waterfall-security.com/podcasts/joe-weiss</a> (accessed October 24, 2019).

<sup>&</sup>lt;sup>48</sup> See "What You Need to Know (and Don't) About the AURORA Vulnerability" <a href="https://www.powermag.com/what-you-need-to-know-and-dont-about-the-aurora-vulnerability/?printmode=1">https://www.powermag.com/what-you-need-to-know-and-dont-about-the-aurora-vulnerability/?printmode=1</a>

<sup>&</sup>lt;sup>49</sup> "Implications of Cyber Vulnerabilities on the Resilience and Security of the Electric Grid." Before the Committee on Homeland Security, Subcommittee on Emerging Threats, Cybersecurity, and Science and Technology. (110th Congress) May 21, 2008. <a href="https://www.gpo.gov/fdsys/pkg/CHRG-110hhrg43177/pdf/CHRG-110hhrg43177.pdf">https://www.gpo.gov/fdsys/pkg/CHRG-110hhrg43177/pdf/CHRG-110hhrg43177.pdf</a> (accessed October 24, 2019). Hearing video available at: <a href="https://www.c-span.org/video/?205553-1/security-electric-grid">https://www.c-span.org/video/?205553-1/security-electric-grid</a> (accessed October 24, 2019).

As time passes, I grow particularly concerned by NERC, the self-regulating organization responsible for ensuring the reliability of the bulk power system. Not only do they propose cybersecurity standards that, according to the GAO and NIST, are inadequate for protecting critical national infrastructure, but throughout the committee's investigation they continued to provide misleading statements about their oversight of industry efforts to mitigate the Aurora vulnerability.

If NERC doesn't start getting serious about national security, it may be time to find a new electric reliability organization. NERC can begin demonstrating its commitment by incorporating more of the NIST security controls in the next iteration of its reliability standards.

Also, of note, U.S. House Representative Bill Pascrell accused NERC of lying about their cybersecurity follow-up and requested that NERC be held in contempt of Congress. 50

That hearing was in 2008. So, what is the public to make of the fact that the Government Accountability Office (GAO) issued a report in September of 2019<sup>51</sup> finding:

The Federal Energy Regulatory Commission (FERC)—the regulator for the interstate transmission of electricity—has approved mandatory grid cybersecurity standards. However, it has not ensured that those standards fully address leading federal guidance for critical infrastructure cybersecurity—specifically, the National Institute of Standards and Technology (NIST) Cybersecurity Framework.

Eleven years have elapsed and we are in exactly the same place on cybersecurity as we were in 2008?

Please excuse the public if we are skeptical that "Commission- directed improvements already being developed and other ongoing efforts" are keeping us safe. It does not appear by the testimony in the Congressional Hearings between 2008 and 2019 and the other evidence above (not the least of which is that NERC was caught lying to Congress about cybersecurity already) that FERC and NERC have done enough to protect the grid.

The public needs transparency and accountability to see whether FERC and NERC are up to the task of securing the electric grid from cybersecurity threats. The publicly available evidence indicates they are not.

#### 4. Systematic and Permanent Coverup of Identities of Regulatory Violators:

Since July of 2010, the identity of every violator of Critical Infrastructure Protection (CIP) standards has been withheld from the public, investors, state Public Utility Commissions (PUCs) and Congress. Prior to

<sup>&</sup>lt;sup>50</sup> See Hearing video and record: <a href="https://michaelmabee.info/cyber-vulnerabilities-hearing/">https://michaelmabee.info/cyber-vulnerabilities-hearing/</a> (accessed October 24, 2019).

<sup>&</sup>lt;sup>51</sup> U.S. Government Accountability Office. "Critical Infrastructure Protection: Actions Needed to Address Significant Cybersecurity Risks Facing the Electric Grid." GAO-19-332: Published: Aug 26, 2019. Publicly Released: Sep 25, 2019.

https://www.gao.gov/products/GAO-19-332 (accessed October 22, 2019).

this "white paper" docket, NERC and FERC were attempting to permanently withhold the names of the violators despite the fact that the violations in most cases have been long ago mitigated.

I have been conducting an investigation since March of 2018 into NERC's practice of withholding the identities of CIP violators from the public. This investigation has revealed that from July of 2010 through September of 2019 there had been 256 FERC dockets involving almost 1,500 "Unidentified Registered Entities." In each of these instances, the identity of the regulatory violator was withheld from the public. As part of the investigations, I have filed six Freedom of Information Act Requests, three of which are still pending, covering 253 FERC dockets.

We know for a fact from open sources that the Russians and the Chinese have been in our electric grid for over a decade:

- April 8, 2009 Wall Street Journal: "Electricity Grid in U.S. Penetrated By Spies" 55
- January 10, 2019 Wall Street Journal: "America's Electric Grid Has a Vulnerable Back Door—and Russia Walked Through It." 56

So, if keeping the names of the CIP violators from the public was going to make us safer, wouldn't it have worked by now? I have concluded that "secret regulation" of CIP standards has not worked. It appears from the available evidence that the real reason for the "protection" of the names of the regulatory violators is because the industry does not want to be held accountable for doing more than the minimum on physical and cyber security. There appears to be no legitimate security reason to withhold the names of regulatory violators in perpetuity as is currently the practice.

Notably the electric utility industry has threatened to stop "self-reporting" violations if FERC begins to release the names of CIP violators. The Trade Associations' Motions to Intervene in FERC Docket No. NP19-4-000<sup>57</sup> contains a not so thinly veiled threat:

"If the Commission begins releasing entity names in addition to the information already made public in the posted Notices of Penalty, then Registered Entities may re-evaluate whether they will continue to self-report security information knowing that providing such information to their regulators may be disclosed to the public, including to people seeking to attack their systems. In addition, Registered Entities also may re-evaluate what information is included in their mitigation plans."

<sup>&</sup>lt;sup>52</sup> Note: "Unidentified Registered Entity" or "URE" is the industry euphemism for CIP standard violators whose names are being withheld by NERC. As of 2019 NERC began hiding the number of UREs covered in spreadsheet NOPs, so we can no longer accurately determine the number of URE's involved and are making low-end estimates of the number of entities.

<sup>&</sup>lt;sup>53</sup> A detailed report of the investigation is available here: <a href="https://michaelmabee.info/nerc-coverup-investigation-report/">https://michaelmabee.info/nerc-coverup-investigation-report/</a> (accessed October 25, 2019). Also see: <a href="https://michaelmabee.info/grid-coverup-continues/">https://michaelmabee.info/grid-coverup-continues/</a> (accessed October 25, 2019).

<sup>&</sup>lt;sup>54</sup> Details, updates and copies of my FOIA requests and responses are available here: https://michaelmabee.info/cip-violation-database/ (accessed October 25, 2019).

<sup>&</sup>lt;sup>55</sup> Available at: https://www.wsj.com/articles/SB123914805204099085 (accessed October 25, 2019).

<sup>&</sup>lt;sup>56</sup> Available at: <a href="https://www.wsj.com/articles/americas-electric-grid-has-a-vulnerable-back-doorand-russia-walked-through-it-11547137112">https://www.wsj.com/articles/americas-electric-grid-has-a-vulnerable-back-doorand-russia-walked-through-it-11547137112</a> (accessed October 25, 2019).

<sup>&</sup>lt;sup>57</sup> Available at: https://elibrary.ferc.gov/idmws/file list.asp?document id=14756159 (accessed October 25, 2019).

This is an extraordinary threat that the entire industry represented by the Trade Associations, and who are subject to mandatory reliability standards under federal law,<sup>58</sup> will essentially engage in a regulatory mutiny if the Commission decides to release the names of regulatory violators to the public, as its past orders and regulations require.

The industry is essentially arguing that the names of the regulatory violators constitutes "Critical Electric Infrastructure Information" (CEII) and should be withheld from the public permanently (even after the violations are mitigated). This argument is unsupported by FERC regulations and past FERC orders.<sup>59</sup>

There is a public interest in disclosing the names of regulatory violators because:

- Disclosing the names of the violators might lead the public and Congress to assess how well the regulatory system is working.
- This information would inform the public, investors, PUCs and Congress as to whether the current regulatory system has adequately thwarted threats to the grid.
- This information could lead the public, investors, PUCs and Congress to conclude that better investment in the critical infrastructures is necessary.

These are public policy questions, not CEII.

