IDRIC
The UK Industrial Decarbonisation Research and Innovation Centre

Prof Mercedes Maroto-Valer
IDRIC Director

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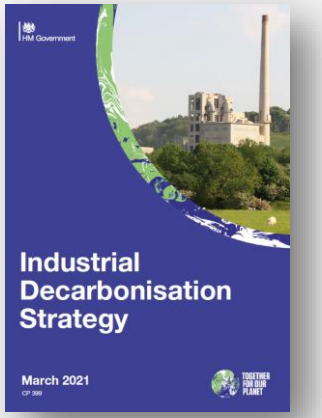
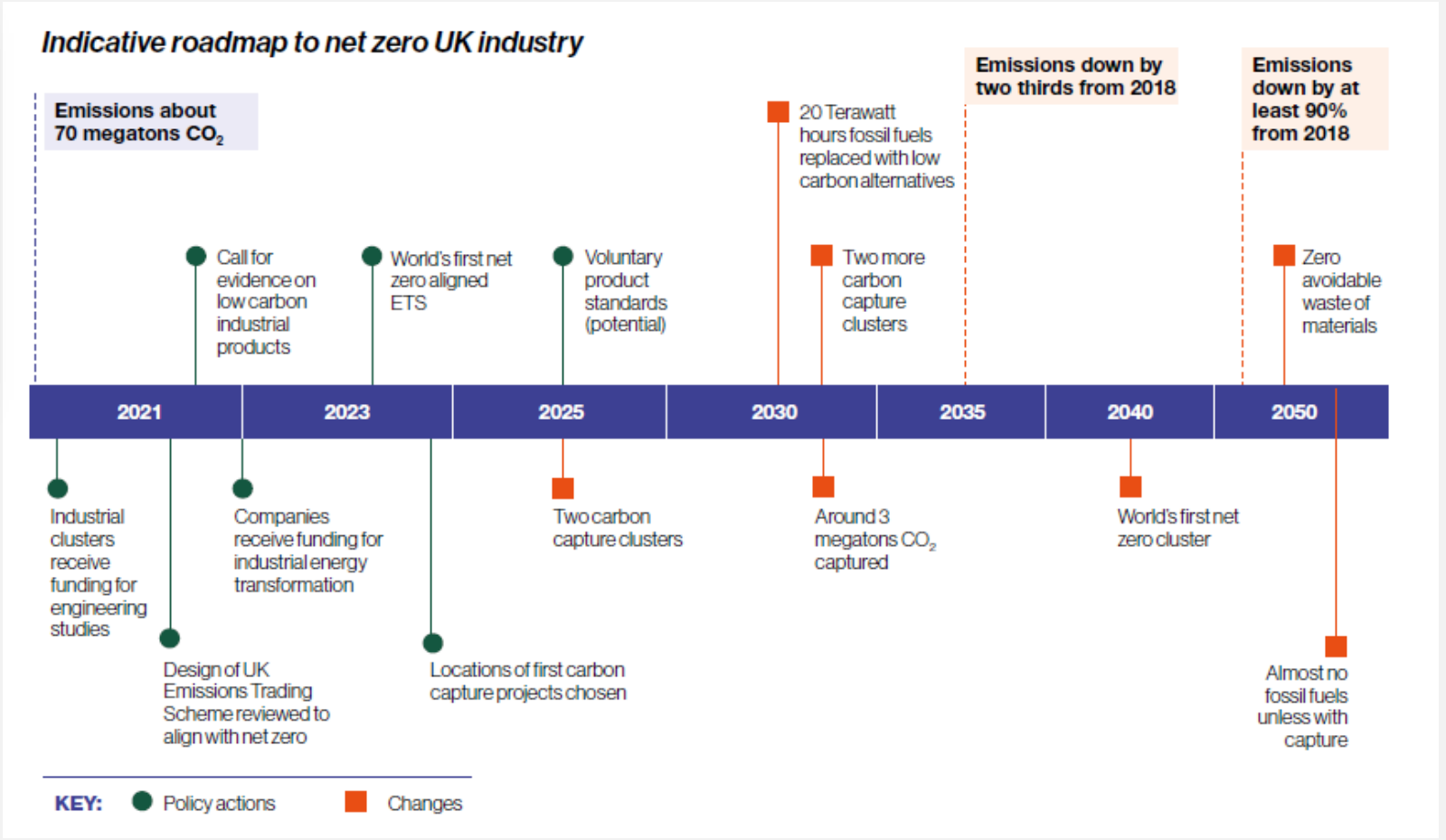
UK Research and Innovation

