



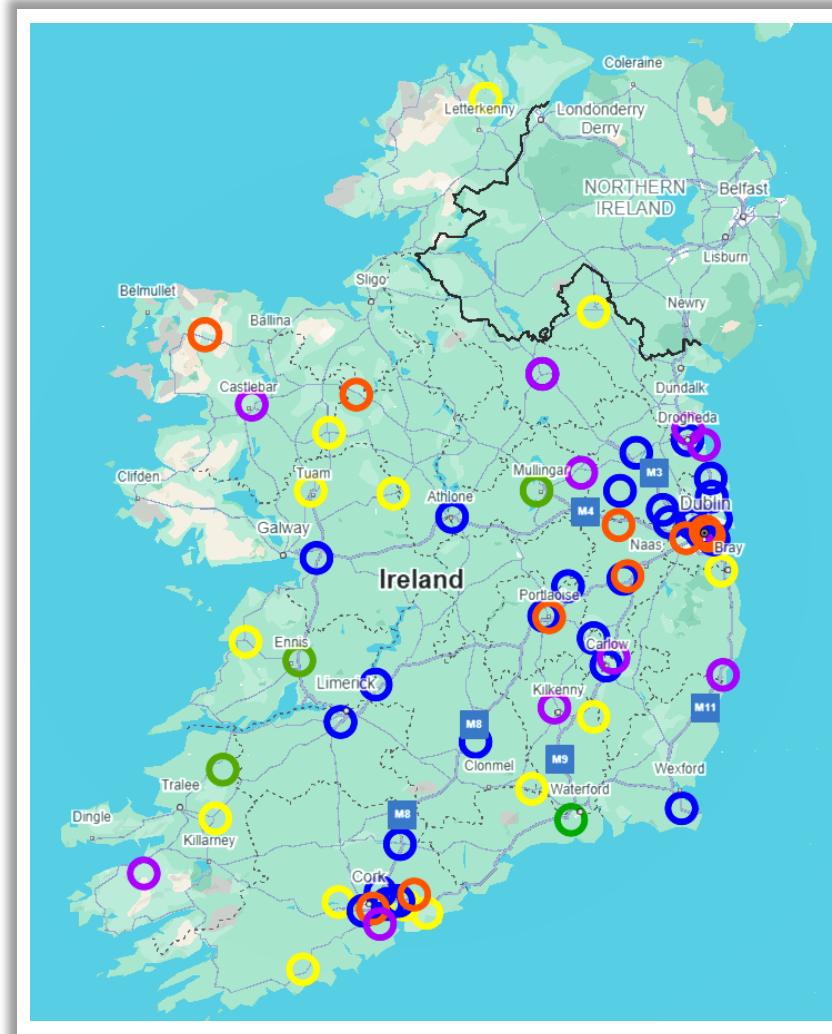
Energy for  
generations



Tionscadal Éireann  
Project Ireland  
**2040**

# **ESBN PR6 (2026 – 2030) Distribution Work Programme OPR Webinar Sean Mulvey (Engineering and Major Projects)**





## HV Reinforcement Programme

- Dark Blue – **27** New 110 kV Substations;
- Purple – **18** New 38 kV Substations;
- Amber – **11** 110 kV Substation uprates; (Portlaoise 110 kV  
For example)
- Green – **5** 110 kV Renewable Hubs – Substation uprates;
- Yellow – **15** 38 kV Substation uprates;

## PR6 High-Voltage 27 x 110 kV new build substation projects (DSO Demand)

Project	Region	Voltage
Walterstown	Dublin North	110 kV / 38 kV / MV
St. Vincent's University Hospital	Dublin South	110 kV / MV
Courtlough	Dublin North	110 kV / 38 kV / MV
North City Junction	Dublin Central	110 kV / MV
Batter Lane	Dublin North	110 kV / MV
Blundestown	Dublin North	110 kV / 38 kV
Fosterstown	Central	110 kV / MV
East Galway	North West	110 kV / 38 kV / MV
East Athlone	Central	110 kV / 38 kV / MV
Dunsink	Dublin North	110 kV / MV
Belmayne	Dublin North	110 kV / 38 kV / MV
Newbridge East	Central	110 kV / 38 kV
Bracklone	Dublin North	110 kV / MV
South East Carlow	Central	110 kV / MV
Ballycummin	South Central	110 kV / 38 kV / MV
West Portlaoise	Central	110 kV / MV
South Athy	Central	110 kV / MV
Birdhill	South Central	110 kV / MV
North-East Cashel	South Central	110 kV / MV
Navan	North East	110 kV / 38 kV or 110 kV / MV
Drogheda	North East	110 kV / 38 kV / MV
Castleview (Little Island)	South West	110 kV / MV
Fermoy	South West	110 kV / MV
Bishopstown	South West	110 kV / 38 kV / MV
Mayfield/Riverstown	South West	110 kV / MV
Killacloyne	South West	110 kV / MV
Cavan	North East	110 kV / MV



## Insights

- These 27 projects will deploy an additional circa 2,400 MVA of installed 110 kV transformer capacity onto the system.
- **8 projects in greater Dublin area** delivering circa 35 % of this transformer capacity.
- **5 projects (~20 %) in South West** region, delivering capacity in the wider Cork area
- Of this portfolio, **site arrangements** have been agreed for **7 sites**, breakdown as follows:
  - Greater Dublin area 3 sites
  - Central (Portlaoise / Meath) area 2 sites
  - North East area 1 site
  - Limerick area 1 site

# 38 kV New Build Substations: PR6+ Requirements

Project	Status	PR6/PR7
New Knocknagee MSD 38 kV	Delivery	Submitted as part of PR6
New Talbots Inch/Rosehill 38kV	Pipeline	Submitted as part of PR6 / PR7 EI
Delvin 38kV / Station Rebuild	Pipeline	Submitted as part of PR6
New Ballymakenny 38 kV	Development	Submitted as part of PR6
Ballyard 38 kV	Pipeline	Submitted as part of PR6
Castlecomer 38 kV	Development	Submitted as part of PR6
Collinstown 38 kV	Development	Submitted as part of PR6
Tycor 38 kV	Pipeline	Submitted as part of PR6
New Bettystown 38 kV (New CX TBC)	Pipeline	Submitted as part of PR6: Dart +
New Baxter 38 kV (New CX TBC)	Pipeline	Submitted as part of PR6
New Caroline Street 38 kV	Pipeline	Submitted as part of PR6
New Gurranbane Offload 38 kV	Pipeline	Submitted as part of PR6
Bishopstown 38kV	Pipeline	Submitted as part of PR6
Morristown 38 kV (TBC)	Pipeline	Submitted as part of PR6
Rineanna 38 kV	Pipeline	Submitted as part of PR6
New Blarney Business Park 38 kV	Development	Submitted as part of PR6 / PR7 EI
New Clonroche 38 kV	Pipeline	Submitted as part of PR6 / PR7 EI
New Killygarry 38 kV	Development	New PR6