In sum, CIP regulations should protect the U.S. electric grid by holding the electric utility companies and grid operators accountable to protect the portion of the U.S. critical infrastructure that they own or operate. Instead, the electric utility industry has twisted this regulatory scheme into a sham where companies have no incentive to do more than the minimum. If caught violating a CIP standard, NERC and the Regional Entities will settle the matter privately with the "unidentified registered entities" negotiating a "penalty" that the "unidentified registered entities" are willing to pay and will keep the matter from public view. It looks like a system of back-room settlements and handshake penalties. A great deal for the "unidentified registered entities"—not so much for the American people.

<sup>&</sup>lt;sup>58</sup> 16 U.S. Code § 824o(b)(1) (Electric reliability) provides that: "The Commission shall have jurisdiction, within the United States, over the ERO certified by the Commission under subsection (c), any regional entities, and all users, owners and operators of the bulk-power system, including but not limited to the entities described in section 824(f) of this title, for purposes of approving reliability standards established under this section and enforcing compliance with this section. *All users, owners and operators of the bulk-power system shall comply with reliability standards that take effect under this section.*" [Emphasis added.]

<sup>&</sup>lt;sup>59</sup> For further details, see my Motion to Intervene in FERC Docket NP19-4-000 available at: <a href="https://michaelmabee.info/wp-content/uploads/2019/02/FERC-Docket-NP19-4-Motion-to-Intervene-Mabee.pdf">https://michaelmabee.info/wp-content/uploads/2019/02/FERC-Docket-NP19-4-Motion-to-Intervene-Mabee.pdf</a> (accessed August 12, 2019); Reply Comments in FERC Docket NP19-4-000 available at: <a href="https://michaelmabee.info/wp-content/uploads/2019/05/Reply-Comments-of-Michael-Mabee-in-NP19-4-000.pdf">https://michaelmabee.info/wp-content/uploads/2019/05/Reply-Comments-of-Michaelmabee.info/wp-content/uploads/2019/02/Petition-for-Rulemaking-Mabee-with-exhibits-1.pdf</a> (accessed August 12, 2019).

## The mind-numbing complexity of the regulatory scheme requires transparency (and, likely, reform).

#### Who regulates the grid? (Spoiler alert: no one)

The North American electric grid is an amazing human accomplishment. It is the largest machine in the history of the world, built piece by piece over many generations. Unfortunately, the regulatory system has also been built piece by piece over the years and today is as overly complex and unwieldy as a Rube Goldberg cartoon. The Federal Energy Regulatory Commission (FERC) has authority only over the "bulk power system" which is largely the interstate transmission system. However, FERC's authority is complicated and indirect: largely the grid is self-regulated through a private corporation—the North American Electric Reliability Corporation (NERC). Again, this is largely just the "bulk power system."

In fact, our electric grid today is regulated by over 60 regulators at the federal and state level as well as a mix of non-governmental non-profit regulators. To further complicate matters, on the federal level alone we have numerous agencies with some degree of interest in protecting the electric grid: FERC, DOE, DHS, NRC and DOD to name a few obvious ones. However, only FERC has any authority over "the electric grid" and FERC's limited authority is only over the Bulk Power System—that portion at 100kV and above.

Each state has its own Public Utility Commission (PUC) which regulates distribution and, in some cases, generation plants. Some generation plants are regulated by other agencies, such as the Nuclear Regulatory Commission (NRC).

So, in the end, no one body regulates "the grid" (i.e., generation, transmission and distribution). Our most critical infrastructure consists of "patchwork" regulation, dependent of scores of agencies, with scores of often conflicting agendas, varying ability (or willingness) to communicate. And most of all, it depends on thousands of companies to do the right thing when there is no strong requirement or incentive for them to do so.

In sum, the present regulatory system is a disaster waiting to happen.

Moreover, many companies transcend regulatory lines. Many companies fall under both FERC/NERC and PUC jurisdiction (and possibly other agencies, such as the NRC).

- State PUC's need to know the identities of the CIP violators because, among other things, state PUC's often control the funding for mitigation.
- Some of these companies may supply critical DOD and DHS facilities. DOD and DHS need to know if companies they are dependent upon to power facilities critical to national security are violating CIP standards.
- Some of these companies may operate nuclear generation plants and fall under the jurisdiction
  of the NRC as well as FERC/NERC and a PUC (or more than one PUC). These regulators all need
  to know if the companies they regulate are in violation of CIP standards.

Some of these companies are also regulated by the Securities Exchange Commission and have
reporting requirements for material events. Since the names of CIP violators are being covered
up, investors are unaware of the cybersecurity risks that these publicly traded companies face—
and whether the "C Suite" is taking appropriate actions to mitigate (or at least disclose) investor
risk.

It is hard to imagine how such a Balkanized system would function in any context, and clearly it is not functioning efficiently in terms of the CIP red flags previously discussed. And we are talking here about protecting our most critical infrastructure—one in which the lives of 327 million Americans and our very national security depends.

Until the regulatory system is reformed by Congress, disclosure and transparency are critical to our national security. There is no possible way for there to be accountability for the thousands of companies involved in the generation, transmission and distribution of electric power in the U.S. (the whole grid—not just the BPS) except for transparency by FERC and NERC.

#### Who pays the CIP fines and who pays for mitigation?

If the possibility of hundreds of thousands, if not millions of deaths in a long-term blackout isn't disturbing enough, consider this:

- Who is paying for the CIP violation fines—the ratepayers or the shareholders?
- Who is paying for any mitigation ordered or agreed upon—the ratepayers or the shareholders?
- Most importantly, who decides who pays?

The last question is easy: Absent transparency, the regulatory violator decides who pays. This is why it is critical that the Commission release the names of the regulatory violators along with sufficient information so that the public ("ratepayers"), investors ("shareholders"), the PUCs (the ones who should be making these decisions) and Congress (the oversight) can see what is happening.

Last year, PG&E Corp was fined 2.7 million dollars for a cyber breach (which was exposed by one of my Freedom of Information Act requests). <sup>60</sup> PG&E presumably also had to spend an unknown amount (but likely a substantial amount) of money on mitigation. Somebody had to pay for all of this. Because I could find no disclosure of the event or its costs in PG&E's filings with the Securities and Exchange Commission, it is impossible for the public to know whether the shareholders or the ratepayers ate these costs—I am sure both groups would like to know.

Does it make a difference in who should pay if a company is a repeat CIP violator? Does it make a difference in who should pay if the company is negligent?

The *last* one who should be deciding who pays *is the regulatory violator*. This decision should be made by the appropriate regulator (the PUC) with full transparency to the two possible victims: the ratepayers and the shareholders.

<sup>&</sup>lt;sup>60</sup> See report: <a href="https://michaelmabee.info/pge-endangered-the-grid/">https://michaelmabee.info/pge-endangered-the-grid/</a> (accessed October 22, 2019).

Ratepayers and investors deserve transparency and accountability. PUCs and Congress deserve sufficient information to effectively regulate and govern. Regulatory violators do not deserve reputational protection by the regulators at the expense of the public interest.

#### Conclusion

The electric grid—including generation, transmission and distribution—is *the most* critical infrastructure as all other critical infrastructures depend on it.

The American people, investors, Congress and other regulators are not getting enough information to evaluate the threats to the electric grid (generation, transmission and distribution), whether there are repeat violators and whether the regulatory regime is effective. There is ample evidence of regulatory red flags and, from the regulators, only a confusing lack of information. We need action by both FERC and Congress:

FERC is the *only agency* in a position to act immediately to address the vulnerabilities to a critical portion of the electric grid (generation and high voltage transmission) that have been created by the industry's desire the keep the names of the CIP violators secret. FERC must decide in the public interest and make increased transparency its policy.

Congress must also act to streamline or revise this overly complex regulatory system and set a federal minimum for critical infrastructure protection for the entire electric grid, including generation, transmission and distribution. We can no longer leave America's Achilles' heel in this inefficient regulatory morass.

Moreover, we can no longer tolerate the fact that keeping our lights on is dependent upon the discretion of Russia and China.

