



Accelerating Renewable Connections

Work Stream 6 – Update

13th Oct 14

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Agenda

- Introduction – Aims and Objectives – the original slide
- What we have done to date:
 - ✓ Commercial Agreement
 - ✓ Online Curtailment Analysis tool
- What Stakeholders have said – Bad and Good
- Summary



Accelerating Renewable Connections (ARC) – Project Aims & Objectives

- Overall Aim of Project ARC is to accelerate the process & time to connect renewable generation

How can DNOs improve the generation connections process?

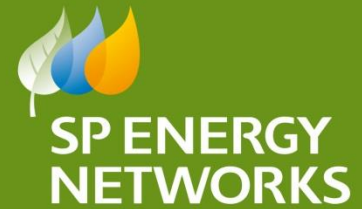
Time to connect

Cost of connections

Customer Service

Key Objectives

- Improve network access & capacity available to accommodate distributed generation
- Accelerate the time taken to connect distributed generation
- Enable connection of distributed generation to be facilitated around constraints; and
- Create an enduring process & learning tool that can be rolled out across our distribution networks and Great Britain



Six Key Elements of ARC & Trial Area

Empowering Customers

Connection Design Policy & Enabling Technology Review

Delivery of Non-Firm Capacity Connection Agreements

Deployment of Active Network Management Technology – Network Connection Trial

Delivery of at least 1 Community Demonstration Project

Knowledge Transfer and Industry Policy Reviews

- ❑ **Trial Location** – East Lothian & Borders Region of Scotland that covers an area of 2,700km²
- ❑ **Characteristics** – High penetration of existing generation, some of which is subject to operational constraints & existing generation capacity exceeds demand in parts of the region
- ❑ **Distribution Generation Potential** – 200MW of connected generation with a further 530MW of applications/enquires received
- ❑ **Network Trial** – High level of existing and pending generation at all voltages levels including Transmission Network at exporting GSPs





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Online Curtailment Analysis Tool

“This is brilliant – exactly what we want”

“The closer to real time you can make the available data, the more useful it becomes.”

“Could this be available to the Scottish Government? It would be a really helpful addition as an overlay to their heat map system.”

“Can there be the capacity to look at two technologies?”

“This tool is great! Can we have this over the whole of SPEN’s area?”

“Can the demand profile be added?”



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What Stakeholders Said – Feb 14

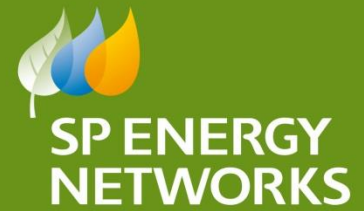


Q6.
Does SPEN provide enough online information about available network capacity in specific areas to help with planning new generation?



Q5.
How much information does SPEN provide to generation companies on connection capacities at all voltages across their network area?



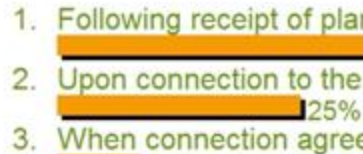


What Stakeholders Said – Jun 14

Q1. Do you agree with SP Ene to constrain actively managed LIFO stack?



Q2. How should a generator's p stack be established?



Q3. Do you support the proposal for a two-stage connection agreement for those generators affected by transmission constraints to enable distributed generation to connect ahead of completed reinforcements?



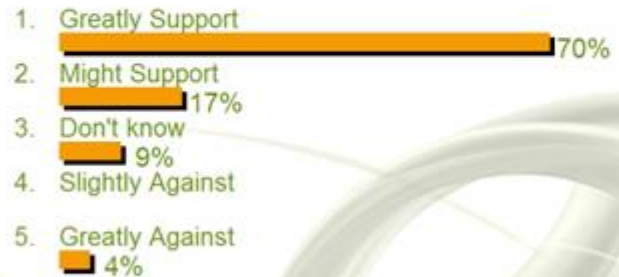
Q4. Do you believe that Project what SP Energy Networks connection to the grid?



Q5. Previously 67% of delegates vo **SPEN does not currently prov information about available n assist developers in planning** Do you believe that the propos tool will improve this?



Q6. Would you support connections offers being withdrawn by SPEN if planning consent was not achieved within a specified timescale and for that capacity to be made available for those projects more advanced in progressing towards connection?





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We are 22 months into a 4 year project. We have enabled Dunbar Grid Supply Point with Active Network Management. We consulted on our progress and:

Listened to Stakeholders and are responding directly to their needs.

Prioritised Online Curtailment Analysis Tool (OCAT) to be delivered to trial area by 31st March 2015 - as promised to stakeholders

Active Network Management into Business as Usual during 2015 – 2 years ahead of project close.

Questions?