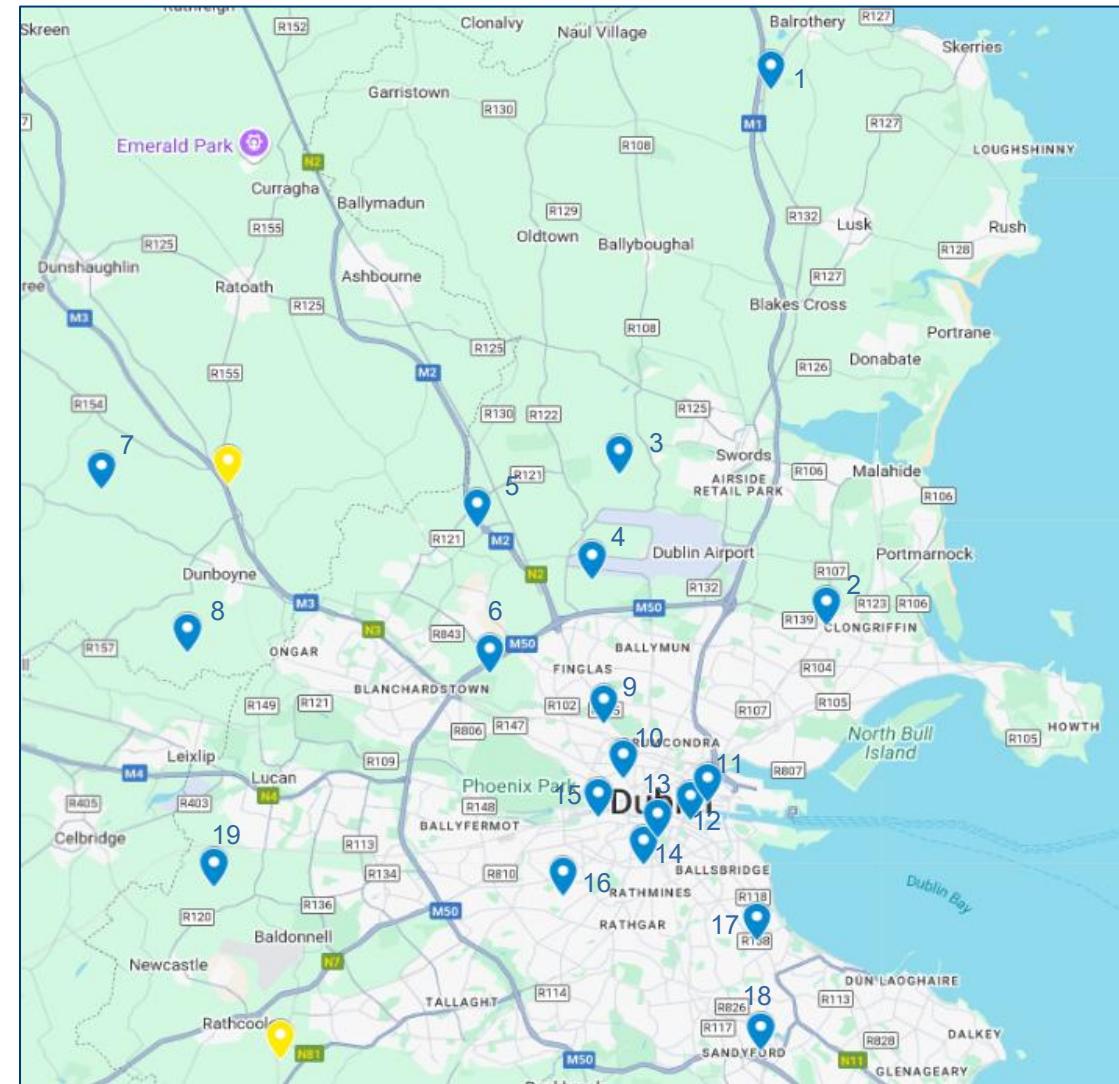


Colour coding indicates milestone status (not whether progress against target has slipped)

\*List excludes projects in development/delivery and not included in PR6 submission e.g. Astellas, Castleisland etc

# Planned Infrastructure For Dublin City

Dublin		
1	Courtlough	Fingal Offered site under review
2	Belmayne	Site Agreed
3	Ridgewood St Margarets	No Site
4	Dubber	Fingal Offered site under review
5	Cherryhound	No Site
6	Dunsink	No Site
7	Blundestown	No Site
8	Walsterstown	Site Agreed
9	Ballyboggin	Site Under Review
10	Grangegorman	Site agreed with GGDA
11	Spencer Dock	No Site
12	Pearse Street	No Site
13	Stephens Green	No Site
14	Grove Road	No Site
15	Steevens Lane	Site Agreed
16	Kimmage	HSE Offered Site Under Review
17	Stillorgan	No Site
18	Leopardstown	Site Agreed
19	Grangecastle West	SDCC Offered Site Under Review
20	Brandon	No Site



