

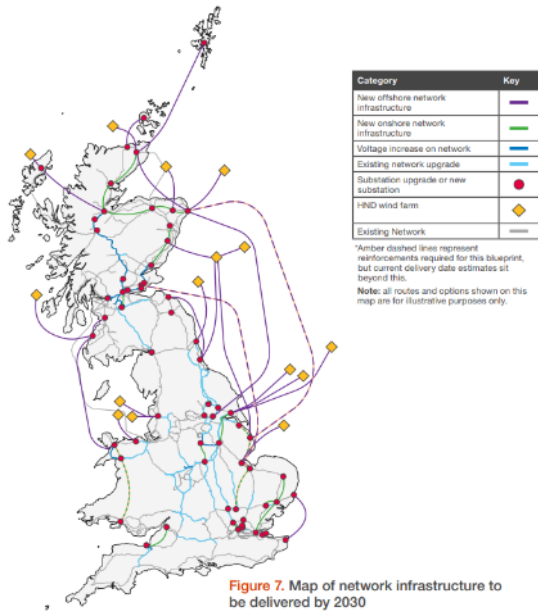
The National HVDC Centre

Summary of Planned Expansion

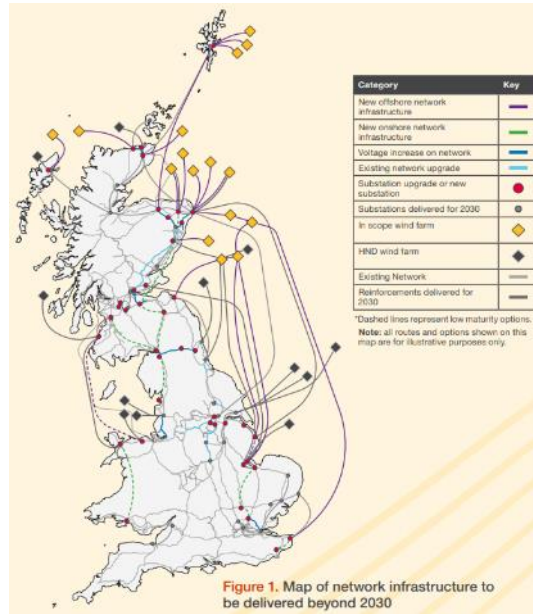
June 2024

HVDC Centre Expansion: The Need

Taken together the ESO's 'Beyond 2030' and 'Pathway to 2030' highlight £80 billion investment in the electricity network; of which 60% is expected to be HVDC technology.

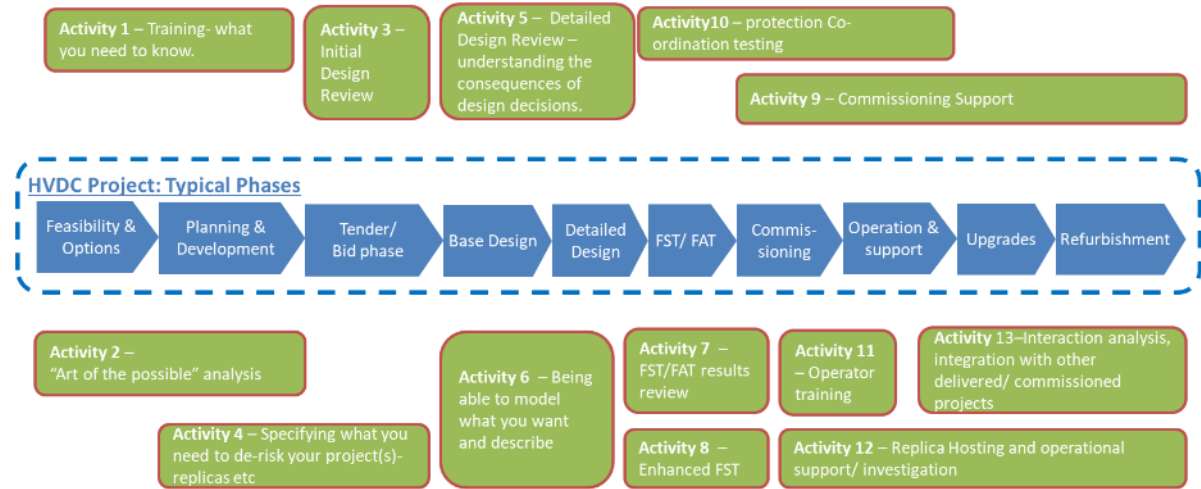


'Pathway to 2030'



'Beyond 2030'

The Centre plans to support all TO and ESO projects, and is planning to provide support to HVDC-connected OWFs and interconnectors as required.