#### **Recommendations:**

- The Commission should adopt my alternate proposal submitted to this docket on September 3, 2019
  as the default disclosure for future Notices of Penalty (NOPs), Spreadsheet Notices of Penalty
  (SNOPs), "Find, Fix Track" cases (FFTs) and Compliance Exemptions (CEs). This alternate proposal
  would provide sufficient information to the public, investors, Congress and other regulators and
  would not provide adversaries with actionable information. The alternate proposal has been
  supported by numerous other commenters on this docket, including internationally renowned
  security experts.
- 2. The Department of Energy must enhance the publicly available OE-417 information so that the cause of each reported disturbance and the number of customers affected can be easily discerned.
- 3. The OE-417s and the NERC annual reliability reports do not tell the American people the same story. NERC's annual reliability reports must address the OE-417 data in order to eliminate this apparent discrepancy. If necessary, The Commission should direct NERC to do this. PUCs will need to be involved, so FERC should suggest that NARUC put this topic on their agenda for immediate action.

- 4. The Department of Energy Office of the Inspector General should investigate and report on the massive red flags in the enforcement of the physical security standard. Public information indicates that there has been a lack of regulatory action on physical security standards despite the fact that there have been 578 physical attacks against the grid reported from January 1, 2010 through May 31, 2019 according the Department of Energy OE-417 reports. Most disturbingly, NERC has reported only one physical attack in its annual reliability reports over the same period and the violations of the physical security standard have been cited only four times since the Metcalf attack in 2013.
- 5. The Commission (possibly in collaboration with DOE, DHS, DOD and the National Guard) should "Red Team" utilities in order to evaluate weaknesses and determine whether their cybersecurity and physical security programs are effective. FERC should work with the National Association of Regulatory Utility Commissioners (NARUC) to ensure like actions at the state-level.
- 6. The Commission should grant the Foundation for Resilient Societies "Motion for the Commission to Hold a Public Hearing" submitted to FERC on October 23, 2019.<sup>61</sup>
- 7. Congress should set a minimum federal floor for CIP standards for the entire electric infrastructure—not just the "bulk power system."
- 8. Congress should establish federal regulatory authority for protection of the entire U.S. electric grid—including generation, transmission and distribution.

Respectfully submitted,

Michael Mabee

CC: U.S. Department of Energy—Office of the Inspector General

U.S. Government Accountability Office

U.S. Congresswoman Anne Kuster (NH)

U.S. Senate Committee on Energy and Natural Resources

U.S. House Committee on Energy and Commerce

National Association of Regulatory Utility Commissioners

https://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=15388774 (accessed October 24, 2019).

