

Acceptance of Transmission

**Claire Kane, Customer Relations Manager,
EirGrid, Sep 29th, 2010**



Agenda

- Role of EirGrid and ESB Networks
- Challenges
- How we are responding
- Communications Strategy
- Rollout of Grid25

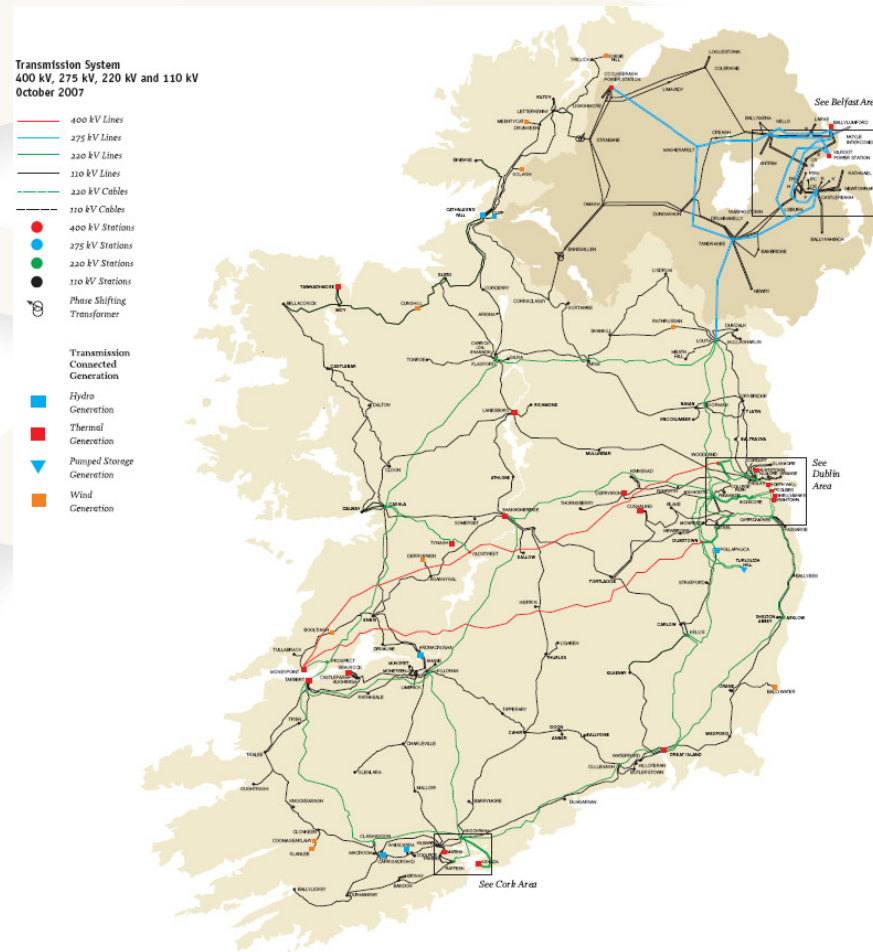


EirGrid

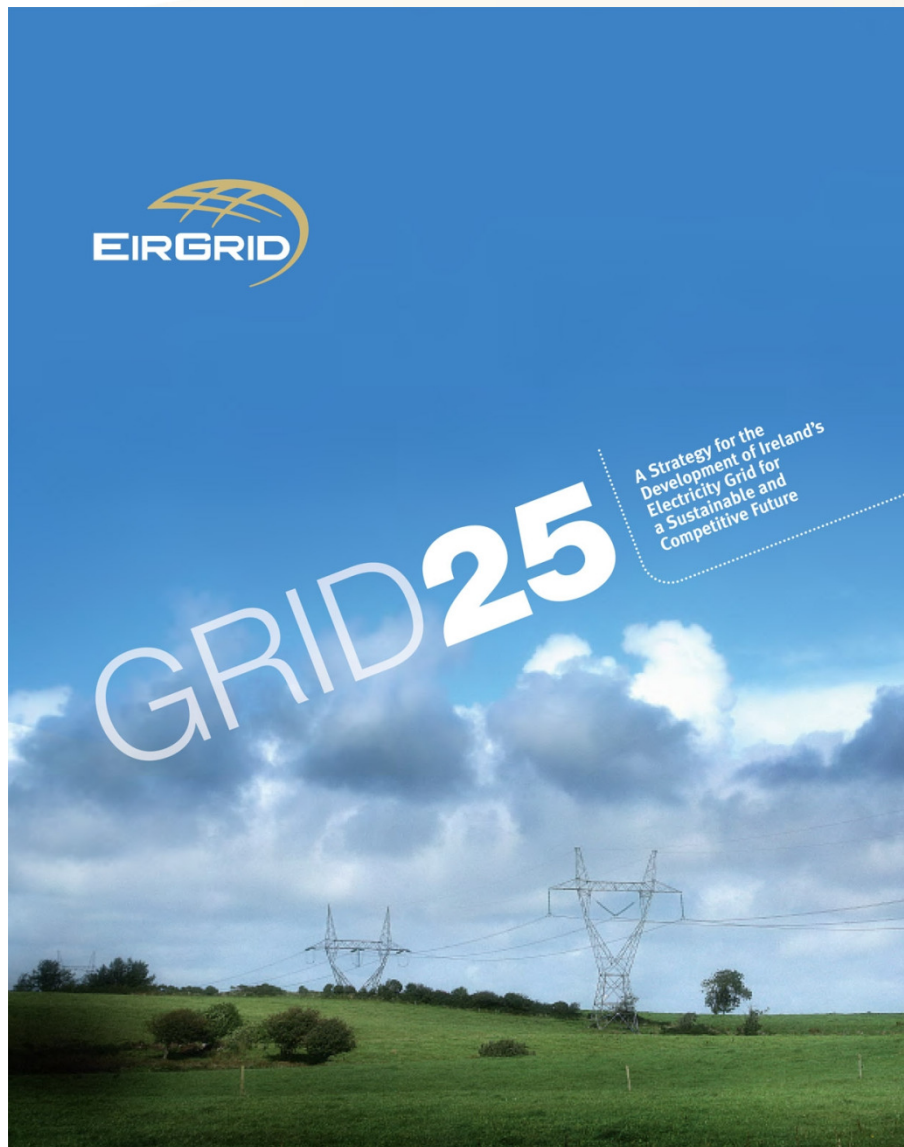
- Ireland's Independent Transmission System Operator and Operator of the Wholesale Power Market
- Commercial State owned Company
- Separate from all parties in the electricity market
