

Celtic Interconnector

April Webinar • Wednesday 7 and Thursday 8 April 2021



Tionscadal Éireann
Project Ireland
2040



Co-financed by the European Union
Connecting Europe Facility

How this webinar will work

- For everyone's benefit, your cameras and microphones are disabled
- We aim to cater for all levels of understanding of the Celtic Interconnector project – so please be patient
- Agenda - Project Team Presentation followed by Q&A
- Use the Q&A box to submit any questions during the presentation
- You can also text your question to 085 870 4999
- The webinar is being recorded
- After the webinar you can contact the project team by email at **celticinterconnector@eirgrid.com**



Who are EirGrid?

- EirGrid operate and develop the electricity grid in Ireland.
- We send power safely from where it is generated to where it is needed, at the most economic price possible.
- As part of our role we are mandated to explore and develop opportunities for interconnection with grids in other countries.
- As we look to the future, we are making the grid ready to carry 70% of Ireland's electricity from renewable sources by 2030.

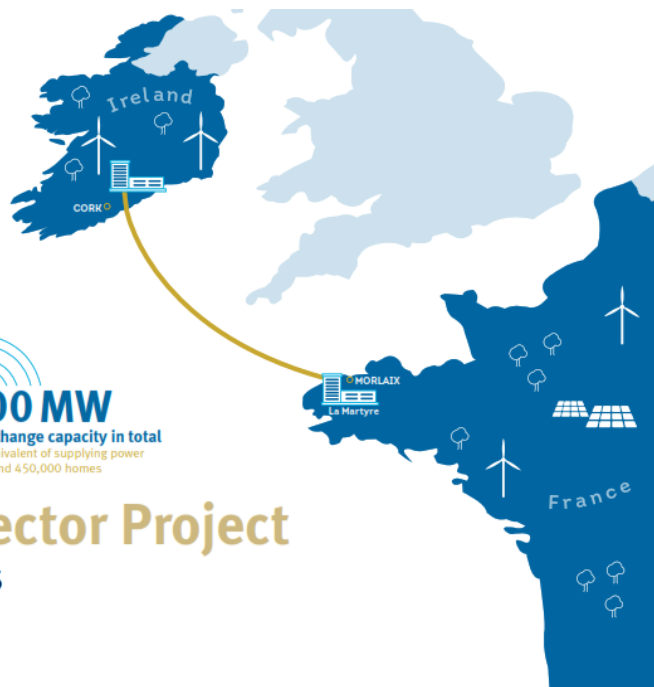


The Celtic Interconnector Project



575 km
total length
500 km subsea

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



Project Timeline

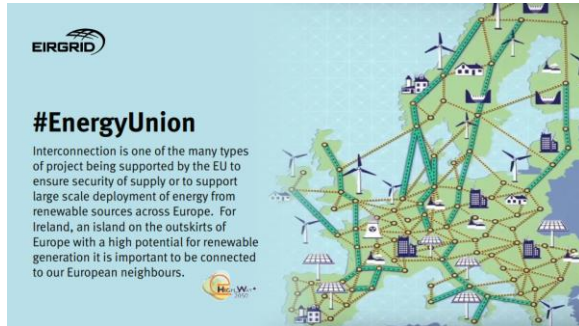
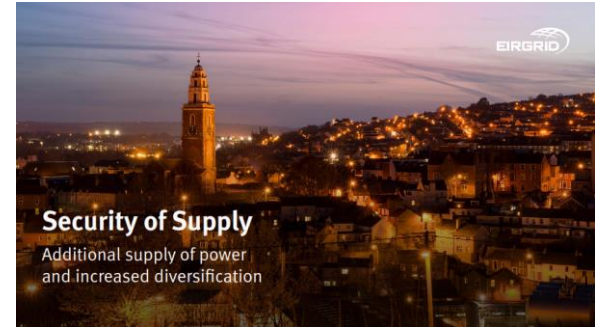
2014/ 2016	Feasibility Phase
2017/ 2018	Initial Design & Pre-Consultation Phase
2019/ 2021	Detailed Design and Consents Phase
2022/ 2026	Construction Phase

The Celtic Interconnector Project

Connecting the Electricity Grids
of Ireland and France



Project Benefits



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.

