

	System Identifiers		System Grounding				Protection & Control					
	System Size at POI	Inverter Type	Transformer Winding		Grounding Bank on LV side	Grounding Bank on HV side	Neutral Grounding Reactor on HV side	Anti-islanding Mitigation	Remote Monitoring	Remote Control	Customer Recloser	Other Requirements
			LV	HV								
Central Hudson Gas & Electric	DG < 50 kW	Three-Wire	-	-	?	?	?	?	May be required	-	-	?
		Four-Wire	-	-	?	?	?	?	May be required	-	-	?
	50kW ≤ DG < 300 kW	Three-Wire	-	-	?	?	?	?	Required	May be required	-	?
		Four-Wire	-	-	?	?	?	?	Required	May be required	-	?
	300 kW ≤ DG	Three-Wire	Y <sub>g</sub>	Y <sub>g</sub>	X <sup>2</sup>	-	-	Substation Reclose Blocking May be Required	Required - Utility Meter w/ Comms.	Required - Utility Recloser	Required - Negative Sequence Relaying	?
		Four-Wire	Δ	Y <sub>g</sub>	-	-	X <sup>1</sup>	Substation Reclose Blocking May be Required	Required - Utility Meter w/ Comms.	Required - Utility Recloser	Required - Negative Sequence Relaying	?
Consolidated Edison	DG < 50 kW	Three-Wire	?	?	?	?	?	?	May be required	?	-	?
		Four-Wire	?	?	?	?	?	?	May be required	?	-	?
	50kW ≤ DG < 300 kW	Three-Wire	?	?	?	?	?	?	Required	May be required	-	?
		Four-Wire	?	?	?	?	?	?	Required	May be required	-	?
	300 kW ≤ DG	Three-Wire	?	?	?	?	?	?	Required - Utility Meter w/ Comms.	Required - Utility Recloser	-	?
		Four-Wire	?	?	?	?	?	?	Required - Utility Meter w/ Comms.	Required - Utility Recloser	-	?
PEG&LI	DG < 50 kW	Three-Wire	?	?	?	?	?	?	?	?	?	?
		Four-Wire	?	?	?	?	?	?	?	?	?	?
	50kW ≤ DG < 300 kW	Three-Wire	?	?	?	?	?	?	?	?	?	?
		Four-Wire	?	?	?	?	?	?	?	?	?	?
	300 kW ≤ DG	Three-Wire	?	?	?	?	?	?	?	?	?	?
		Four-Wire	?	?	?	?	?	?	?	?	?	?
National Grid	DG < 50 kW	Any	-	-	-	-	-	?	May be required	-	-	?
		Any	-	-	-	-	-	?	May be required	-	-	?
	50kW ≤ DG < 300 kW	Any	Y <sub>g</sub>	Y <sub>g</sub>	-	-	-	?	Required	May be required	-	?
		Any	Y <sub>g</sub>	Δ	-	-	-	?	Required	May be required	-	3V <sub>0</sub> scheme required when using Y <sub>g</sub> -Δ
	300 kW ≤ DG	Any	Y <sub>g</sub>	Y <sub>g</sub>	X <sup>1</sup>	-	-	Substation Reclose Blocking May be Required	Required - Utility Meter w/ Comms.	Required - Utility Recloser	-	?
		Any	Δ	Y <sub>g</sub>	-	-	X <sup>1</sup>	Substation Reclose Blocking May be Required	Required - Utility Meter w/ Comms.	Required - Utility Recloser	-	?
IVSEG	DG < 50 kW	Three-Wire	-	-	?	?	?	?	May be required	?	-	?
		Four-Wire	-	-	?	?	?	?	May be required	?	-	?
	50kW ≤ DG < 300 kW	Three-Wire	-	-	?	?	?	?	Required	May be required	-	?
		Four-Wire	-	-	?	?	?	?	Required	May be required	-	?
	300 kW ≤ DG	Three-Wire	Δ	Y <sub>g</sub>	-	-	X <sup>1</sup>	Substation Reclose Blocking May be Required	Required - Utility Meter w/ Comms.	Required - Utility Recloser	-	?
		Four-Wire	Y <sub>g</sub>	Y <sub>g</sub>	-	X <sup>1</sup>	-	Substation Reclose Blocking May be Required	Required - Utility Meter w/ Comms.	Required - Utility Recloser	-	?
RG&E	DG < 50 kW	Three-Wire	-	-	?	?	?	?	May be required	?	-	?
		Four-Wire	-	-	?	?	?	?	May be required	?	-	?
	50kW ≤ DG < 300 kW	Three-Wire	-	-	?	?	?	?	Required	May be required	-	?
		Four-Wire	-	-	?	?	?	?	Required	May be required	-	?
	300 kW ≤ DG	Three-Wire	Δ	Y <sub>g</sub>	-	-	X <sup>1</sup>	Substation Reclose Blocking May be Required	Required - Utility Meter w/ Comms.	Required - Utility Recloser	-	?
		Four-Wire	Y <sub>g</sub>	Y <sub>g</sub>	-	X <sup>1</sup>	-	Substation Reclose Blocking May be Required	Required - Utility Meter w/ Comms.	Required - Utility Recloser	-	?
Orange & Rockland	DG < 50 kW	Three-Wire	-	-	?	?	?	?	May be required	?	-	?
		Four-Wire	-	-	?	?	?	?	May be required	?	-	?
	50kW ≤ DG < 300 kW	Three-Wire	-	-	?	?	?	?	Required	May be required	-	?
		Four-Wire	-	-	?	?	?	?	Required	May be required	-	?
	300 kW ≤ DG	Three-Wire	Y <sub>g</sub>	Y <sub>g</sub>	X <sup>1</sup>	-	-	Substation Reclose Blocking May be Required	Required - Utility Meter w/ Comms.	Required - Utility Recloser	-	?
		Four-Wire	Δ	Y <sub>g</sub>	-	-	X <sup>1</sup>	Substation Reclose Blocking May be Required	Required - Utility Meter w/ Comms.	Required - Utility Recloser	-	?

**Notes:**

1. The Utility will review and determine the correct size of all grounding elements in order to minimize the impacts on their system.
2. Adequately sized grounding transformer is needed to satisfy the requirements of effective grounding [IEEE 62.92.1] for projects using inverters without a neutral. Submit grounding report with CESIR application.
3. Additional grounding impedance device may be needed to limit the system's fault current contribution for projects using inverters without a neutral. Submit grounding report with CESIR application.