

FIEE Conference

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São Paulo

Smart ecosystems in Britain: an energy case study
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SmartGridGB
For an intelligent future

CONTENTS

- Who we are
- Smart grid in Britain: what it means and what's driving it
- The challenges
- How is the UK facing up to these challenges?
- What is SmartGrid GB doing to help?

WHO WE ARE



Launched 23 June 2011 by former Energy Minister, Charles Hendry MP, at the Royal Society of Engineering in London

Overarching objectives as approved in 2013 Business Plan:

1. Promotion of economic benefits
2. Policy & regulation
3. Creation of an industry
4. Promotion of consumer benefits
5. Bringing the value chain together
6. Information dissemination

Two campaign points for 2013:

1. To develop the Economic Benefits case for smart grid development.
2. To develop a compelling Consumer Benefits case for smart grid development.

WHO WE ARE



-DECC, Ofgem and Consumer Focus are observer members of SmartGrid GB
-Part provided by Intellect, the UK Trade Association for the ICT Industry

SMART GRID IN BRITAIN: WHAT IT MEANS AND WHAT'S DRIVING IT

Definition

A smart grid as part of an electricity power system can intelligently integrate the actions of all users connected to – generators, consumers and those that do both – in order to efficiently deliver sustainable, economic and secure electricity supplies [ENSG, November 2009]



