

Introduction to Smart Grids

Course overview

The UK is at the forefront of developments in smart grid technologies and this unique two-day course draws directly on extensive experience in the development, trial and evaluation of smart grid projects and is delivered by industry experts with direct involvement in key UK smart grid projects. It explores both the upsides and the downsides of integrating new technologies into the electricity system.

The course considers potential future applications as well as current developments and delegates will learn the characteristics of the new technologies that are driving progress. The course provides practical lessons and case studies of the leading projects will be discussed to focus upon the critical elements of a UK smart grid project.

This course can be taken as a standalone course or in addition to the 'Impacts of Low Carbon Technologies on Networks' course, which would provide a useful background - see website for further details.

Cost: Two-day course: £935 + VAT

Location: EA Technology, Capenhurst, Chester, CH1 6ES

Who should attend?

This course directly appeals to anyone seeking to implement or become involved with smart grid projects. Focusing upon energy technologies and projects, it will be of benefit to delegates looking to understand the technologies and their applications, from the energy and communications sectors, manufacturers, service providers, and consultants. Those involved in the procurement of smart grid equipment will also benefit from this course.

Benefits of attending this course

- Understand the reasons behind the emergence of smart grids
- Learn about the scale of the technological, commercial and environmental impacts
- Explore the principal smart grid technologies and their typical uses in projects
- Learn about the performance of smart grid technologies and why they are different to 'business-as-usual'
- Understand the critical elements for smart grid projects in the UK
- Find out what lessons that can be drawn from the present experience of UK smart grid projects
- Explore cutting edge and future project areas

Substations Courses

Specialist Courses

Cables Courses

Power Networks Courses

Protection Courses

Tailored Programmes



Introduction to Smart Grids

Course programme

Day one

How are we where we are? The background-to and drivers-for smart grids

- Brief introduction to the electricity industry: from grid to customer; the players in the industry. The 'pressure' for development: UK and international, EU mandates and goals.

The present day

- The UK's energy trilemma and change. Should we seek to build capacity or build smart?
- Technologies 'in the smart grid' and 'smart grid technologies'.

Smart Grid Technologies Part 1

- The characteristics of components that smart grids need and must integrate; their expected contributions to national carbon reduction targets and their impacts on electricity systems.

Workshop: Planning Technology Deployment

- Working in teams using Transform®, participants will investigate the factors affecting the deployment of one technology over, or ahead-of another, using this Ofgem approved model.

Day two

Smart Grid Projects Overview

- Smart grid projects: case studies from the fleet of UK smart grid projects and selected international examples.

Selected Smart Grid Projects

- Detailed Presentations from a selection of currently-running smart grid projects. Latest insights and findings. Upcoming results. Differences to BaU.

The Cutting Edge

- The state-of-the-art today. What are the critical elements of a smart grid project? What lessons and learning are emerging? What will be next?

Round-up and Close

- Discussion and feedback. Opportunity to quiz presenters for assistance with delegates' own work.

Programme may be subject to amendment



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