

Bottom Line — Real-World Comparisons

How the leading GIC mitigation approaches compare across the four measures that matter.

Approach	Prevents GIC Entry?	Stops Harmonics at Source?	Field Maturity	Protects Existing Fleet?
Capacitive Neutral Blocking	Yes (complete)	Yes	High (multi-year ops)	Yes
Neutral Resistors	Partial	Partial	Medium	Yes
Series Capacitors	On protected lines	Partial / redistributes	High (but costly)	Partial
Operating Procedures	No	No	High	No
GIC-Resistant Transformers	No	Partial	Medium (new units)	No

Only capacitive neutral blocking completely interrupts the causal chain: GIC enters grid → half-cycle saturation → harmonics.

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