Knockraha substation

Alternating Current
Underground Cable

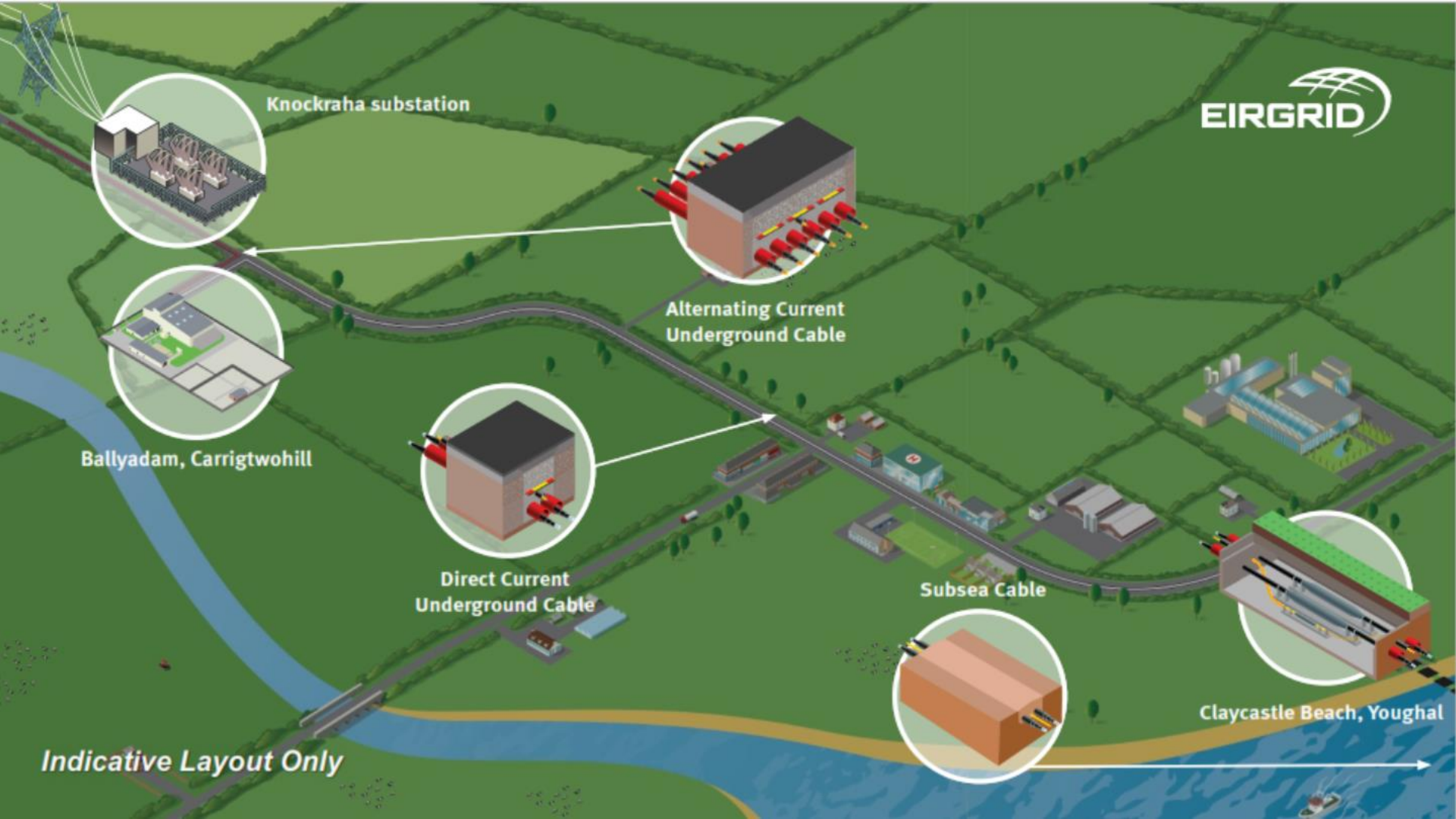
Direct Current
Underground Cable

Subsea Cable

Claycastle Beach, Youghal

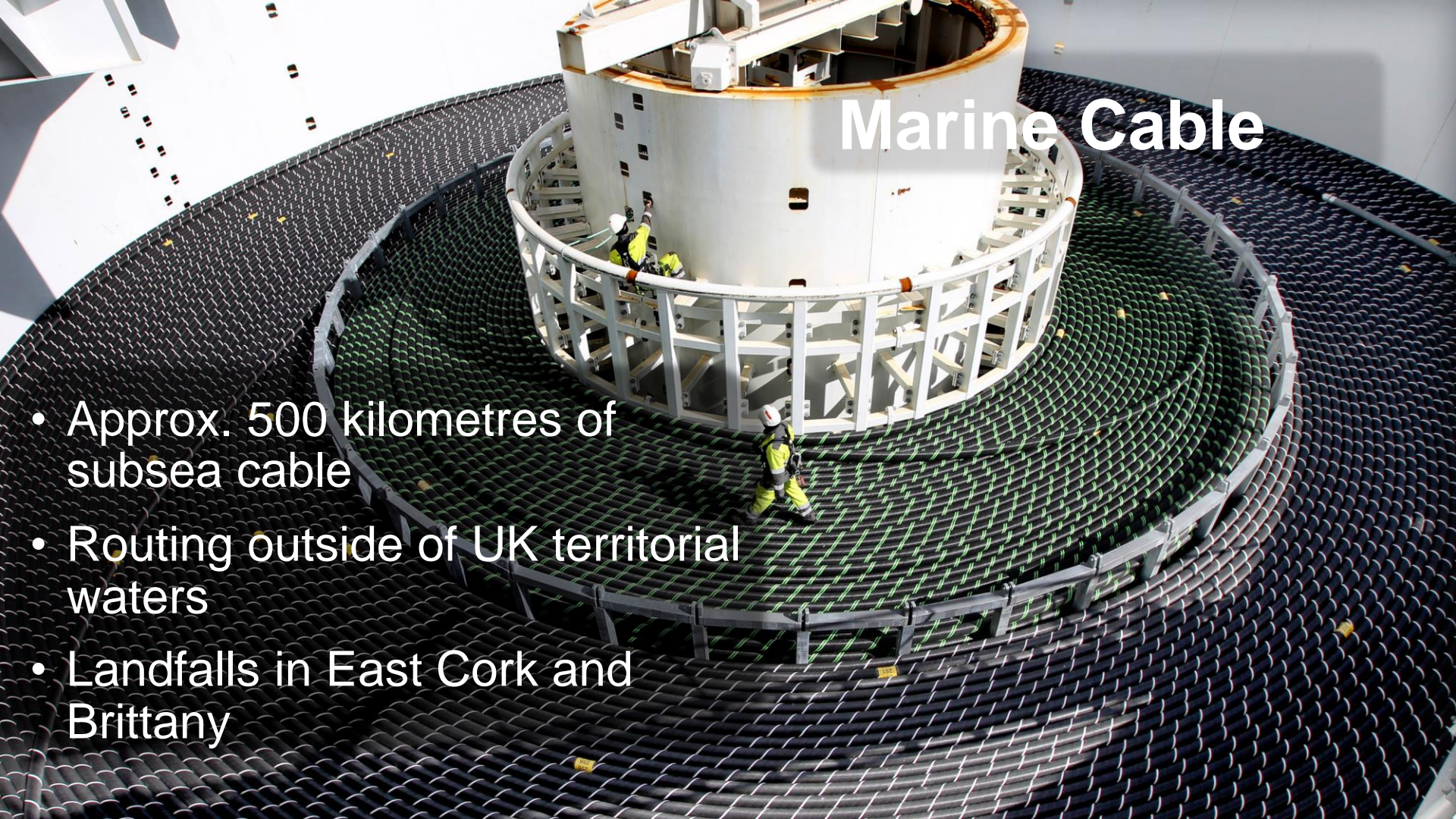
Ballyadam, Carrigtwohill

Indicative Layout Only



Marine Cable

- Approx. 500 kilometres of subsea cable
- Routing outside of UK territorial waters
- Landfalls in East Cork and Brittany



Landfall

- **Landfall at Claycastle Beach, Youghal.**
- The landfall point will be fully re-instated when work is complete.
- Subsea cable connection to underground cable will be buried behind the beach.

Rush North beach in Co. Dublin,
landfall point for the East West Interconnector



Converter Station

- Site at Ballyadam near Carrigtwohill
- Converts AC to DC electricity and vice versa.
- Approximately 10 acre site
- Can reach up to 25 meters at the highest point

Grid Connection Point

- Knockraha 220 kV substation.
- 400 kV connection to be transformed down to 220 kV at this point.
- Detailed design work is continuing