<sup>&</sup>lt;sup>61</sup> FERC Accession Number: 20191023-5103 Available at

Application	Date	FERC Docket Number	Region	Registered Entity	Entities	Total Penalty (\$)	Years	FOIA	Disclosed=Y Denied=N	NOP	Order	A2 Spreadsheet	Disp
1,000,000   1,00	7/6/2010		SERC	South Carolina Electric & Gas	1	\$0	9.3	2019-0030	Υ	View NOP_	View Order		S
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22779218   9914.2003   9779	7/6/2010	NP10-139-000	WECC	Sunray Energy, Inc.	1	\$3,000	9.3	2019-0030	Υ	<u>View NOP</u>	<u>View Order</u>		S
System   S	7/6/2010	NP10-140-000	RFC	PJM	1	\$5,600	9.3	2019-0030	Υ	View NOP	<u>View Order</u>		S
1,00,000   1,00,000	2/27/2014	NP14-32-000	SPP RE	City Utilities of Springfield, MO	1	\$0	5.7	2019-0019	Υ	<u>View NOP</u>	<u>View Order</u>		
1,747,2710   1971-1-7-200   1971-1	5/29/2014	NP14-41-000	WECC	Pacific Gas and Electric Company	1	\$98,500	5.4	2019-0019	Υ	View NOP	<u>View Order</u>		
1,000,000   1,00	2/28/2018	NP18-7-000	WECC	Pacific Gas and Electric Company	1	\$2,700,000	1.7	2018-0075	Υ	<u>View Filing</u>	<u>View Notice</u>		
Applicate	1/30/2014	NP14-30-000	RFC	Unidentified Registered Entity	1	\$75,000	5.7	2019-0019	N	View NOP	View Order		
17/6/2010   PhD 134 000   SPP	3/31/2014	NP14-37-000	WECC	Unidentified Registered Entity	1	\$465,000	5.6	2019-0019	N	View NOP	<u>View Order</u>		
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2/23/2011 NP11-110-00 MRO   Unidentified Registered Entity   1   \$120,000   8.7   2019-0030   View NOP >> View Order >> S   2/23/2011 NP11-16-000   FRCC   Unidentified Registered Entity   1   \$75,000   8.7   2019-0030   View NOP >> View Order >> S   2/23/2011 NP11-120-000   FRCC   Unidentified Registered Entity   1   \$100,000   8.7   2019-0030   View NOP >> View Order >> S   2/23/2011 NP11-120-000   SP, RFC   Unidentified Registered Entity   1   \$77,000   8.7   2019-0030   View NOP >> View Order >> S   View O												View A-2 Spreadsheet >>	S
2/23/2011 NP11-116-000 FRCC   Unidentified Registered Entity   1   \$75,000   8.7   2019-0030   View NOP >>   View Order >>   \$   \$   \$   \$   \$   \$   \$   \$   \$													
2/23/2011   NP11-124-000   RFC													<u>S</u>
2/23/2011 NP11-125-000 SPP, RFC													5
2/23/2011   NP11-127-000   FRCC   Unidentified Registered Entity   1   \$55,000   8.7   2019-0030   View NOP >>   View Order >>   S													<u>S</u>
2/23/2011 NP11-128-000 WECC													S
2/28/2011         NP11-133-000         Various         Unidentified Registered Entities         5         \$11,500         8.7         2019-0030         View NOP >>         View Order >>         View Order >>         NCV           3/30/2011         NP11-136-000         WECC         Unidentified Registered Entity         1         \$14,500         8.6         2019-0030         View NOP >>         View Order >>         NCV           3/30/2011         NP11-137-000         WECC         Unidentified Registered Entity         1         \$106,000         8.6         2019-0030         View NOP >>         View Order >>         S           3/30/2011         NP11-140-000         WECC         Unidentified Registered Entity         1         \$27,000         8.6         2019-0030         View NOP >>         View Order >>         S           3/30/2011         NP11-140-000         WECC         Unidentified Registered Entity         1         \$5,000         8.6         2019-0030         View NOP >>         View Order >>         S           3/30/2011         NP11-145-000         WECC         Unidentified Registered Entity         1         \$13,000         8.6         2019-0030         View NOP >>         View Order >>         S           3/30/2011         NP11-146-000         RFC         Un													S
3/30/2011 NP11-136-000 WECC   Unidentified Registered Entity   1   \$14,500   8.6   2019-0030   View NOP >>   View Order >>   S													S
3/30/2011 NP11-137-000 WECC Unidentified Registered Entity												View A-2 Spreadsheet >>	
3/30/2011 NP11-140-000 WECC Unidentified Registered Entity 1 \$27,000 8.6 2019-0030 View NOP>> View Order>>   S   3/30/2011 NP11-143-000 SERC Unidentified Registered Entity 1 \$5,000 8.6 2019-0030 View NOP>> View Order>>   S   3/30/2011 NP11-145-000 WECC Unidentified Registered Entity 1 \$13,000 8.6 2019-0030 View NOP>> View Order>>   S   3/30/2011 NP11-146-000 RFC Unidentified Registered Entities 3 \$52,500 8.6 2019-0030 View NOP>> View Order>>   S   3/30/2011 NP11-149-000 RFC Unidentified Registered Entity 1 \$20,000 8.6 2019-0030 View NOP>> View Order>>   S   3/30/2011 NP11-150-000 MRO Unidentified Registered Entity 1 \$20,000 8.6 2019-0030 View NOP>> View Order>>   S   S   S   S   S   S   S   S   S													NCV
3/30/2011 NP11-143-000 SERC Unidentified Registered Entity 1 \$5,000 8.6 2019-0030 View NOP >> View Order >> S											<u>View Order &gt;&gt;</u>		S
3/30/2011 NP11-145-000 WECC Unidentified Registered Entity 1 \$13,000 8.6 2019-0030 View NOP>> View Order>> S   3/30/2011 NP11-146-000 RFC Unidentified Registered Entities 3 \$52,500 8.6 2019-0030 View NOP>> View Order>> S   3/30/2011 NP11-149-000 RFC Unidentified Registered Entity 1 \$20,000 8.6 2019-0030 View NOP>> View Order>> S   3/30/2011 NP11-150-000 MRO Unidentified Registered Entity 1 \$0 8.6 2019-0030 View NOP>> View Order>> NCV   3/30/2011 NP11-155-000 WECC Unidentified Registered Entity 1 \$2,000 8.6 2019-0030 View NOP>> View Order>> S   3/30/2011 NP11-155-000 WECC Unidentified Registered Entity 1 \$2,000 8.6 2019-0030 View NOP>> View Order>> S   3/30/2011 NP11-156-000 SERC Unidentified Registered Entity 1 \$1,000 8.6 2019-0030 View NOP>> View Order>> S   3/30/2011 NP11-157-000 SERC Unidentified Registered Entity 1 \$1,000 8.6 2019-0030 View NOP>> View Order>> S   S   3/30/2011 NP11-157-000 SERC Unidentified Registered Entity 1 \$1,000 8.6 2019-0030 View NOP>> View Order>> S   S   3/30/2011 NP11-157-000 SERC Unidentified Registered Entity 1 \$1,000 8.6 2019-0030 View NOP>> View Order>> S   S   3/30/2011 NP11-157-000 SERC Unidentified Registered Entity 1 \$1,000 8.6 2019-0030 View NOP>> View Order>> S   S   3/30/2011 NP11-157-000 SERC Unidentified Registered Entity 1 \$1,000 8.6 2019-0030 View NOP>> View Order>> S   S   3/30/2011 NP11-157-000 SERC Unidentified Registered Entity 1 \$1,000 8.6 2019-0030 View NOP>> View Order>> S   S   3/30/2011 NP11-157-000 SERC Unidentified Registered Entity 1 \$1,000 8.6 2019-0030 View NOP>> View Order>> S   3/30/2011 NP11-157-000 SERC Unidentified Registered Entity 1 \$1,000 8.6 2019-0030 View NOP>> View Order>> S   3/30/2011 NP11-157-000 SERC Unidentified Registered Entity 1 \$1,000 8.6 2019-0030 View NOP>> View Order>> S   3/30/2011 NP11-157-000 SERC Unidentified Registered Entity 1 \$1,000 8.6 2019-0030 View NOP>> View Order>> S   3/30/2011 NP11-157-000 SERC Unidentified Registered Entity 1 \$1,000 8.6 2019-0030 View NOP>> View Order>> S   3/30/2011 NP11-157-000 SERC Unidentifie				Unidentified Registered Entity									S
3/30/2011         NP11-146-000         RFC         Unidentified Registered Entities         3         \$52,500         8.6         2019-0030         View NOP>>         View Order>>         \$5           3/30/2011         NP11-149-000         RFC         Unidentified Registered Entity         1         \$20,000         8.6         2019-0030         View NOP>>         View Order>>         \$5           3/30/2011         NP11-150-000         MRO         Unidentified Registered Entity         1         \$0         8.6         2019-0030         View NOP>>         View Order>>         NCV           3/30/2011         NP11-155-000         WECC         Unidentified Registered Entity         1         \$2,000         8.6         2019-0030         View NOP>>         View Order>>         \$5           3/30/2011         NP11-156-000         SERC         Unidentified Registered Entity         1         \$12,500         8.6         2019-0030         View NOP>>         View Order>>         \$5           3/30/2011         NP11-156-000         SERC         Unidentified Registered Entity         1         \$7,000         8.6         2019-0030         View NOP>>         View Order>>         \$5           3/30/2011         NP11-157-000         SERC         Unidentified Registered Entity         1													S
3/30/2011 NP11-149-000 RFC													S
3/30/2011         NP11-150-000         MRO         Unidentified Registered Entity         1         \$0         8.6 2019-0030         View NOP>>         View Order>>         NCV           3/30/2011         NP11-155-000         WECC         Unidentified Registered Entity         1         \$2,000         8.6 2019-0030         View NOP>>         View Order>>         5           3/30/2011         NP11-156-000         SERC         Unidentified Registered Entity         1         \$12,500         8.6 2019-0030         View NOP>>         View Order>>         5           3/30/2011         NP11-157-000         SERC         Unidentified Registered Entity         1         \$7,000         8.6 2019-0030         View NOP>>         View Order>>         5										<u>View NOP &gt;&gt;</u>			S
3/30/2011         NP11-155-000         WECC         Unidentified Registered Entity         1         \$2,000         8.6 2019-0030         View NOP >>         View Order >>         S           3/30/2011         NP11-156-000         SERC         Unidentified Registered Entity         1         \$12,500         8.6 2019-0030         View NOP >>         View Order >>         S           3/30/2011         NP11-157-000         SERC         Unidentified Registered Entity         1         \$7,000         8.6 2019-0030         View NOP >>         View Order >>         S	3/30/2011	NP11-149-000	RFC	Unidentified Registered Entity	1	\$20,000	8.6	2019-0030		<u>View NOP &gt;&gt;</u>	<u>View Order &gt;&gt;</u>		S
3/30/2011         NP11-156-000         SERC         Unidentified Registered Entity         1         \$12,500         8.6 2019-0030         View NOP >>         View Order >>         S           3/30/2011         NP11-157-000         SERC         Unidentified Registered Entity         1         \$7,000         8.6 2019-0030         View NOP >>         View Order >>         S	3/30/2011	NP11-150-000	MRO	Unidentified Registered Entity	1	\$0	8.6	2019-0030		<u>View NOP &gt;&gt;</u>	<u>View Order &gt;&gt;</u>		NCV
3/30/2011 NP11-157-000 SERC Unidentified Registered Entity 1 \$7,000 8.6 2019-0030 <u>View NOP &gt;&gt; View Order &gt;&gt;</u> S	3/30/2011	NP11-155-000	WECC	Unidentified Registered Entity	1	\$2,000	8.6	2019-0030		View NOP >>	View Order >>		S
3/30/2011 NP11-157-000 SERC Unidentified Registered Entity 1 \$7,000 8.6 2019-0030 <u>View NOP &gt;&gt; View Order &gt;&gt;</u> S	3/30/2011	NP11-156-000	SERC	Unidentified Registered Entity	1	\$12,500	8.6	2019-0030		View NOP >>	View Order >>		S
	3/30/2011	NP11-157-000	SERC	Unidentified Registered Entity	1	\$7,000	8.6	2019-0030		View NOP >>			S
3/30/2011   1811-101-000   WECC   Ollidelitiled registered citits   1   \$35,000   8.0[2013-0030     VIEW MOP >>   VIEW MOP >>   VIEW MODE! >>	3/30/2011	NP11-161-000	WECC	Unidentified Registered Entity	1	\$35,000	8.6	2019-0030		View NOP >>	View Order >>		S

