

Celtic Interconnector

November 2020



Rialtas
na hÉireann
Government
of Ireland

Tionscadal Éireann
Project Ireland
2040




Delivering a cleaner energy future



Co-financed by the European Union
Connecting Europe Facility

Thank You

- EirGrid would like to thank all stakeholders who participated in the consultation and engagement process for the Celtic Interconnector.
- The project was first identified in 2009 as a way to connect the Irish electricity grid to Europe.
- At the close of Step 4 in our 6 step process , please review our update and contact us with your questions and observations.

A man with a shaved head, wearing a light blue striped shirt and a patterned tie, stands with his arms crossed in front of a server room. The background is filled with rows of server racks, some of which are illuminated with green and blue lights, creating a digital atmosphere.

EirGrid operates and develops the electricity grid in Ireland. This includes interconnection with neighboring grids and the wholesale electricity market. We send power from where it is generated to where it is needed, at the most economic price possible.

- 
- As we look to the future, we are making the grid ready to carry **70%** of Ireland's electricity from renewable sources by **2030**.
 - At present only **36%** of your power comes from clean generation.
 - One of the ways we can increase this is by interconnection with our European neighbours.

**What benefits will the
project bring?**



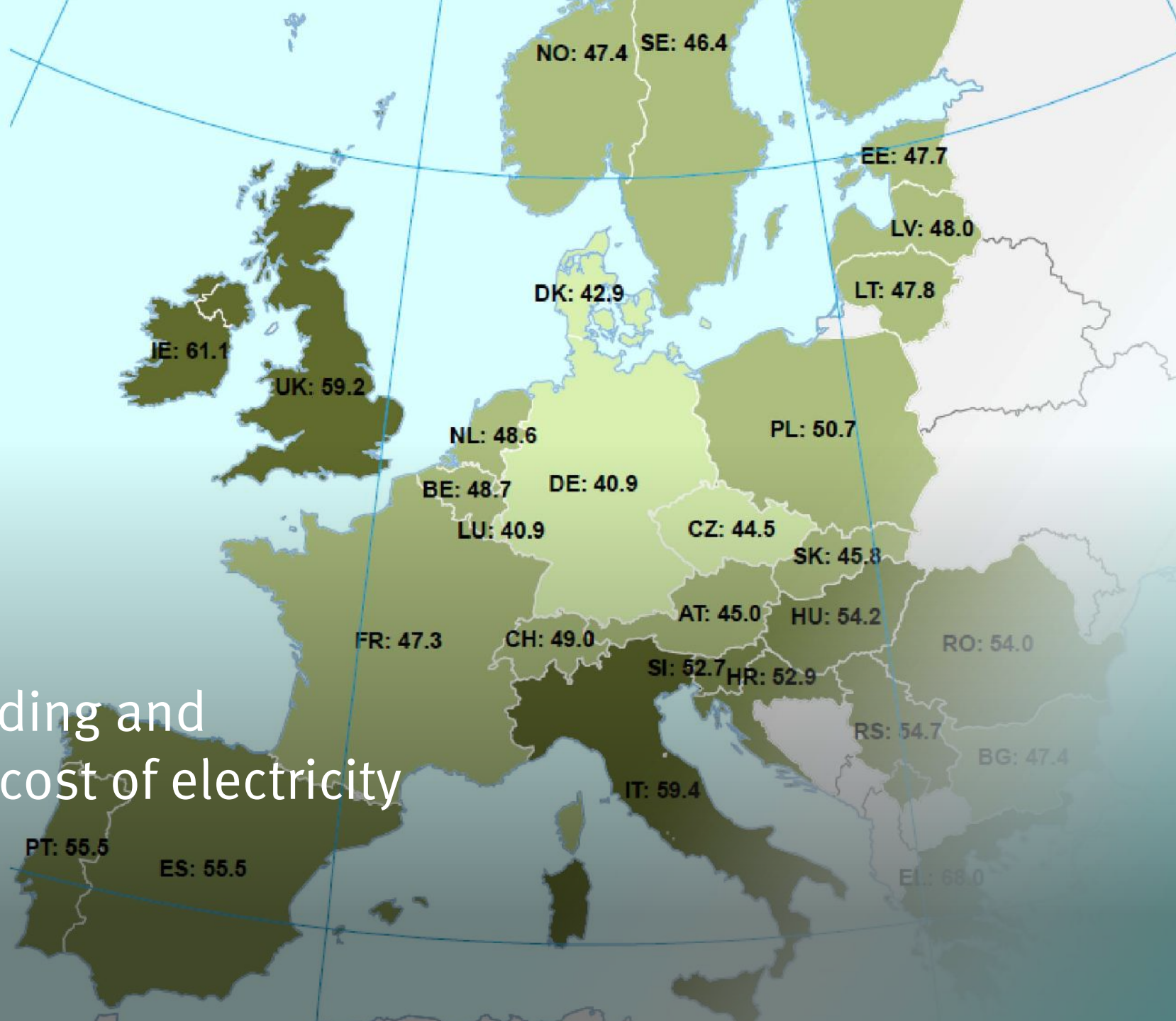
#EnergyUnion