## Availability capacity heatmap | ESB Networks

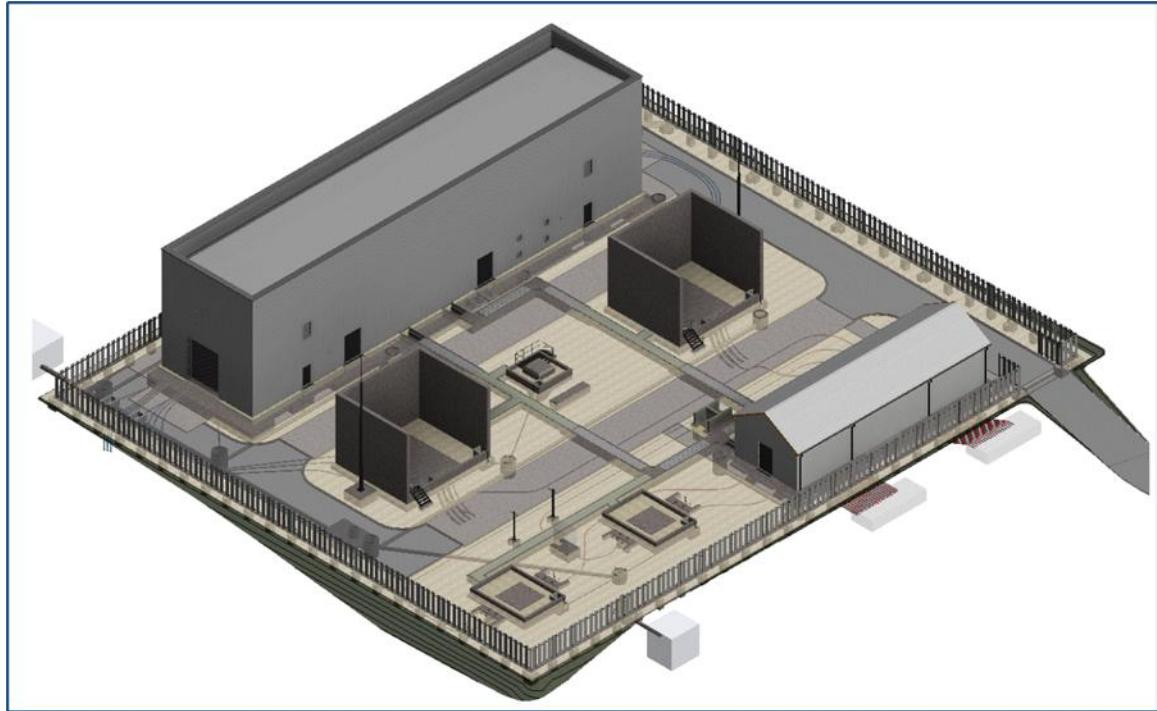
# Substation Requirements



MV Substation Approx 20sq m



38 kV Substation Approx 1 acres



Mixed 110 kV, 38 kV and MV  
Approx 4 acres

# Photomontage when complete



# Rural 38 kV substation Woodford near Killarney



Before

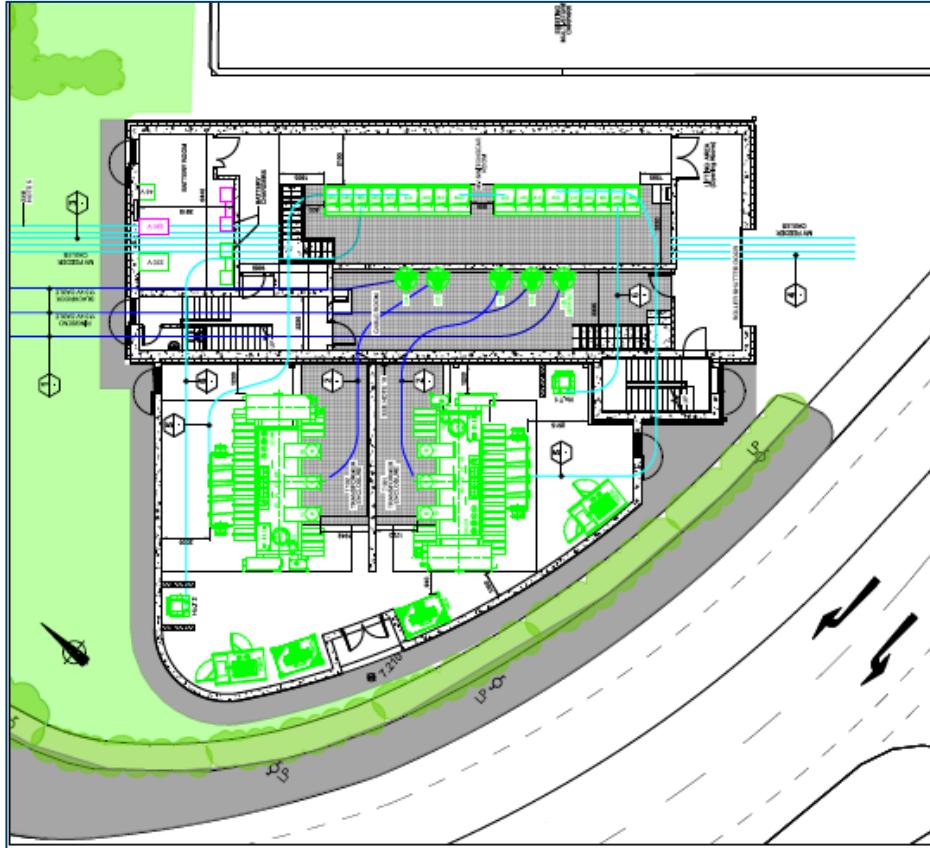


After

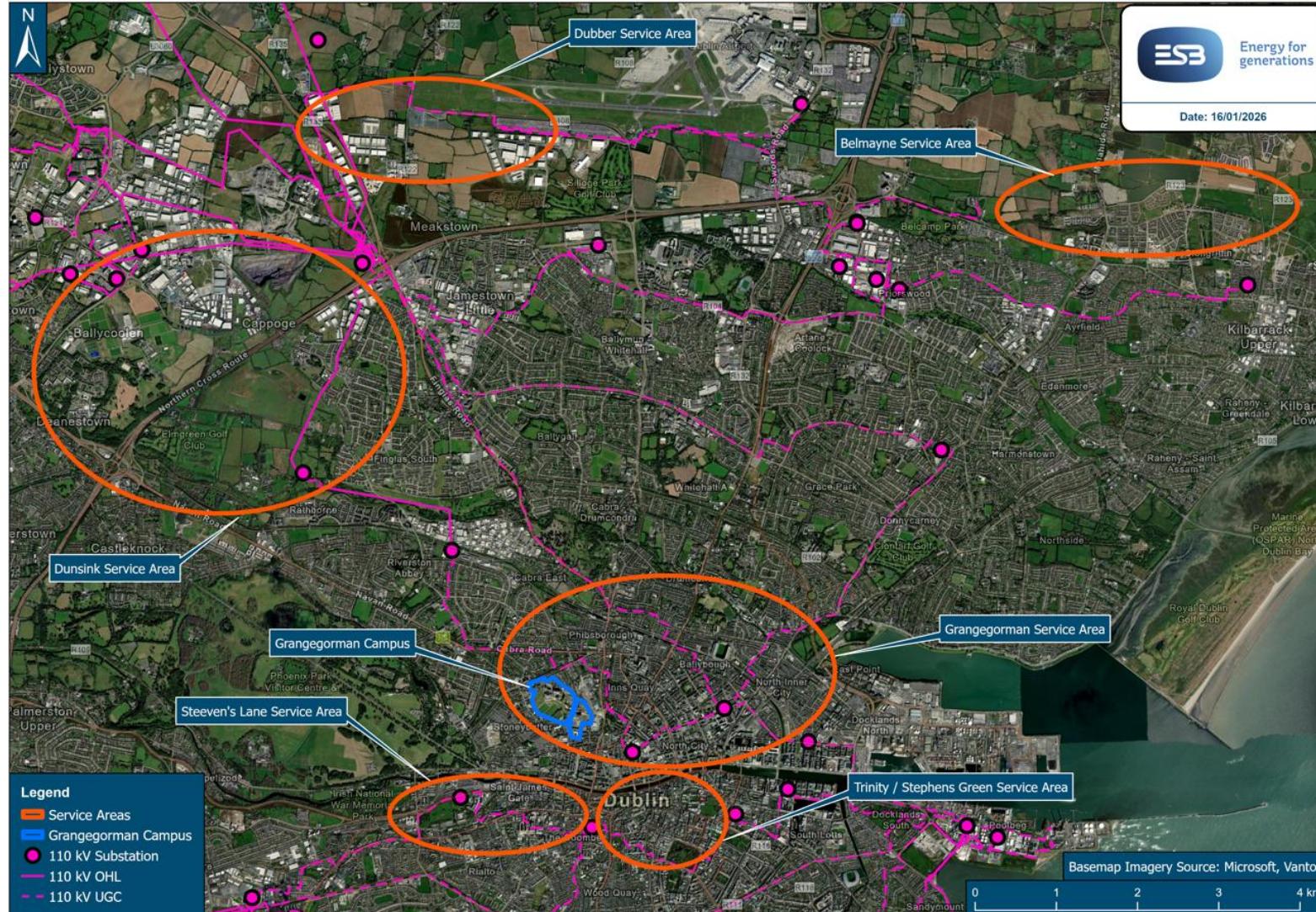


# Compact Urban Substation Development

- St Vincent's Hospital. Innovative compact urban substation development to optimise small construction site.
- Close collaboration with St Vincent's Hospital and Dublin City Council



# Grangegorman (Broadstone 110 kV Substation)



# Grangegorman (Broadstone 110 kV Substation)

There are multiple significant customers seeking connections from the Broadstone substation:

- 1 - Grange Gorman Campus – significant increases in load demand
- 2 - O'Deavneys Garden – 1044 residential units, 16 commercial units.

Connection offered and accepted but split across feeders from separate HV substations – very difficult to connect. Should be transferred to new Broadstone substation.

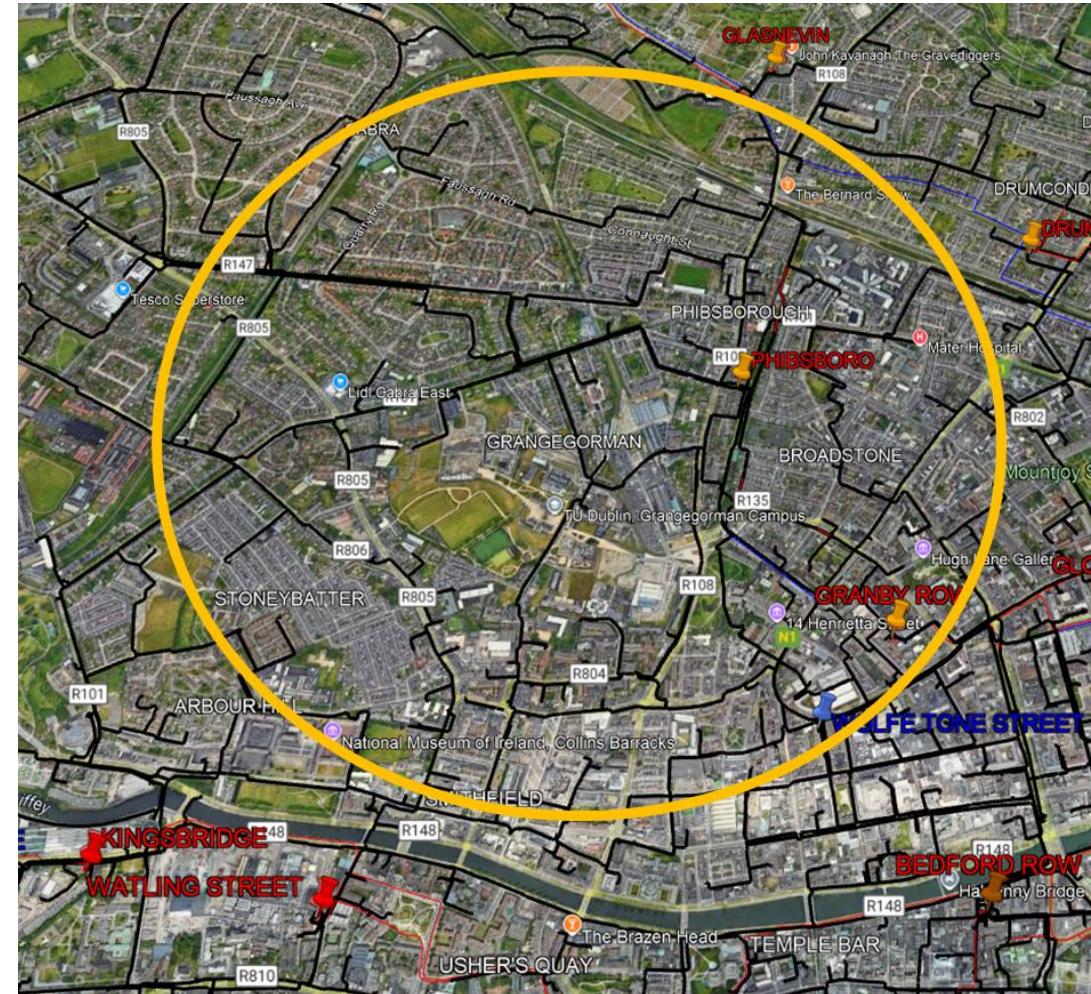
- 3 - St Bricíns Military Hospital. LDA interest in developing this site.

