

SP Energy Networks Net Zero Knowledge Community and the Book of Knowledge – Governance Pack



Knowledge Community – Governance Board Invite

This presentation forms part of an invite to determine if you wish to be part of the small Net Zero Knowledge Community Governance Board

Governance Board will ideally be constructed of the following

- 1. Utilities x3 - 4 – SPEN, SSEN, SGN, GTC***
- 2. Academia x 3 - Strathclyde Uni., St Andrews Uni., Edinburgh Uni.***
- 3. Business leads x 3 – EON innovation, Cala Homes, Consultants***
- 4. Local Authorities x 3 – Fife, Edinburgh, East Ayrshire***

Expectations in the role

- 1. 2 - 3 hours per month – 1 hour Governance meeting + 1-2 hours action delivery***
- 2. Pull on existing resources to provided known information***
- 3. Provide open honest guidance and wisdom for the wider community***
- 4. Share the platform equally with all other board members and contributors***

Knowledge Community - Purpose

To provide information and support for all stakeholders in facilitating the UK, Welsh and Scottish Governments net zero targets

The Ten Point Plan for a Green Industrial Revolution

Point 1: Advancing Offshore Wind

Point 2: Driving the Growth of Low Carbon Hydrogen

Point 3: Delivering New and Advanced Nuclear Power

Point 4: Accelerating the Shift to Zero Emission Vehicles

Point 5: Green Public Transport, Cycling and Walking

Point 6: Jet Zero and Green Ships

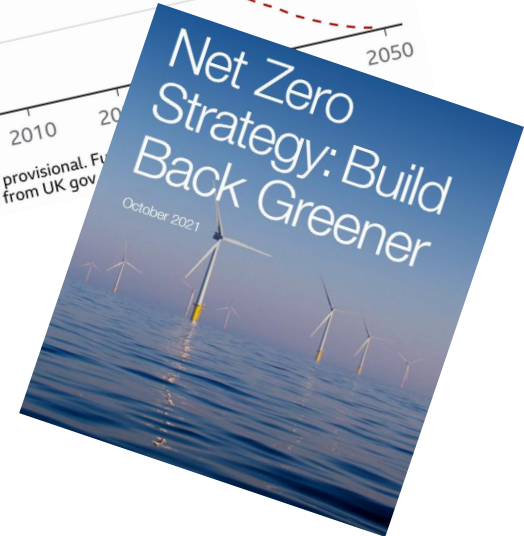
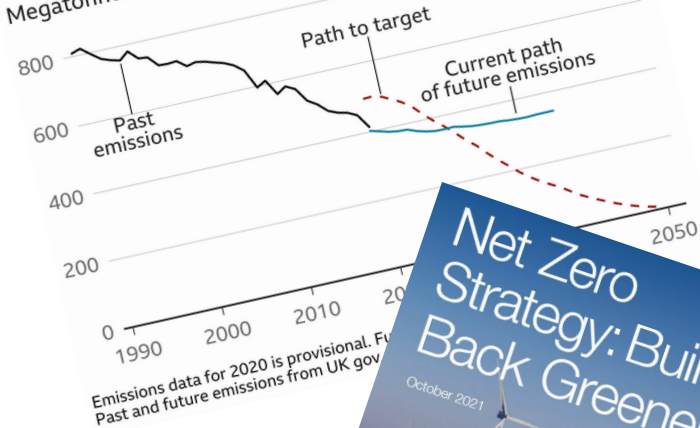
Point 7: Greener Buildings

Point 8: Investing in Carbon Capture, Usage and Storage

Point 9: Protecting Our Natural Environment

Point 10: Green Finance and Innovation

UK will miss targets without more action
Megatonnes of greenhouse gas emissions a year



Knowledge Community - Governance

Good Governance to ensure we create a knowledge community that is timely, effective, efficient and fair to all

Governance Hierarchy

1. **Governance Board – Utilities, Academia, Business leads – 12 max**
2. **Expert Panel – Product and solutions Experts – 30 max**
3. **Contributor Forum – Local authority strategy partners, development associations, connection stakeholders – 100+**
4. **User group to benefit from information – 1000+**