UK Industrial Decarbonisation Strategy





BEIS, March 2021

" We will also draw on our world-class universities and research institutions, including through our £20 million funding that is being used to establish the Industrial Decarbonisation Research and Innovation Centre"

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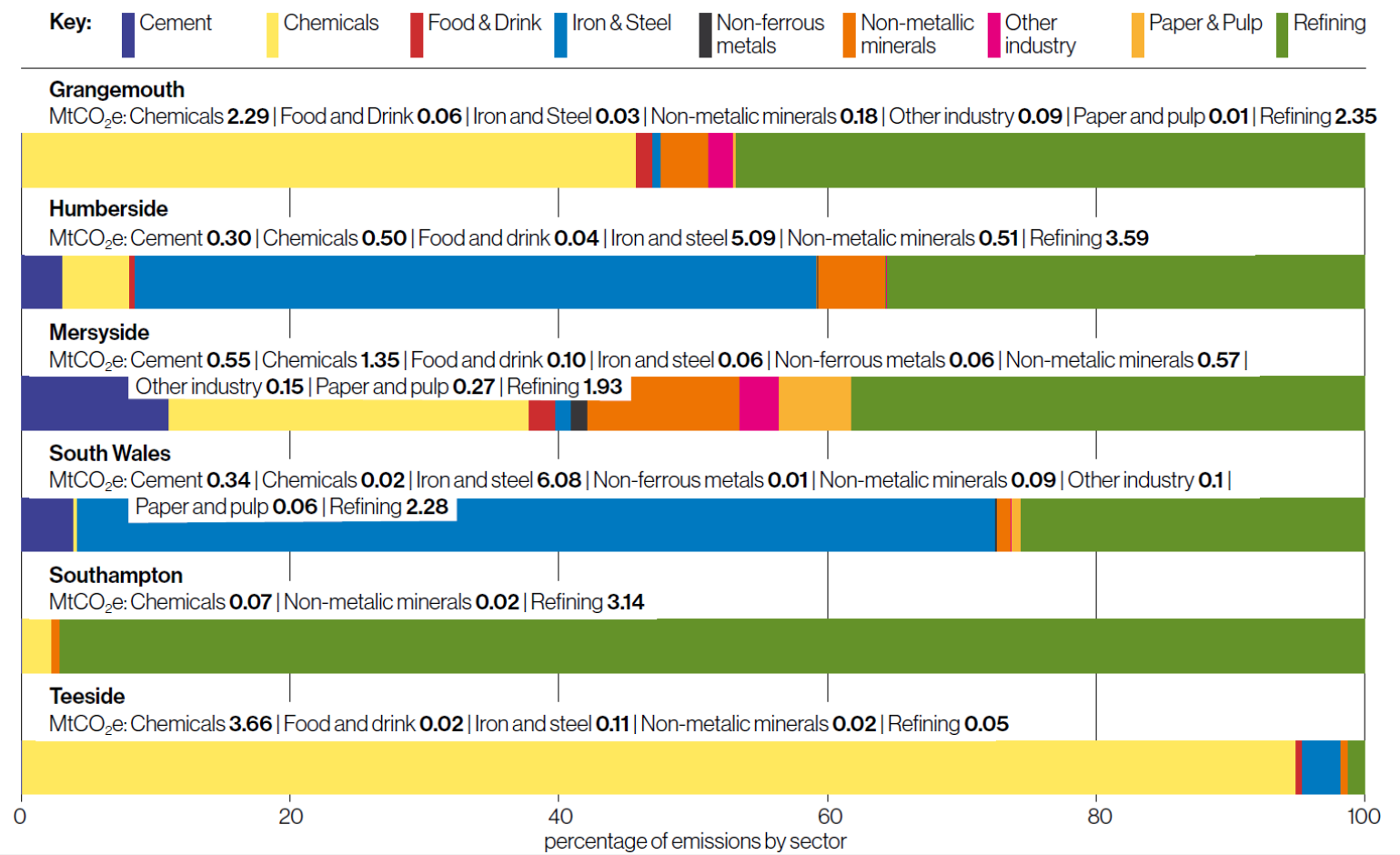
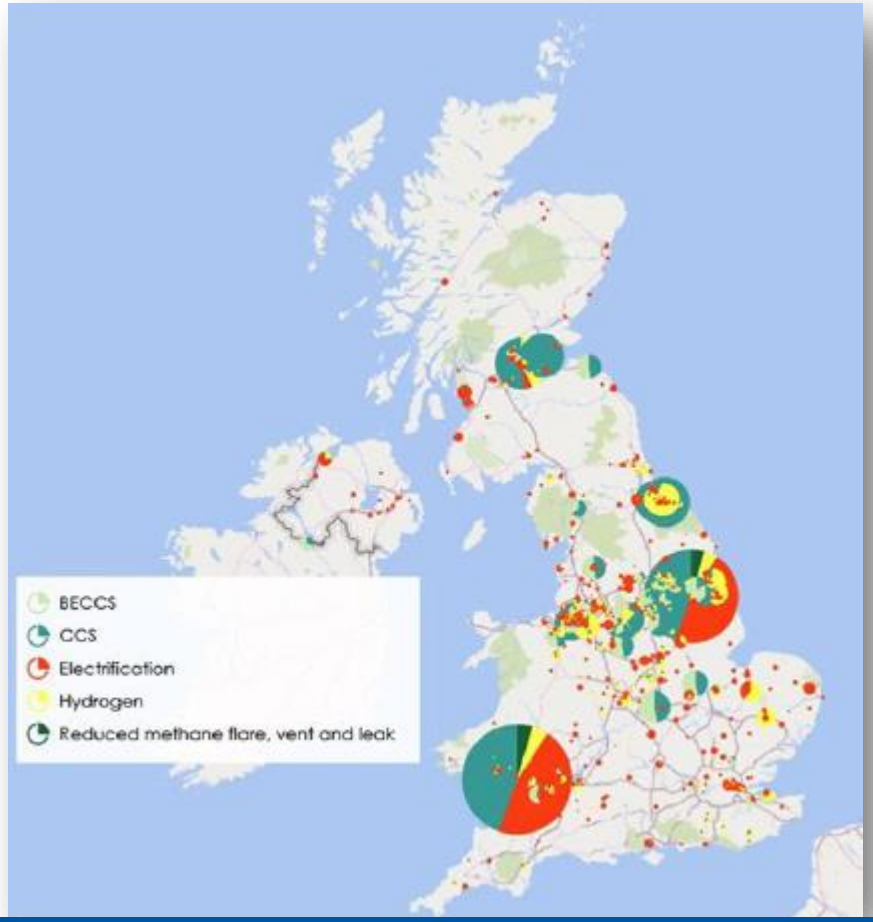
UK Industrial Clusters



