



KINECTRICS

a **BWXT** company

GridSim Power Lab

Dynamic Power Testing for
Megawatt-Class Equipment



GridSim Power Laboratory is a state-of-the-art, independent facility designed for full-power testing & certification of renewable generation equipment, and medium-voltage power systems.

Why Test at GridSim Power Lab?

- **High-Power, Flexible Testing**
Test renewable generation, inverters, and medium-voltage AC/DC systems at full power up to 12 MW.
- **One-Stop, Turnkey Facility**
Flexible power feeds, grid emulation, balance-of-system equipment, environmental testing, short circuit, and consultancy services.
- **Expert Certification Support**
Specialists in IEEE, UL, CSA standards to identify, analyze, and resolve issues during type testing.
- **Faster Time-to-Market**
Kinectrics offers full project management and logistics support to truly partner with you in mitigating risks, optimizing testing regimes, and bringing your product to market quicker while maintaining cost efficiency.



Technical Capabilities.

Characteristics	Values
Power	Up to 12 MVA
Voltage	600 V to 34.5 kV
Frequency	45-67 Hz
DC Power	5 MW, 1500 V
Test Bays	4,000 ft ² with strong floor & ground grid
Load Banks	AC/DC resistive, capacitive, inductive
Onsite Technical Support	Field service engineers and technicians available on request

Your Partner for Advanced Power Testing.

From flexible grid simulation to turnkey testing solutions, Kinectrics' GridSim Power Lab helps manufacturers, developers, & utilities accelerate innovation, ensure compliance, and integrate renewable power safely and efficiently.

Supporting Diverse Testing Needs.

- Solar PV Inverters & Stations
- Battery Energy Storage Systems (BESS)
- Rail Transit Traction Power Systems
- Offshore Oil & Gas Power Systems
- Wind Power Converters
- Industrial Plant Power Equipment
- Other Medium-Voltage Equipment

Global Standards & Proven Expertise.

- CSA C22.2 No. 107.1
- IEC 62109
- IEEE 1547.1
- IEEE 1653.2
- ISO 9001
- ISO 17025
- UL 1741
- UL 9540

What to Expect When Testing Your Equipment at the GridSim Power Lab.

- Test plan development for client approval
- Lab setup before equipment arrival
- Delivery, installation, commissioning support
- Test execution
- Data recording & daily reports
- Final report with raw data
- Shipment preparation



Why Kinectrics?



Trusted Expertise

Decades of experience in power system testing & certification



Independent Solutions

Unbiased testing & advanced facilities to ensure compliance



Accelerating Innovation

Helping clients certify faster & integrate renewable power safely



Let's work together!

Contact us today to learn how our advanced testing solutions can support your innovation and ensure safe grid integration.



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