Interconnection is one of the many types of project being supported by the EU to ensure security of supply or to support large scale deployment of energy from renewable sources across Europe. For Ireland, an island on the outskirts of Europe with a high potential for renewable generation it is important to be connected to our European neighbours.



Security of Supply

Additional supply of power
and increased diversification



Competition

Increased electricity trading and
downward pressure on cost of electricity

Wholesale baseload electricity prices

€/MWh Jan-Mar 2019

From the European Commission Quarterly Report on
European Electricity Markets Vol 12, Issue 1.

The background of the entire image is a photograph of an offshore wind farm. Several white wind turbines with three blades each are visible, standing on yellow foundations in a dark blue sea under a clear, deep blue sky. One turbine is prominently featured in the foreground on the left, while others are scattered across the horizon.

Sustainable Energy

Facilitates transition to
low carbon future.

Fibre Optics

Fibre optics laid alongside the Celtic Interconnector will add a direct telecommunications link between Ireland and continental Europe.

EirGrid

Fund

Community

Community Fund

An enhanced community benefit scheme will be established for the Celtic Interconnector project and we will work with the affected communities on this.



What is the Celtic Interconnector?



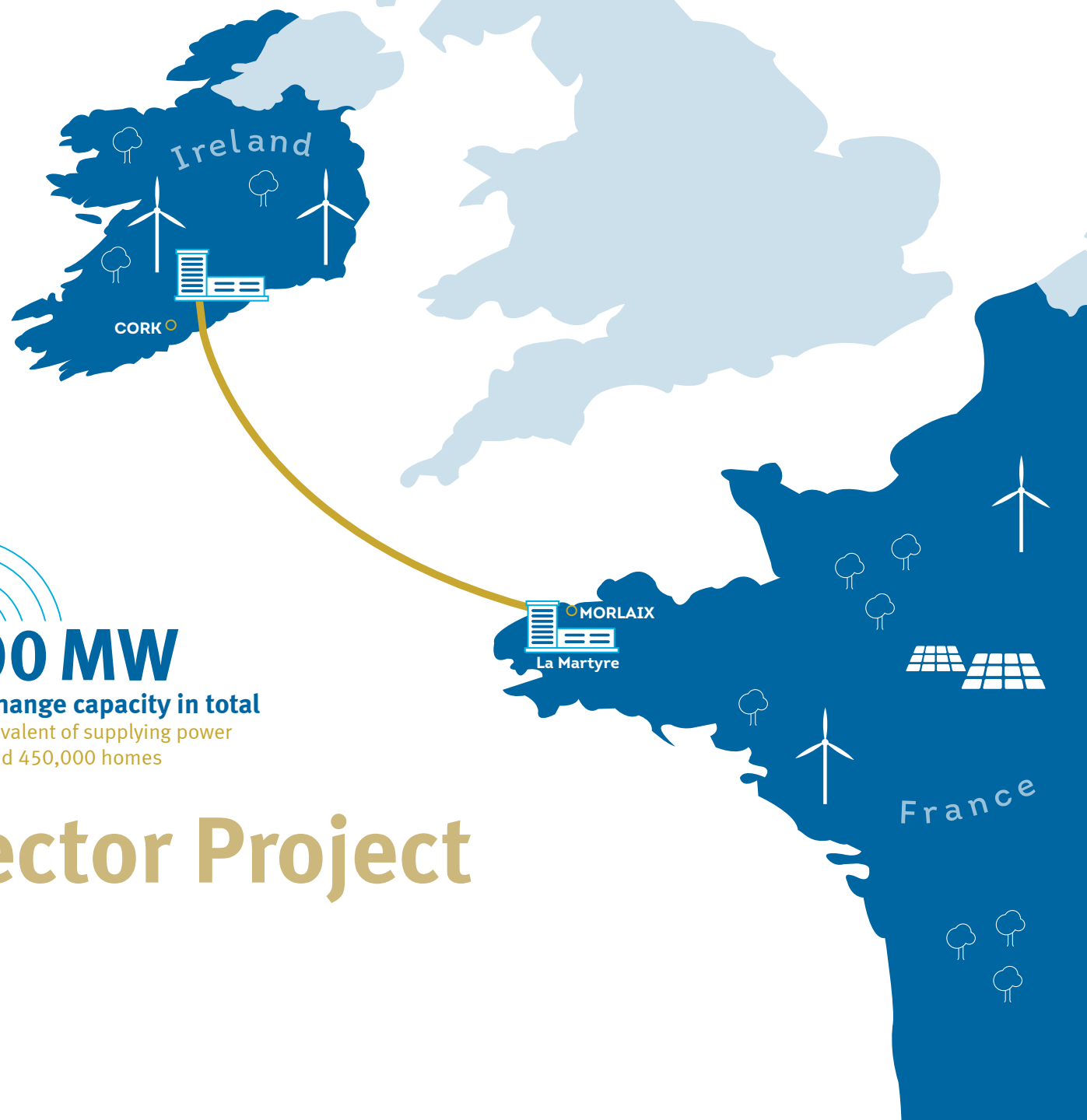
2 project promoters
EirGrid and Réseau de Transport d'Électricité

