

# grid connection

of renewable energy systems

## Background

The feed-in-tariff (FIT) and renewables obligation order (ROO) provide long-term financial support for electricity generating renewable energy systems.

Whilst the capital costs of wind, solar and hydro systems are high, they can usually be estimated with reasonable accuracy at a fairly early stage in the project.

Grid connection costs frequently represent the second largest expenditure once the generating plant has been purchased. The feasibility and costs of obtaining a grid connection can therefore have a significant bearing on the financial viability of a proposed project.



## Agenda and timetable

<b>10:00</b>	<b>Coffee and Registration</b>
10:30	Introduction
10:40	UK Grid – Transmission & Distribution
11:00	Generator characteristics
11:20	Common connection arrangements
<b>11:40</b>	<b>Coffee Break</b>
12:00	DNO duties & application process
12:30	Completing the ENA application
<b>13:00</b>	<b>Lunch</b>
14:00	Connection implementation
14:30	Metering & Ofgem registration
15:00	Case Studies
16:00	Questions and Answers
<b>16:30</b>	<b>Close</b>

## Who should attend?

- 1) Manufacturers, Designers, Installers and Consultants engaged in developing or commissioning renewable energy systems.
- 2) Advisors, Land agents, Consultants and Investors involved in screening multiple sites for wind or solar generators.
- 3) Anyone wishing to streamline the grid connection process or better understand grid connection issues for embedded generation

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## Timings

The Redcotec grid connection course takes place on a single day.

Registration and coffee will begin at 10 am.

Attendees are invited to discuss specific projects / problems with the team after the talks but formal presentations will finish by 4:30pm.

## Pricing

The grid connection of renewable energy systems course is priced at £295 + VAT per attendee.

Discounts are available for multiple bookings.

## Contact Details

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## What is covered in the course?

### UK Transmission and Distribution

How the National Grid and Distribution systems operate and what this means for the connection of generators. Particular attention is paid to the HV network and associated distribution equipment that tends to constrain connection capacity.

### Generator characteristics and connection arrangements

This session provides an overview of different types of generator and a variety of common arrangements for grid connection including consideration of connection voltage and G59 protection systems.

### DNOs and the application process

Guidance on the process of applying for a grid connection, the legal duties and time frames placed on the DNO. Actual grid connection offers from DNOs are used to illustrate potential technical issues and high cost areas.

### The Energy Networks Association (ENA) Application Form

This session demonstrates how to complete the standard DNO application form and accompanying documents required to obtain a grid connection offer.

### Accepting an offer and implementation / construction of the connection

This session reviews construction timescales, contestable and non-contestable works plus provides general guidance on controlling project costs.

### Metering and Ofgem registration for FIT or ROO

An overview of the relationships between the DNO, meter operator, generator owner / operator and Ofgem.