Power Onward™

Cummins Power Integration Center (PIC)

Where power meets innovation

The PIC is a state-of-the-art lab designed by leading Cummins engineers for the configuration, testing and validation of microgrid power systems. This collaborative space allows customers to work directly with our team of engineers to construct and test power systems. Regardless of your needs, the PIC is ready to test them in a zero operational risk environment.

Put any power challenge to the test:

- Collaborate with Cummins experts
- Develop power systems with the freedom to design unlimited scenarios
- Quickly reconfigure and refine power options
- Test any energy solution before commissioning

POWER GENERATION

Four Main Components of the PIC

Outdoor Testing Pads

The largest part of the 20,000 sq. ft. lab, this space is dedicated to testing any source or load that can be integrated into a microgrid (e.g., gensets, battery energy storage [BESS], hydrogen fuel cells and electrolyzers, EV chargers, and more). The outdoor testing pads are comprised of:

- Five 500 kW testing pads
- Two 2000 kW testing pads
- Two 500 kW RLC load banks

Main Switchgear Room

This room houses a MW switchgear lineup that's the primary working switchgear utilized for customer simulations within the lab. The switchgear is separated into three buses with tiebreakers in between and a ring bus around the back, allowing for the creation of multiple power system topologies, including:

- Isolated bus
- Common bus
- Single transfer pair
- Dual transfer pair
- Main-tie-main
- Dual transfer with tie

Engineering Control Room

The central nervous system for the whole facility. Signals from the sources, loads and connections are brought together for our team of engineers to conduct and visualize the extensive testing needed to evaluate solutions.

Electrical Mezzanine

Components of the electrical mezzanine include:

- Utility distribution substation
- Step-down transformer – 13.8 kV to 480 V
- Two 1 MW utility feeds
- 540 kW utility grid simulator
- 400 kW rooftop solar array
- 120 kW PV simulation power supply
- 120 kW battery (BESS) simulation power supply
- Programmable weather scenarios
- Bi-directional inverter testing

GOT A NEW POWER CHALLENGE?

BRING IT.

Take a virtual tour of the lab.

Learn more about the PIC.

Contact your Cummins sales representative to plan your visit.

Innovation Never Stops

POWER GENERATION

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