Underground Cabling

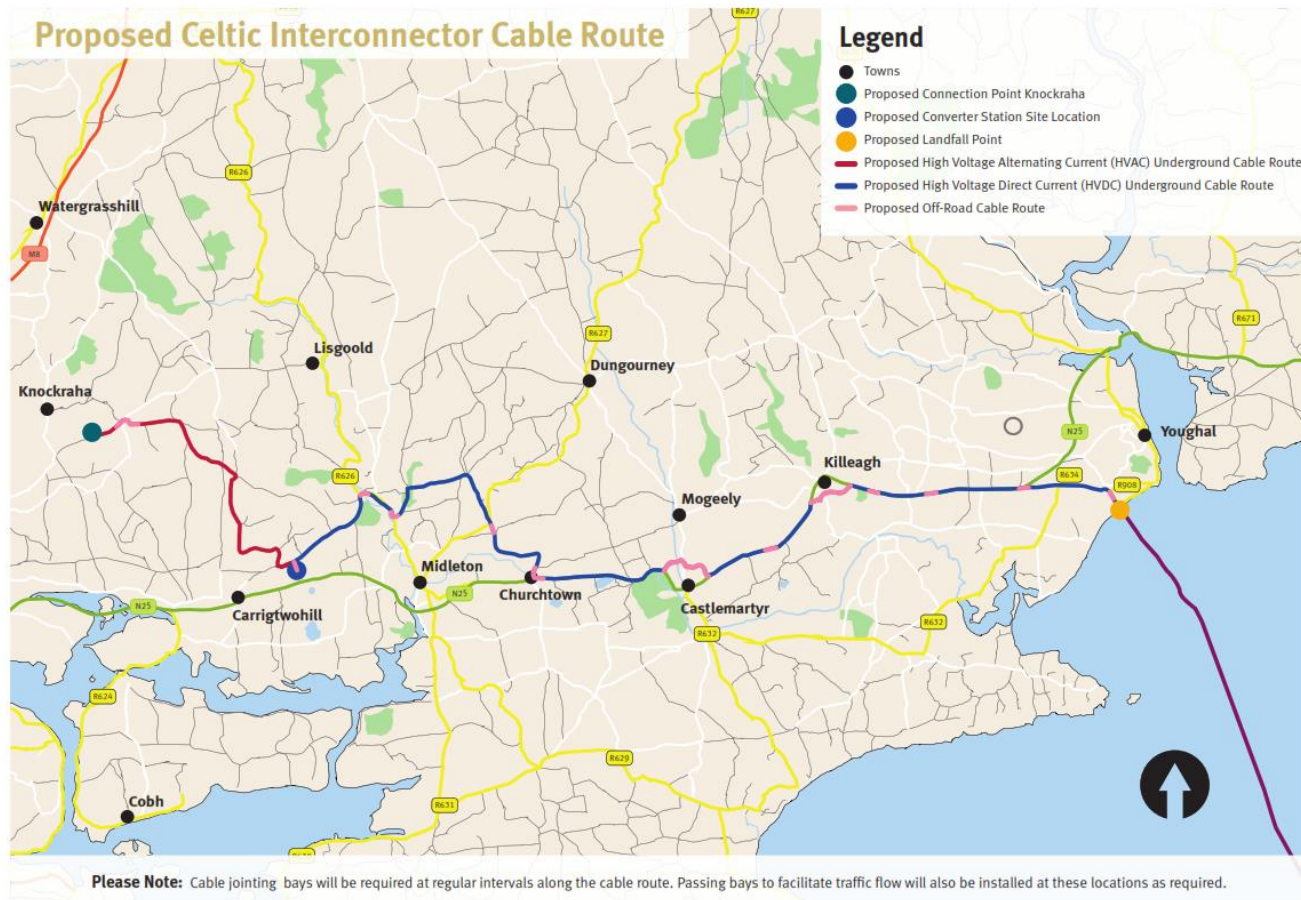


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AC & DC Cable Routes



Trenching & Ducting



Joint Box Installation in the Road



Passing Bay Installation



Cables being pulled into the ducts / Joint Bay



Passing Bay In Operation during Cable Jointing



Off-Road Cable Installation



Electromagnetic Fields



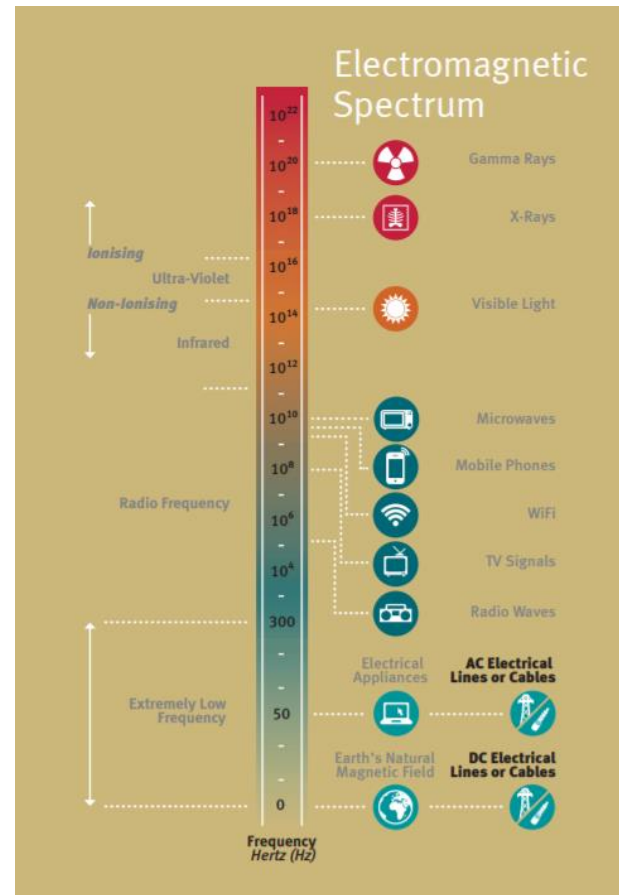
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What are Electromagnetic Fields or EMFs?