UK Industrial Decarbonisation Strategy, BEIS, March 2021



Decarbonisation measures for manufacturing and construction sector (balanced pathway) 6th C budget, CCC, Dec 2020

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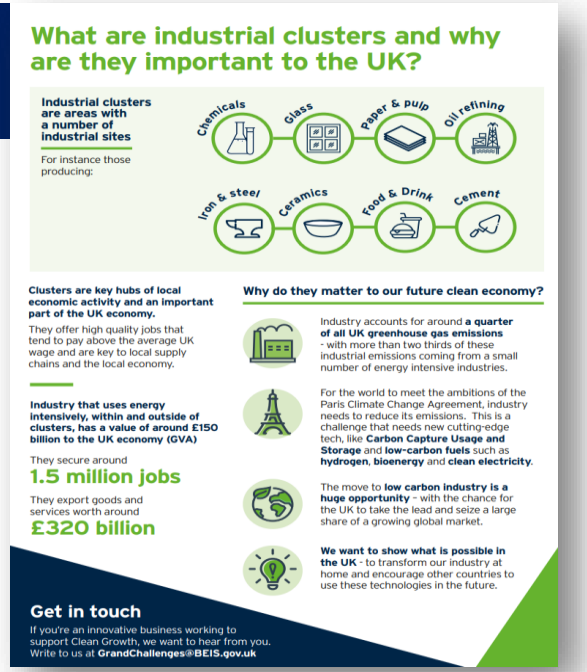
Industrial Decarbonisation Challenge

