

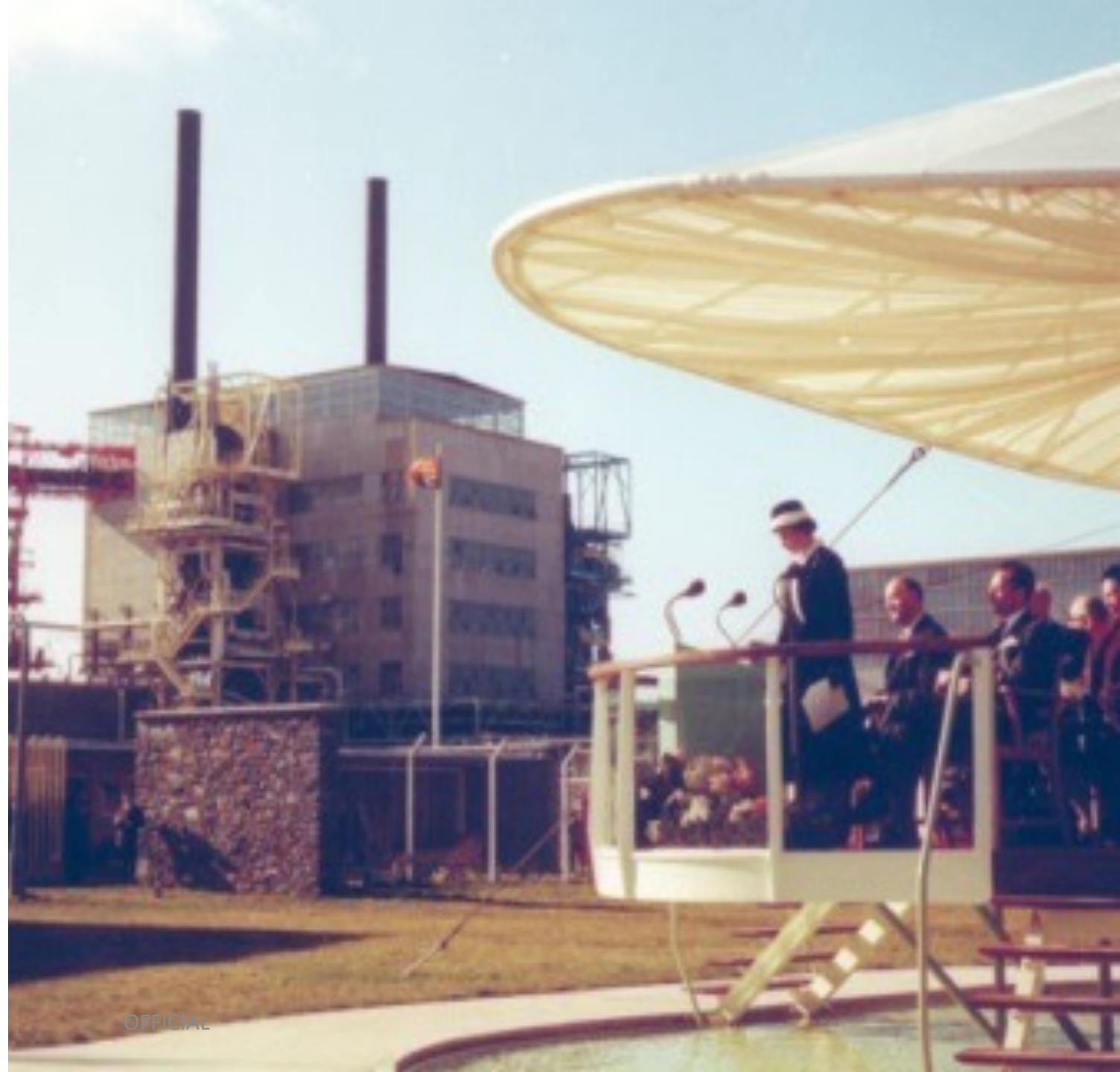
# UK's Civil Nuclear Future

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Alasdair Harper  
Deputy Director of Advanced Nuclear Policy  
and Delivery

