Off-grid Renewable Energy Systems
Towards reliable, sustainable power for the global community

Professional online learning
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Around the world, 1.2 billion people still have no access to electricity. Many more have only poor-quality supply.

The *Off-grid Renewable Energy Systems* online course explores how off-grid systems and renewable technologies can contribute to the UN’s goals to provide the global population with sustainable electricity. Covering the latest trends in global implementation, assessments of social value, market-based models for off-grid electricity and energy planning from demand to supply, this course explores both the technical and economic features of off-grid systems – and how they can be successfully implemented to provide electricity in developing economies.

**Goals and objectives**

Split into a basic and an advanced course, *Off-grid Renewable Energy Systems* is designed to expand your professional credentials and enhance your career opportunities. Upon completion, you will be able to:

- Understand the latest trends and main characteristics of off-grid renewable electricity systems and their use cases.
- Identify, measure and foster the benefits and social value of off-grid renewable electricity projects in developing countries.
- Promote the technical, economic, socio-organisational, environmental and institutional sustainability of off-grid renewable electricity projects.
- Define the principles of a smart energy framework and the role of various stakeholders.
- Understand the various business models for mini-grids and stand-alone systems in developing countries.
- Understand different types of funding mechanisms and the role of policy and regulatory frameworks in deploying off-grid renewables.
- Understand the principles and tools associated with energy planning with decentralised electrification.
- Reinforce your network of contacts and knowledge sources.

**Teaching, learning and assessment**

The course consists of video lessons supported by complementary materials for each video, including case studies, public reports, web sites related to the topic, public, research articles, news, and presentations. There are also debate forums to encourage learner participation, and hangout sessions, where learners interact directly with expert teachers. Learners’ progress is assessed through a series of multiple-choice tests.

**Topics and themes**

**On the basic course you will learn about:**
1. Renewable electricity, technology options and selection criteria for off-grid systems.
2. Assessment of the social value of off-grid renewable electricity.
3. Guidance for sustainability at the project level.
4. Towards a smart electricity access framework.

**On the advanced course, you will cover:**
2. The financial dimensions of off-grid electricity initiatives.
3. Policy and regulatory frameworks.
4. Energy planning from demand to supply.

**Your course organisers**

*Off-grid Renewable Energy Systems* has been developed by leading experts at:

**EOI:** Escuela de Organización Industrial, Madrid

Want to find out more about this course? Have any questions about the Institute of Sustainable Energy?

Then get in touch with our team - we are happy to help.

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The Institute of Sustainable Energy
Through our professional courses, the Institute of Sustainable Energy helps learners advance their careers, and provides resources for companies that want to support continual learning among their workforce.

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