CORNWALL INSIGHT

Net Zero Transition: Low Carbon Heat

Learning and development objectives:

- Understand the scale of the challenge to decarbonise the heat sector
- The latest policy and regulatory developments to encourage heat decarbonisation
- Introduction to low carbon heat technologies, including heat pumps, and hydrogen
- The range of pathways to meet net zero heat demand

Session 1 – The challenge and current policy

	Introduction & welcome			
10 am	Tech check!			
	Aim and objectives			
Module 1	Scale of the challenge			
	Scale of our energy demand for heat			
	Associated carbon emissions			
	 The UK's "gas problem" and off-gas heating fuels 			
	Energy efficiency performance			
	Consumer behaviour			
Break				
	Policy and regulation			
Module 2	Overview of the policy landscape			
	 How heat networks are supported 			
	 Boiler upgrade scheme and heat pump market mechanism 			
	 Green Gas Support Scheme 			
	 Energy efficiency schemes – ECO and IETF 			
	 How heat production, network and consumption are regulated 			
	 Are we doing enough? Climate Change Committee's view 			
11.45	Q&A			
12.00	What we will cover in future sessions and close			
Session 2 – Low carbon heat technologies				
	Introduction & welcome			

Introduction	&	welcome

- 10 am Tech check!
 - Aim and objectives

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Technologies (1)

- National Grid Future Energy Scenarios and the role of new(er) technologies
- Heat networks
 - o What are they?
 - o Current status and deployment
 - o Pros and Cons
 - Case study

• Heat pumps

- What are they?
 - o Current status and deployment
 - Pros and Cons
 - o Case study
- Thermal storage installations
 - What are they?
 - o Current status and deployment
 - Pros and Cons
 - Case study

Break

3

Technologies (2)

- Hydrogen boilers/ burners
 - o What are they?
 - o Current status and deployment

Pros and ConsCase study

Module 4

- 'Green gas' heating systems
 - What are they?
 - o Current status and deployment
 - o Pros and Cons
 - Case study

11.45 Q&A

12.00 What we will cover in future sessions and close