SMART GRID IN BRITAIN: WHAT IT MEANS AND WHAT'S DRIVING IT

Sustainability



Existing
powerstation
closures

~25%

of total capacity by 2020



Affordability



Gas from
UK sources

~25%

of total supplies by 2020



Security of
supply

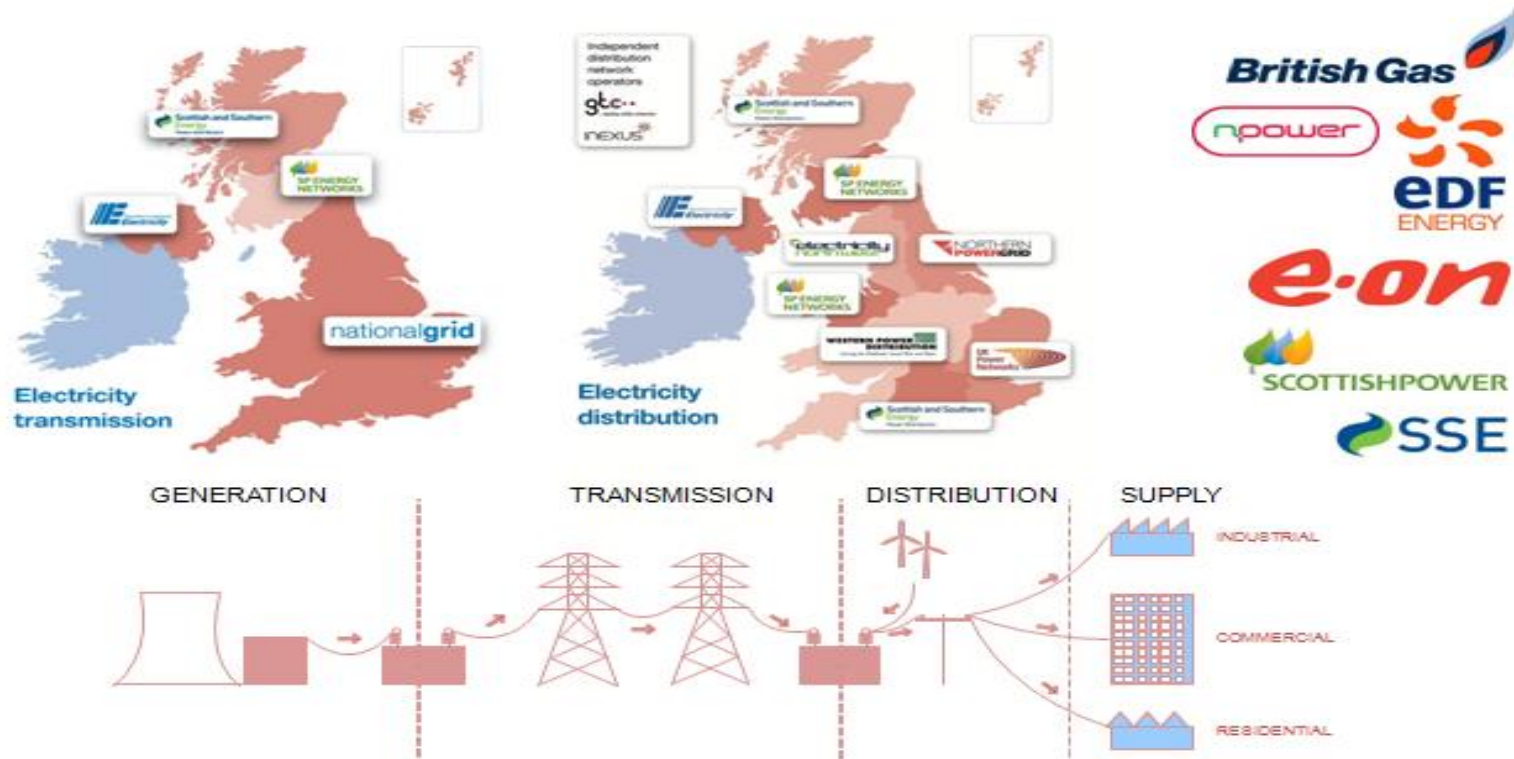


Source: National Grid

THE CHALLENGES...



1. UK ENERGY MARKET STRUCTURE



2. TECHNICAL / COMMERCIAL

3. POLICY & REGULATORY

4. CONSUMER ACCEPTANCE

HOW IS BRITAIN FACING UP TO THESE CHALLENGES?

GB is world leading

- Smart meter rollout
- Low Carbon Networks Fund
- New Regulatory Frameworks
- DECC/Ofgem Smart Grid Forum

Local initiatives increasing in prominence

- Eco Island
- Smart Cornwall and Wadebridge
- Manchester
- Ashton Hayes
- Glasgow

Government

Local

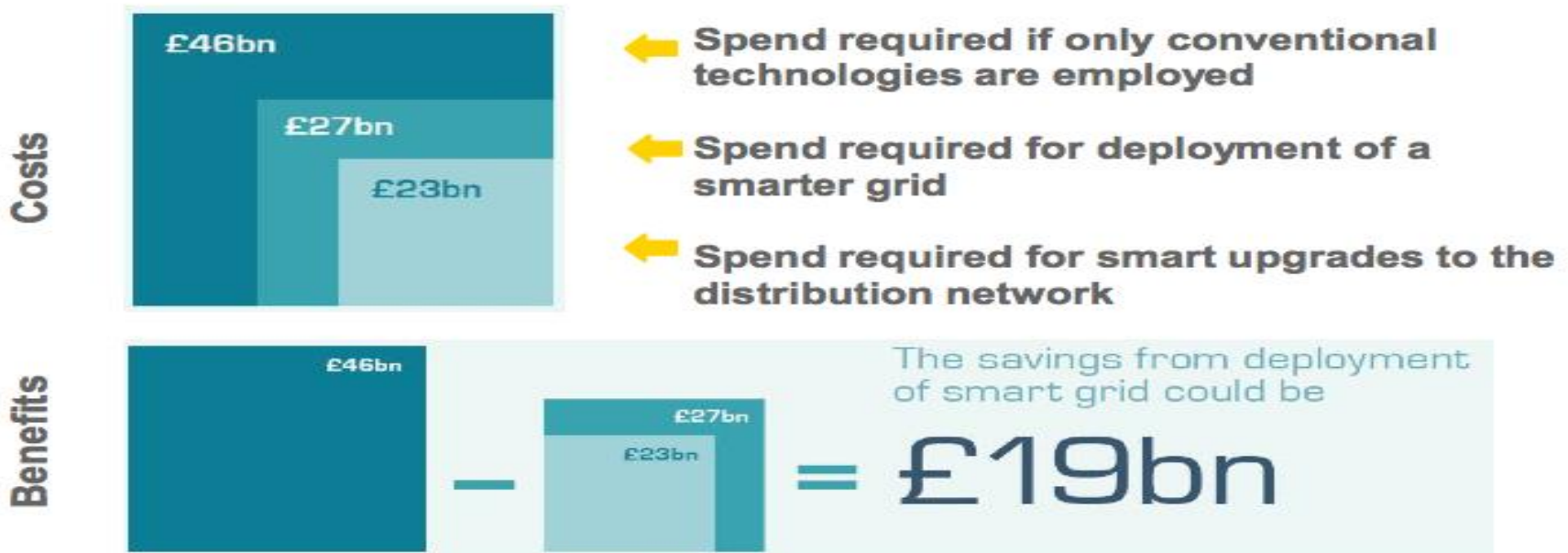


WHAT IS SMARTGRID GB DOING TO HELP?

