



# National Solar Photovoltaic Power Generation System

What are new photovoltaic technologies?

Solar cell researchers at NREL and elsewhere are also pursuing many new photovoltaic technologies--such as solar cells made from organic materials, quantum dots, and hybrid organic-inorganic materials (also known as perovskites). These next-generation technologies may offer lower costs, greater ease of manufacture, or other benefits.

What is a photovoltaic system?

Photovoltaic or PV systems are leading this revolution by utilizing the available power of the sun and transforming it from DC to AC power.

What is the US large-scale solar photovoltaic database?

The U.S. Large-Scale Solar Photovoltaic Database provides the locations and array boundaries of U.S. ground-mounted photovoltaic facilities, with capacity of 1 megawatt or more.

What are the different types of solar power generation?

Basically, there are two types of solar power generation used in integration with grid power - concentrated solar power (CSP) and photovoltaic (PV) power. CSP generation, sometimes known as solar thermal power generation, is much like conventional thermal power generation that converts thermal energy (steam) into electricity.

When were solar PV systems installed?

Many federal PV systems were installed between 2010 and 2014, funded through the 2009 American Recovery and Reinvestment Act (ARRA). Over a decade later, the way in which these PV assets are performing in real-world conditions may provide valuable insights to agencies and other entities considering installing solar PV systems. Figure 2.

Are solar photovoltaic map services free?

Map services and data downloaded from the U.S. Large-Scale Solar Photovoltaic Database are free and in the public domain.

**Solar Photovoltaic Technology Basics.** Solar cells, also called photovoltaic cells, convert sunlight directly into electricity. Photovoltaics (often shortened as PV) gets its name from the process of converting light (photons) to electricity ...



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