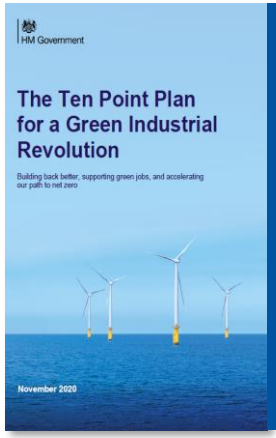
The Industrial Decarbonisation Challenge is funded by £210M from the Industrial Strategy Challenge Fund (ISCF) to be matched up to £261M.

Delivered through three complementary strands:

1. Industrial Demonstrators and Shared Infrastructure (£171M, UKRI-InnovateUK). *Phase 1 completed; Phase 2 in progress.*
2. Cluster Decarbonisation Roadmaps and Feasibility Studies (£8M, UKRI-InnovateUK). *Phase 1 completed; Phase 2 in progress.*
3. ***Industrial Decarbonisation Research and Innovation Centre (£20M, UKRI-EPSRC).*** *Phase 1 completed; Phase 2 in progress.*



https://www.ukri.org/innovation/industrial-strategy-challenge-fund/industrial-decarbonisation/#pagecontentid-1



- World-leading Super Places that unite clean industry with transport and power, where **renewable energy, CCUS and hydrogen congregate** at the forefront of technological development.
- Pioneering **hydrogen heating trials**, starting with a Hydrogen Neighbourhood.
- £1 billion up to 2025 to facilitate the **deployment of CCUS** in two industrial clusters by the mid-2020s, with a further two by 2030.
- £240 million **Net Zero Hydrogen Fund** for low carbon hydrogen production.

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Industrial Decarbonisation Challenge

Cluster Plans
Deployment/Infrastructure
IDRIC- Research and Innovation

Scotland's Net Zero Roadmap
Scotland Net Zero Infrastructure (onshore)
Scotland Net Zero Infrastructure (offshore)

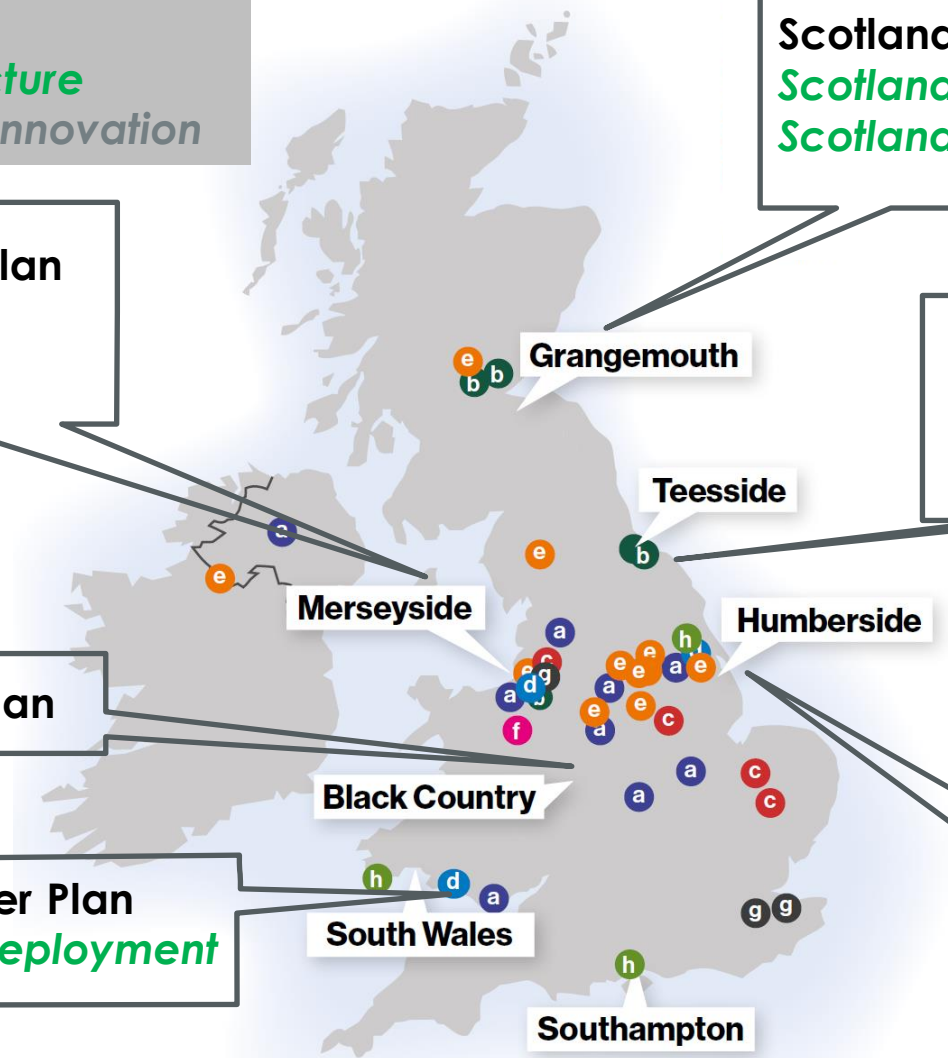
The Net Zero NW Cluster Plan
HyNet (onshore)
HyNet (offshore)