SGGB published a report in April 2012 called 'Smart grid: a race worth winning'

Launched by former Energy Minister, Charles Hendry MP, at the Royal Academy of Engineering

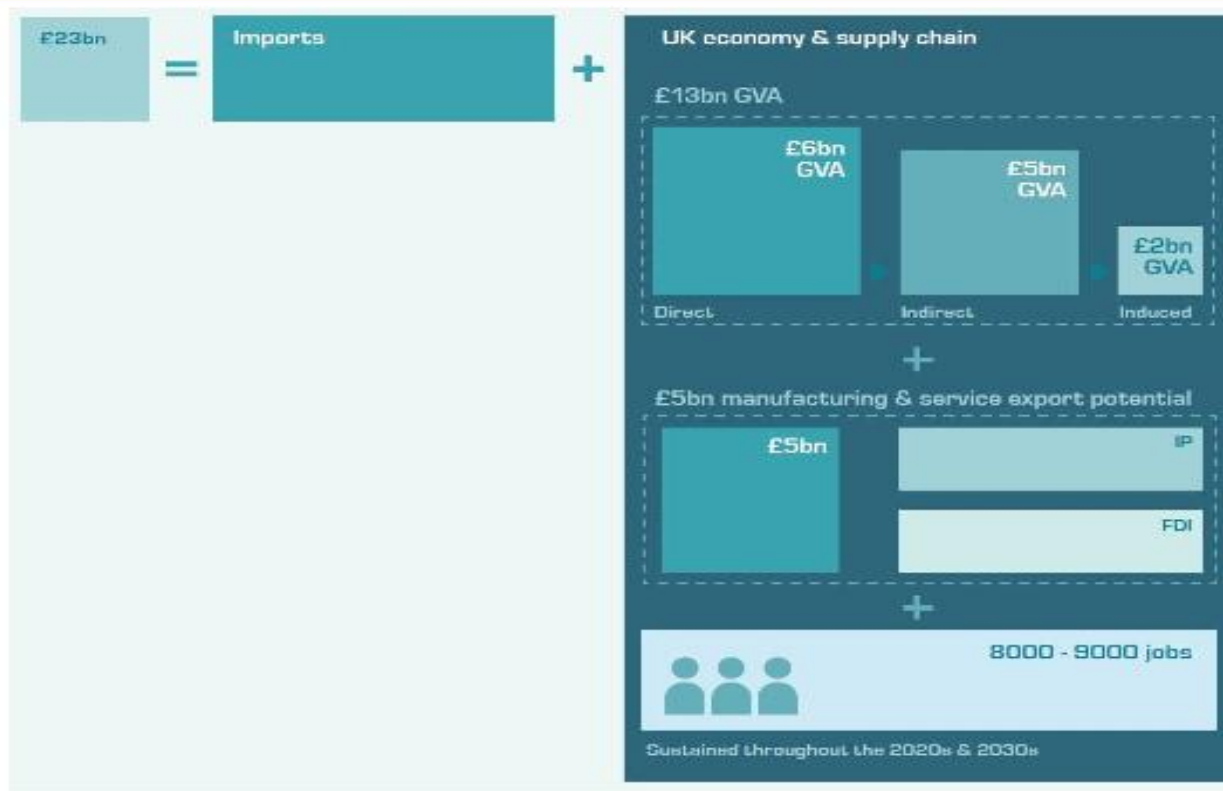
Core costs and benefits



Early-stage research from SGF evaluation framework plus EY assumptions
All expenditure figures are NPV (2012-2050)

WHAT IS SMARTGRID GB DOING TO HELP

Supply chain benefits



Source: Smart Grid: A Race Worth Winning? SmartGrid GB

WHAT IS SMARTGRID GB DOING TO HELP IN 2013?

- Appointing a 3rd party to explore the consumer benefits case for smart grid development in much more detail
- Energy Bill: feeding in industry views
- Bringing the value chain together:
 - Regular workshops with DNOs & suppliers
 - Conference with Energy Minister, John Hayes MP with ENA, Energy UK, BEAMA, and Intellect, 16th April at the British Academy
- Aiding international collaboration via Global Smart Grid Federation and UKTI
- Find out more: at www.smartgridgb.org

Muito obrigado!

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