

Energy Innovation: BEIS' £505m programme - lessons learned and setting future priorities

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Matthew Billson

Deputy Director, Energy Innovation Strategy & Portfolio, BEIS

£505m BEIS Energy Innovation Programme (2016-21)

Aim: accelerate the commercialisation of innovative cheap, clean, and reliable energy technologies by the mid 2020s and 2030s

£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

Scaling up flexibility and looking for new storage options

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



World's first cryogenic battery (Manchester)



UK's first Carbon Capture Usage (CCU) plant (Cheshire)



World's largest domestic V2G trial



Evidence base: Energy Innovation Needs Assessment

Energy Innovation Needs Assessment

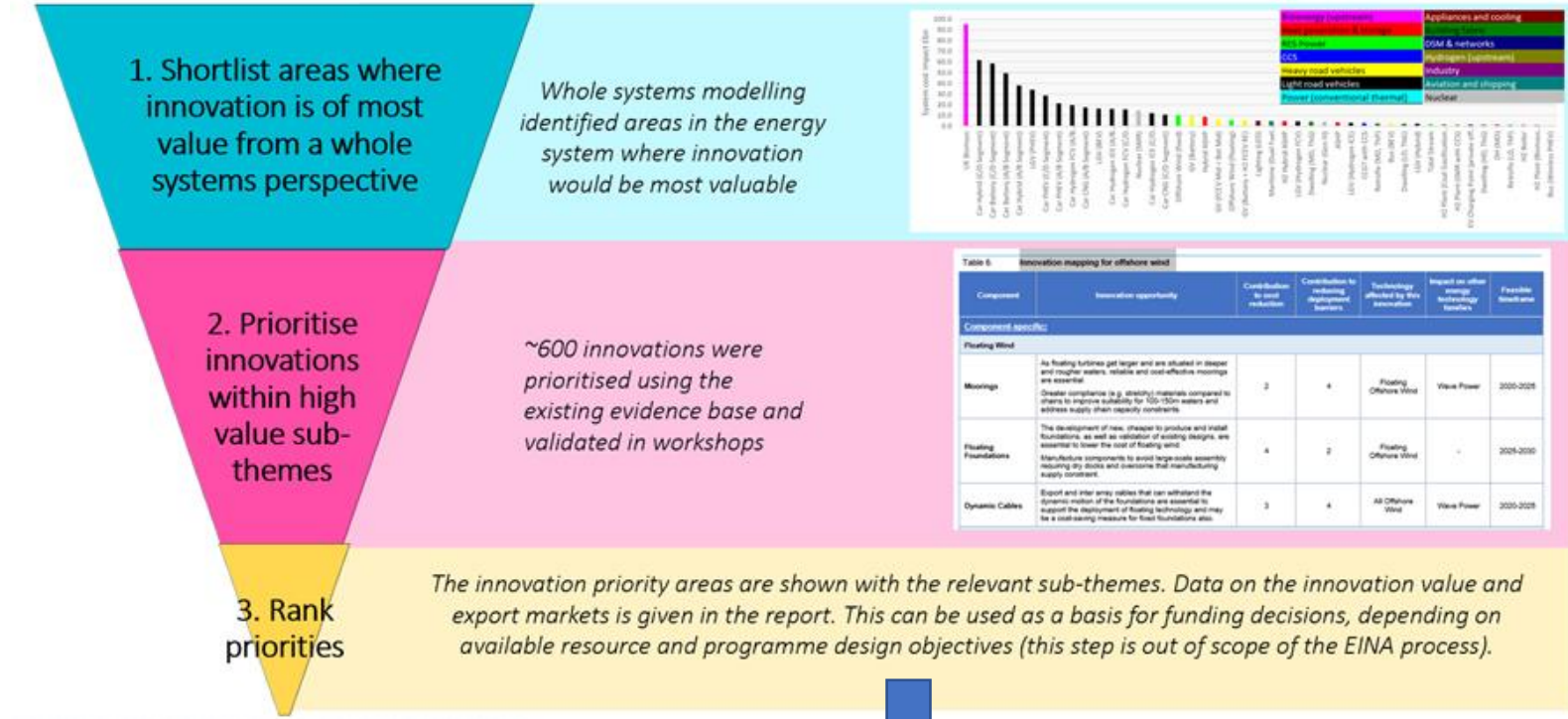


Overview report
 Commissioned by the Department for Business, Energy & Industrial Strategy
 October 2019

