



CLASHAVOON DUNMANWAY

South-West Projects



GRID25
DELIVERING IRELAND'S ELECTRICITY FUTURE

Phase 1
Public Consultation



Clashavoon - Dunmanway Project

About EirGrid

EirGrid, a state-owned company, is the national operator of the electricity grid.

The national grid is an interconnected network of high voltage power lines and cables, the equivalent of the main roads, dual carriageways and motorways of the road network.

EirGrid's role is to operate, plan and develop the grid to provide customers throughout the country - from rural areas, to homes, business parks, hospitals and sports fields - with a safe, secure, reliable and efficient electricity supply.

What is Grid25?

Grid25 is a major initiative to put in place a safe, secure and affordable electricity supply throughout Ireland, supporting economic growth and utilising our renewable energy resource to its maximum potential.

Development of the grid is essential to provide a platform for renewed economic growth and regional development, and is vital if we are to effectively tap into our abundant renewable energy resources.

Under Grid25, €730 million will be invested in the development of the energy transmission infrastructure for the South-West region.

Grid25 will involve upgrading the high voltage system and an overall investment of approximately €4 billion in the period up to 2025. This new infrastructure is every bit as essential to the future growth of the country as any investments in road, rail and broadband.

What is required?

EirGrid's South West Projects will involve the upgrading of the existing network and grid

reinforcements to connect significant amounts of wind generated energy to the national grid and to strengthen the grid in this region to accommodate future growth in demand for electricity.

What is proposed?

A new 110 kV electricity circuit is proposed to connect to the existing Clashavoon electricity substation, which is located north east of Macroom Co. Cork, and the existing Dunmanway electricity substation located on the outskirts of Dunmanway Co. Cork.

Why is this needed?

The proposed development is required to remedy two identified transmission network problems in South West Cork.

- **Increase security of electricity supply**
Currently the electricity supply in South West Cork is maintained by two 110 kV transmission lines, the Dunmanway – Macroom 110 kV line and the Bandon – Raffeen 110 kV line. During routine maintenance of either line, the subsequent loss of the other line would mean that South West Cork would lose its electricity supply and leave the towns of Bandon, Bantry, Dunmanway and extended areas around them, without power.
- **Facilitate connection of renewable generation**
There is a significant amount of renewable generation connected or seeking to connect in South West Cork. The current transmission network configuration and capacity is not capable of accommodating the connection of this amount of renewable generation.

It is vital that new electricity infrastructure is built to ensure that the region meets the standards required of a safe and secure electricity system.

Your Views are Important to Us

We welcome all suggestions and queries.

We welcome all suggestions and queries. Please study the maps and tell us your views on the proposed route corridor options. All correspondence will be dealt with confidentially.

How were the route corridors decided upon?

Several key criteria were taken into account by the consultants when choosing possible route corridors for the power lines:

Visual Impact: An assessment of the of the visual impact of the proposal on the environment was carried out in order to minimise the impact

Community: an assessment of the local villages and communities was undertaken to reduce the proximity of the power lines to them and ensure minimal impact on lifestyles of those living and working in nearby communities.

Ecology: A review of conservation designated areas, including Special Areas of Conservation (SACs), Special Protection Area (SPAs) and Natural Heritage Areas (NHAs) was completed.

Cultural Heritage: Architectural and archaeological heritage sites, including recorded archaeological monuments and places, protected structures, and national monuments, were assessed in an attempt to minimise any impact.

Landscape: A review of County Development Plans was undertaken in order to assess the numbers of scenic views, scenic routes, and vulnerable landscapes in the area.

Geology: Soil, subsoil and bedrock was used to determine significant types and their benefits and drawbacks.

Water: The surface water features were reviewed, as lakes are to be avoided and river crossings minimised.

Several key inputs were taken into account by the consultants when choosing possible route corridors for the power lines:

Public Consultation: The identification of constraints also included consultation with statutory and non-statutory consultees as well as the general public.

