



Department for
Business, Energy
& Industrial Strategy

Key note: shaping the future of innovation

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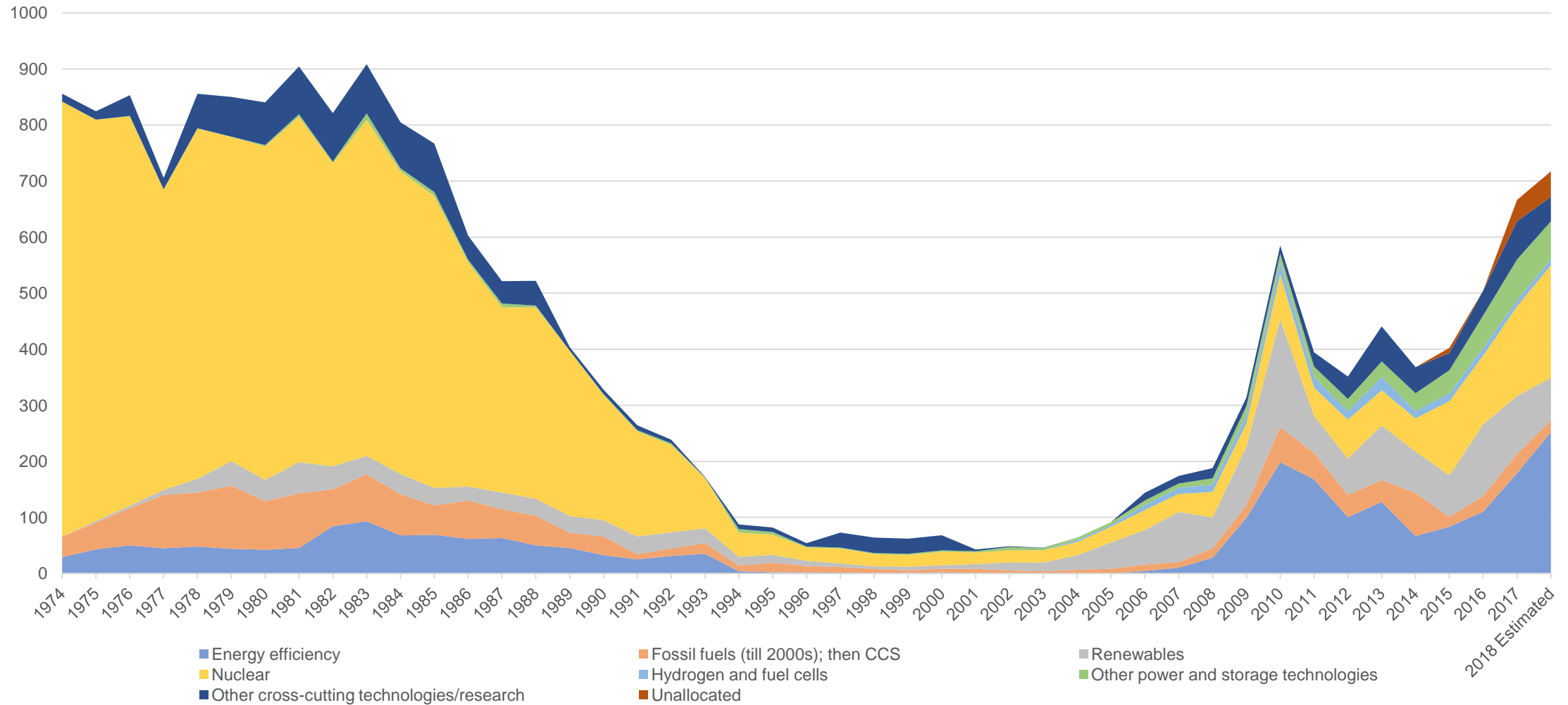
Science & Innovation for Climate & Energy