Lead:
vivid economics
 putting economics to good use

Partners:
CARBON TRUST **E4tech** **Imperial College London** **FRAZER-NASH CONSULTANTS**

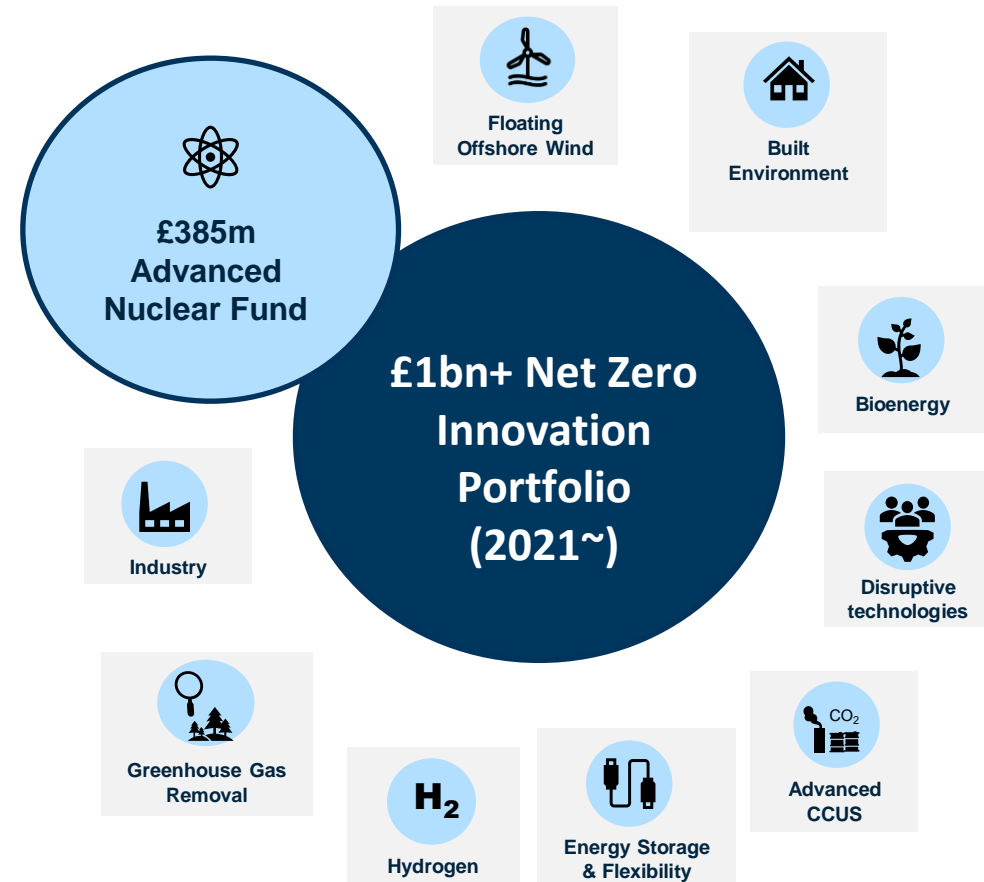
Modelling support by:
CATAPULT



- c18 month process
- Data driven process + c180 experts
- 12 reports + summary report

1. Innovation value for each technology area
2. GVA value for each technology area

£1bn+ BEIS Net Zero Innovation Portfolio (2021-25)



<https://www.gov.uk/government/collections/net-zero-innovation-portfolio>

Next Steps

- To apply for **future funding opportunities**, please visit: <https://www.gov.uk/government/collections/net-zero-innovation-portfolio>
- For any queries, please contact: NZIP@beis.gov.uk
- Continue to work with partners in the UK innovation ecosystem

