

# Innovation Supporting Policy

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10th anniversary Cleanpower Smart Grids  
Conference 2019

[www.cir-strategy.com/events](http://www.cir-strategy.com/events)

Sally Fenton, Head of Smart Energy Innovation, BEIS

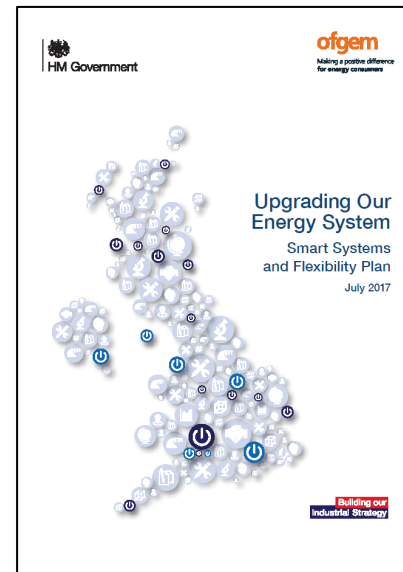
<https://www.gov.uk/guidance/energy-innovation>

Science and Innovation for Climate and Energy Directorate



Department for  
Business, Energy  
& Industrial Strategy

# Energy Innovation Support Landscape - Policy Drivers



<https://www.gov.uk/guidance/energy-innovation>

Science and Innovation for Climate and Energy Directorate

# Energy Innovation Support Landscape - Policy Drivers

Press release

## **PM Theresa May: we will end UK contribution to climate change by 2050**

Legislation laid today puts the UK on the path to become the first major economy to set net zero emissions target in law.

Published 12 June 2019

Last updated 19 June 2019 — [see all updates](#)

From: [Prime Minister's Office, 10 Downing Street](#), [The Rt Hon Greg Clark MP](#), and [The Rt Hon Theresa May MP](#)



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Britain has become the first G7 economy to put its 2050 net zero emissions target into law

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# Energy Innovation Support Landscape – Policy Drivers: Clean Growth Challenge

*We will maximise the advantages for UK industry from the global shift to clean growth – through leading the world in the development, manufacture and use of low carbon technologies, systems and services that cost less than high carbon alternatives*



*We will take action to establish and extend UK leadership in the following early priority areas:*

- develop **smart systems** for cheap and clean energy across power, heating and transport....
- develop UK leadership in **low carbon transport** across road, rail, aviation and maritime

*We will:*

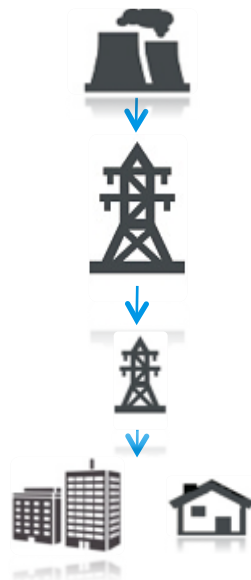
- *increase our support for innovation so that the costs of clean technologies, systems and services are reduced across all sectors,*
- *align our policies, regulations, taxes and investments to grow the markets for these new innovations so that they are successfully commercialised in the UK.*

*Our long-term goals are to make clean technologies cost less than high carbon alternatives, and for UK businesses to take the lead in supplying them to global markets.*

# Energy Innovation Support Landscape – Policy Drivers:

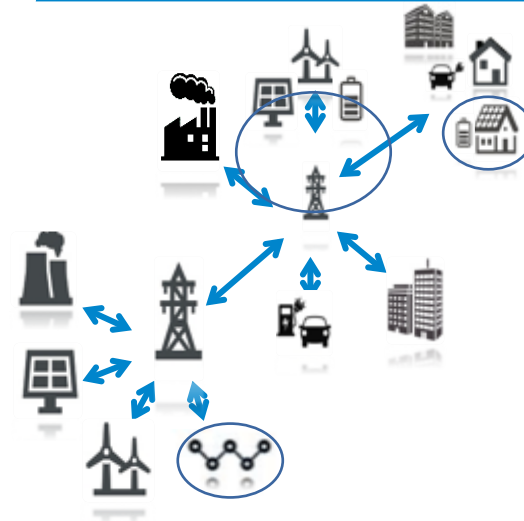
Our energy system is undergoing fundamental change:  
**decentralisation, decarbonisation and digitalisation (DDD)**