Rushlight Show 2020



UK Govn investment in energy research & innovation



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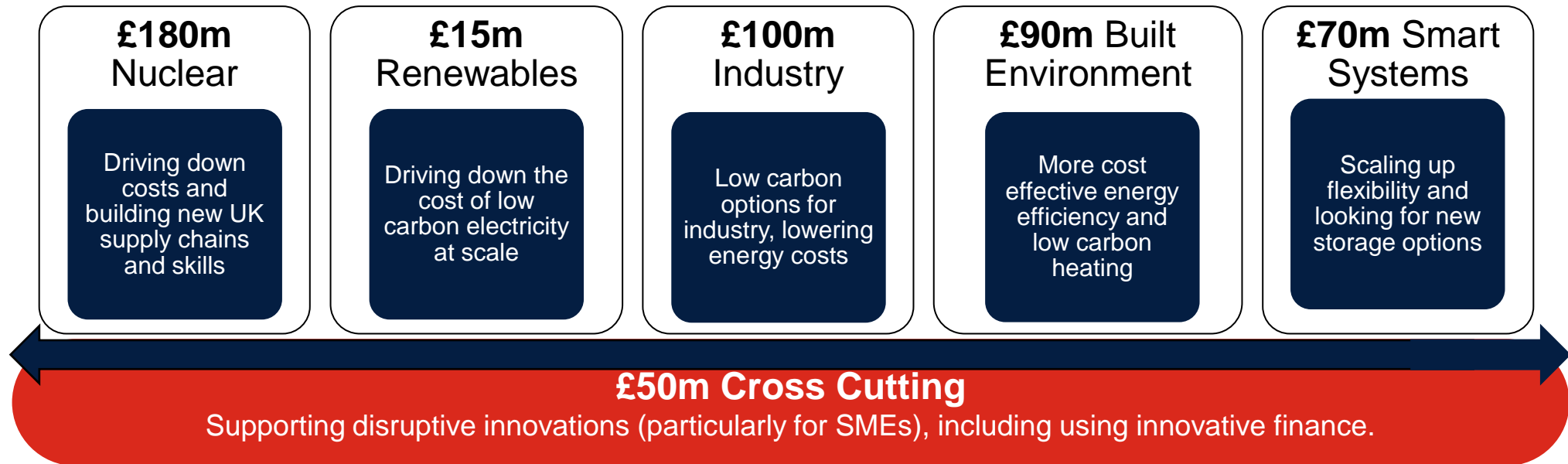
**INDUSTRIAL
STRATEGY**

Source: IEA; National Currency (2018 prices)

BEIS Energy Innovation Programme (2015-21)

Clean Growth Strategy set out expectation to invest £3bn in energy and clean growth innovation

The aim of the BEIS Energy Innovation Programme (EIP) is to accelerate the commercialisation of innovation cheap, clean, and reliable energy technologies by the mid 2020s and 2030s.



The Energy Entrepreneurs Fund

Launched in
2012

Phase 7: 2018

EEF HAS GRANTED

£75M

TO OVER

135 INNOVATORS

DEVELOPING A WIDE
RANGE OF TECHNOLOGIES

CLEAN
POWER
RENEWABLES



HEAT RECOVERY
& CARBON
CAPTURE



HEATING
& ENERGY
EFFICIENCY



ELECTRIFICATION
OF VEHICLES &
ALTERNATIVE
FUELS



BIOMASS,
WASTE &
CIRCULAR
ECONOMY



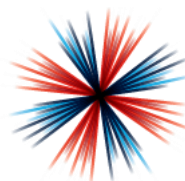
ENERGY STORAGE,
DEMAND
RESPONSE
& NETWORKS

Identify and
fund
potentially
disruptive
technologies

Provides
incubation
support in
addition to
grant funding



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INDUSTRIAL
STRATEGY



Tata Chemical to construct a CCU Demonstration plant in Cheshire

£17m total investment; supported by BEIS £4.2m grant

40,000 tonnes of carbon dioxide to be captured each year

“UK’S LARGEST CARBON CAPTURE PROJECT TO PREVENT EQUIVALENT OF 8,000 CARS’ EMISSIONS FROM POLLUTING THE ATMOSPHERE FROM 2020”

- Equivalent to 47,000 acres of forest being planted (40,000 tonnes of carbon dioxide) – – to be captured each year at Tata Chemicals in Cheshire
- UK’s largest carbon capture project to date - 100 times more than the UK’s current largest facility
- Tata is UK’s only manufacturer of soda ash and sodium bicarbonate