575 km
total length
500 km subsea

700 MW
of exchange capacity in total
the equivalent of supplying power to around 450,000 homes

The Celtic Interconnector Project

Connecting the Electricity Grids
of Ireland and France





Our approach
to projects

Our Framework for Grid Development

Step 1

How do we identify the future needs of the electricity grid?

Step 2

What technologies can meet these needs?

Step 3

What's the best option and what area may be affected?

Step 4

Where exactly should we build?

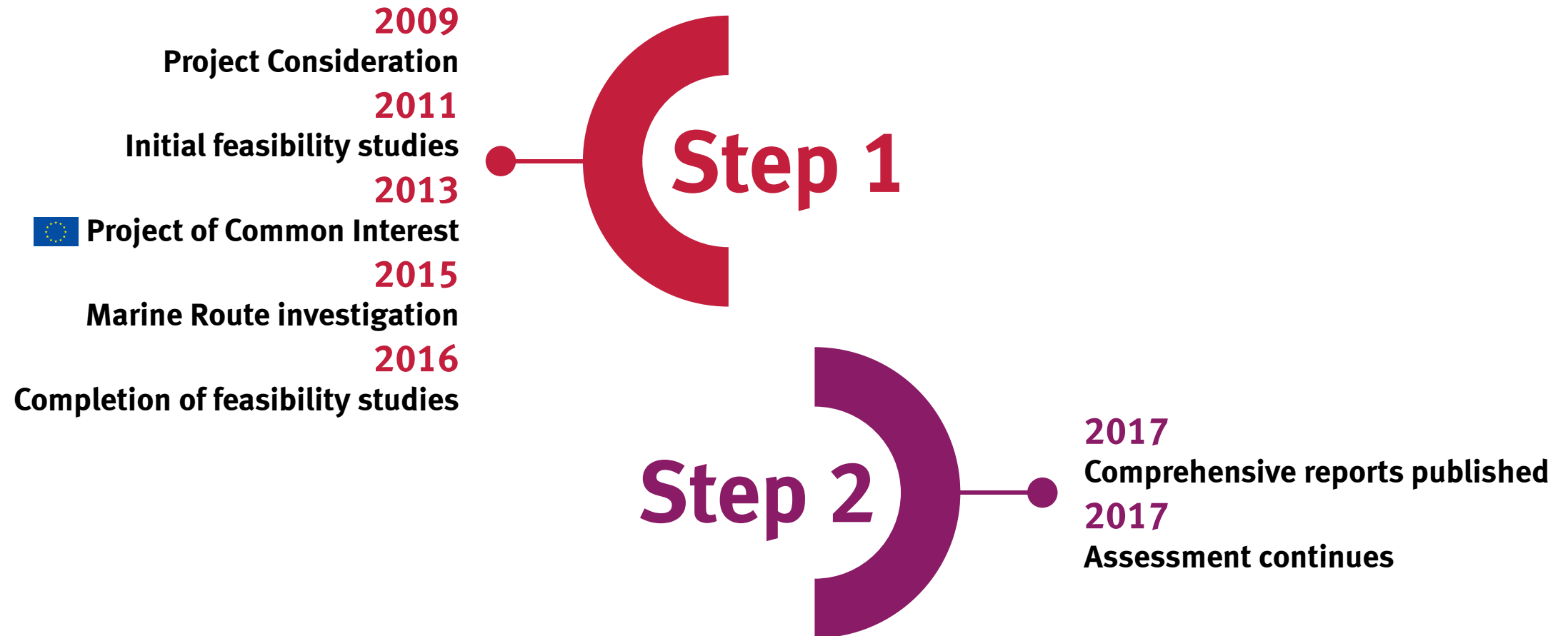
Step 5

The planning process

Step 6

Construction, energisation and benefit sharing

How the project has progressed



Step 3 & Step 4

Step 3

2018

Pre-consultation information
and engagement

2018

14 converter station zones
& 5 landfalls

2018

Feedback received

2018

Step 3 Consultation

2018

Feedback received

2018

6 converter station zones
and 3 landfalls

2019

 Connecting Europe Facility
Grant of €530 million

Step 4

2019

Feedback received

2019

3 converter station sites
and 1 landfall

2019

Information & engagement campaign

2019

Step 4 Consultation

2020

Consultation report &
project update

2020