- When electric current flows, both electric and magnetic fields are produced.
- They occur in the home, in the workplace, or anywhere we use electricity
- The EMFs from electricity are in the extremely low frequency end of the electromagnetic spectrum.

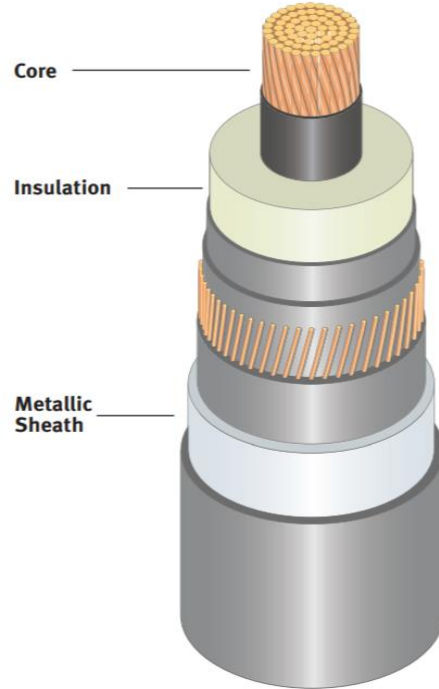


EMF in Irish Context

In Ireland the following bodies are responsible for policy and provision of guidance relating to EMF;

- **The Department of Communications, Climate Action and Environment (DCCAE)** is responsible for national policy regarding electromagnetic fields.
- **The Environmental Protection Agency (EPA)** is responsible for the provision of advice and guidance in relation to public exposure to electromagnetic fields.
- **The Health & Safety Authority (HSA)** regulates exposure to electromagnetic fields in the workplace.
- The Celtic Interconnector will be designed and built in compliance with the International Commission for Non-Ionizing Radiation Protection (**ICNIRP**)
- **ICNIRP** is an independent body funded by public health authorities around the world.

Typical Underground Cable



Celtic Interconnector Community Forum

- Collaboration and engagement with communities and stakeholders is critical to project delivery at EirGrid.
- The **Celtic Interconnector Community Forum** will bring together people and organisations from across the project area so that stakeholder and community views can be discussed, understood and properly considered prior to and during project delivery.
- First information webinar **Wednesday 21 April 2021 at 7pm** – register online www.celtcinterconnector.ie/celticinterconnector

Celtic Interconnector Community Benefit



- Community, Sustainability and Biodiversity
- Emphasis on leveraging **Partnerships**.
- Putting **Participation** at the core – led by local steering group.
- Development of project specific community benefit **Strategy**.
- Evolving **Narrative**: building a positive legacy in Communities

Funding Streams

Community

Delivered through community fund with flexibility for participatory grant making initiatives.

Sustainability

Transform how communities think about, generate and use electricity. Delivered through retrofitting, smart tech and partnerships.

Biodiversity

Leave a positive legacy on communities who facilitate our projects. Delivered through grass root biodiversity initiatives.

Managed by a Community Forum of stakeholders and partners, and guided by a local Community Benefit Strategy.

Next Steps

- Planning consent application file being prepared for submission to An Bord Pleanála Spring 2021.
- Planning process may take 10-12 months

the Celtic
connector

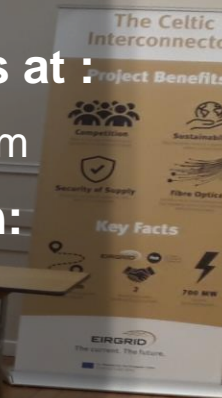
EIRGRID
current. The future.
European Union

**The conversation
continues...**

Register for email updates at :
celticinterconnector@eirgrid.com

Phone Michelle or Eoghan:
085 870 4999 or 087 247 7732

Keep an eye online:
www.eirgrid.ie/celticinterconnector



Questions

Text Questions to 085 870 4999

Add questions to the Q&A area on Zoom



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