



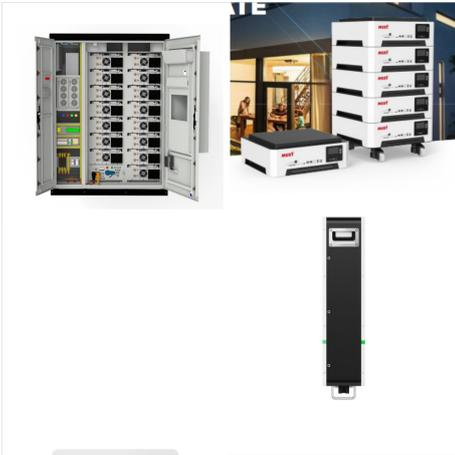
Benefits of Residential Solar Electricity. Solar energy is sustainable, renewable, and plentiful. As the cost of using solar to produce electricity goes down each year, many Americans are increasingly switching to solar. Now, there are over a million solar installations across the country.



Solar technologies convert sunlight into electrical energy either through photovoltaic (PV) panels or through mirrors that concentrate solar radiation. This energy can be used to generate electricity or be stored in batteries or thermal storage.



Your solar energy installer and local utility company can provide more information on the exact steps you will need to take to power your home with solar energy. Investigate your home's energy efficiency. Assess your solar potential and any limitations. Assess your options for going solar.



What is photovoltaic (PV) technology and how does it work? PV materials and devices convert sunlight into electrical energy. A single PV device is known as a cell. An individual PV cell is usually small, typically producing about 1 or 2 watts of power.



Buying a solar energy system will likely increase your home's value. A recent study found that solar panels are viewed as upgrades, just like a renovated kitchen or a finished basement, and home buyers across the country have been willing to pay a premium of about \$15,000 for a home with an average-sized solar array.



The Solar Energy Technologies Office (SETO) accelerates the advancement and deployment of solar technology in support of an equitable transition to a decarbonized economy. Learn more about the office's work at our events and webinars.



Each presentation focuses on global and U.S. supply and demand, module and system price, investment trends and business models, and updates on U.S. government programs supporting the solar industry. Download the latest report: Summer 2024 Quarterly Solar Industry Update.



Solar Power in Your Community serves as a guidebook to assist local government officials and stakeholders in increasing local access to and deployment of solar photovoltaics (PV). This 2022 edition highlights new technologies and strategies to ???



The federal residential solar energy credit is a tax credit that can be claimed on federal income taxes for a percentage of the cost of a solar PV system paid for by the taxpayer. (Other types of renewable energy are also eligible for similar credits but are beyond the scope of this guidance.)