EXPAND YOUR EQUIPMENT KNOWLEDGE

Make the most of your equipment with the best training and support for the life of your products. Your Cat® dealer is your partner in meeting your needs with an extensive library of power systems technical training seminars. Factory and dealer experts will come to your office to help you increase efficiency and productivity.

FREE SEMINARS AVAILABLE:

**SPECSIZER 101: GETTING STARTED**
The Cat SpecSizer program can help you accurately size generator sets to a project’s specific loads. This discussion gives an overview of the tool and will prepare a user to get started quickly.

**RATING DEFINITIONS & LOAD FACTOR**
Learn about the ISO8528 rating definitions and Caterpillar ratings, and how to properly apply these to projects. Also cover application specific considerations including data centers, uptime ratings, and the importance of load factor.

**UNDERSTANDING GENERATOR SET NOISE**
As the use of standby generator sets grows, noise becomes an increasingly important factor in projects. Learn the basics of noise, the sources of generator set noise, and what tools are available to help mitigate it.

**APPLICATION & INSTALLATION OF DIESEL GENSETS**
This is a general discussion of genset engine room design: air intake and systems, exhaust systems, fuel systems, engine room ventilation, and foundations and isolation.

**PARALLELING STRATEGIES**
Identify applications that are suitable for a specific paralleling strategy. This overview shows the value, key benefits, and differences of various specific paralleling solutions.

**EMCP 4.4 – ON PACKAGE PARALLELING CONTROLS**
Onboard paralleling can be a perfect option for many projects, but may not fit the requirements for all. Learn about Cat product EMCP 4.4 onboard paralleling features and functionality, and what applications it is best suited for.

**COMPARING GAS AND DIESEL GENERATOR SETS IN STANDBY APPLICATIONS**
Both gas and diesel generator sets can be used in standby applications. Learn what benefits each can bring to choose the best platform for any project.

**GENERATOR BASICS**
This is an introduction to electrical generator basic theory, alternating electrical generator overview, and generator characteristics.

**TIER 4 FINAL EMISSION STANDARDS FOR ELECTRIC POWER**
An in-depth explanation of U.S. stationary diesel emissions standards. Learn about the different scenarios in which diesel generator sets can be used, and how it impacts their emissions requirements.

**GENSET CONTROLS TECHNOLOGY**
Learn about Cat product generator set controls, their capabilities, and how to decide what requirements are needed for any project.
Earn CEU credits and build relationships while you make sure your customers get the best training and support for the life of their products. Contact your local Cat dealer to schedule training near you. Visit https://www.cat.com/en_US/support/dealer-locator.html

**IBC Seismic and Wind Load Compliance for Non-Structural Building Component**
Learn about special inspections, life safety systems, responsibilities, special seismic requirements, and OSHPD Certification.

**ATS Basics**
This course is an introduction to the Automatic Transfer Switch (ATS), discussing definitions, functions, physical elements, basic transfer types, how we transfer loads, standards and certifications, and different modes of operations.

**Introduction to Paralleling**
This course is an introduction to paralleling concepts. This includes purpose of paralleling, synchronization and synchronization requirements, and load sharing basics and methodologies.

**Microgrid Overview**
This course introduces renewable energy microgrids: common components and comparison of industry technologies, designing and specifying microgrid systems, and an off-grid facility case study.

**Disaster Preparedness & Maintenance Considerations**
Learn how to make sure that your standby power system functions when it is needed most with preventive maintenance practices.

**Microgrids: Photovoltaics and Modules**
This course covers how we take the energy from the sun and, using a photovoltaic module, convert the solar energy into electricity that we can use.

**Microgrids: Solar Radiation and Sunlight**
This course is an introduction to the relationship between the Earth and the Sun and the factors that affect the energy we receive on a solar array.

**Microgrids: Photovoltaic System Design**
Photovoltaic system design and the various distributed generation solutions that are available with the Cat photovoltaic product.

**Gas Gensets in Utility Applications**
Gain a better understanding of the Utility industry and market, and how gas generator sets can be used to reduce the cost of power.

**Cooling Gensets**
This course is an application-level look at diesel engine cooling systems and radiators. It describes and explains methods of managing engine heat for various engine applications.

**Gas Gensets in Standby Applications**
This seminar focuses on the use and benefit of using gas generator sets in standby applications.
CATERPILLAR CONSULTING ENGINEER RESOURCES

Electric Power Information Library:

The best place to start for information. Access to product brochures, white papers, customer stories, industry information, and upcoming events. The Caterpillar source for the Electric Power industry.

Cat Spec Sheets:

Any size or shape. In any regulatory environment. When you need power, Caterpillar is equal to the challenge. Our generators are used in a variety of applications.

Cat White Papers:

Caterpillar has over 30 white papers dedicated to the electric power industry. From generator sets, to paralleling, to microgrid technologies, these resources can help to simplify and inform engineers on a variety of topics.

Cat Brochures:

Cat Electric Power supports a variety of markets. Learn about our capabilities and products built to support them.

SpecSizer:

Caterpillar Electric Power is excited to introduce you to our latest generator set sizing software, Cat Electric Power SpecSizer.

Considering factors such as site conditions, load characteristics and required performance, SpecSizer provides accurate and timely technical data, robust load models and optimized algorithms to assist in specifying a properly sized generator set to best meet your power needs.

Several new features set SpecSizer apart as a revolutionary tool in generator set sizing, including its ability to evaluate load types such as air conditioners, elevators, ultraviolet lights, single-phase NEMA, and single-phase IEC motors.

SpecSizer offers a unique Application Wizard that collects data on the user’s loads, then organizes the loads into steps, considering voltage dip and load demands, to assist in selecting the best generator set size in terms of both rating and footprint.

Find your Cat Dealer:

Cat dealers are not only experts on our products, but can also help understand local requirements and considerations. Find your local Cat dealer for assistance on any project.

CUSTOMER, CAT DEALER, CATERPILLAR

This partnership is a commitment to you to get the best product, service, and support for your investment. Your Cat dealer is committed to maximizing your success, helping you get the most out of your operations. Take advantage of these training opportunities to build your business and your relationships.