

Scottish Smart Grid Action Plan



Scottish Smart Grid Strategy

The Smart Grid Sector Strategy is aimed at companies of all sizes, research institutions and public sector organisations who can help realise the vision and take advantage of opportunities. The aim is to make Smart Grids a thriving sector, leading to additional jobs and economic wealth.

Vision

The vision for 2020 is for Scotland to become an exemplar of Smart Grid adoption and a leading international provider of Smart Grid technologies and know-how, and to grow the sector by up to 12,000 jobs by 2020.

Opportunities

The key market and technology opportunities are:

- New business models for supplying electricity and additional services
- Customer energy management
- Data acquisition, monitoring and analysis
- Network automation and optimisation
- High-voltage DC
- Energy storage.

Strategic Direction

Our strategy for success is centred on three key objectives which will increase Scotland's prosperity through job and economic wealth creation:

DEVELOPING AND APPLYING PRACTICAL, PRAGMATIC SMART GRID SOLUTIONS

Development and application of Smart Grid technologies and new business models within Scotland to facilitate the transition to the low-carbon economy.

BUILDING THE INDUSTRY

Connecting suppliers of innovative technologies and services – in particular Information and Communication Technology (ICT) companies – with network operators and other major companies, and highlighting Smart Grid opportunities.

DEVELOPING THE GLOBAL REACH OF THE SECTOR

Building on Smart Grid solutions developed and demonstrated within Scotland to export technologies and services globally.



Scottish Smart Grid Action Plan - Priorities

Communicate Benefits

OBJECTIVE	ACTIONS	OUTPUTS
Promote the opportunities & benefits of Smart Grid deployment for Scotland	<ul style="list-style-type: none"> Appoint a Smart Grid Communication partner to co-ordinate the dissemination of Smart Grid messages on:- <ul style="list-style-type: none"> Technical problems and demand opportunities Outputs from pilots and demos to raise positive awareness of Smart Grids, incl. the potential to address fuel poverty 	Smart Grid Strategic Communications Plan



Encouraging Innovation

OBJECTIVE	ACTIONS	OUTPUTS
Increase company awareness of Smart Grid market opportunities	<ul style="list-style-type: none"> Quantify & qualify scale and diversity of Smart Grid opportunity Specify the technical problems that need resolving in the short & medium term Identification of the range of technical & service capabilities required to deliver solutions 	Demand statement of Smart Grid Opportunities "Meet the Buyer" events matching potential suppliers with Smart Grid purchasers
Attract new Scottish companies to generate revenue from Smart Grid opportunities	<ul style="list-style-type: none"> Create signposting process to highlight smart grid opportunities and support Smart Grid specific calls for R&D grants and Proof of Concept support Promote collaborative innovation between companies & academia 	More Scottish companies in Smart Grid supply chain.






Developing the Supply Chain

OBJECTIVE	ACTIONS	OUTPUTS
Map existing Smart Grid Supply Chain in Scotland	<ul style="list-style-type: none"> Produce a Smart Grid supplier directory to capture company capabilities across a wide range of technical and service specifications 	Smart Grid Supplier Directory



Key

-  Short Term
-  Medium Term
-  Long Term



Scottish Smart Grid Action Plan - Priorities

Developing the Supply Chain

OBJECTIVE	ACTIONS	OUTPUTS
Increase the number of companies generating Smart Grid revenues	<ul style="list-style-type: none"> Bring DNOs and large companies closer to the supply chain. Accelerate time to market of products via testing in safe environments e.g. PNDC. Establish a Smart Grid Business Mentoring Programme – using mentors with specific knowledge of the Energy market. Increase global reach of Smart Grid capabilities in Scotland by export support, marketing collateral and raise profile to investors 	More companies generating revenue & exporting Smart Grid products and services



Supporting Skills Development

OBJECTIVE	ACTIONS	OUTPUTS
Ensure skill requirements of developing Smart Grid sector are recognised / addressed	<ul style="list-style-type: none"> Identify the skills challenges faced by Smart Grid sector and communicate those messages to key partners on a regular basis. Partner with organisations responsible for skills development to ensure that specific Smart Grid skills issues are addressed across the sector 	<p>A sustainable Smart Grid Skills plan</p> <p>Programme of training activities to deliver skills plan.</p>



Maximising Impact

OBJECTIVE	ACTIONS	OUTPUTS
Profile & promote more use of the Smart Grid asset base	<ul style="list-style-type: none"> Build demonstration and test results information into Scottish Smart Grid international marketing collateral Dissemination of pilot projects in Scotland to address Smart Grid requirements Encourage wider participation from companies in R&D and test facilities activities, including B2C companies providing home energy management 	<p>Smart Grid Marketing Collateral</p> <p>Wider company participation in Smart Grid facilities</p>



The full Smart Grid Sector Strategy is available at www.scottish-enterprise.com/smartgrids