Date	FERC Docket Number	Region	Registered Entity	Entities	Total Penalty (\$)	Years	FOIA	Disclosed=Y Denied=N	NOP	Order	A2 Spreadsheet	Disp
3/31/2011	NP11-162-000	TRE, NPCC	Unidentified Registered Entities	2	\$10,500	8.6	2019-0030		View NOP >>	View Order >>	View A-2 Spreadsheet >>	S
4/29/2011	NP11-166-000	SPP, TRE	Unidentified Registered Entity	1	\$50,000	8.5	2019-0030		View NOP >>	View Order >>		S
4/29/2011	NP11-167-000	WECC	Unidentified Registered Entity	1	\$89,000	8.5	2019-0030		View NOP >>	View Order >>		S
4/29/2011	NP11-174-000	RFC	Unidentified Registered Entity	1	\$15,000	8.5	2019-0030		View NOP >>	View Order >>		S
4/29/2011	NP11-175-000	WECC	Unidentified Registered Entity	1	\$32,000	8.5	2019-0030		View NOP >>	View Order >>		S
4/29/2011	NP11-176-000	WECC	Unidentified Registered Entity	1	\$80,000	8.5	2019-0030		View NOP >>	View Order >>		S
4/29/2011	NP11-178-000	WECC	Unidentified Registered Entity	1	\$35,000		2019-0030		View NOP >	View Order >>		S
4/29/2011	NP11-179-000	MRO	Unidentified Registered Entity	1	\$10,000		2019-0030		View NOP >>	View Order >>		S
4/29/2011	NP11-180-000	WECC	Unidentified Registered Entity	1	\$71,500		2019-0030		View NOP >>	View Order >>		S
4/29/2011	NP11-181-000	FRCC, NPCC	Unidentified Registered Entities	6	\$39,500		2019-0030		View NOP >>	View Order >>	View A-2 Spreadsheet >>	S
5/26/2011	NP11-182-000	WECC	Unidentified Registered Entity	1	\$59,000		2019-0030		View NOP >>	View Order >>		S
5/26/2011	NP11-184-000	RFC	Unidentified Registered Entity	1	\$70,000		2019-0030		View NOP >>	View Order >>	View Data Request >>	S
5/26/2011	NP11-188-000	SPP	Unidentified Registered Entity	1	\$16,860		2019-0030		View NOP >>	View Order >>	view bata request>>	5
5/26/2011	NP11-189-000	FRCC	Unidentified Registered Entity	1	\$17,000		2019-0030		View NOP >>	View Order >>		<u> </u>
5/26/2011	NP11-192-000	WECC	Unidentified Registered Entity	1	\$12,200		2019-0030		View NOP >>	View Order >>		NCV
5/26/2011	NP11-193-000	WECC	Unidentified Registered Entity	1	\$60,000		2019-0030		View NOP >>			c
	NP11-193-000	SPP		1	\$17,860		2019-0030		View NOP >>	<u>View Order &gt;&gt;</u> View Order >>		- 5
5/26/2011	NP11-198-000 NP11-199-000	Various	Unidentified Registered Entity	3							View A 2 Consedeback >	5
5/26/2011 6/29/2011	NP11-199-000 NP11-204-000	WECC	Unidentified Registered Entities	1	\$3,500 \$37,500		2019-0030 2019-0030		View NOP >> View NOP >>	<u>View Order &gt;&gt;</u> View Order >>	<u>View A-2 Spreadsheet &gt;&gt;</u>	
			Unidentified Registered Entity	1	\$22,000							5
6/29/2011	NP11-205-000	WECC	Unidentified Registered Entity				2019-0030		View NOP >>	<u>View Order &gt;&gt;</u>	NO. 6 1 1 1	5
6/29/2011	NP11-206-000	NPCC	Unidentified Registered Entity	3	\$80,000		2019-0030		View NOP >>	<u>View Order &gt;&gt;</u>	<u>View Supplemental &gt;&gt;</u>	
6/29/2011	NP11-211-000	WECC	Unidentified Registered Entity	1	\$14,000		2019-0030		View NOP >>	<u>View Order &gt;&gt;</u>		S
6/29/2011	NP11-212-000	WECC	Unidentified Registered Entity	1	\$381,600		2019-0030		View NOP >>	<u>View Order &gt;&gt;</u>		NCV
6/29/2011	NP11-213-000	WECC	Unidentified Registered Entity	1	\$143,500		2019-0030		<u>View NOP &gt;&gt;</u>	<u>View Order &gt;&gt;</u>	<u>View Supplemental &gt;&gt;</u>	S
6/29/2011	NP11-218-000	WECC	Unidentified Registered Entity	1	\$130,000		2019-0030		<u>View NOP &gt;&gt;</u>	<u>View Order &gt;&gt;</u>		S
6/29/2011	NP11-223-000	SPP	Unidentified Registered Entity	1	\$30,000		2019-0030		View NOP >>	<u>View Order &gt;&gt;</u>		S
6/29/2011	NP11-225-000	RFC	Unidentified Registered Entity	1	\$10,000		2019-0030		<u>View NOP &gt;&gt;</u>	<u>View Order &gt;&gt;</u>		S
6/29/2011	NP11-226-000	RFC	Unidentified Registered Entity	1	\$85,000	8.3	2019-0030		<u>View NOP &gt;&gt;</u>	<u>View Order &gt;&gt;</u>		S
7/28/2011	NP11-229-000	WECC	Unidentified Registered Entity	1	\$75,000		2019-0030		View NOP >>	View Order >>		S
7/28/2011	NP11-230-000	RFC	Unidentified Registered Entity	1	\$18,000	8.3	2019-0030		<u>View NOP &gt;&gt;</u>	<u>View Order &gt;&gt;</u>		S
7/28/2011	NP11-233-000	WECC	Unidentified Registered Entity	1	\$70,000	8.3	2019-0030		View NOP >>	View Order >>		S
7/28/2011	NP11-234-000	WECC	Unidentified Registered Entity	1	\$35,000	8.3	2019-0030		View NOP >>	View Order >>		S
7/28/2011	NP11-237-000	RFC	Unidentified Registered Entity	3	\$180,000	8.3	2019-0030		View NOP >>	View Order >>		S
7/28/2011	NP11-243-000	RFC	Unidentified Registered Entity	1	\$20,000	8.3	2019-0030		View NOP >>	View Order >>		S
7/28/2011	NP11-247-000	RFC	Unidentified Registered Entity	1	\$15,000	8.3	2019-0030		View NOP >>	View Order >>		S
7/28/2011	NP11-248-000	WECC	Unidentified Registered Entity	1	\$5,000	8.3	2019-0030		View NOP >>	View Order >>		NCV
7/28/2011	NP11-249-000	WECC	Unidentified Registered Entity	1	\$18,000	8.3	2019-0030		View NOP >>	View Order >>		S
7/28/2011	NP11-250-000	WECC	Unidentified Registered Entity	1	\$12,600	8.3	2019-0030		View NOP >>	View Order >>		NCV
7/28/2011	NP11-251-000	WECC	Unidentified Registered Entity	1	\$7,000	8.3	2019-0030		View NOP >>	View Order >>		S
7/29/2011	NP11-253-000	Various	Unidentified Registered Entities	8	\$26,500	8.3	2019-0030		View NOP >>	View Order >>	View A-2 Spreadsheet >>	Both
8/31/2011	NP11-261-000	RFC	Unidentified Registered Entity	1	\$70,000	8.2	2019-0030		View NOP >>	View Order >>		S
8/31/2011	NP11-262-000	SPP	Unidentified Registered Entity	1	\$12,000		2019-0030		View NOP >>	View Order >>		s
8/31/2011	NP11-263-000	TRE	Unidentified Registered Entity	1	\$11,000		2019-0030		View NOP >>	View Order >>		S
8/31/2011	NP11-264-000	SPP	Unidentified Registered Entity	1	\$8,000		2019-0030		View NOP >>	View Order >>		s
8/31/2011	NP11-266-000	Various	Unidentified Registered Entities	5	\$63,500		2019-0030		View NOP >>	View Order >>	View A-2 Spreadsheet >>	Both
9/30/2011	NP11-269-000	WECC	Unidentified Registered Entity	1	\$225,000		2019-0030		View NOP >>	View Order >>		S
9/30/2011	NP11-270-000	Various	Unidentified Registered Entities	21	\$193,900		2019-0030		View NOP >>	View Order >>	View A-2 Spreadsheet >>	<del>Ť – –</del>
9/30/2011	RC11-6-000	Various	Unidentified Registered Entities	59	\$193,900		2019-0030		View Filing >>	View Order >>	View A-1 Spreadsheet >>	+
10/31/2011	NP12-1-000	RFC	Unidentified Registered Entities	3	\$275,000		2019-0030		View Filing >>	View Order >>	View A-2 Corrected Spreadsheet >>	<u> </u>
10/31/2011	NP12-1-000 NP12-2-000	Various	Unidentified Registered Entities  Unidentified Registered Entities	16	\$184,200		2019-0030		View Filing >>	View Order >>	View A-2 Corrected Spreadsheet >>	
	RC12-1-000			33	\$184,200		2019-0030		View Filing >>	View Order >>	View A-1 Spreadsheet >>	<del>-</del>
10/31/2011 11/30/2011	NP12-3-000	Various WECC	Unidentified Registered Entities	1	\$125,000						view A-1 Spredusileet >>	<del></del>
			Unidentified Registered Entity				2019-0030		View NOP >>	<u>View Order &gt;&gt;</u>		2
11/30/2011	NP12-4-000	WECC	Unidentified Registered Entity	1	\$160,000		2019-0030		View NOP >>	<u>View Order &gt;&gt;</u>	Visco A 2 Consodebase	3
11/30/2011	NP12-5-000	RF, WECC	Unidentified Registered Entities	12	\$89,000		2019-0030		View Filing >>	View Order >>	View A-2 Spreadsheet >>	
11/30/2011	RC12-2-000	Various	Unidentified Registered Entities	30	\$0		2019-0030		View Filing >>	<u>View Order &gt;&gt;</u>	View A-1 Spreadsheet >>	
12/30/2011	NP12-10-000	Various	Unidentified Registered Entities	21	\$109,600		2019-0030		View Filing >>	<u>View Order &gt;&gt;</u>	View A-2 Corrected Spreadsheet >>	S
12/30/2011	NP12-9-000	RFC	Unidentified Registered Entity	1	\$60,000	7.8	2019-0030		<u>View NOP &gt;&gt;</u>	<u>View Order &gt;&gt;</u>		S