Information & engagement campaign

2020

Assessment continues

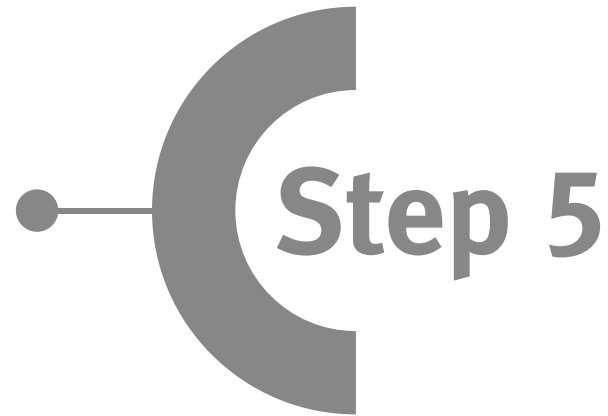
Next Steps

2021
Preparation of planning
consents application

2021
Submission of planning
consents application

2022
Planning decision

2022
Final investment decision



- **2020 Announcement of best performing project options**
- **Grid connection point / 1 converter station site / 1 landfall location and cable routes**



2022
Construction commences

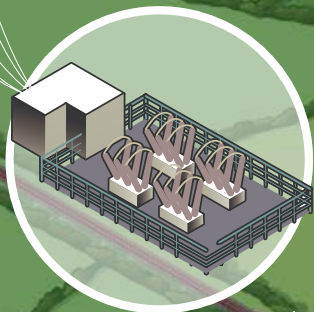
2026
Energisation

Celtic Interconnector Project Details

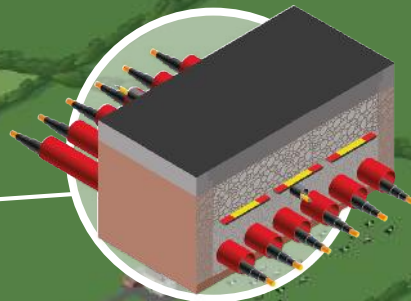
Step 4 outcome

- The project team received a wide range of feedback from community stakeholders and we have used this feedback to inform and influence our decisions. We are now in a position to confirm that:
 - The landfall location will be at Claycastle Beach, Youghal;
 - The converter station will be located at the IDA Ballyadam Industrial Site, Carrigtwohill; and
 - The main underground cable corridor will run along the N25 and local road network with the routes to be confirmed in relation to Killeagh and Castlemartyr, and from Ballyadam to the Knockraha substation.