Depending on size very difficult to connect without Broadstone substation.

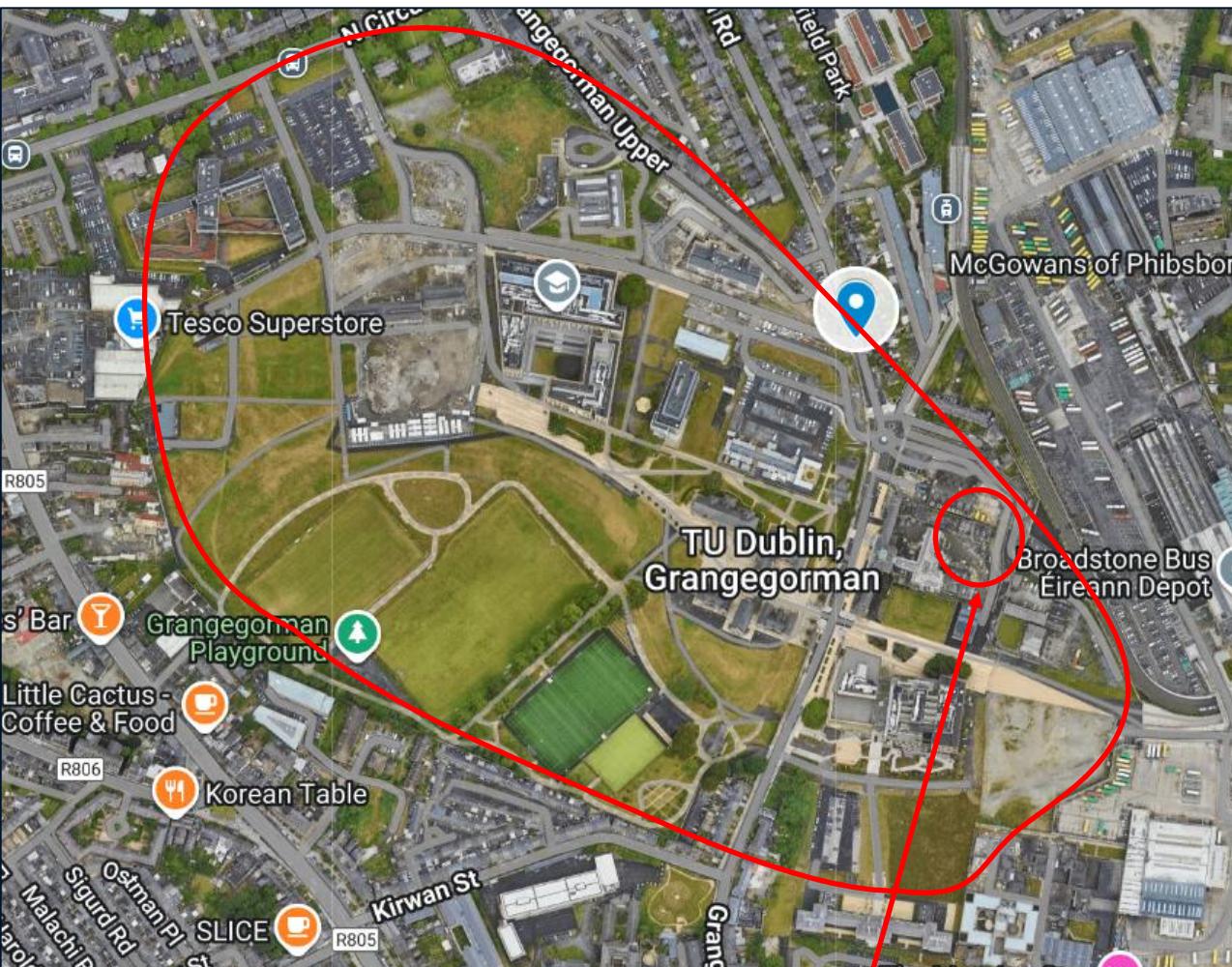
- 4 - Mater Hospital if load required remains at MV level requires Broadstone substation

5 - Dublin Bus electrification of transport (Broadstone and Phibsboro Depots, anticipated further load increases) requires Broadstone substation

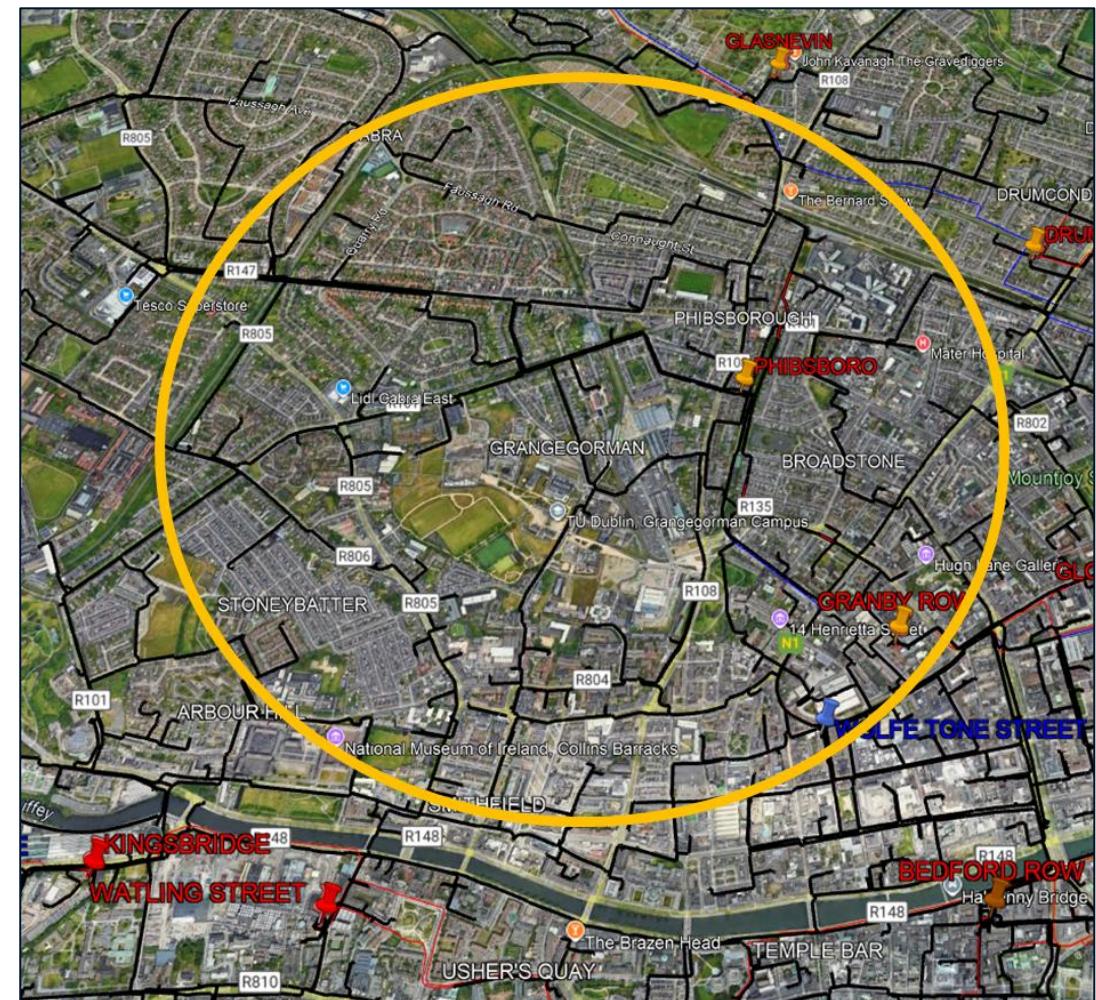
- 6 - Bus Eireann electrification of transport (anticipated load) requires Broadstone substation