	Number	Region	Registered Entity	Entities	Total Penalty (\$)	Years	FOIA	Disclosed=Y Denied=N	NOP	Order	A2 Spreadsheet	Disp
12/30/2011	RC12-6-000	Various	Unidentified Registered Entities	40	\$0	7.8	2019-0030		View Filing >>	View Order >>	View A-1 Spreadsheet >>	S
	NP12-11-000	WECC	Unidentified Registered Entity	1	\$135,000		2019-0030		View NOP >>	View Order >>		S
1/31/2012	NP12-12-000	Various	Unidentified Registered Entities	18	\$160,500	7.7	2019-0030		View Filing >>	View Order >>	View A-2 Spreadsheet >>	Both
1/31/2012	RC12-7-000	Various	Unidentified Registered Entities	30	\$0		2019-0030		View Filing >>	View Order >>		FFT
	NP12-16-000	WECC	Unidentified Registered Entity	1	\$80,000		2019-0030		https://elibrary.ferc.gov/idmws/cor		PfileID=12905400	S
	NP12-17-000	SPP RE	Unidentified Registered Entity	1	\$40,000		2019-0030		https://elibrary.ferc.gov/idmws/cor			- s
	NP12-18-000	Various	Unidentified Registered Entities	23	\$222,900		2019-0030		View Filing >>	View Order >>	View A-2 Spreadsheet >>	<u> </u>
	RC12-8-000	Various	Unidentified Registered Entities	24	\$0		2019-0030		View Filing >>	View Order >>	View A-1 Spreadsheet >>	FFT
	NP12-20-000	WECC	Unidentified Registered Entity	1	\$60,000		2019-0030		View NOP >>	View Order >>	VICW /Y 1 Spreadsheet >>	<u> </u>
	NP12-22-000	Various	Unidentified Registered Entities	15	\$42,000		2019-0030		View NOP >>	View Order >>	View A-2 Spreadsheet >>	Both
	RC12-10-000	Various	Unidentified Registered Entities  Unidentified Registered Entities	12	\$42,000		2019-0030		View Filing >>	view Order >>	View A-2 Spreadsheet >>	FFT
	NP12-25-000	RFC	-	1	\$115,000		2019-0030		View NOP >>	View Order >>	view A-2 Spreadsfieet >>	- FF 1
	NP12-25-000 NP12-26-000	Various	Unidentified Registered Entity	18	\$95,300		2019-0030		View NOP >>	View Order >>	View A-2 Spreadsheet >>	Doth
			Unidentified Registered Entities							<u>View Order &gt;&gt;</u>		Both
	RC12-11-000	Various	Unidentified Registered Entities	18	\$0		2019-0030		View Supplemental Filing >>	10 0 1	View A-2 Spreadsheet >>	FFT
	NP12-27-000	Various	Unidentified Registered Entities	20	\$48,600		2019-0030		View NOP >>	<u>View Order &gt;&gt;</u>	View A-2 Spreadsheet	5
	NP12-29-000	WECC	Unidentified Registered Entity	1	\$162,200		2019-0030		View NOP >>	<u>View Order &gt;&gt;</u>		NCV
	RC12-12-000	Various	Unidentified Registered Entities	40	\$0		2019-0030		<u>View Filing &gt;&gt;</u>		View A-2 Spreadsheet >>	FFT
	NP12-36-000	Various	Unidentified Registered Entities	15	\$121,900		2019-0030		<u>View NOP &gt;&gt;</u>	<u>View Order &gt;&gt;</u>	<u>View A-2 Spreadsheet</u>	Both
	RC12-13-000	Various	Unidentified Registered Entities	40	\$0		2019-0030		<u>View Filing &gt;&gt;</u>		View A-2 Spreadsheet >>	FFT
7/31/2012	NP12-37-000	WECC	Unidentified Registered Entities	4	\$134,350	7.2	2019-0030		<u>View NOP &gt;&gt;</u>	View Order >>		S
7/31/2012	NP12-38-000	WECC	Unidentified Registered Entity	1	\$72,000	7.2	2019-0030		https://elibrary.ferc.gov/idmws/co	<u>View Order &gt;&gt;</u>		S
7/31/2012	NP12-40-000	Various	Unidentified Registered Entities	15	\$101,100	7.2	2019-0030		https://elibrary.ferc.gov/idmws/c	<u>View Order &gt;&gt;</u>	View A-2 Spreadsheet >>	Both
7/31/2012	RC12-14-000	Various	Unidentified Registered Entities	30	\$0	7.2	2019-0030		<u>View Filing &gt;&gt;</u>		View A-2 Spreadsheet >>	FFT
8/31/2012	NP12-43-000	WECC	Unidentified Registered Entity	1	\$70,000	7.2	2019-0030		View NOP >>	View Order >>		S
8/31/2012	NP12-44-000	Various	Unidentified Registered Entities	16	\$182,800	7.2	2019-0030		View NOP >>	View Order >>	View A-2 Spreadsheet >>	Both
8/31/2012	RC12-15-000	Various	Unidentified Registered Entities	38	\$0	7.2	2019-0030		View Filing >>	View Order >>	View A-2 Spreadsheet >>	FFT
9/28/2012	NP12-45-000	FRCC	Unidentified Registered Entity	1	\$150,000	7.1	2019-0030		View NOP >>	View Order >>		S
9/28/2012	NP12-46-000	WECC	Unidentified Registered Entity	1	\$200,000	7.1	2019-0030		View NOP >>	View Order >>		S
9/28/2012	NP12-47-000	Various	Unidentified Registered Entities	14	\$113,400	7.1	2019-0030		View NOP >>	View Order >>	View A-2 Spreadsheet >>	Both
9/28/2012	RC12-16-000	Various	Unidentified Registered Entities	41	\$0	7.1	2019-0030		View Filing >>		View A-2 Spreadsheet >>	FFT
10/31/2012	NP13-1-000	WECC	Unidentified Registered Entity	1	\$200,000		2019-0030		View NOP >>	View Order >>		S
10/31/2012	NP13-4-000	RFC	Unidentified Registered Entities	3	\$725,000		2019-0030		View NOP >>	View Order >>		S
10/31/2012	NP13-5-000	Various	Unidentified Registered Entities	19	\$216,000		2019-0030		View NOP >>	View Order >>	View A-2 Spreadsheet >>	5
10/31/2012	RC13-1-000	Various	Unidentified Registered Entities	44	\$0		2019-0030		View Filing >>		View A-2 Spreadsheet >>	FFT
11/30/2012	NP13-6-000	WECC	Unidentified Registered Entity	1	\$62,500		2019-0030		View NOP >>	View Order >>	view // 2 Spreadsheet >>	NCV
11/30/2012	RC13-2-000	Various	Unidentified Registered Entities	25	\$02,500		2019-0030		View Filing >>	VIEW OTUCE >>	View A-2 Spreadsheet >>	FFT
	NP13-11-000	SPP	Unidentified Registered Entity	1	\$107,000		2019-0030		View NOP >>		view A-2 Spreadsheet >>	
	NP13-11-000	Various	Unidentified Registered Entities	21	\$214,000		2019-0030		View Filing >>	View Order >>	View A-2 Spreadsheet >>	Both
	NP13-12-000 NP13-16-000	WECC	Unidentified Registered Entitles  Unidentified Registered Entity	1	\$207,000		2019-0030			view Order >>	view A-2 Spreausileet >>	c
	NP13-16-000 NP13-17-000	RFC	·	3	\$80,000		2019-0030		View NOP >> View NOP >>	View Order >>		s
	NP13-17-000 NP13-18-000	SPP	Unidentified Registered Entities		\$80,000					view order >>		- 3  -
			Unidentified Registered Entity	1			2019-0030		View NOP >>			<u> </u> 5
	NP13-19-000	SERC	Unidentified Registered Entity		\$950,000		2019-0030		View NOP >>		Man A 2 Complete and	
12/31/2012	RC13-3-000	Various	Unidentified Registered Entities	25	\$0		2019-0030		View Filing >>	Minus October	<u>View A-2 Spreadsheet &gt;&gt;</u>	FFT
	NP13-22-000	WECC	Unidentified Registered Entity	1	\$115,000		2019-0030		View NOP >>	View Order >>		
	NP13-23-000	Various	Unidentified Registered Entities	22	\$73,000		2019-0030		View Filing >>	<u>View Order &gt;&gt;</u>	View A-2 Spreadsheet >>	S
1/31/2013	RC13-5-000	Various	Unidentified Registered Entities	22	\$0		2019-0030		View Filing >>		<u>View A-2 Spreadsheet &gt;&gt;</u>	FFT
	NP13-24-000	WECC	Unidentified Registered Entity	3	\$151,500		2019-0030		<u>View NOP &gt;&gt;</u>	<u>View Order &gt;&gt;</u>		S
	NP13-27-000	Various	Unidentified Registered Entities	14	\$53,000		2019-0030		<u>View Filing &gt;&gt;</u>			Both
2/28/2013	RC13-6-000	Various	Unidentified Registered Entities	27	\$0		2019-0030		<u>View Filing &gt;&gt;</u>		View A-2 Spreadsheet >>	FFT
	NP13-30-000	RFC	Unidentified Registered Entity	3	\$120,000		2019-0030		<u>View NOP &gt;&gt;</u>		View Errata>>	S
-, ,	NP13-28-000	Various	Unidentified Registered Entity	1	\$90,000		2019-0030		<u>View NOP &gt;&gt;</u>	<u>View Order &gt;&gt;</u>		S
3/27/2013	NP13-29-000	Various	Unidentified Registered Entities	10	\$80,000	6.6	2019-0030		<u>View Filing &gt;&gt;</u>			S
4/30/2013	NP13-32-000	NERC	Unidentified Registered Entity	1	\$40,000	6.5	2019-0030		<u>View NOP &gt;&gt;</u>	View Order >>		S
4/30/2013	NP13-33-000	Various	Unidentified Registered Entities	18	\$315,250	6.5	2019-0030		View Filing >>			Both
4/30/2013	RC13-8-000	Various	Unidentified Registered Entities	50	\$0	6.5	2019-0030		View Filing >>		View A-2 Spreadsheet >>	FFT
E/20/2012	NP13-34-000	Texas RE	Unidentified Registered Entity	1	\$137,000	6.4	2019-0030		View NOP >>			S
5/30/2013												