- Established by statute as TSO and licenced by Commission for Energy Regulation (CER)



Transmission System



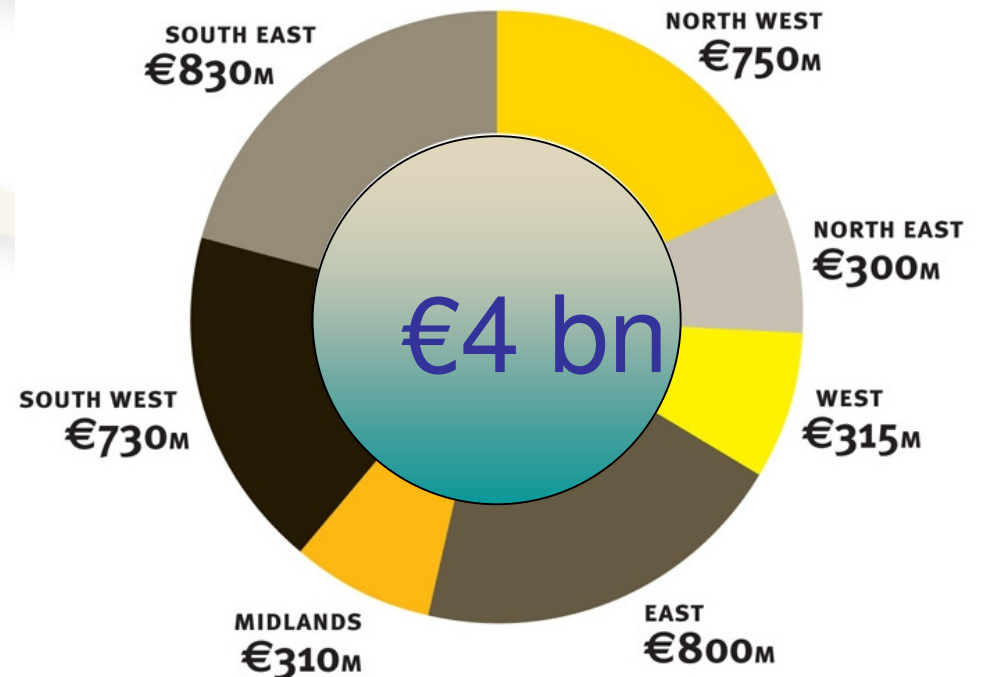
Grid Development Strategy – Grid25



2,200 km Upgrades

1,150 km New Build

€4 billion



Challenges



400kV Projects in North East

Pylon protesters hit out at EirGrid 'harassment'

By Evan Short

Senior Rep

The North campaign in the North concerned by agents' properties. The land a letter from landowner agents who discuss the head elect property.