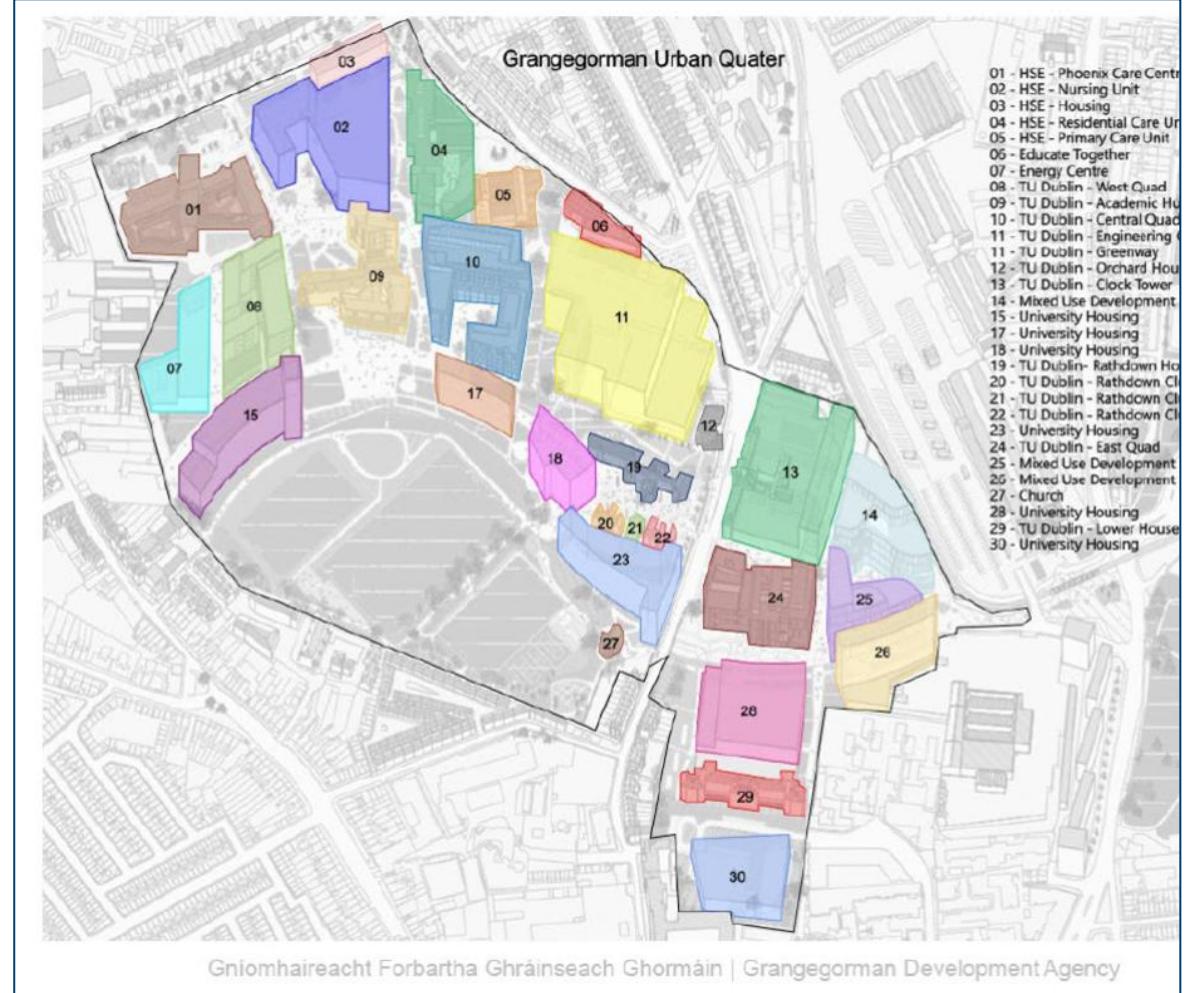
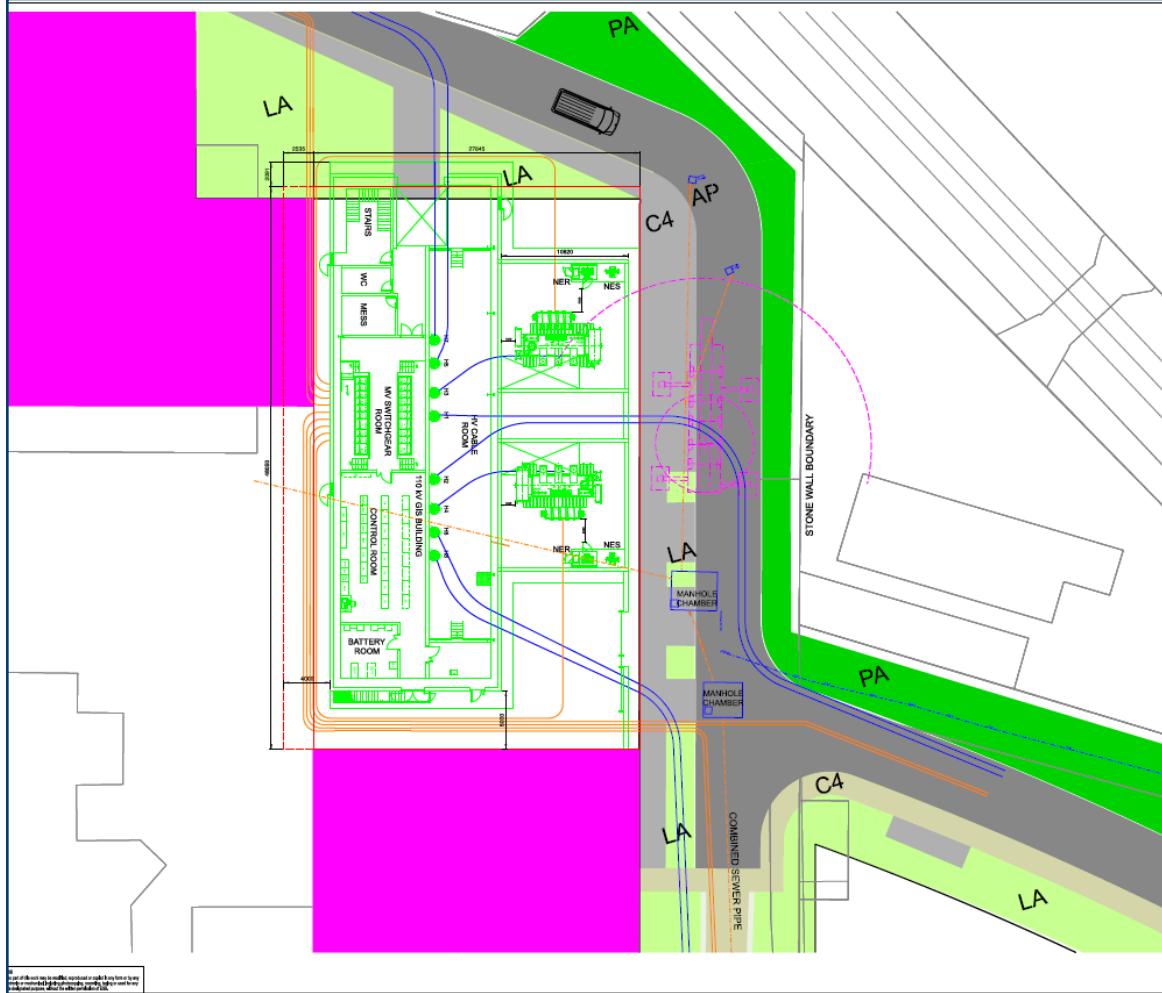
# Grangegorman (Broadstone 110 kV Substation)



