

Certificates in Renewable Energy and Sustainable Practices

Renewable Energy – Solar

Explore renewable energy generation systems that do not produce carbon, with a focus on photovoltaic and solar systems. Participants will learn to:

- Discuss the benefits of alternative energy systems
- Assess, design, install and operate solar systems
- Collect and report data from alternative energy systems

[Learn more...](#)

Sustainable Design

Energy-saving and sustainable materials and construction practices can maximize operating efficiency and productivity. Participants will learn to:

- Identify energy saving and sustainable technologies and materials
- Design sustainable energy systems into buildings and landscapes
- Collect and report data from alternative energy systems

[Learn more...](#)

Biofuels

Many natural resources and organic materials can be sources of renewable energy. Participants will learn to:

- Map the conversion of crops and animal fat waste into biodiesel.
- Map the conversion of crops into ethanol.
- Describe the production of energy from biomass.

[Learn more...](#)

Soon to come:

Sustainable Food Supply

Learn sustainable practices that promote safe, healthy food. Explore energy needs of food production, processing, distribution, and transportation to food markets.