Date	FERC Docket Number	Region	Registered Entity	Entities	Total Penalty (\$)	Years	FOIA	Disclosed=Y Denied=N	NOP	Order	A2 Spreadsheet	Disp
5/30/2013	NP13-39-000	Various	Unidentified Registered Entities	16	\$67,500	6.4	2019-0030		View Filing >>	View Order >>	View A-2 Spreadsheet >>	s
5/30/2013	RC13-9-000	Various	Unidentified Registered Entities	53	\$0	6.4	2019-0030		View Filing >>		View A-2 Spreadsheet >>	FFT
6/27/2013	NP13-41-000	Various	Unidentified Registered Entities	20	\$198,000	6.3	2019-0030		View Filing >>	View Order >>	View A-2 Spreadsheet >>	Both
6/27/2013	RC13-10-000	Various	Unidentified Registered Entities	52	\$0	6.3	2019-0030		View Filing >>		View A-2 Spreadsheet >>	FFT
7/31/2013	NP13-45-000	WECC	Unidentified Registered Entity	1	\$198,000	6.2	2019-0030		View NOP >>	View Order>>		S
7/31/2013	NP13-46-000	Various	Unidentified Registered Entities	18	\$112,000	6.2	2019-0030		View Filing >>	View Order>>	View A-2 Spreadsheet >>	Both
7/31/2013	NP13-47-000	RFC, SERC	Unidentified Registered Entities	2	\$350,000	6.2	2019-0030		View NOP >>	View Order>>		S
8/30/2013	NP13-51-000	Various	Unidentified Registered Entities	18	\$98,000		2019-0030		View Filing >>	View Order>>		Both
9/30/2013	NP13-55-000	WECC	Unidentified Registered Entity	1	\$150,000	6.1	2019-0030		View NOP>>	View Order>>		S
9/30/2013	NP13-57-000	Various	Unidentified Registered Entities	12	\$189,000	6.1	2019-0030		View Filing >>	View Order>>	View A-2 Spreadsheet >>	S
10/30/2013	NP14-4-000	RF, SERC	Unidentified Registered Entities	16	\$55,000	6.0	2019-0030		View Filing >>	View Order>>	View A-2 Spreadsheet >>	S
10/30/2013	NP14-5-000	RFC	Unidentified Registered Entity	1	\$0		2019-0030		View NOP>>	View Order>>		S
11/27/2013	NP14-6-000	Various	Unidentified Registered Entities	14	\$142,000		2019-0030		View Filing >>	View Order>>	View A-2 Spreadsheet >>	S
12/30/2013	NP14-14-000	Various	Unidentified Registered Entities	18	\$276,500		2019-0030		View Filing >>	View Order>>	View A-2 Spreadsheet >>	Both
12/30/2013	NP14-16-000	SERC	Unidentified Registered Entity	1	\$50,000		2019-0030		View NOP>>	View Order>>		S
12/30/2013	NP14-17-000	WECC	Unidentified Registered Entity	1	\$144,000		2019-0030		View NOP>>	View Order>>		S
12/30/2013	NP14-18-000	SERC	Unidentified Registered Entity	1	\$110,000		2019-0030		View NOP>>	View Order>>		S
12/30/2013	NP14-19-000	WECC	Unidentified Registered Entity	1	\$185,000		2019-0030		View NOP>>	View Order>>	View Errata>>	S
12/30/2013	NP14-20-000	SERC	Unidentified Registered Entity	1	\$198,000		2019-0030		View NOP>>	View Order>>		S
12/30/2013	NP14-22-000	WECC	Unidentified Registered Entity	1	\$150,000		2019-0030		View NOP>>	View Order>>		- S
12/31/2013	NP14-21-000	SERC	Unidentified Registered Entity	1	\$175,000		2019-0030		View NOP>>	View Order>>		- S
12/31/2013	NP14-23-000	SPP RE	Unidentified Registered Entity	1	\$100,000		2019-0030		View NOP>>	View Order>>		<del>-</del> 5
12/31/2013	NP14-24-000	SERC	Unidentified Registered Entity	1	\$350,000		2019-0030		View NOP>>	View Order>>		<u>s</u>
12/31/2013	NP14-25-000	SERC	Unidentified Registered Entity	1	\$250,000		2019-0030		View NOP>>	View Order>>		<u>s</u>
12/31/2013	NP14-26-000	SERC	Unidentified Registered Entity	1	\$120,000		2019-0030		View NOP>>	View Order>>		s
1/30/2014	NP14-29-000	WECC	Unidentified Registered Entity	1	\$109,000		2019-0030		View NOP	View Order		
5/29/2014	NP14-42-000	SERC	Unidentified Registered Entity	1	\$250,000		2019-0019		View NOP	View Order		
7/31/2014	NP14-45-000	WECC	Unidentified Registered Entity	1	\$180,000		2019-0019		View Filing	View Order		
7/31/2014	NP14-45-000	RFC	Unidentified Registered Entities	7	\$50,000		2019-0019		View Filing	View Order		
8/27/2014	NP14-48-000	RFC/NPCC	Unidentified Registered Entities	3	\$625,000		2019-0019		View Filing	View Order		
10/30/2014	NP15-5-000	SPP	Unidentified Registered Entity	1	\$45,000		2019-0019		View Filing	View Order		
10/30/2014	NP15-6-000	TRE	Unidentified Registered Entity	1	\$106,000		2019-0019		View Filing	View Order		
11/25/2014	NP15-10-000	WECC	Unidentified Registered Entity	1	\$150,000		2019-0019		View Filing	View Order		
11/25/2014	NP15-10-000 NP15-11-000	RFC	Unidentified Registered Entity	1	\$150,000		2019-0019		View Filing	View Order		
	NP15-9-000	MRO		-	\$150,000		2019-0019		View Filing	View Order		
11/25/2014 12/30/2014	NP15-9-000 NP15-13-000	RFC	Unidentified Registered Entity Unidentified Registered Entity	1	\$150,000				View Filing	View Order		
							2019-0019					
12/30/2014 12/30/2014	NP15-15-000 NP15-17-000	SERC WECC	Unidentified Registered Entities	2	\$120,000 \$120,000		2019-0019 2019-0019		View Filing View Filing	<u>View Order</u>		
			Unidentified Registered Entity							<u>View Order</u>	View A 2 Consideration	
12/30/2014	NP15-18-000	Multiple	Unidentified Registered Entities	10	\$124,000		2019-0019		View Filing	<u>View Order</u>	<u>View A-2 Spreadsheet</u>	
2/26/2015	NP15-20-000	SERC	Unidentified Registered Entity	1	\$70,000		2019-0019		View Filing	<u>View Order</u>	View A 2 Consolidad	
3/31/2015	NP15-23-000	WECC	Unidentified Registered Entities	3	\$165,000		2019-0019		View Filing	View Order	View A-2 Spreadsheet	-
4/30/2015	NP15-24-000	RFC RFC	Unidentified Registered Entity	1	\$150,000		2019-0019		View Filing	View Order		-
4/30/2015	NP15-26-000		Unidentified Registered Entity	1	\$0		2019-0019 2019-0019		View Filing	View Order		-
8/31/2015	NP15-33-000	RFC	Unidentified Registered Entity		\$425,000				View Filing	View Order		-
10/29/2015	NP16-2-000	WECC	Unidentified Registered Entity	1	\$160,000		2019-0019		View Filing	View Order		-
12/1/2015	NP16-4-000	WECC	Unidentified Registered Entity	1	\$205,000		2019-0019		View Filing	<u>View Order</u>		
12/1/2015	NP16-5-000	WECC	Unidentified Registered Entity	1	\$200,000		2019-0019	-	View Filing	View Order		
12/30/2015	NP16-7-000	SPP	Unidentified Registered Entity	1	\$235,000		2019-0019		View Filing	<u>View Order</u>		
1/28/2016	NP16-10-000	RF	Unidentified Registered Entity	1	\$150,000		2019-0019	-	View Filing	View Order		
1/28/2016	NP16-9-000	WECC	Unidentified Registered Entity	1	\$0		2019-0019	-	View Filing	<u>View Order</u>		
2/29/2016	NP16-12-000	RF	Unidentified Registered Entity	1 -	\$1,700,000		2019-0019		View Filing	<u>View Order</u>		-
4/28/2016	NP16-18-000	RF / SERC	Unidentified Registered Entities	5	\$115,000		2019-0019		<u>View Filing</u>	<u>View Order</u>	View A-2 Spreadsheet	-
5/31/2016	NP16-20-000	FRCC	Unidentified Registered Entity	1	\$35,000		2019-0019		<u>View Filing</u>	<u>View Order</u>	View A-2 Spreadsheet	
7/28/2016	NP16-23-000	SERC	Unidentified Registered Entity	1	\$225,000		2019-0019		<u>View Filing</u>	<u>View Order</u>		
7/28/2016	NP16-24-000	SERC	Unidentified Registered Entity	1	\$180,000		2019-0019		View Filing	<u>View Order</u>		
10/31/2016	NP17-2-000	WECC	Unidentified Registered Entity	1	\$1,125,000		2019-0019		<u>View Filing</u>	<u>View Order</u>		
10/31/2016	NP17-3-000	WECC	Unidentified Registered Entity	1	\$250,000	3.0	2019-0019		<u>View Filing</u>	<u>View Order</u>		

