



# Solar power generation online program

What is next generation Power & Energy Systems?

“Next Generation Power and Energy Systems brings students to the cutting edge of the energy transition. Coursework are based on recent innovation at the National Renewable Energy Laboratory encouraging students to reimagine power systems for a more versatile, decarbonized and interconnected energy future.”

What is a solar project development certificate program?

Focus on electric-driven study as you prepare to lead development in the rapidly expanding solar energy sector. This online certificate program includes courses that offer a foundation in project development, system design and analysis, and process improvement.

What is a graduate certificate in solar energy?

The Graduate Certificate in Solar Energy is developed by Penn State's Department of Energy and Mineral Engineering and delivered through Penn State World Campus. Our courses are taught by distinguished faculty who have special training and experience teaching in an online environment.

How do I Complete my Penn State solar energy course?

Complete your Penn State course work at your own pace and 100% online. Evaluate solar energy systems using techno-economic, performance, and/or cost/benefit analyses, including multi-parameter dynamic simulation tools.

What can I do with a specialization in solar PV?

This specialization provides an overview of solar photovoltaics (PV), intricacies of solar system design, and a framework for solar PV project management. Targeted for engineers, HVAC installers, architects and building code inspectors, it is also appropriate for anyone considering a career in the growing renewable energy field of solar power.

How do you evaluate solar energy systems?

Evaluate solar energy systems using techno-economic, performance, and/or cost/benefit analyses, including multi-parameter dynamic simulation tools. Use the principles of solar energy science, including resource availability, resource intermittency, renewable energy technologies, and options for solar energy conversion systems.

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For customers considering solar and other renewable generation 1 at their homes, the Solar Billing Plan is



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designed to help modernize solar rates to promote grid reliability, incentivize solar and battery storage, and help control ...

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This is the power that the manufacturer declares the photovoltaic system can produce under standard test conditions, which include constant solar irradiance of 1000 W per square meter in the plane of the system, at a system temperature ...

These programs enable a group of participants to pool their purchasing power to buy solar into a solar system at a level that fits their needs and budget. The system can be on- or off-site and ...

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The solar energy concentration includes courses such as solar project development and finance; distributed energy planning and management; solar thermal energy for utilities and industry; and commercial solar electric ...

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