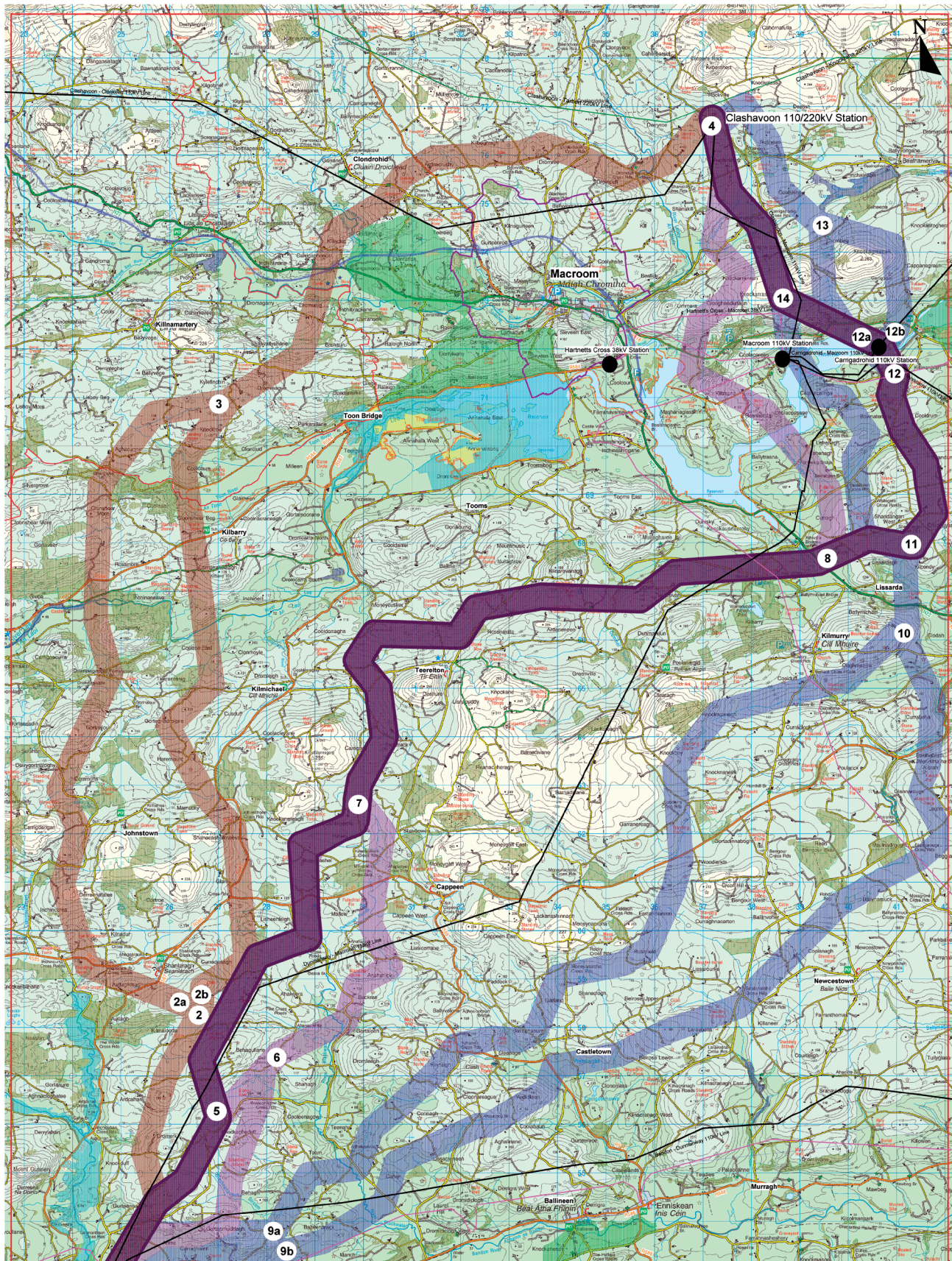
Aerial Photography: Aerial photography for the study area was obtained. This aerial photography was used as a basis for the constraints mapping and was in itself used as a means of identifying project constraints.

OSI Mapping: OSI Mapping under licence was obtained and used to identify possible constraints.

An Post Geodirectory: The An Post Geodirectory identifies the precise address and location of residential and commercial property in Ireland. Information was obtained and mapped along with ongoing reviews of publically available data from Cork County Council.

Local History: The study area is particularly interesting in regard to Irish History and every effort has been made to identify and give due recognition and protection to any sites discovered.

Site Visit: Frequent site visits were made by the project team to get a full appreciation of all identified constraints and the general appreciation of the topography/landscape of the study area. No visits to private land were made at this stage of the process.