A spoke Concern properties prior notification people live. "We've v

them to stop doing this and that landowners should be visited only

engineer, said: "EirGrid has written to landowners letting them know

Anti-pylon campaign

gaining momentum

BATTLE TO HALT EIRGRID OVERHEAD POWER-LINES

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€5

By PATSY McARDLE

MEMBERS of the North East Pylon Pressure campaign (NEPP) will meet the Minister for Energy, Mr. Eamon Ryan TD, and the Chief Executive of EirGrid, Mr. Dermot Byrne in Dublin tomorrow (Friday) at

BARRY

USING for a electrici Tyrone

more than putting them overhead, a new report says.

National grid operator Eirgrid plans to build a 70km high-voltage electricity connector through Meath, Cavan, Monaghan, Armagh and Tyrone over the next three years.

It will be part of the national grid, the core of the electricity distribution network. Local people want the State agency to run the power lines underground for

the technology was re new.

According to Mr Winifred options will affect environment.

Laying underground would involve a level of dis similar to building a mo although it would be sho. Along with this, excavation hit archaeological sites.

Overhead lines would digging foundations every

undergrounding issue, we are currently finalising our own site specific report and will publish it within the next number of weeks."

"Our panel of international experts, with more than 40 years experience, have reviewed Askon's report and feel there are

NEPP accuses EirGrid of "lies and distortions"

"HAVING lost the public debate about technical feasibility and affordability of underground cables compared with giant pylons and overhead wires, EirGrid has decided to resort to downright lies and

plan is that major sections of it will be laid underground, in order to return areas of open countryside to their natural and unspoiled aspect. The government has not allocated DKK 14.5 billion (€ 1.95 billion) to

Local Fine Gael deputy Seymour Crawford congratulated the NEPP on getting together the funds and expertise to commission the study, which, he said, added a lot to the discussion of the differences between the options and the possibility of putting cables underground.

favours under

POWER COMPANY EirGrid has questioned the findings of a consultants' report recommending that overhead transmission lines proposed for counties Meath, Cavan and Monaghan be run underground.

The company said last week that the report - prepared by German based Askon Consulting - was based on incorrect assumptions about the Irish electricity grid, and the conclusions were therefore flawed. The study was commissioned by the North East Pylon Pressure Group, which is opposed to overhead lines, and was first released last October.

An EirGrid spokeswoman said last week that the company had not

BY IAN CAMERON

MEMBERS OF the North East Pylon Pressure campaign (NEPP) will meet the Minister for Energy, Eamon Ryan TD, and the Chief Executive of EirGrid, Dermot Byrne, in Dublin today (Friday) at the Dorset.

pendent advice from international experts that backs our case that underground cables are cheaper, safer, more reliable and more environmentally friendly. "We want Eamon Ryan and EirGrid to listen carefully to what we have to

Group on Health Effects of Electro Magnetic Fields, has been gathering dust on the desk of Energy Minister Eamon Ryan TD since it was given to his department more than a year ago.

"The group involved leading

dergrounding would soon be released. The report is being compiled by experts with more than 40 years experience and they have found "fundamental errors" in the NEPP's report on the merits of underground power lines.

Pylon protesters get their meeting with energy minister

Public Acceptability



[Link1](#)



[Link2](#)

Common Challenges

- Many countries share Ireland's experience of growing public objection to overhead power lines, particularly NW Europe
- EMF is only a public concern in a subset of these countries. However some countries (Belgium, France) report objections to underground cable due to EMF
- 6 years to achieve consent, followed by 2 years to construct, is commonly reported for large projects
- In all countries, getting to planning consent is reported to be the problem.
No countries appeared to highlight the post-consent period as a problem area
- A number of countries are adopting undergrounding of lower voltage networks, to varying degrees, as a solution to overhead high-voltage build. E.g. "no net increase in overhead length"
- Various initiatives are underway to address consenting process and delays



How are we responding?



EirGrid Organisational Change

- Programme Management Office
 - Coordinate the delivery of the Grid 25 Programme
 - Monitoring and reporting
 - Specialist support and training
 - Stakeholder Interaction
- Three Regional Groups



Balancing Conflicting Objectives

Security & Reliability



Costs & Efficiency



Community & Environment



Planning Environmental Policy

- Strategic Infrastructure Act
- Regional Planning Guidelines
- County Development Plans
- Habitats Guidelines
- Strategic Environmental Assessment
- An Bord Pleanála



Strategy Prior to Public Consultation on a scheme

- Continue to Build Awareness
- Continue strategic input to Policy
- Complete SEA Process
- National Stakeholder Forum
 - Develop National/EirGrid Policy Guidelines
- Regional Stakeholder Forum
- Regional Consultation
- Commence Consultation of Schemes



Success Stories

- Tarbert-Tralee
- Newbridge
- Donegal
- Galway
- Flagford-Srananagh



Communications Strategy

- Local Events - Ploughing Championship



Communications Strategy

- Local Events – Fleadh, Cavan



Delivering quality environmentally friendly,
transmission and market services to generators, suppliers and customers...



