



Electrical and Industrial Solutions for Solar Power

The American Recovery and Reinvestment Act (ARRA) envisions a more energy-efficient, up-to-date America. Investing in alternative energy sources, such as solar power, is part of that vision.

Like other sources of electricity, solar power systems need to be reliable, cost effective and safe to operate. Whatever the size of a solar power system, its equipment needs to withstand extreme temperatures, electrical transients, power surges, mechanical shocks and vibrations.

Long before the Recovery Act, government mandates, such as the EPCRA 2005, stated that the federal government must install 20,000 solar panel systems as part of an energy-efficiency strategy. In the time since the Recovery Act, more focus has been placed on solar power adoption.

Eaton's products and turnkey installation services for solar systems offer a unique blend of high product quality, superior operating performance and unmatched reliability.

Eaton solutions for solar power include:

- Turnkey installation services
- DC combiner boxes
- DC solar disconnect switches
- Solar inverters
- AC disconnect switches and enclosed breakers
- AC solar loadcenters, panelboards and switchboards
- Integrated solar solution assemblies

- LV and MV switchgear
- PowerXpert meters and monitoring software
- Integrated Power Assembly (IPA)
- Energy-efficiency analysis and solutions
- Arc flash hazard analysis and solutions
- Commissioning services
- Retrofit upgrade services
- Hydraulic panel actuation systems
 - Actuators
 - Control valves
 - Power units

EATON

Powering Business Worldwide



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Eaton Recovery Hotline

1.888.ETN.1USA (1.888.386.1872)

www.eaton.com/recovery



Our industry-leading products and services are designed to deliver:

- Energy Efficiency
- Reliability
- Safety
- Cost Effectiveness
- Precision Control
- Federal Energy Mandate Solutions (EPACT 2005, EISA 2007, and beyond)

1 Project management services

Solar power systems can be complicated collections of equipment from many manufacturers. Eaton's Electrical Services and Systems engineers throughout the U.S. provide support in the field for components manufactured by both Eaton and other electrical manufacturers.

Eaton's Hydraulics Application and Commercial Engineering teams offer on-site services for Eaton hydraulics products, which are also supported by distributors providing local service for solar power systems.

- Turnkey solar installation services
- Commissioning services
- Maintenance services
- Retrofit upgrades and service
- Turnkey substation construction

2 Easier installation

Installing, configuring and testing power control equipment one piece at a time on-site can be a complicated, time-consuming process that increases the overall cost of installation.

Eaton offers totally integrated power control and management solutions, such as the Integrated Power Assembly, that is shipped in one enclosure, configured and pre-tested for quick installation and commissioning.

- Integrated Power Assembly (IPA) or Hydraulic Power Unit (HPU)

4 Solutions customized just for you

Off-the-shelf equipment may not be optimized to work with solar power systems of different sizes, making it more costly or difficult to install and use. Eaton's main plant flex centers and regional satellites and service centers can customize equipment such as switchboards, breakers, enclosed breakers, safety switches, low and medium voltage switchgear and hydraulic system elements to your exact specifications, often saving installation costs and making maintenance easier.

- Custom AC switchboards
- Enclosed breakers
- AC safety switches
- Hydraulic actuators, controls, and power units that meet global standards (ISO, ANSI)
- DC combiner boxes
- Solar-ready loadcenters

3 Improve user safety

Employers need to keep solar power system workers safe from arc flash and other electrical hazards. Eaton can dramatically reduce exposure to electrical shock and arc flash safety hazards with the right equipment, proper training and proper equipment labeling.

- Arc flash hazard analysis services
- Arc Flash Reduction Maintenance System™
- Arc flash safety products and services
- Electrical safety training

5 Energy-efficiency analysis services

Adding solar panels makes your facility more green and reduces your carbon footprint. Eaton can conduct a complete energy efficiency analysis and recommend solutions to reduce overall energy consumption and put your solar power to more efficient use.

- Energy-efficiency analysis
- Energy-reduction recommendations and implementation plan