Our energy working for you.™



Power Seminar

Connect, Learn, Innovate, Solve

Experience the Cummins Power Generation Power Seminar, your connection to the latest innovations in the design and performance of on-site power systems.

Make connections

Cummins Power Generation is the only power equipment manufacturer that designs, manufactures, tests, and locally supports all major components of on-site power generation systems. Our unique



Solutions-based learning

capabilities make us the global experts in system-wide integration and performance.

Our Power Seminar is your chance to learn from our experience, through classroom presentations by design and application engineers and other power systems experts, a factory tour, product demonstrations, and plenty of open discussion. You'll take away in-depth knowledge of on-site power system equipment and how each component of the system integrates with others to optimize its function. The goal of our Power Seminar is to connect you to the latest information and technology that will help you design more reliable and cost-effective power systems, and help you to make more efficient use of your time as the designer.

Small group learning combined with individualized problem solving so you will:

- Gain a better understanding of the operational requirements of power generation equipment in multiple applications, including equipment performance, as well as codes and standards related to equipment operation.
- Learn how facility design affects generator system performance, including the design characteristics that are necessary for proper system operation, such as fuel storage, piping systems, cooling and ventilation system design, electrical system design, and sound attenuation.
- Understand how the application of loads affects generator set performance, and what levels of equipment performance are necessary for proper operation of loads.
- Solve challenges you're facing in your daily work during individualized consultation with factory experts.
- Form partnerships that will help make you more capable and successful, to the benefit of you and your clients.

I did the Power Seminar about 10 years ago – It is obvious Cummins has refined and improved what was already an excellent program. Very impressive, very effective, nice that it's all low key/casual. — Robert H.

Our mission is to develop and support a dynamic educational training program which provides technical knowledge and innovative learning tools relevant to the on-site power generation industry and related products; delivered by company engineers and experts to enhance the professional development of our participants.

Innovation through information

In addition to the following topics, we welcome open discussion of your power generation needs and interests.

Factory tour

Guided tour of our 650,000 sq. ft., ISO 9001/14001 and OHSAS 18001 Certified production facility.

Live demonstration of our factory power system Synchronizing and paralleling five generator sets and operating in parallel and transferring power from the local utility grid at 13,800 volts.

Transfer switch design features

Overview of transfer switch types, rating practices, variations between suppliers, and best practices in application of these products

Alternator protection

Discuss alternator failure modes and protection, operation of excitation control systems in various fault conditions, and best practices for performance-based specification of code-compliant protection. Application issues related to the use of multiple circuits on emergency generators, selective coordination and disconnect rules will also be covered.

Generator sizing software

Review how to use Cummins Power Generation personal computer applications for sizing, specifying, applying generator sets. Understanding the impact of load characteristics of motors, UPS's and VFD's on generator sizing. Selecting the right generator set based on required performance of the package vs. the alternator alone.

Load transfer considerations

Review of loads that can be disrupted or damaged by improper transfer; steps to assure successful closed transition transfer.

Emissions

Understand how the generator set duty ratings are applied based on the EPA emissions regulation definitions. Review the new compression and spark ignited engine regulations, as well as brief coverage of state of the art engine technology and after treatment solutions used to obtain the new emissions levels.

Paralleling system design

Overview of the basics of paralleling, covering required control functions and various failure modes. Impact of the use of digital controls on system design; and optimizing system design using digital paralleling controls.

Generator set installation requirements

Review generator installation guidelines, including location, cooling system, fuel system, ventilation, exhaust system, vibration, noise attenuation and electrical connections. Test your skills by identifying installation problems in real applications.

Grounding of generator systems

Review system-grounding methods for on-site generators and learn the easy rules to use to specify the right grounding and switching practice for every application.

Good technical content, not a commercial for Cummins. - Mid-South participant

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