- [Cavan Tyrone](#)
- To learn more about the proposed electricity lines in Co.Cavan and Co. Tyrone.



- [Clashavoon Dunmanway](#)
- Learn more about Clashavoon Dunmanway.



- [Cork Harbour](#)
- Connections of two new power generators and developing the transmission system



Stakeholder/Public Engagement

- National Forum
 - Dublin – May 24th
- Regional Forums
 - Killarney – July 23rd
 - Waterford – October 15th
 - Carlow – October 29th
 - Castlebar – November 12th
- Project Open Days (July – Oct 2010)
 - Millstreet, Macroom, Tarbert
 - Portlaoise, Kilkenny, Listowel

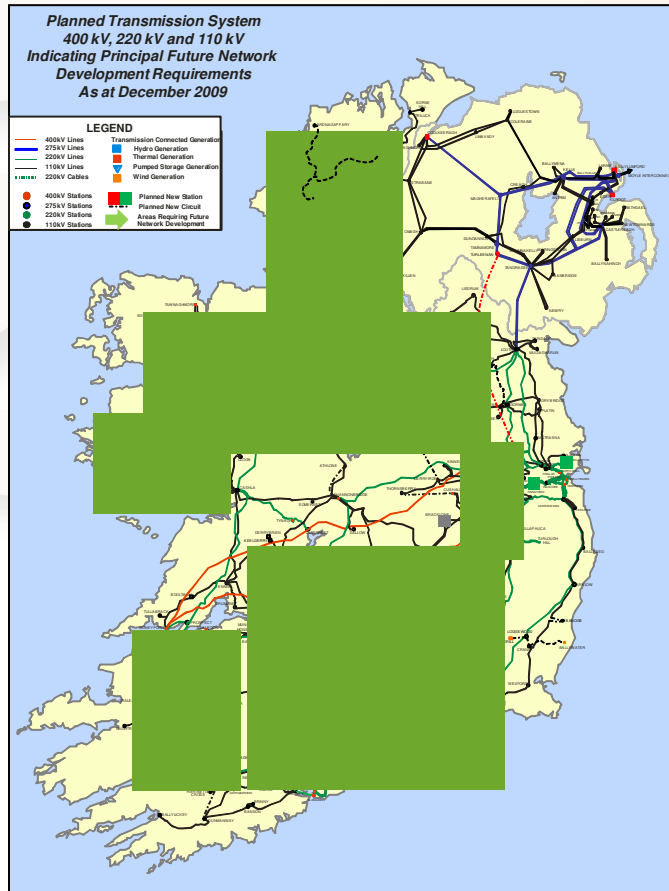


Communications Strategy

- Ad campaign
- Schools Programme
- Website information
- Events
- Grid25 Bulletin



Transmission Projects included in PR3



| | 400 kV / 220 kV/ 110 kV |
|-----------------------------------|-------------------------|
| No. of New Stations | 13 |
| Overhead Line | 1200 km |
| Underground Cable | 100 km |
| No. of New Transformers | 30 |
| No. of New Capacitor Banks | 14 |
| Upgrades | 1900 km |

EIRGRID

•October 10

Transmission Projects in Progress

| | 400 kV / 220 kV/ 110 kV |
|-----------------------------------|-------------------------|
| No. of New Stations | 16 |
| Overhead Line | 610 km |
| Underground Cable | 33.1 km |
| No. of New Transformers | 17 |
| No. of New Capacitor Banks | 12 |
| Upgrades | 665 km |

Grid25

- Communications Strategy
- Stakeholder Engagement
- Major Schemes – Ongoing Analysis
- Projects under construction



Participants

- **Austria** (VKW-Netz)
- Belgium (Elia)
- **Denmark** (Energinet.dk)
- Estonia (OÜ PÕHIVÕRK)
- **France** (RTE)
- Finland (Fingrid)
- **Germany** (E. on Netz, Vattenfall Europe Transmission, **RWE Transportnerz Strom**)
- Greece (HTSO)
- **Ireland** (EirGrid)
- Italy (Terna)
- Latvia (Latvernergo JSC)
- Lithuania (Lietuvos Energija AB)
- **Netherlands** (Tennet)
- Poland (PSE-Operator)
- **Portugal** (REN)
- Slovenia (ELES)
- **Spain** (REE)
- **Sweden** (Svenska Kraftnät)
- Switzerland (Swissgrid)
- **UK** (National Grid)