Connection to the grid



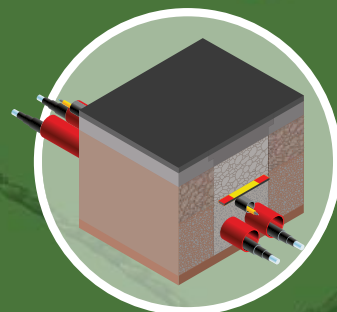
Alternating Current
Underground Cable



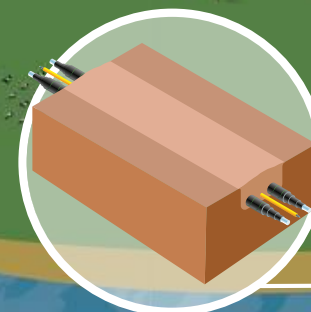
Converter Station



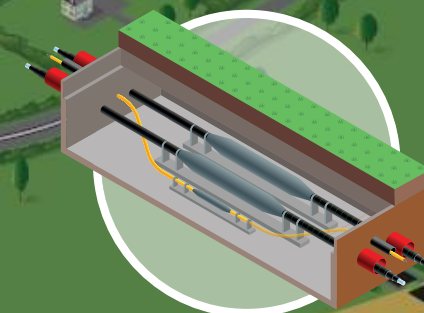
Direct Current
Underground Cable



Subsea Cable



Landfall Point



Indicative Layout Only

Knockraha substation

Alternating Current
Underground Cable

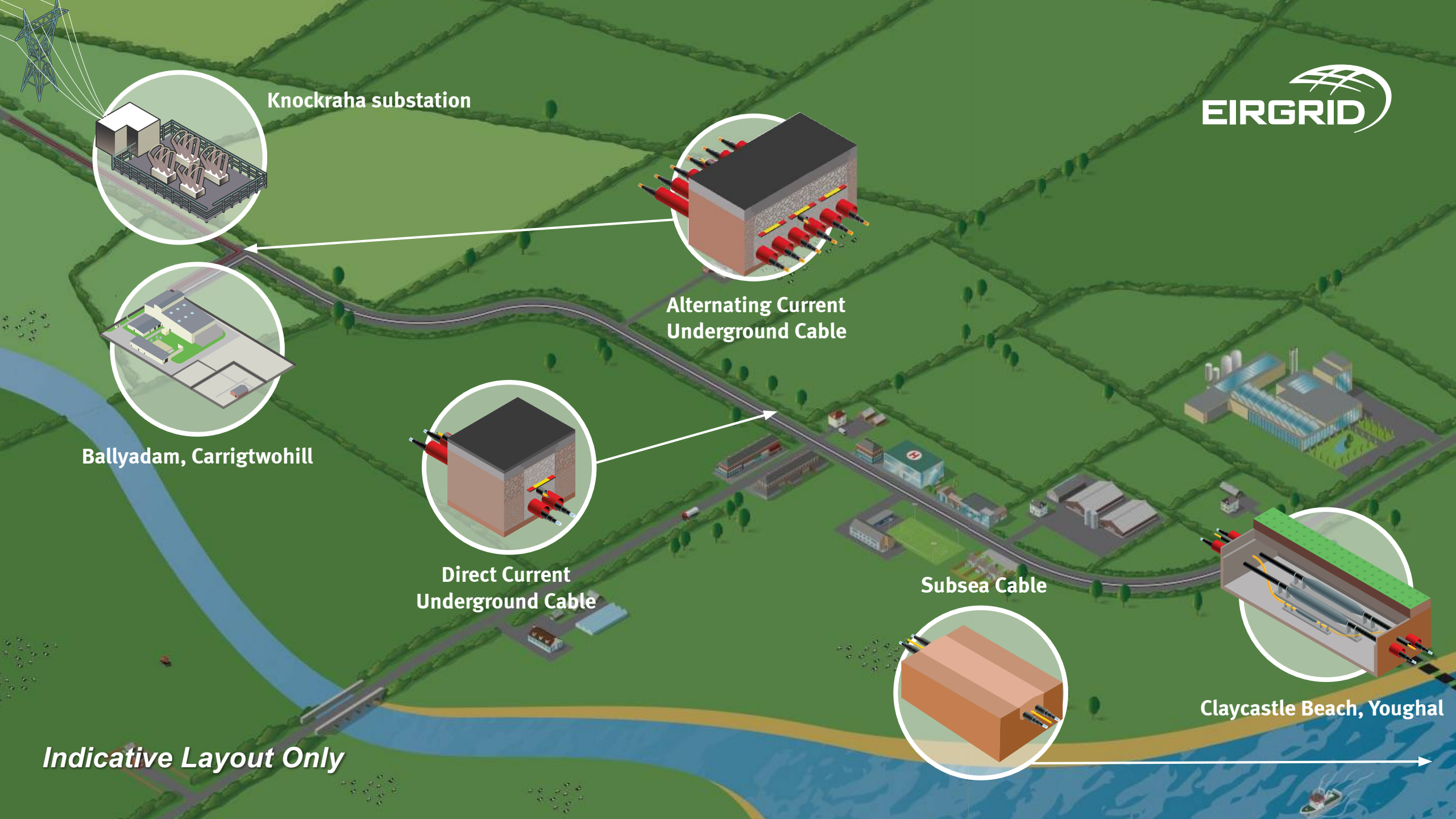
Ballyadam, Carrigtwohill

Direct Current
Underground Cable

Subsea Cable

Claycastle Beach, Youghal

Indicative Layout Only



How to learn more about the project

- Read the Step 4b report available at eirgrid.ie/CelticInterconnector
- Register for our webinars
- Keep up to date at bit.ly/Celtic-Interconnector
- Register for updates at celticinterconnector@eirgrid.com
- Speak to our Community Liaison Officers:

Michelle Walsh 085 870 4999

Eoghan O'Sullivan 087 247 7732



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