Plot 13

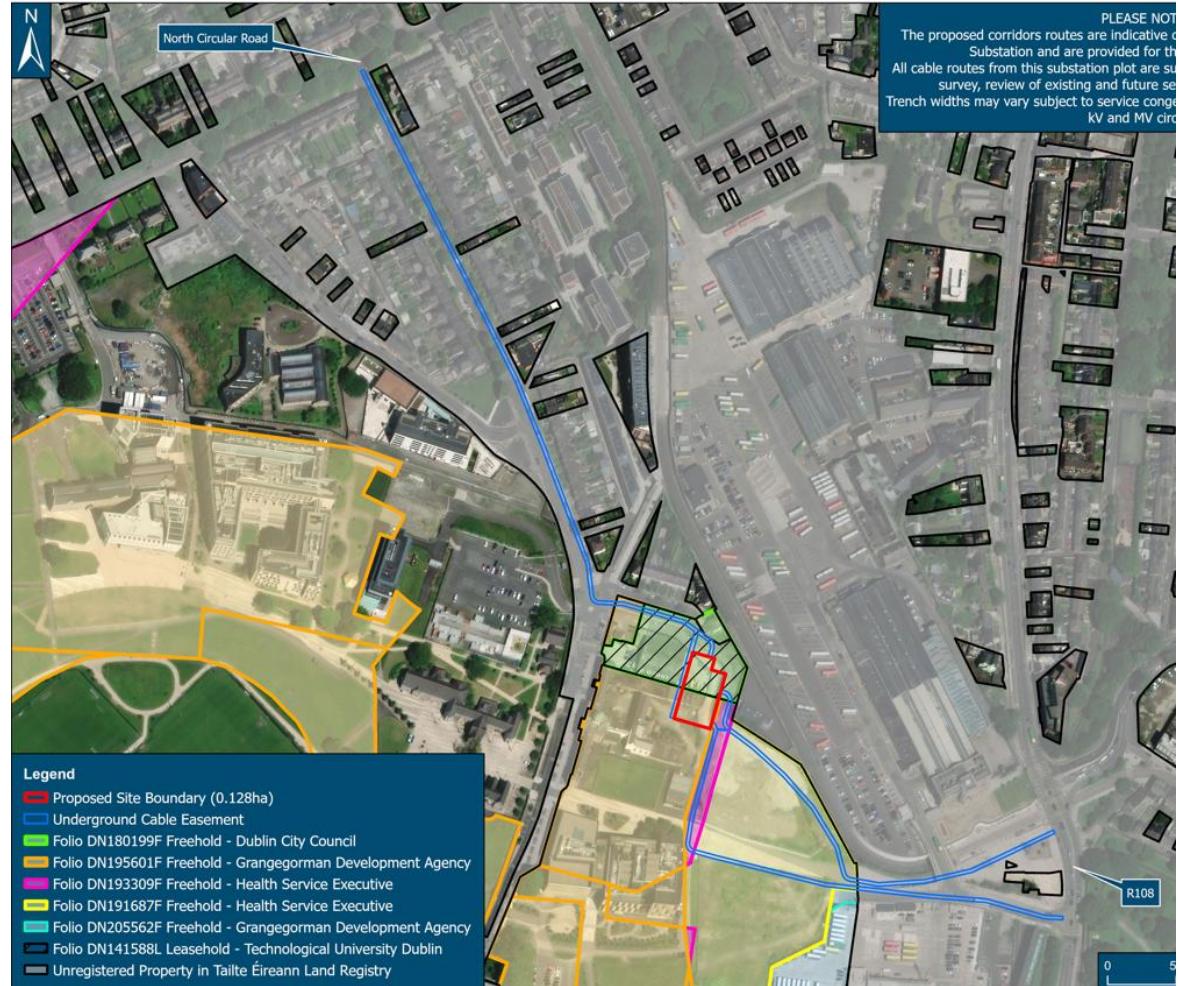
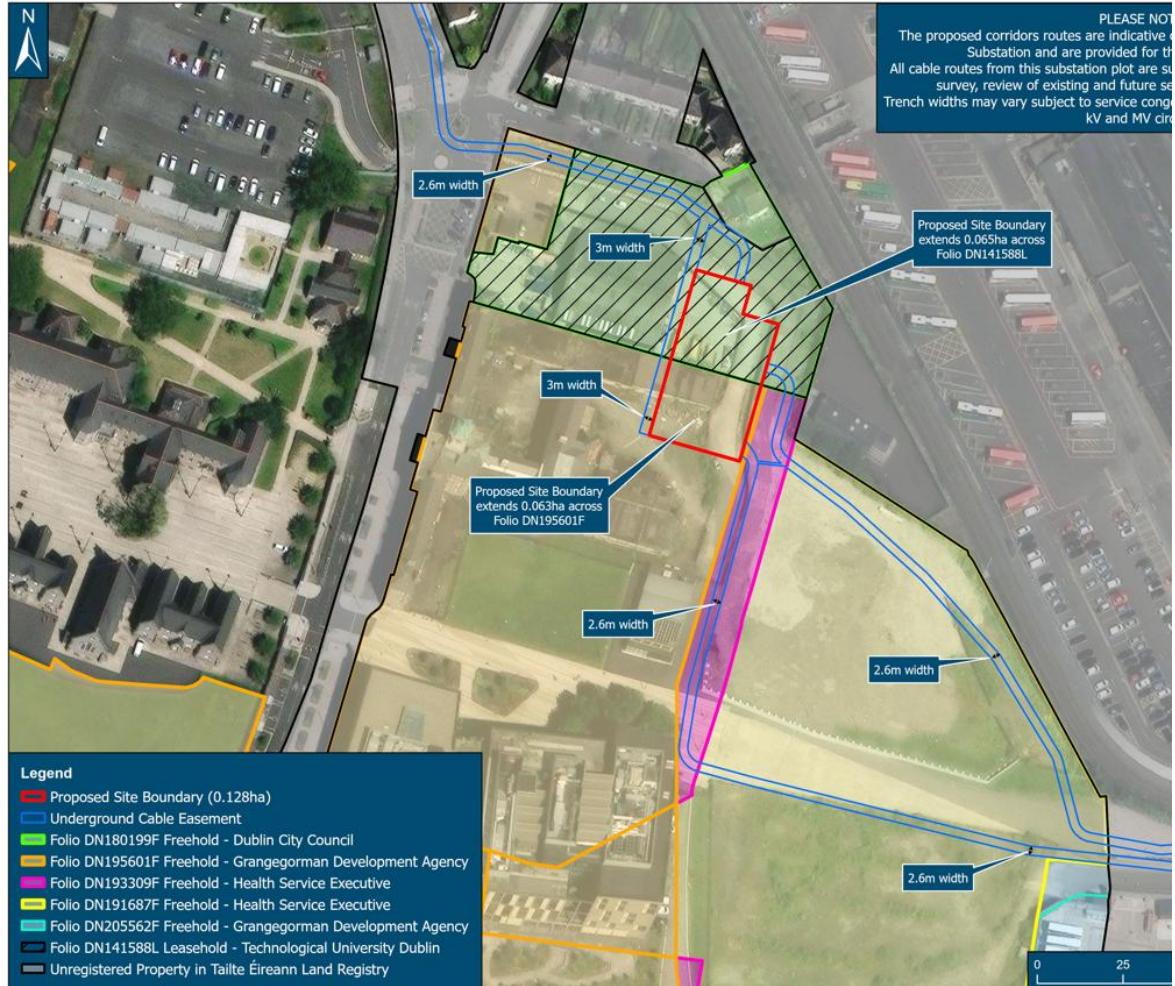


