



Powering **Up** Dublin

# Shaping Dublin's electricity future





# What is this information booklet for?

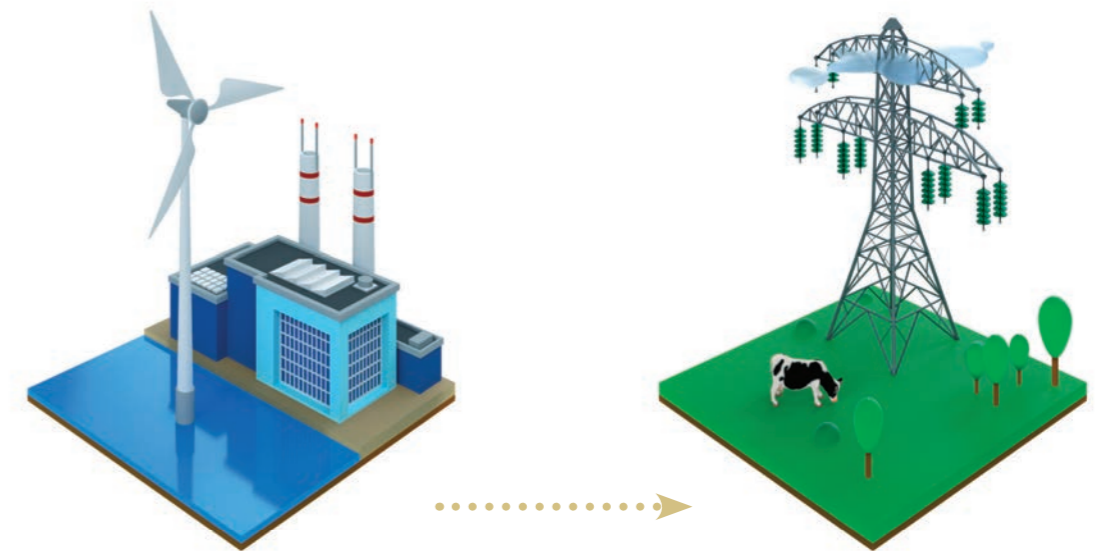
This booklet outlines EirGrid's 'Powering Up Dublin' project. It has information for anyone interested in finding out more about what's happening to the electricity transmission system in Dublin – including stakeholders, communities, landowners and members of the public.

It also explains what EirGrid do.



## Who is EirGrid and what do we do?

- ★ EirGrid is the state-owned operator of Ireland’s electricity transmission grid.
- ★ The electricity transmission grid safely brings power from generators to the ESB network that supplies every home, farm, community and business in Dublin and throughout Ireland. It also brings power directly to large energy users like high-tech manufacturing and data centres.
- ★ EirGrid plans for the future of Ireland’s electricity grid and operates it every minute of every day. This includes connecting with neighbouring grids in other countries and running the wholesale electricity market.
- ★ We work to ensure that everyone has power when they need it at the most economic price possible.
- ★ EirGrid does not generate electricity.

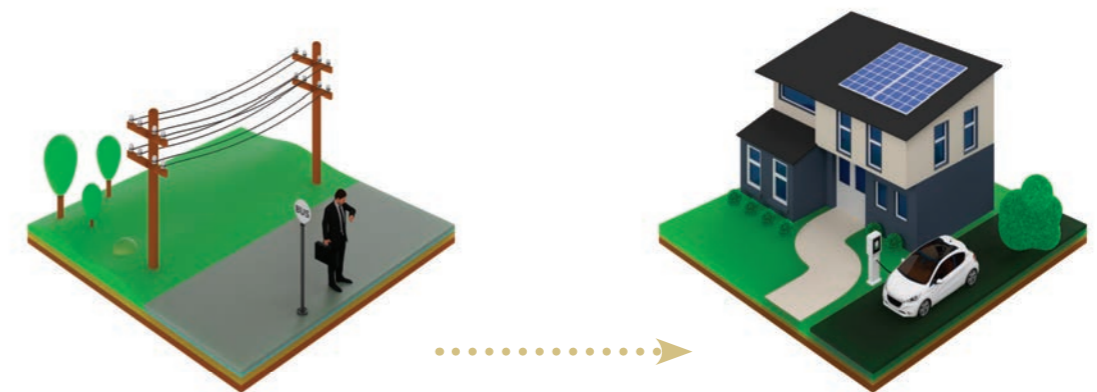


Generation companies create electricity and compete to supply it at the best price.