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Study Area	Emerging Preferred Route Corridor	Western Route Corridor	Central Route Corridor
Eastern Route Corridor	Special Area of Conservation	Proposed Natural Heritage Area	Special Protection Area
Whooper Swan Constrained Area	Forestry	Scenic Routes	Scenic Landscape
National Monuments	Protected Structures	Sites and Monuments	CAHCS Designated Walk
Michael Collins Ambush Site	An Gaeltacht	Macroom Town Council	38kV Overhead Line Network
110kV Overhead Line Network	220kV Overhead Line Network	Proposed Macroom Bypass	Bord Gais Transmission Line

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EIRGRID

PROJECT:
 Clashavoon - Dunmanway 110kV Project

DRAWING TITLE:
 Route Corridor Map

REVISION DESCRIPTION
 Revision 0

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DRAWING NUMBER PE687-D193-008-001-000		SHEET NO. 001	

Route Corridor Options

Below is a brief description of route corridor options identified. Please refer to the Phase 1 – Lead Consultants Report for an explanation as to how these routes corridor options were chosen. This report is available on the project website for review/downloading or by contacting the project team using the contact details on the final page of this document.

www.eirgridprojects.com

Western Route Corridor

(Coloured brown on Constraints Map)

- The western corridor exits Clashavoon in a westerly direction crossing the R582 just northeast of Clondrohid.
- The route then turns to a general southern direction crossing the N22 at Carrigaphooca.
- On crossing this road the route enters the Gaeltacht passing approximately 3km from Killnamartery.
- The corridor continues in a south westerly direction towards Knockroe where the corridor splits into two, with both variants heading in a southerly direction crossing the R585 approximately 2km either side of Shanlaragh village.
- South of Shanlaragh the route corridor travels south to Dunmanway 110kV substation.

Central Route Corridor (Coloured purple on Constraints Map)

- The Central Corridor exits Clashavoon in a southerly direction crossing the R618 close to Mashanaglass where the route corridor changes south east in direction crossing the Carrigadrohid reservoir close to Lehenagh where it turns south towards Crossmahon.
- From here the route corridor turns west crossing the N22 to approximately 1km northwest of Teerelton.
- The route corridor then turns south to

Clashbredane where the corridor splits in two. Both variants continue south crossing the R585, 3 and 3.5km west of Coppeen.

- Both variants of the central route continue in a southwest direction towards Dunmanway 110kV substation.

Eastern Route Corridor (Coloured blue on Constraints Map)

- There are two possible variants of the eastern route with both travelling in a south-eastern direction. The more westerly option passes close to the existing Macroom 110kV station, the more easterly option passing by Carrigadrohid generating station. Both options converge close to Lissardagh where the corridor continues south to cross the N22.
- Once across the N22 the corridor splits into two. One option travels in a generally south westerly direction crossing the R585 approximately 5km east of Coppeen continuing to cross the R588 approximately 2km west of Castletown and on to Dunmanway 110kV substation.
- The second route option travels in a southerly direction just east of Beal Na Bláth before turning to a south westerly direction at Boggra. The route corridor passes approximately 1.5km north of Newcestown and approximately .7km south of Castletown where it crosses the R588 and continues in a south western direction toward Dunmanway 110kV substation.

The Emerging Preferred Route Corridor

(Solid purple on Constraints Map)

As can be seen from the map, the emerging preferred route corridor is a hybrid route composed of both the central and the eastern corridor.

