

Low carbon generation academy

Learning and development objectives:

- Understand the low-carbon generation policy landscape
- Understand the key revenue opportunities for low-carbon generation and how these differ for technology types
- Understand the routes to market for low-carbon generators to realise revenue

Session 1 – Low carbon generation landscape

	Introduction & welcome
10 am	<ul style="list-style-type: none"> • Tech check! • Aim and objectives
	Market metrics
Module 1	<ul style="list-style-type: none"> • Current generation mix • Future generation mix scenarios • Low carbon generation technologies <ul style="list-style-type: none"> ○ Intermittent and controllable technologies ○ Load factors, LCoE • Barriers to deployment
Break	
	Low carbon generation policies
Module 2	<ul style="list-style-type: none"> • Net zero target and the role of the Climate Change Committee • Carbon budgets • Energy White Paper and other recent policy announcements • Policy announcements timeline
11.45	Q&A
12.00	What we will cover off in future sessions and close

Session 2 –Revenue landscape

	Introduction & welcome
10 am	<ul style="list-style-type: none"> • Tech check! • Aim and objectives
	Wholesale energy markets
Module 3	<ul style="list-style-type: none"> • Pricing trends and drivers • Cannibalisation, volatility, and captured prices <p>Case study: Wholesale prices in later summer 2021</p>
Break	
	Policy programme revenue streams
Module 4	<ul style="list-style-type: none"> • Overview of how revenues are achieved under:

- Renewables Obligation
- Feed-in Tariff
- Contracts for Difference schemes

Worked examples

11.45 Q&A

12.00 What we will cover off in future sessions and close

Session 3 – Revenue streams and route to markets

Introduction & welcome

- 10 am
- Tech check!
 - Aim and objectives

Other revenue streams

- Module 5
- Network benefits
 - Capacity Market revenue
 - Green certificates (REGOs)

Case studies: Examples of revenues for different technologies

Break

Routes to market

- Module 6
- Routes to market
 - Intermittent vs. controllable considerations
 - Overview of how wholesale contracts
 - OTC, exchanges and PPAs
 - Trading power directly – licenced

11.45 Q&A

12.00 What we will cover off in future sessions and close

Session 4 – Power Purchase Agreements

Introduction & welcome

- 10 am
- Tech check!
 - Aim and objectives

Typical PPA structures

- Module 7
- What do PPAs look like?
 - Utility PPAs, Corporate PPAs and onsite generation
 - Differences in short-term and long-term PPAs
 - Pricing options on revenues – fixed vs floating and how generators are paid
 - How does this differ across technologies?
 - Interactions with financing structures and bankability

Break

PPA terms and requirements

- Module 8
- The key terms and responsibilities on all parties in a PPA
 - Obligations, forecasting and imbalance

- Commissioning and delivery
- Change in law and transfer provisions
- Typical terms, how this differ by technology and Cornwall Insight perspectives

11.45 Q&A

12.00 Close and next steps (plenary)