EirGrid ensures there is enough electricity, then safely delivers this directly to large energy users and all around the grid.

## How does Dublin’s electricity system work?

Because Dublin is a city, the electricity grid is mostly underground with cables linking substations in different parts of the city. These substations act as “nodes” where electricity voltage is stepped down from the high voltage levels used on the grid to lower voltage levels, so that it can be used by customers in their homes and businesses.



ESB Networks take electricity from the grid and send to everyone who needs it.

Consumers choose an electricity supplier, confident that they’ll have a reliable and secure supply – now and in future.



# How is EirGrid Powering Up Dublin?

We are installing up to 50km of cables across the city. Some cables will replace existing cables and some will be new. We will also upgrade some electricity substations and build new substations to support Dublin's electricity network.

Most of the cables operated by EirGrid in Dublin are underground. These cables connect the various electricity substations located around Dublin. The options we considered focus on specific cables that need to be replaced and particular substations that need additional connections to each other.

## Why are we doing this?

As part of operating the electricity transmission grid, EirGrid measures the strength and reliability of our electricity network on a regular basis.

### Meeting electricity needs

We work to ensure our electricity needs can be met minute-by-minute, as well as making plans for future electricity requirements. In doing this, we have identified the parts of Dublin's network that are working the hardest and need additional support, or need to be replaced.

### Building a reliable system and preparing for renewable energy

Based on our analysis, we are examining possible solutions to ensure Dublin's electricity network will continue to operate reliably in the near future and make the city ready to facilitate renewable energy.

### What substations and cables are affected?

There are important substations in Belcamp, Carrickmines, Finglas, Inchicore, North Wall, and Poolbeg that help keep Dublin's electricity flowing and the underground cables that connect them need to be replaced. A new connection between the substations in Carrickmines and Inchicore needs to be put in place for the first time. See map on page 8.

We are also exploring what other works may be required.

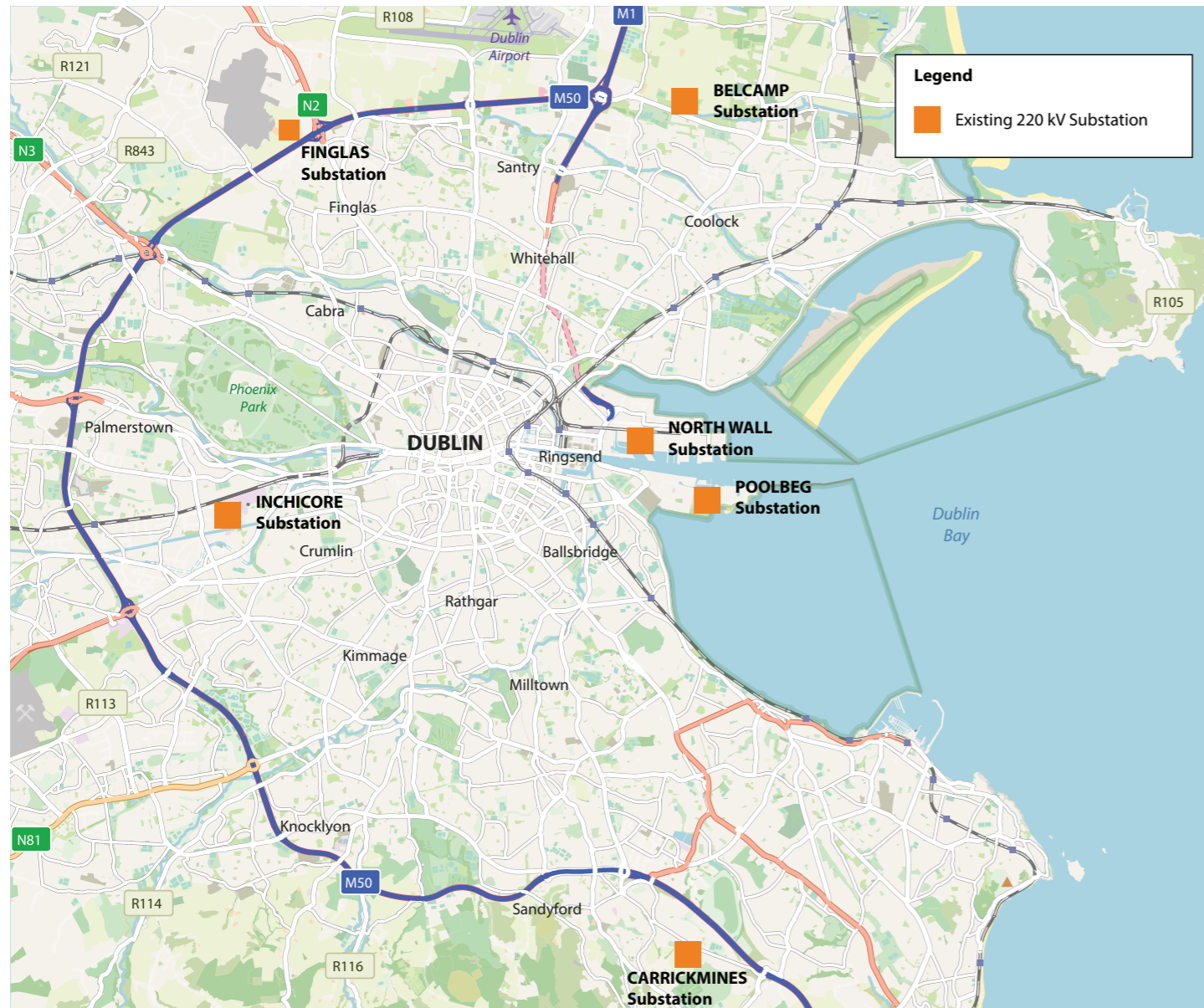
### What is the next step?