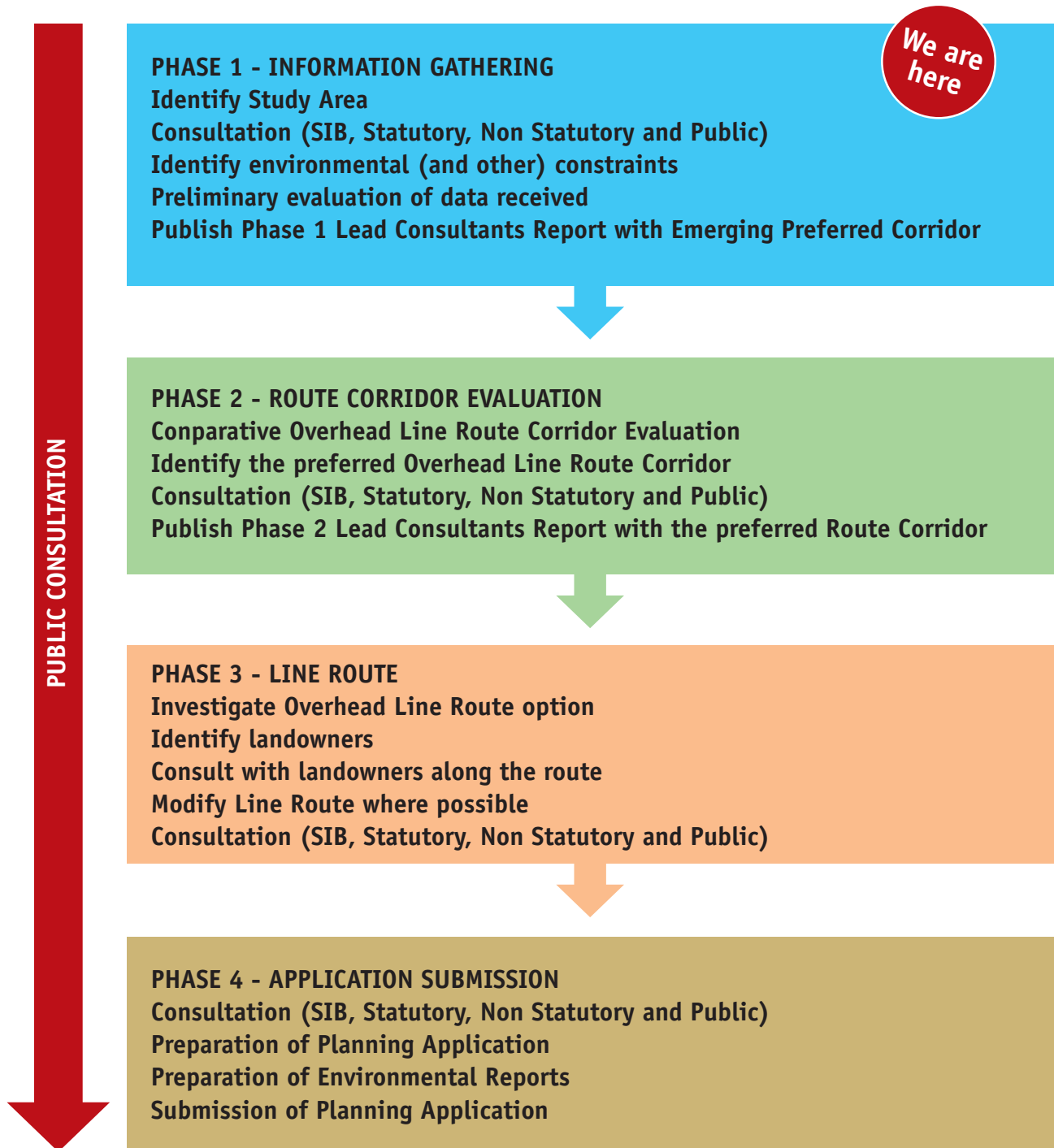
The reasons why our lead consultant has a preference for this emerging preferred route corridor is contained within the Phase 1 Lead Consultants Report. Please review and submit your comments to the project team.

Picture of existing Dunmanway-Macroom 110kV line.





Planning Application - Key Phases



Feedback

Name

Address

Telephone

Email

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What are your views?

Benefits

- The new connection will allow the region to utilise its rich renewable energy resources.
- The development of the renewable energy sector is an important element in driving future job creation and is a key platform for economic recovery.
- To support growth and development in the region and ensure security of supply for the future.
- A strong electricity network will help boost existing Industry in the South West when competing for business and inward development in the area.

Timelines/Timings/When?

- This new infrastructure is required to be fully operational by 2014.
- A planning application is expected to be lodged with An Bord Pleanála in 2011.
- Full public consultation will take place over the coming months commencing with the gathering of information that will determine what constraints in the region effect the proposed development.
- From this information one or more potential routes will be identified.

Contact Details

EirGrid is committed to ensuring that all members of the public are fully aware of the project and encourage you to participate in public consultation. If you would like to discuss the project or to meet with a member of the project team, please contact us by either telephone or email. Otherwise, consult our website for regular updates.

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