## Yesterday



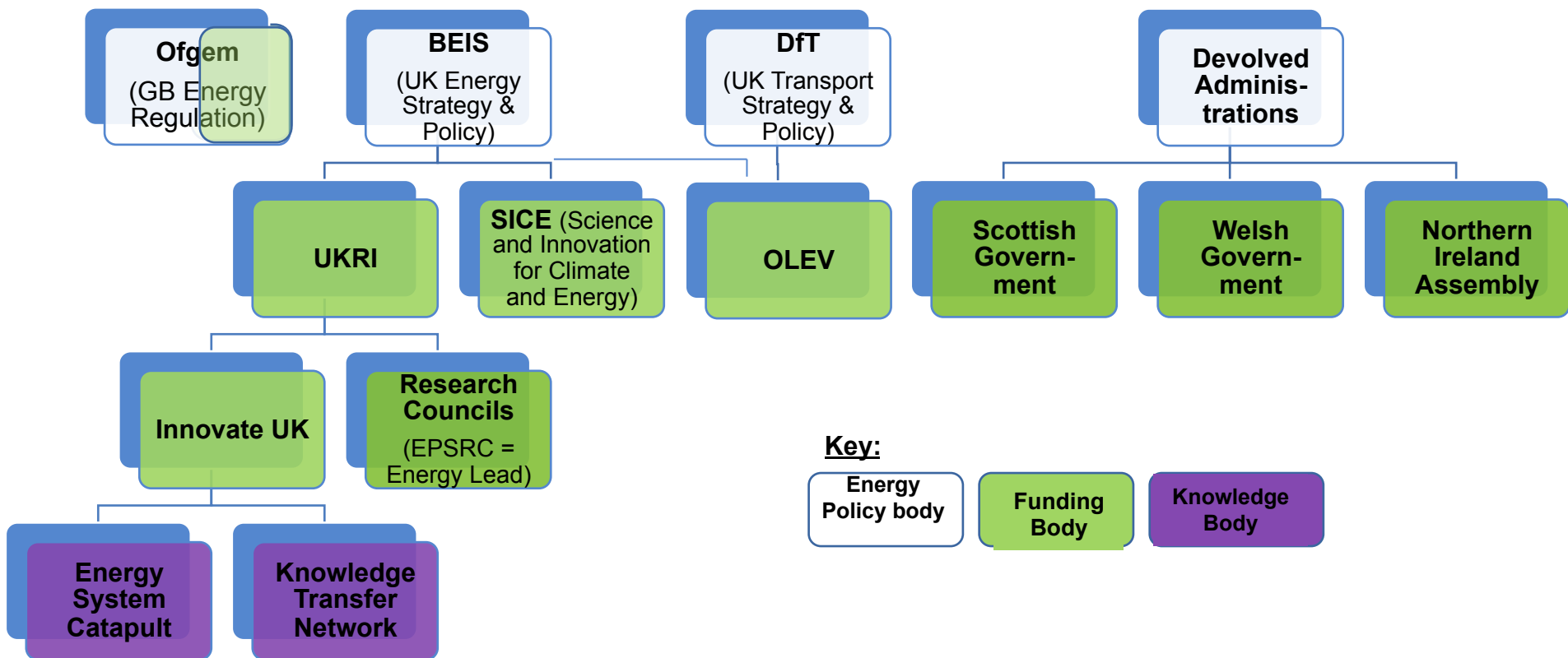
- Carbon intensive
- Centralised generation
- Predictable supplies

## Emerging System – increased interactions



- Low carbon
- Interconnectors
- More distributed
- Storage
- Demand side response
- Electric vehicles/heat
- Big data & AI
- Smart grids

# Energy Innovation Support Landscape - Organisation Overview



# BEIS Energy Innovation Programme

The overall aim of the £505m BEIS Energy Innovation Programme is to accelerate the commercialisation of innovative cheap, clean, and reliable energy technologies by the mid 2020s and 2030s.

Within each theme the budget is allocated to a mix of development and demonstration projects focused on specific objectives, underpinned by a programme of open, cross-cutting support

**£180m**  
Nuclear

Driving down costs and building new UK supply chains and skills

**£15m**  
Renewables

Driving down the cost of low carbon electricity at scale

**£100m**  
Industry

Low carbon options for industry, lowering energy costs

**£90m** Built Environment

More cost effective energy efficiency and low carbon heating

**£70m** Smart Systems

Cost effective flexibility, including new storage options

**£50m Cross Cutting** Supporting disruptive innovations (particularly for SMEs), including using innovative finance.

# BEIS Smart Energy Innovation Programme

## Smart Energy Innovation Programme: (up to £70m budget)

[www.gov.uk/guidance/funding-for-innovative-smart-energy-systems](http://www.gov.uk/guidance/funding-for-innovative-smart-energy-systems)

### Energy Storage Competitions (up to £30m)

Focused on cost reduction of larger scale technologies (SatS winners, autumn 2019)

### Demand Side Response & Reduction Competitions (up to £20m)

Engaging domestic & commercial consumers with innovative DSR and demand reduction applications (winners announced June 2018)