Choose top 10 products and 5 solutions

Full life cycle expertise and business cases

Use info to accelerate net zero solutions

Endorse process and provide key net zero needs

Knowledge Community – Progress Stages



Progress so far to be ratified at first governance meeting

Knowledge Community – Potential Outputs

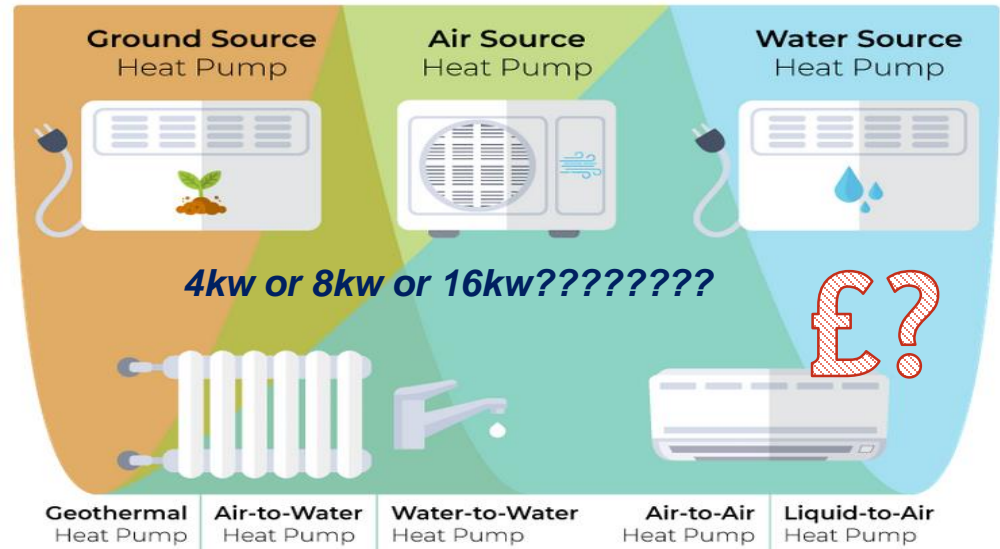
*From Stakeholder feedback so far
our focus will be on top 10
Products and 5 solutions – to be
ratified at 1st Governance meeting*

Net Zero Products (micro / macro)

1. **EV Chargers**
2. **Heat Pumps**
3. **Solar**
4. **Housing Fabric**
5. **Green Hydrogen**
6. **Energy Storage**
7. **Wind**
8. **Bio-Carbon Capture (Trees)**
9. **Hydro**
10. **Sustainability and Local Employment**

Net Zero Solutions

1. **Heat Pumps, Fuel Poverty**
2. **EV Parking, Solar, Storage vs Demand constraints**
3. **Wind, Solar, Storage vs Generation limitation**
4. **Housing Fabric vs Heat pumps**
5. **Green Hydrogen vs EV / Heat pumps**



Knowledge Community – Lifecycle Management 1

Focus will be on the full life cycle of the net zero product or solution, a cradle to grave approach to answer all key questions



1. **Cost**
 - **Purchase**
 - **Install**
 - **Commission**
 - **Run**
 - **Maintain**
 - **Decommission**
 - **Disposal**
2. **Benefits & Risks**
3. **Impact**
 - **Network**
 - **User**
 - **Community**
4. **Timescales**
5. **Case study examples**
6. **Investment payback**
7. **Net zero benefit**
8. **Comparison with other solutions / products**

Knowledge Community – Lifecycle Management 2

A “whole of life” approach means moving away from transactional or one-off purchase to an approach which sees the acquisition as a multi-step process to be done slowly and properly.



This includes:

1. Careful Need identification
2. Planning what is expected from it once acquired
3. Design effort for minimum purchase specifications
4. Procurement based on the previous three steps
5. Commissioning / installing to make sure that the business gets everything promised in the purchase contract
6. Operating, maintaining and monitoring the asset on a continual basis
7. Modifying the asset or upgrading it if possible and if this makes good commercial sense
8. Decommissioning or retiring/disposing of the asset so that it can be appropriately replaced

Knowledge Community – Book of Knowledge

Key output will be a Net Zero Book of Knowledge with Lifecycle Information for the top 10 Products and 5 solutions from March 2022 through to October 2023 in 4 tranches

The Net Zero Book of Knowledge seeks to be the foundation of the Information required for Net Zero decision making, assuming a zero base starting point for the audience.

In this way accelerating the installation of effective, efficient and timely net zero solutions that fit the need of the user group.

Eliminating in the process costly and timely mistakes made through inexperienced decision making.

Effectively accelerating the knowledge base of the UK Net zero community

Knowledge Community – Next Steps

1. *Governance Board to confirm members at first Board in Jan 2022... next due March 2022*
2. *Newsletter to communicate Governance Boards plan for next 22 months*
3. *Expert Panel meeting and commit to authoring their key net zero area – 1st held Yesterday... Next Due April 2022*
4. *Contributor Forum to Endorse product and solution offering and governance process... April 2022*
5. *Expert Panel to produce first tranche of products and solutions for review... March to May 2022*
6. *User Group event April 2022 - Views and improvement suggestions capture in ICE submission 2022 / 23*
7. *Repeat of process until all 4 tranches are completed and top 10 Products and 5 Solutions are capture in the first Net Zero Book of Knowledge*

We will try to combine staged early releases of these tranches with pragmatic robust of information that can have immediate benefit while we close out each product and solution

Knowledge Community – Questions



Net Zero Knowledge Community and the Book of Knowledge – Governance Pack



Please let me know your thoughts and if you wish to be part of this Governance Board.

Governance Board to kicked off in Jan 2022
Expert Panel Kicked off March 2022
Contributor Forum and User Group Events due in next few months