HVDC Centre Expansion: Planned Expansion

To be able to provide this support we are planning in RIIO-T3 (2026-2031) to expand our **People, Building, Simulation Infrastructure, and Replica Hosting Capacity.**

People



20
to
38



Headcount expanding from 20 now, to up to 45 by 2031 (including graduate scheme engineers, and doctoral placements).

Building



1,030
to
3,800



Building extended from 1,030m² to 3,800m² by end of 2027.

Simulation Infrastructure



Tripling
Capacity

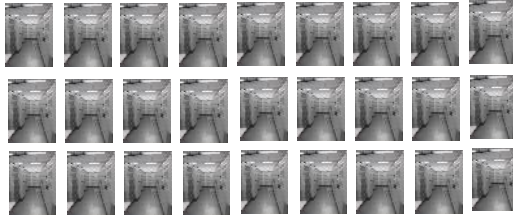


Simulation Infrastructure tripling in 2026-27.

Replica Hosting Capacity



4
to
28



Replica hosting capacity expanding from 4 replica rooms to up to 28 (depending on size of the Replicas) by end of 2027.

HVDC Centre Expansion: Options Considered

Various options were considered:



Option 1: Business As Usual (Do Nothing)



Option 2: Refurbish the existing site



Option 3: Build an extension to the existing site



Option 4: Build a new HVDC Centre in an alternative location



Option 5: Buy/Lease an existing building (& refurbish)

Option 6: Maintain the existing site and create an extension elsewhere (Multi-centre option)



HVDC Centre Expansion: Options Considered

Benefits/Risks	Do nothing	Refurb existing	Extension	New build	Lease / Refurb	Multi-site
Space for simulation infrastructure and replicas	✗	Very limited	✓	✓	✓	✓
Working area for new staff	✗	✗	✓	✓	✓	✓
No staff relocation (retention risk)	✓	✓	✓	✗	✗	Partial
Minimise disruption/delays to Centre operations	✓	✗	✓	✗	✗	✗
Expand dissemination and training spaces	✗	✗	✓	✓	✓	✓
Facilitate collaboration with partners	✗	✗	✓	✓	✓	✓
Technically feasible	✓	✓	✓	✓	✓	✗

HVDC Centre Expansion: Propose Option

We are therefore planning to build a significant extension on the current HVDC Centre site (more than tripling the size of the Centre) by 2027, along with the associated expansion of: People, Simulation Infrastructure and Replica Hosting Capacity.



New Ground Floor



New 1st Floor.



New Elevation



Site Plan

Existing Site Area
Total: 10,000 sqm
Total: 230 Acres

Existing Site Area
Total: 450 sqm
Total: 1.1 Acres

Proposed Site Area
Total: 2,400 sqm
Total: 1.05 Acres

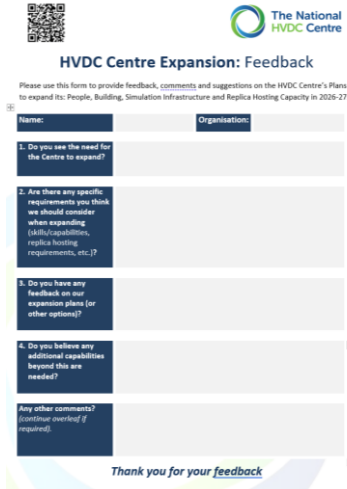
Green boundary line denotes
BMO's current ownership
Murray Road & Site
Customer Service Centre
Murray Road
Murray Road Business Park
Murray Road

It is important that our plans are aligned with our stakeholders. We therefore very much appreciate your feedback and any comments or suggestions you have.

Could you please help by completing a form (paper or online), which asks the following questions.



1. Do you see the need for the Centre to expand?
2. Are there any specific requirements you think we should consider when expanding (skills/capabilities, replica hosting requirements, etc.)?
3. Do you have any feedback on our expansion plans (or other options)?
4. Do you believe any additional capabilities beyond this are needed?



The screenshot shows a feedback form titled "HVDC Centre Expansion: Feedback". It includes a small QR code and the logo of The National HVDC Centre. The form asks for the respondent's name and organisation. It contains four numbered questions corresponding to the list on the left, each with a text input field. The questions are: 1. Do you see the need for the Centre to expand? 2. Are there any specific requirements you think we should consider when expanding (skills/capabilities, replica hosting requirements, etc.)? 3. Do you have any feedback on our expansion plans (or other options)? 4. Do you believe any additional capabilities beyond this are needed? There is also a section for "Any other comments?" with a note to continue overleaf if required. The form ends with a "Thank you for your feedback" message.

Please include your name and organisation, so we can follow up if required.

Thank you

For further information, please visit www.hvdccentre.com or email: info@hvdccentre.com



**The National
HVDC Centre**

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