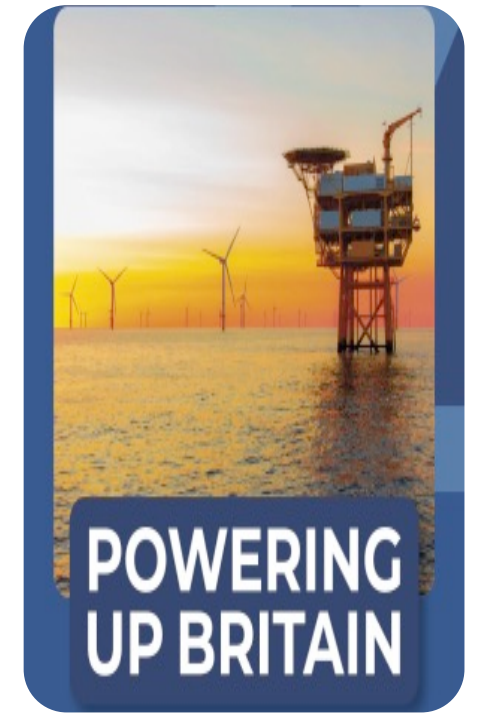
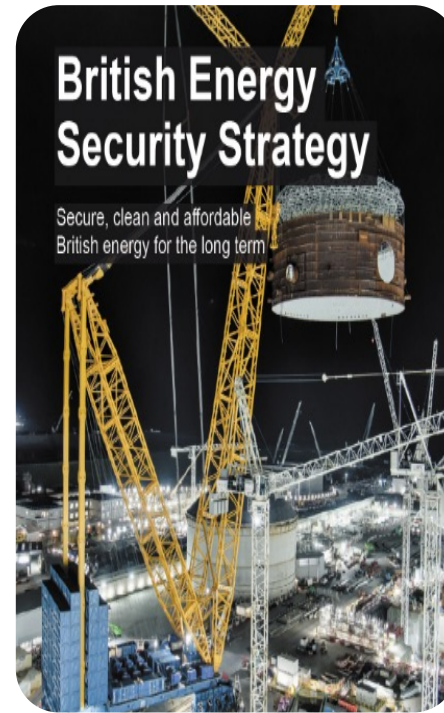
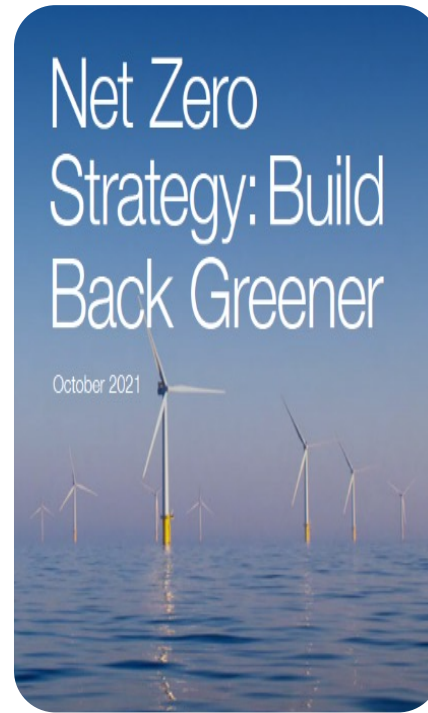
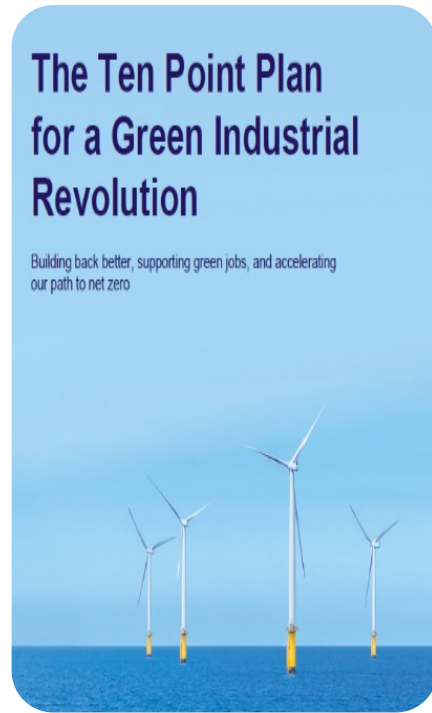
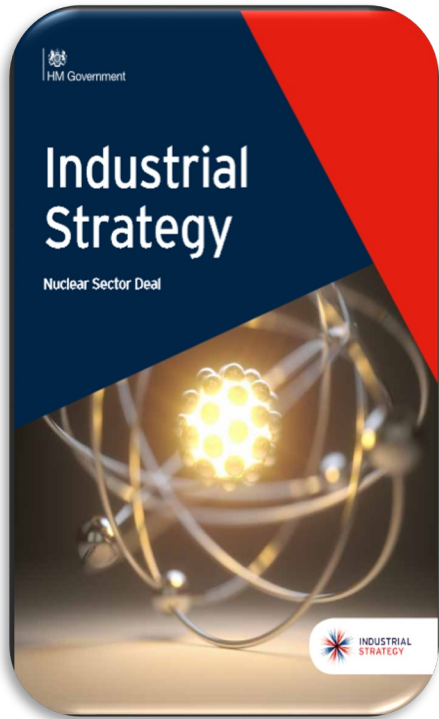


Department for  
Energy Security  
& Net Zero

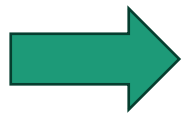


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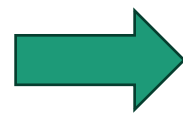
# HMG Civil Nuclear Commitments



2018



2020



2021



2022



2023



# Recent Developments

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- EPR GW reactor being built by EDF at Hinkley Point C.
- Currently negotiating to build another GW reactor plant at Sizewell C.
- Launch of Great British Nuclear and the Technology Selection Process.