Net Zero Tees Valley Cluster Plan
Net Zero Teesside (onshore)
Northern Endurance Partnership (offshore)

Black Country Cluster Plan

Humber Industrial Cluster Plan
Humber Zero
Zero Carbon Humber Partnership
Northern Endurance Partnership (offshore)

South Wales Industry Cluster Plan
S. Wales Industry Cluster Deployment



For more information www.idric.org

UK Industrial Decarbonisation Strategy, BEIS, March 2021

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IDRIC delivers solutions to accelerate the decarbonisation of the industrial clusters

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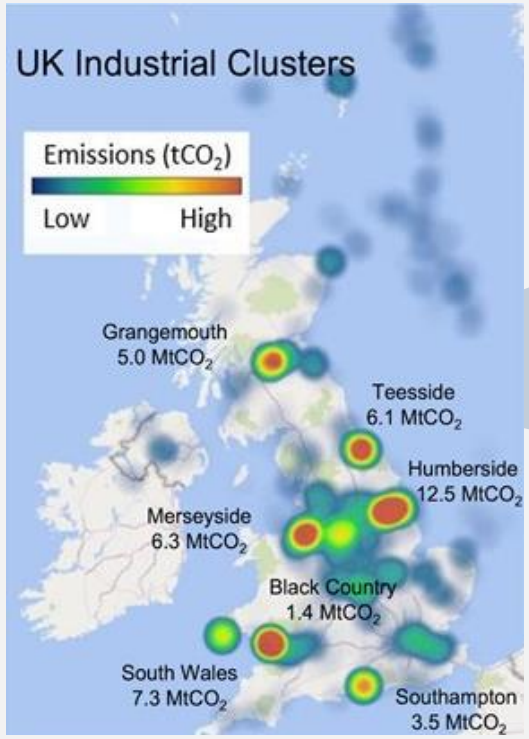
Collaborations at scale and pace



Source: Climate Change Committee & Element Energy Ltd

142 partners

£20m funding

23 Research Organisations

74 Industry Partners

35 Associations, NGOs Trade Organisations

10 Policy Makers Government bodies

Impact Areas

- Reducing Costs
- Reducing Risks
- Reducing Timelines
- Reducing Emissions
- Economic Aspects
- Policy Aspects