Date	FERC Docket Number	Region	Registered Entity	Entities	Total Penalty (\$)	Years	FOIA	Disclosed=Y Denied=N	NOP	Order	A2 Spreadsheet	Disp
11/30/2016	NP17-8-000	MRO	Unidentified Registered Entity	1	\$142,000	2.9	2019-0019		View Filing	<u>View Order</u>		
12/29/2016	NP17-10-000	WECC	Unidentified Registered Entity	1	\$0	2.8	2019-0019		View Filing	<u>View Order</u>		
12/29/2016	NP17-11-000	WECC	Unidentified Registered Entity	1	\$0	2.8	2019-0019		View Filing	<u>View Order</u>		
12/29/2016	NP17-12-000	WECC /SERC	Unidentified Registered Entities	4	\$60,000	2.8	2019-0019		<u>View Filing</u>	<u>View Order</u>	View A-2 Spreadsheet	
12/29/2016	NP17-13-000	WECC	Unidentified Registered Entity	1	\$0	2.8	2019-0019		View Filing	<u>View Notice</u>		
4/27/2017	NP17-21-000	WECC	Unidentified Registered Entity	1	\$201,000	2.5	2019-0019		View Filing	View Notice		
7/31/2017	NP17-25-000	WECC	Unidentified Registered Entity	1	\$0	2.2	2019-0019		View Filing	<u>View Notice</u>	View A-2	
7/31/2017	NP17-26-000	SPP RE	Unidentified Registered Entity	1	\$250,000	2.2	2019-0019		View Filing	View Notice		
9/28/2017	NP17-31-000	SERC	Unidentified Registered Entity	1	\$500,000	2.1	2019-0019		View Filing	<u>View Notice</u>		
10/31/2017	NP18-2-000	WECC	Unidentified Registered Entities	2	\$0	2.0	2019-0019		View Filing	View Notice	View A-2	
5/31/2018	NP18-14-000	RF	Unidentified Registered Entity	1	\$180,000	1.4	2019-0019		View Filing	<u>View Notice</u>		
5/31/2018	NP18-15-000	WECC	Unidentified Registered Entity	1	\$0	1.4	2019-0019		View Filing	<u>View Notice</u>	View A-2	
7/31/2018	NP18-21-000	WECC	Unidentified Registered Entity	1	\$0	1.2	2019-0019		<u>View Filing</u>	View Notice	View A-2	
8/30/2018	NP18-22-000	WECC	Unidentified Registered Entity	1	\$0	1.2	2019-0019		View Filing	<u>View Notice</u>		
9/27/2018	NP18-26-000	NPCC	Unidentified Registered Entity	1	\$0	1.1	2019-0019		View Filing	View Notice	View A-2	
1/25/2019	NP19-4-000	XXX	Unidentified Registered Entity	1	\$10,000,000	0.8	2019-0099		View Filing >>	View Notice >>		
2/28/2019	NP19-5-000	FRCC/SPP	Unidentified Registered Entities	3	\$0	0.7	2019-0099		View Filing >>	View Notice >>	View A-2	
3/28/2019	NP19-6-000	WECC	Unidentified Registered Entities	6	\$0	0.6	2019-0099		View Filing >>	<u>View Notice &gt;&gt;</u>	View A-2	
4/30/2019	NP19-7-000	WECC	Unidentified Registered Entity	1	\$0	0.5	2019-0099		View Filing >>	View Notice >>		
4/30/2019	NP19-9-000	FRCC	Unidentified Registered Entity	1	\$301,000	0.5	2019-0099		View Filing >>	<u>View Notice &gt;&gt;</u>		
5/30/2019	NP19-10-000	XXX	Unidentified Registered Entity	1	\$1,000,000	0.4	2019-0099		View Filing >>	View Notice >>		
5/30/2019	NP19-11-000	XXX	Unidentified Registered Entity	1	\$1,000,000	0.4	2019-0099		View Filing >>	View Notice >>	<u>Part 2 &gt;&gt;</u>	
6/26/2019	NP19-14-000	SERC	Unidentified Registered Entity	1	\$775,000	0.3	2019-0099		View Filing >>	View Notice >>	<u>Part 2 &gt;&gt;</u>	
6/27/2019	NP19-12-000	NPCC/WECC	Unidentified Registered Entities	2	\$87,000	0.3	2019-0099		View Filing >>	View Notice >>	View A-2	
7/31/2019	NP19-15-000	NPCC/WECC	Unidentified Registered Entities	2	\$164,000	0.2	2019-0099		<u>View Filing</u>		<u>View A-2</u>	
8/29/2019	NP19-16-000	WECC	Unidentified Registered Entity	1	\$2,100,00	0.2			<u>View Filing</u>		<u> </u>	
8/29/2019	NP19-17-000	MRO	Unidentified Registered Entities	1	\$0	0.2			<u>View Filing</u>		<u>View A-2</u>	
9/26/2019	NP19-18-000	Texas RE	Unidentified Registered Entity	1	\$0	0.1			View Filing		View A-2	