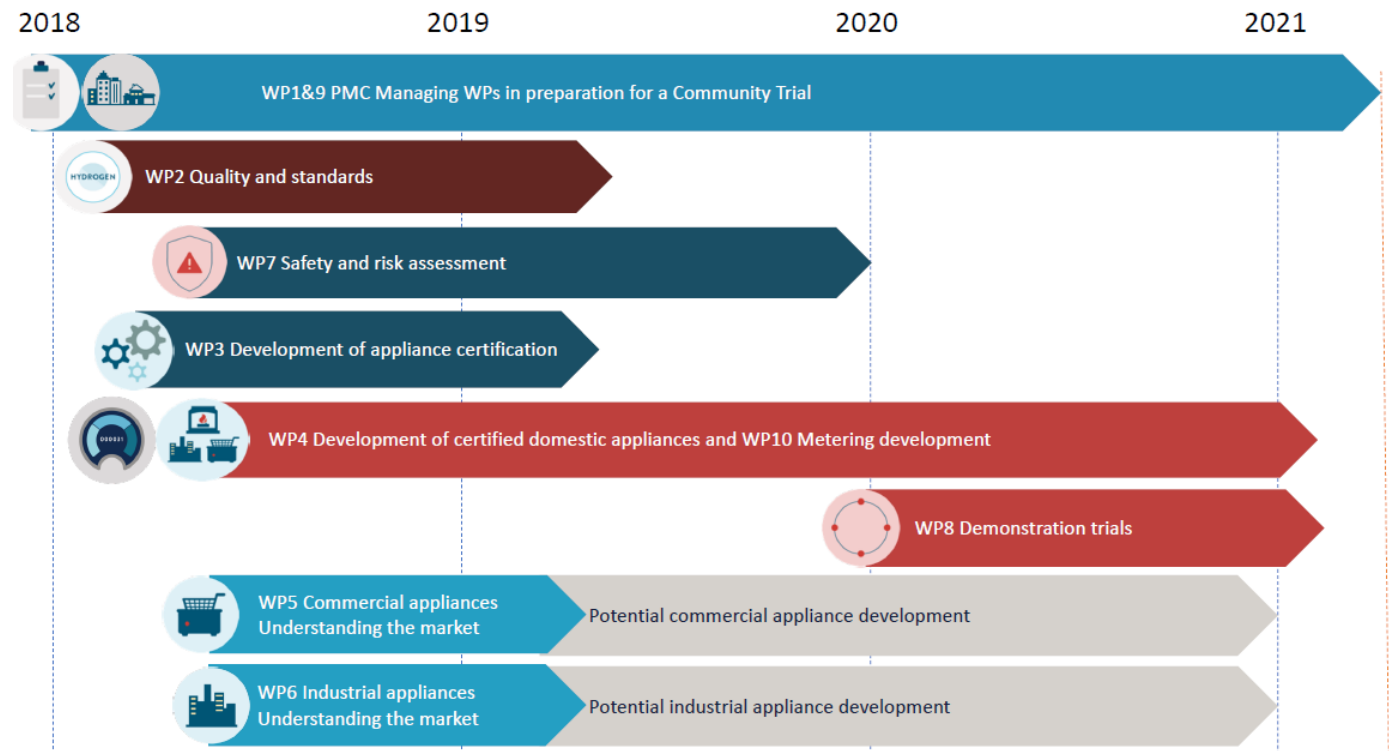


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Partners: ARUP + Kiwa, Embers, Yoenergy & Progressive Energy

- Design, develop, test and certify domestic hydrogen appliances – think gas fired boilers, cookers and fires – that we all use in our day to day lives – that currently generate CO2 as they use natural gas (methane).
- We are running a competition to deliver safety certified prototype appliances (March 2020) and fully certified prototypes (March 2021).
- We are looking to get initial consumer feedback on these appliances as part of the programme



Making good progress so far



- CCUS deployment pathway
- £315m Industrial Energy Transformation Fund
- Road to Zero
- 25 Year Environment Plan
- Business energy efficiency call for evidence
- Future framework for heat in buildings call for evidence
- Rented sector housing minimum standard regulations
- £557m for renewable technologies (Contracts for Difference)
- Offshore Wind Sector Deal
- Announced PM chaired Cabinet Committee on Climate Change
- The CCC will publish its recommendation on the level of the Sixth Carbon Budget in September 2020
- In accordance with the Climate Change Act 2008, we must set the sixth carbon budget by 30 June 2021



Net Zero



- **2 May 2019**
Committee on Climate Change recommended UK legislate as soon as possible to reach net-zero greenhouse gas emissions by 2050.
- **27 June 2019**
UK government set a legally binding target to achieve net zero greenhouse gas emissions from across the UK economy by 2050. We are the first major economy in the world to legislate for a net zero target
- **11 March 2020**
First Budget since the General Election