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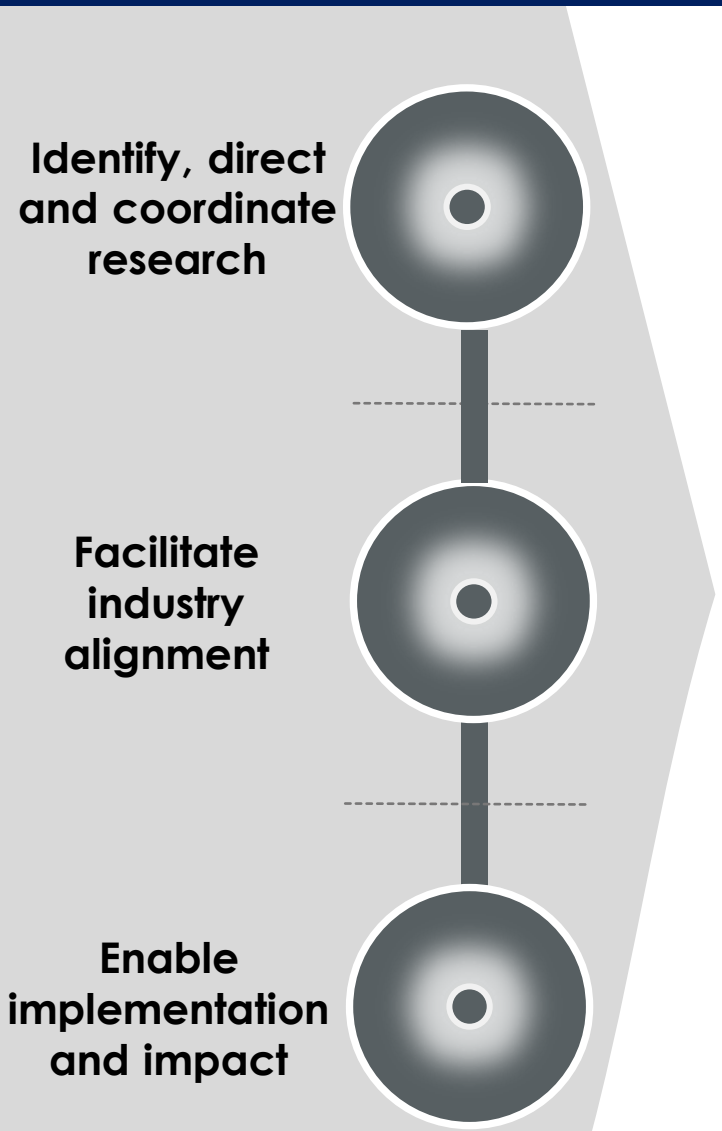
Research and Innovation Programme



Multidisciplinary Integrated Programmes, MIPs

MIP1:	System planning for net-zero industrial clusters
MIP2:	Infrastructure for net-zero industrial clusters
MIP3:	Operating net-zero industrial clusters
MIP4:	Scale up opportunities at cluster and value chain level
MIP5:	Energy vectors for industrial decarbonisation
MIP6:	Accelerating deployment of CCUS for industrial decarbonisation
MIP7:	Large scale deployment of hydrogen systems for industrial decarbonisation
MIP8:	Reducing costs and risks of CDRs and their integration in industrial clusters
MIP9:	Integration: Policy, knowledge exchange and skills

Whole-systems approach integrating engineering, environmental and technical solutions with economic, behavioural and policy interactions.

Wave 1 of projects available at https://idric.org/research-innovation/

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Research and Innovation Programme • Wave 1

50
Research Associates

41
Principal Investigators

43
Research Projects

23
Research Institutions

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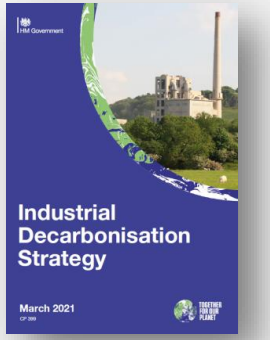
IDRIC – UK Strategy for Net Zero

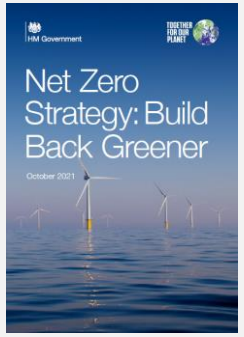


March 2021

"We will also draw on our world-class universities and research institutions, including through our £20 million funding that is being used to establish the Industrial Decarbonisation Research and Innovation Centre"

August 2021

"To accelerate fuel switching to low carbon hydrogen, we will seek to support research and innovation through the existing NetZero Innov. Portfolio and initiatives led by the Industrial Decarbonisation Research & Innovation Centre (IDRIC)"



October 2021

"… initiatives led by the Industrial Decarbonisation Research & Innovation Centre (IDRIC)"

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Contact information

For any questions about IDRIC,

please contact info@idric.org

or visit www.idric.org

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THANK YOU