We are looking at options on how we best do this, what areas may be impacted, and how we keep disruption to a minimum.



# What is the study area?

The map below outlines the area in which our studies are taking place in relation to Powering Up Dublin. This area will be refined as the project progresses.



Our studies to date have identified that underground cables linking the following substations need to be replaced:

- ★ North Wall and Poolbeg;
- ★ Finglas and North Wall;
- ★ Poolbeg and Carrickmines; and
- ★ Two cables linking Inchicore and Poolbeg.

Our studies also show a new underground cable connection linking Carrickmines and Inchicore substations is required.

# What are the benefits?



### Security and reliability of supply:

These improvements will build a more resilient and reliable grid. This helps make sure that everyone has power when and where they need it.



### Meet future needs:

These improvements will help meet the growing and changing electricity needs of Dublin. This includes the electrification of transport systems, vehicles, heating and the development of housing, offices, and large energy users.



### Sustainability:

Ireland is already a world leader in renewable energy. These improvements will help facilitate offshore wind development. This is the next step to help Ireland transition to a low carbon electricity future.



### Economic:

These improvements will contribute to a strong Dublin economy and support future investment.



### Community:

Our community benefit policy will directly support local communities in the areas that host the project infrastructure.



## Our approach to consultation and engagement

Our **'Have Your Say'** publication outlines our commitment to engage with, and listen to, stakeholders. It sets out our detailed approach to developing projects, and how you can get involved at every step in the process.

Our **'Public Engagement Strategy'** publication reinforces our commitment to engaging with our stakeholders in the development of projects like this.

You can get a copy of both publications at [www.eirgrid.ie](http://www.eirgrid.ie)

### Working to minimise disruption

To help minimise disruption and work as efficiently as possible, EirGrid is coordinating closely with other state-owned utilities, transport providers, local authorities and many more. We have set up a forum with various working groups to support this coordination.

### Working with you

We know that there will be a considerable amount of roadworks needed to complete the works. We also understand that electricity infrastructure projects like these impact on local residents and businesses. With this in mind, we will set up a Community Forum and a Business Forum to communicate, consult and engage with residents and businesses.

### Community Benefit

While the Powering Up Dublin project is underway, we will work to give back to communities as part of our community benefit policy. Our support will focus on issues of community, sustainability and biodiversity. We will be led by local stakeholders on the best ways to use the community funds set aside for these projects, so that your community benefits.

## What's happening with Powering Up Dublin?

The project is currently in the early stages of development and planning. We are undertaking a range of feasibility studies on underground cable technology and substation technology. This will help guide us in developing potential solutions for substation upgrades and routes for underground cables. We will not make a decision on the route of an underground cable without consulting and engaging with local communities, businesses and other stakeholders. We will keep you up-to-date as the project progresses.

### How can you help with Powering Up Dublin?

We are committed to engaging, communicating and consulting with you on an ongoing basis.

Over the coming months and years, we will depend on your feedback and collaboration to help us carry out these necessary works with as little disruption as possible.