# Grangegorman (Broadstone 110 kV Substation)

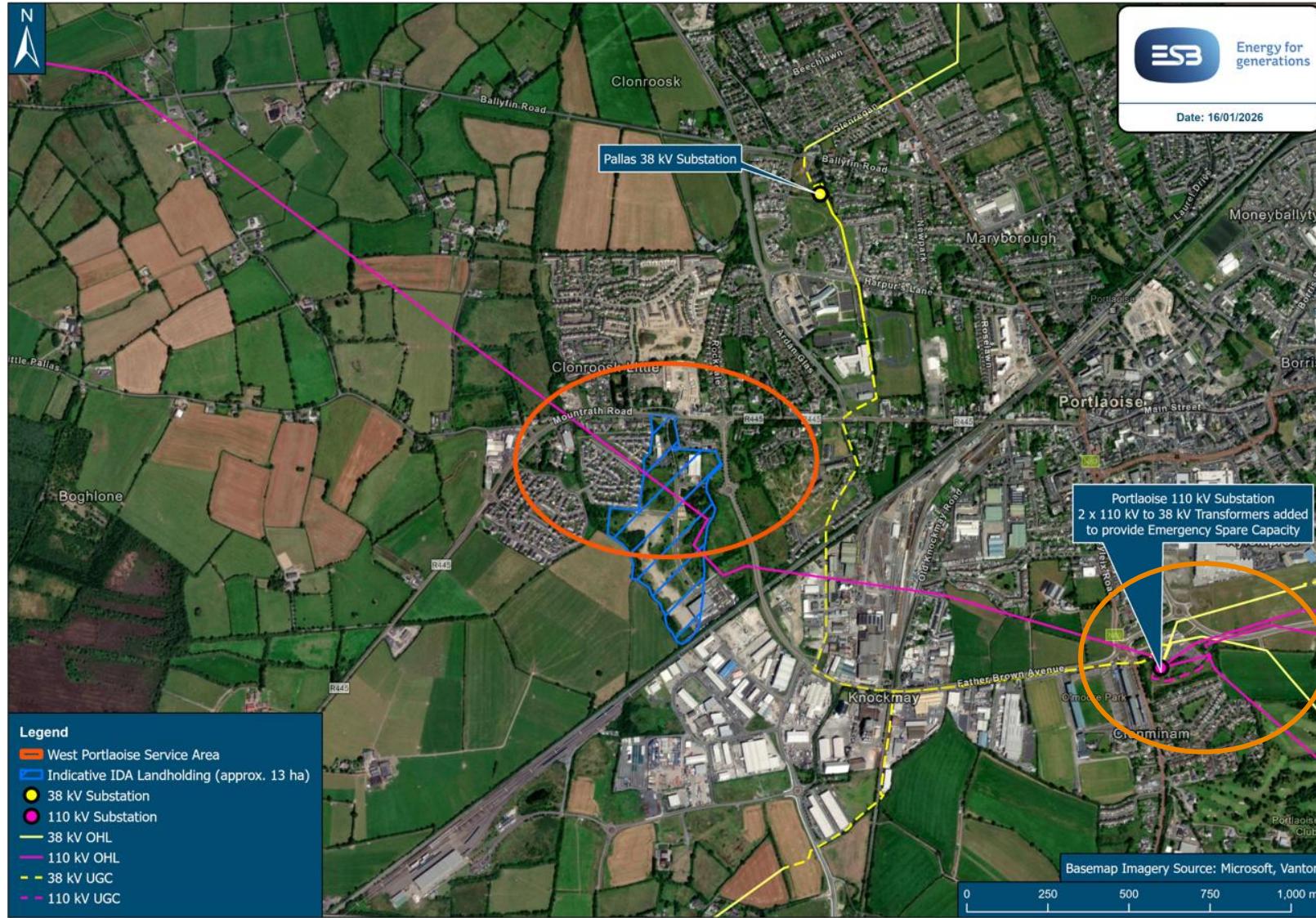


The current proposal is to locate the substation on a segment of Plot 13, which has shared ownership between TUD and GGDA

# Grangegorman (Broadstone 110 kV Substation)



# West Portlaoise and Portlaoise Existing 110 kV Substation



## New West Portlaoise 110 kV – 38 kV - MV Substation:

Two new 63 MVA Transformers Two new 31.5 MVA Transformer.

This project will provide capacity to the greater Portlaoise area well beyond 2045.

It also relieves pressure on surrounding 38 kV Substations at Pallas, Mountrath and Mountmellick

# West Portlaoise and Portlaoise Existing 110 kV Substation



**Transformer Asset Replace project:**  
Two existing 31.5 MVA Transformers  
replaced with Two 63 MVA Transformer.

[ESB Networks complete critical infrastructure upgrade works in Portlaoise, doubling capacity for customers](#)

This doubled the capacity of the substation  
in 24 weeks

# Accelerating Infrastructure Taskforce



## Taskforce Membership

### External Members:

Mr Sean O'Driscoll – Chairman of the Economic and Social Research Institute (ESRI) and former Chairman and Chief Executive of the Glen Dimplex Group

Ms Mary Hughes – Director HRA Chartered Town Planning & Environment Consultants

Ms Michele Connolly – Former partner in KPMG and Head of Global Infrastructure

Mr Feargal O'Rourke – Chairman of IDA Ireland

Mr Eamon Booth – Former MD of John Paul Construction

Ms Imelda Mannion – Former Jacobs VP for Global Programme Management.