### Vehicle-to-Grid Competition (up to £18m + £12m OLEV)

Innovative technology and business approaches to harness vehicle-to-grid (winners announced January 2018)

### Flexibility Markets Competitions (up to £4.6m)

Innovative approaches to value and trade flexibility at local levels (winner to be announced summer 2019)

### Smart Meter Application Competitions (up to £8m)

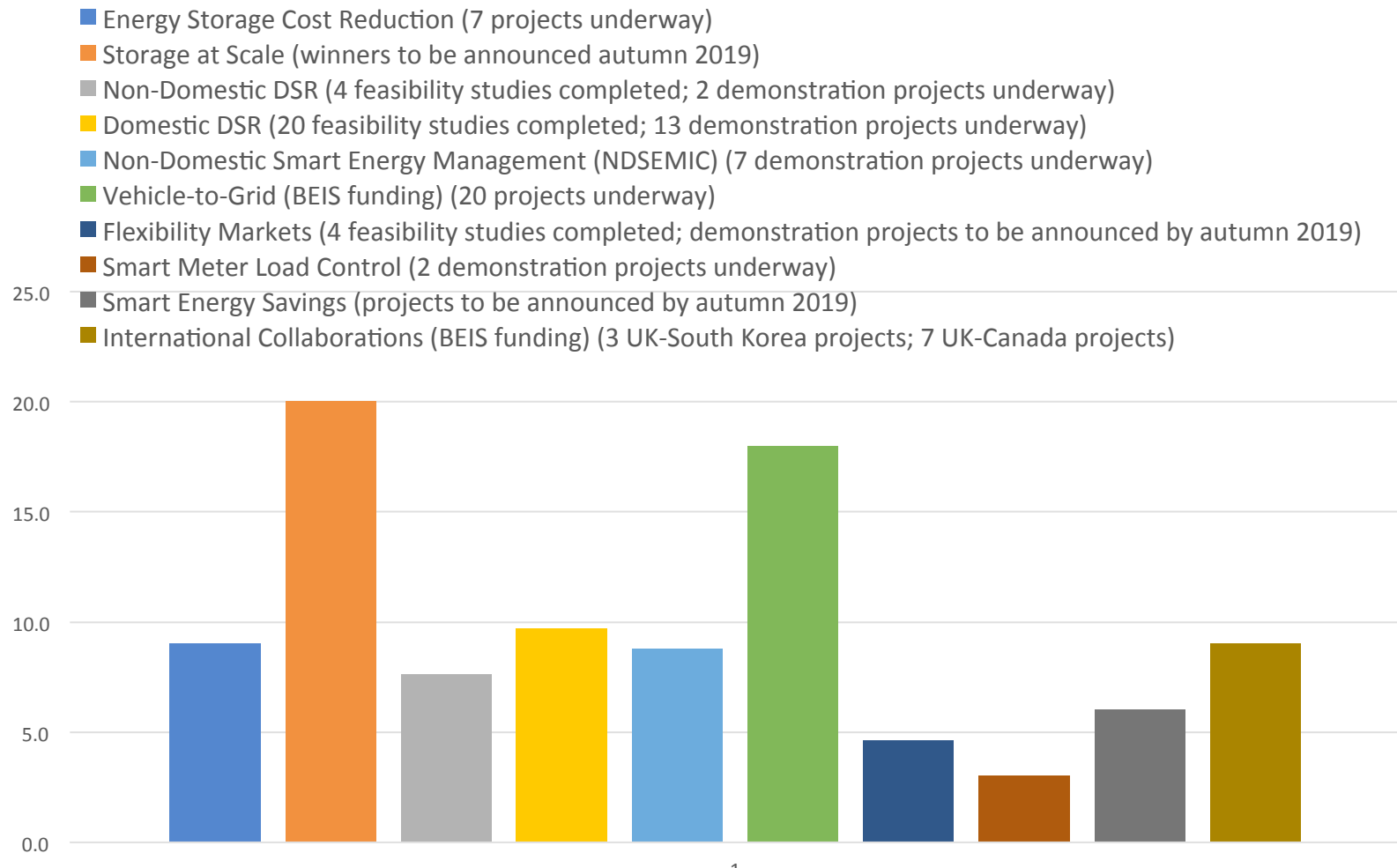
Smart Meter Load Control and Smart Energy Savings Programmes (winners to be announced summer 2019)

### International Collaboration Competitions (up to £9m)

UK-South Korea - £3m (+£3m South Korea) (winners announced 2018);  
UK-Canada - £6m (+\$10m Canada, winners announced June 2019)



# BEIS Smart Energy Innovation Programme



# Thank you!

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energy-innovation](https://www.gov.uk/guidance/energy-innovation)