We cannot make major changes to the grid while power is flowing – and neither can we turn it all off to get work done. If we are to keep Ireland's electricity secure, we have to sequence the timing of grid projects carefully to ensure that we keep the lights on.

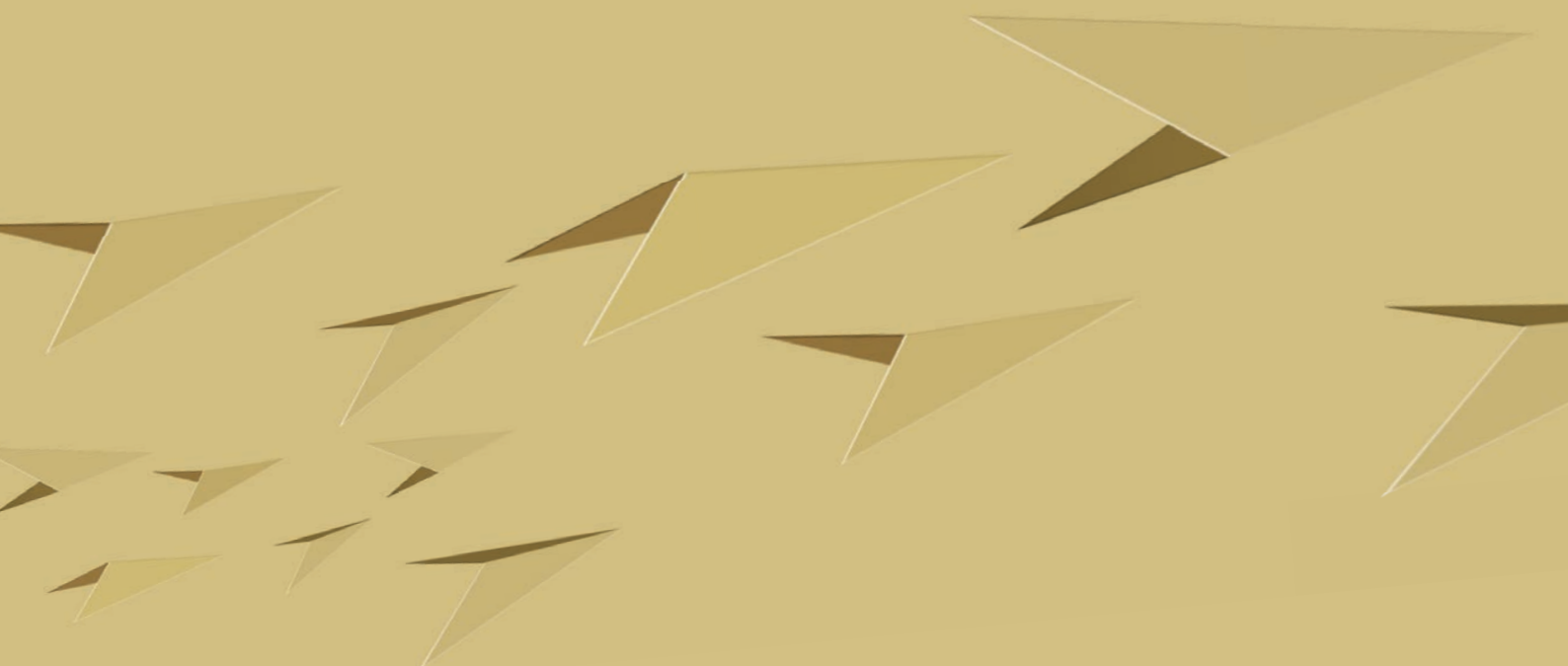
If you want to find out more and help us in planning and shaping Dublin's electricity future, you can:

- ★ Sign up for updates at [eirgrid.ie/Dublin](http://eirgrid.ie/Dublin).
- ★ Join us for future consultation, by emailing [Dublin@eirgrid.ie](mailto:Dublin@eirgrid.ie)
- ★ Get involved in the community or business forums.

We will update this information booklet as the programme progresses. You can also find an up-to-date list of frequently asked questions at [eirgrid.ie/Dublin](http://eirgrid.ie/Dublin)



Powering **Up** Dublin



Delivering a cleaner energy future

The Oval, 160 Shelbourne Road, Ballsbridge, Dublin Do4 FW28

Telephone: 01 677 1700 • [www.eirgrid.ie](http://www.eirgrid.ie)