### Ex-officio members:

Mr Michael Nolan – Chair of Major Projects Advisory Group

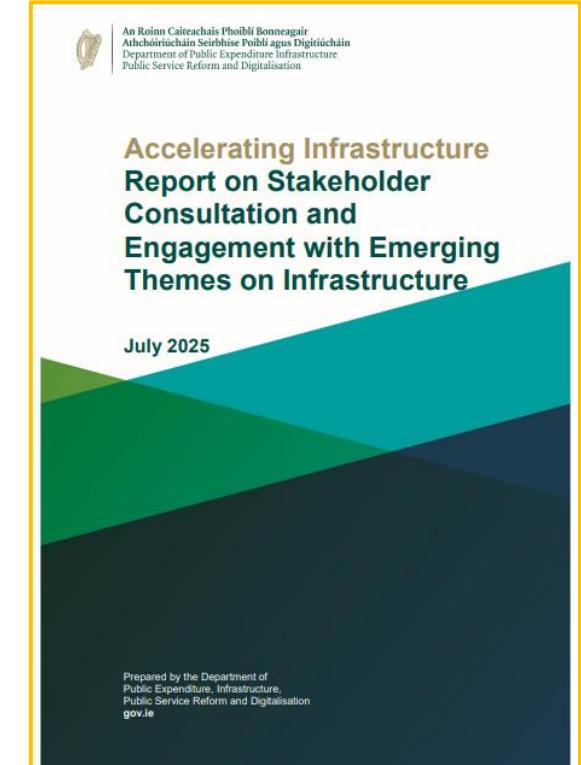
Mr Niall Gleeson – CEO of Uisce Éireann

Mr Nicholas Tarrant – MD of ESB Networks

Mr John Coleman – CEO of Land Development Agency

Mr Hugh Creegan – Interim CEO of National Transport Authority

Mr Michael Walsh – Former Waterford County Council CEO



# Accelerating Infrastructure Report and Action Plan\*

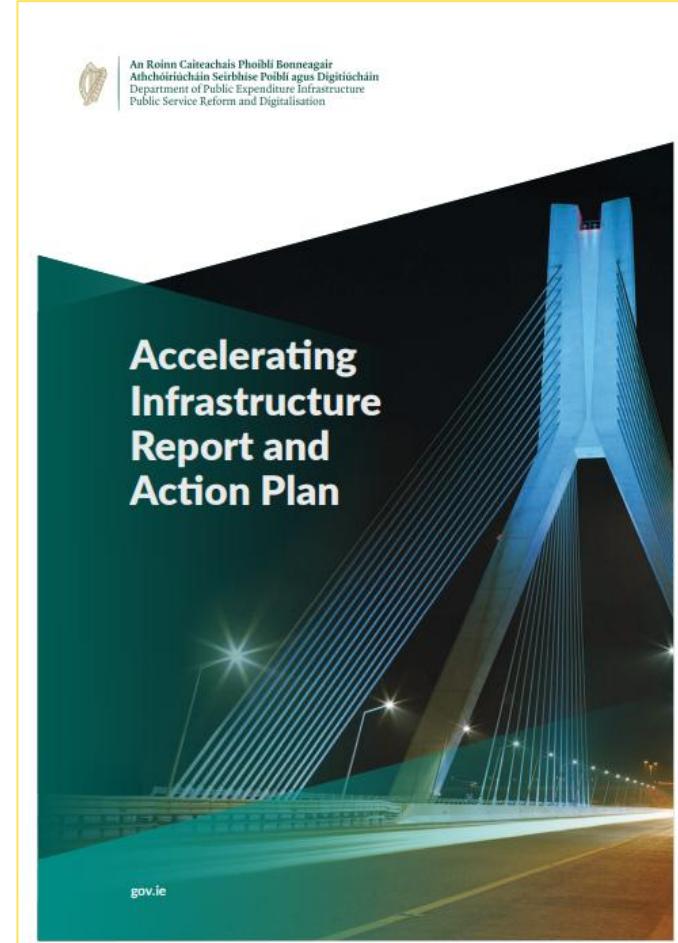


## ➤ Blueprint for Reform - Pillars

- Pillar 1: Legal Reform
- Pillar 2: Regulatory Reform and Simplification
- Pillar 3: Co-ordination and Delivery Reform
- Pillar 4: Public Acceptance

## ➤ Action Plan – 30 Actions

## ➤ Next Steps – Publication and Implementation



\* Link to report: [Accelerating Infrastructure Report and Action Plan](#)

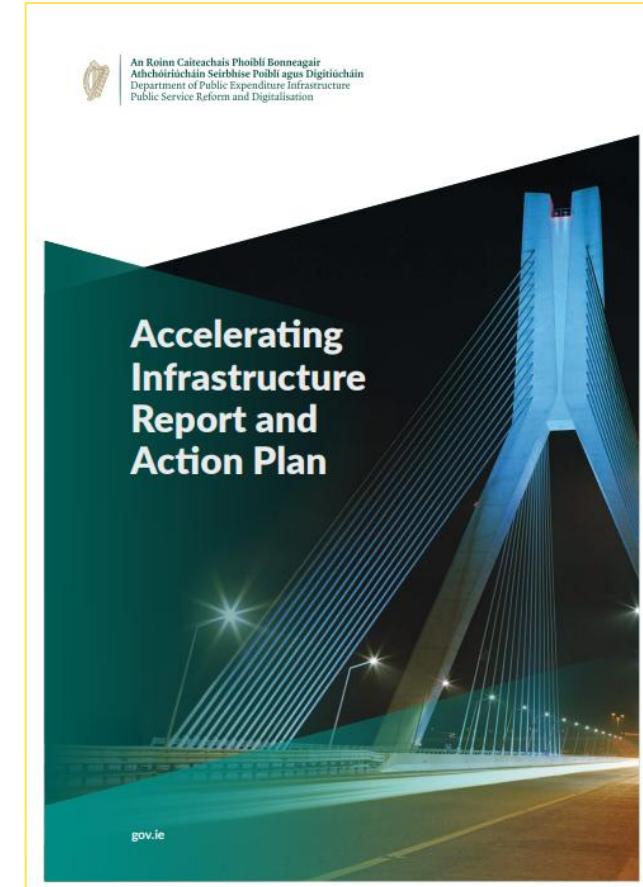
# Accelerating Infrastructure Report and Action Plan Potential Benefits

- Commitment from State bodies to facilitate the transfer of state lands To ESB and Uisce Eireann at an accelerated pace
- There is potential to engage with TII to access roads for critical infrastructure such as DSO circuits
- There is the potential to reduce the consenting time of DSO projects from 46 weeks to 12 by way of Local Authority applications
- Local Authority Masters Plans will now include a provision for Utilities going forward.

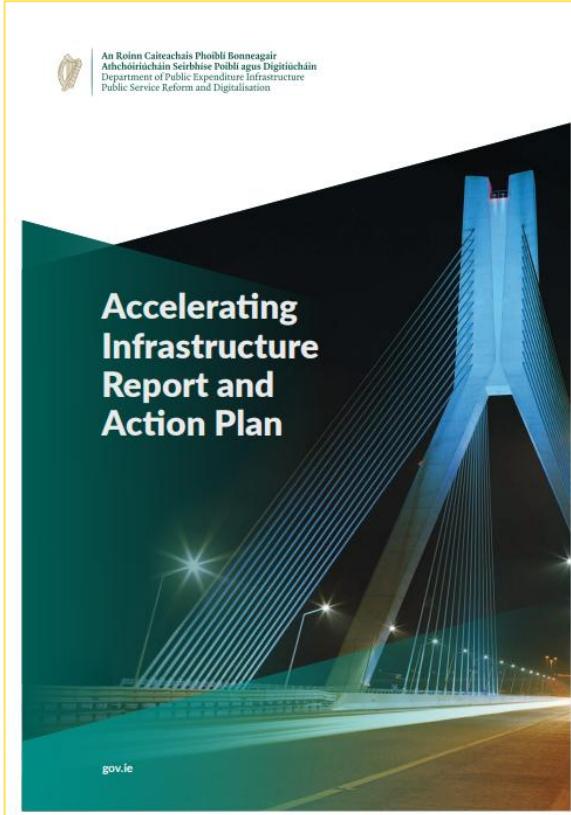
Housing Activation Office

Uisce Éireann, ESB Networks, National Transport Authority, and Transport Infrastructure Ireland

\* Link to report: [Accelerating Infrastructure Report and Action Plan](#)



# Planning Pack and SID Submissions



Substation	Status:
Steevens Lane 110 kV / MV Substation	SID Screening Application with ACP for determination
Belmayne 110 / 38 kV / MV Substation	SID Screening Application with ACP for determination
Courtstown 110 / 38 kV / MV Substation	SID Screening Application to be submitted in December 2025
Clonroosk 110 / 38 kV & 110 kV / MV Substation	SID Screening Application to be submitted in December 2025
Rathcooney 110 kV / MV Substation	SID Screening Application to be submitted December 2025
Grangegorman 110 kV / MV	SID Screening Application to be submitted in Q1 2026
Leopardstown 110 kV / MV Substation	SID Screening Application to be submitted in Q1 2026
Ridgewood 110 kV / MV	SID Screening Application to be submitted in Q1 2026
North East Cashel / Killhill 110 / 38 kV Substation	SID Screening Application to be submitted in Q1 2026
East Galway 110 / 38 kV / MV Substation	SID Screening Application to be submitted in Q2 2026
Carhoo 110 kV / MV Substation	SID Screening Application to be submitted in Q2 2026
East Athlone 110 kV / 38 kV / MV	SID Screening Application to be submitted in Q2 2026
Navan 110 kV / 38 kV / MV	SID Screening Application to be submitted in Q2 2026
Bishopstown 110 kV / 38 kV / MV Substation	SID Screening Application to be submitted in Q2 2026
South East Carlow 110 kV / MV Substation	SID Screening Application to be submitted in Q2 2026
Ballinacurra 110 kV / MV Substation	SID Screening Application to be submitted in Q2 2026
Nexus Cherryhound 110 kV / 38 kV / MV Substation	SID Screening Application to be submitted in Q2 2026

The above list of projects will need an SID application however could go to Local Authority if Action Plan is successful

- JR reforms
- Infrastructure Co-ordination – role of DPER going forward
- Regulatory Simplification Unit
- National Planning Statements
- Public Acceptance and Civic Engagement - Benefits Realisation Framework, Communications, Strengthen political, civic society, and senior leadership support
- Enhancing Co-operation Between Utilities and Local Authorities



\*This list is not exhaustive; there are a range of other important actions and sub-actions that will also have a material impact as they are delivered.

Thank you