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# Advanced Nuclear Innovation

1

**Economically viable nuclear deployment market, once FOAK risk is defrayed.**

2

**Potential to rebuild UK reactor design, development and manufacturing expertise.**

3

**Economic delivery opportunities through the benefit of learning and replication.**

4

**Socio-economic opportunities for the UK's industrial base, supply chains, and advanced manufacturing sectors.**

# New use-cases enabled by AMRs/SMRs

1

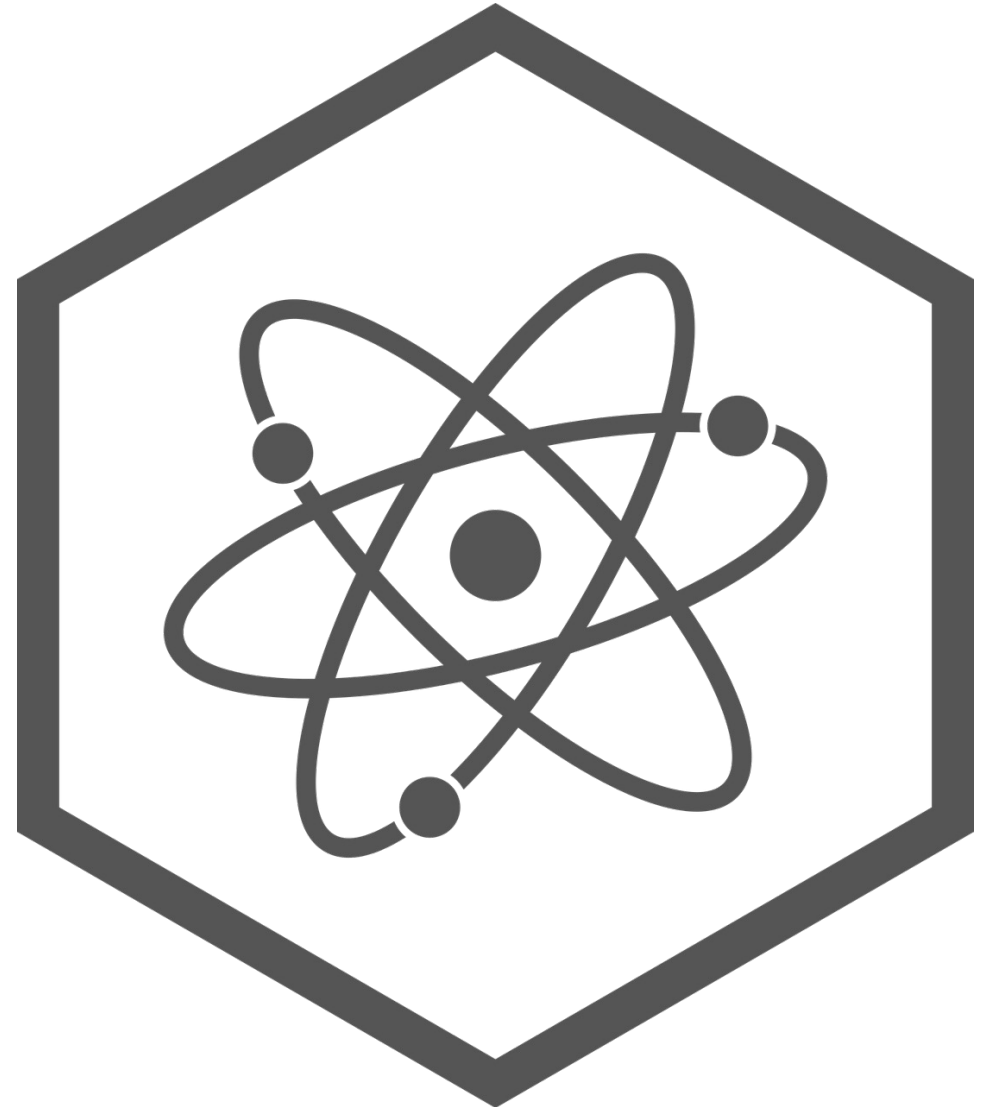
Significant potential to support broader energy system decarbonisation.

2

Optionality and flexibility including off-grid nuclear, maritime propulsion, transportable reactors.

3

Unlocking more efficient production pathways for hydrogen and other chemicals.



# HMG Advanced Nuclear Research & Developmen t Investments

1

## The Advanced Nuclear Fund

Up to **£385m** for a SMR design and to progress plans for an AMR demonstration by the early **2030s** at the latest.

2

## The Future Nuclear Enabling Fund

Up to **£120 million** to help mature potential nuclear projects.

3

## The Nuclear Fuel Fund

To support the fuel needs of new nuclear technologies in the future and strengthen our energy security.

# — What's on the Horizon?

1

**2023: A Nuclear Roadmap**

2

**2023: Alternative Routes to Market  
Consultation**

3

**2023: Consultation on our approach  
to Siting**