

Welcome to our regional workshop

Sarah Williams – Director of Regulation

January/February 2021



Purpose of today

- Connect with new and existing stakeholders and provide you with an update on what we've been doing over the last year
- Gather your valued input into how we can effectively build a sustainable future focusing on how we support the transition to net zero and the green recovery



Introducing...

EQ Communications

≻Who we are

>Zoom protocols

➢Introductions



Agenda

Item	Time	Lead
Welcome & purpose	14:00- 14:10	Sarah Williams
Agenda and zoom protocols	14:10-14:15	James Garland
Presentation: Business update	14:15-14:30	Sarah Williams
Break out - Introductions	14:30-14:40	
Presentation: Transitioning to net zero and	14:40-14:55	Chris Clarke
the green recovery		
Discussion session	14:55-15:15	James Garland/Facilitator
Feedback session	15:15-15:20	Facilitators
Presentation: Focus on Hy Compact	15:20-15:30	Chris Clarke
Discussion	15:30-15:45	James Garland/Facilitator
Feedback session and voting	15:45-15:55	Facilitators
What's next and Close	15:55-16:00	SarahW/James Garland



Who we are and a business update

Sarah Williams Director of Regulation



Wales & West Utilities – about us

- Supply gas to 2.5m homes and businesses
- Serve a population of 7.5m people across Wales and south west England
- Provide a 24/7 service, 365 days a year
- > 11,000 new customers connected each year
- ▶ Respond to 70,000 gas emergencies every year
- Maintain 35,000km of gas pipes
- Invest £2m a week in the gas network
- More than 1,500 skilled and experienced colleagues





Maintaining momentum and high standards



We continue to meet all our regulatory and safety targets



Our sustainable plan at a glance

It's our ambition to help communities and the environment thrive by delivering reliable, affordable and sustainable energy that will help power a green recovery from Coronavirus and get the UK to Net Zero.



Getting to know you

Introductions



Electronic Voting

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Chris Clarke Energy Strategy Director



Transition to net zero – context





Net zero and the green recovery

>Important role for hydrogen

- Commitment to hydrogen town by 2030
- ➢Industrial clusters
- Increase renewable generation
- Deployment of Carbon Capture Utilisation and Storage (CCUS)
- ➢Increase proportion of biomethane in the grid
- ➢Greener buildings including the establishment of a Future Homes Standard and larger role for heat pumps
- Zero emission vehicles



Transition to net zero - WWU

- >WWU business plan proposed to be Net Zero Ready by 2035
- >Zero carbon gas input already sufficient to feed 150,000 homes
- Hydrogen (green and blue) will need to play a key role as will biomethane
- Hybrid systems make green gas go further one part green gas to four parts electricity



Heat in buildings

Disruptive – dependent on the technology chosen

- Significant investment needed
 - ➢Network
 - ➤Generation
 - ≻In the home
- ➤Will cost consumers more

Skills and labour shortfall – dependent on the technology chosen



Delivering the pathway to net zero



The Gas Goes Green programme:

- will deliver the world's first zero carbon gas grid
 hydrogen and biomethane
- helps meet the UK's net zero carbon emissions target
- brings together the engineering expertise of Britain's five gas network companies
- engages with the wider energy industry, policymakers, and academics





Discussion Session



Group Feedback



Chris Clarke Energy Strategy Directo

The net zero challenge < compact hybrid systems

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The heat challenge – Swansea case study

Demand for heat is very seasonal

Problem for renewable energy is meeting demand in the winter

>Hydrogen is an alternative





WALES&WEST

The generation challenge – Swansea case study

Example – Swansea 2050
 Tidal Lagoon
 Wind and Solar

Still a gap between winter supply and demand



Hybrid Heating Systems

- Options to avoid a heat/power/transport cut
 - Storage
 - Modify demand
 - Build more supply
 - Hybrid Heating
- Hybrids use green gases to fill the gap
- Freedom Project –
 Electricity 80%: Gas 20%



How does a hybrid heating system work?



Smart HyCompact Project- What's it all about?

- Low cost hybrid boiler in one box
- Smart boiler modulation & condensing
- Overcomes retrofit skills challenge
- Faster emissions reduction
- Greater consumer acceptance



Main heating system options





	Nat Gas Boiler	Electric Heat Pump	Hydrogen Boiler	Compact Hybrid
Invest Cost				
Running Cost				
Carbon				

Green gas case study – Vale of Evesham

- Hybrid ready now
 - Biomethane take up varies by region
 - Target = 20%
 - Capacity circa 45%
 - Enough green gas to support smart hybrids.
- Medium Term
 - BioSMG Swindon



Discussion Session



Feedback



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What's next

Sarah Williams Director of Regulation

Research and Citizens Panel trial

Hy Compact research and trials imminent

Bring together everything you have told us today along with what people have told us at other workshops and the research findings to shape our approach, delivery and communications.



THANK YOU

Feedback forms and how to get in touch

Sign up for enewsletter and other events

