

ALSTOM IRELAND

Managing Director

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ALSTOM

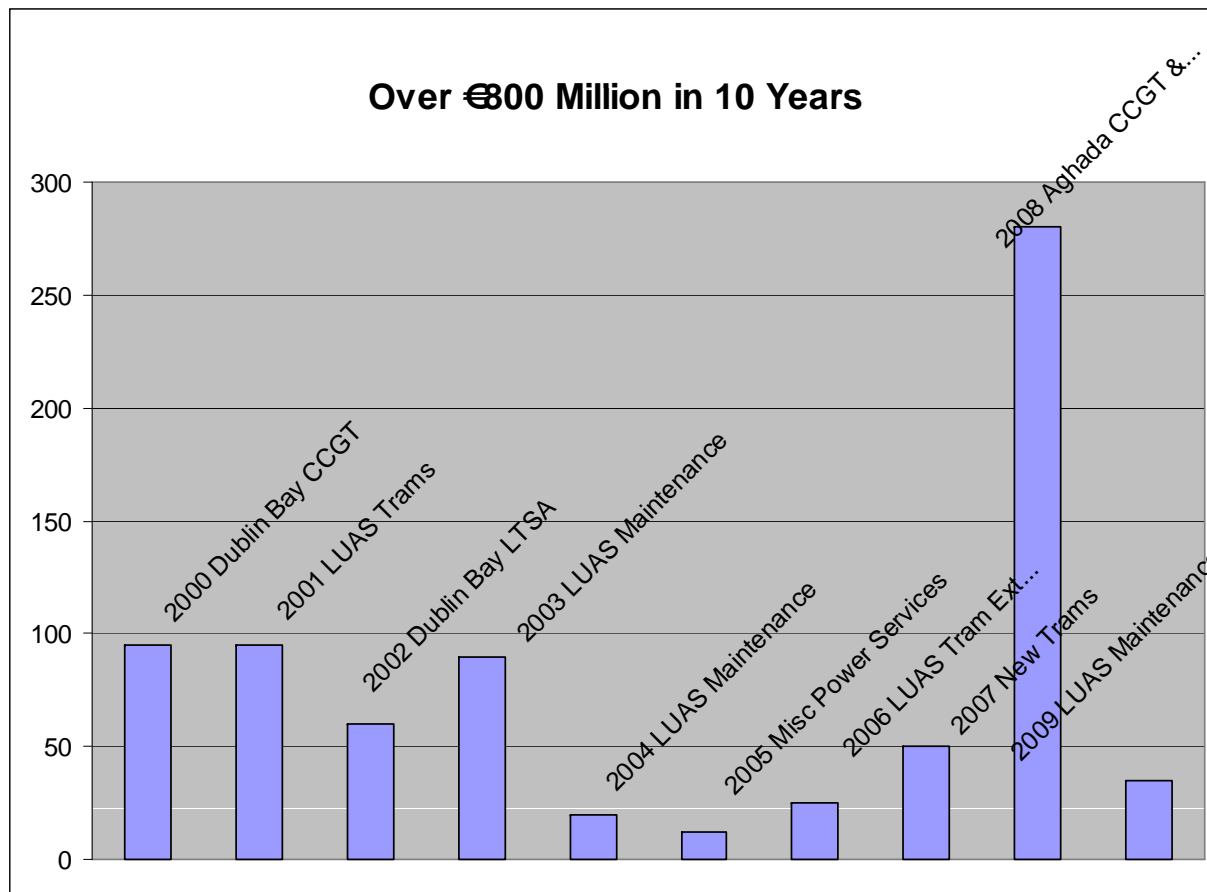
Alstom In Ireland

- In Ireland, ALSTOM has been involved in power projects since the 1940's with the construction of some of ESB's early hydro plant and in the supply of transport rolling stock since the early days of CIE.



ALSTOM Orders in Ireland

€800 M 2000 to 2009



The Celtic Tiger has been good to ALSTOM!

Energy – Power Generation

- Progress
 - Most of the aging ESB fleet replaced with more efficient gas fired power plants. Moving from 30% efficient to over 55% efficient
 - Alstom's latest CCGT in Aghada Co Cork, supplies 10% of the country's needs at 59% efficiency.
 - Deregulation, more competition into market.
 - All Island Market Republic of Ireland and Northern Ireland
 - Network upgrades.
 - Incentives towards renewable energy.

Energy – Power Generation

- Future Issues
 - Energy demand has stagnated so new entrants reluctant to invest in new equipment.
 - Ireland is not well connected with UK or mainland Europe so cannot rely on backup power from other countries.

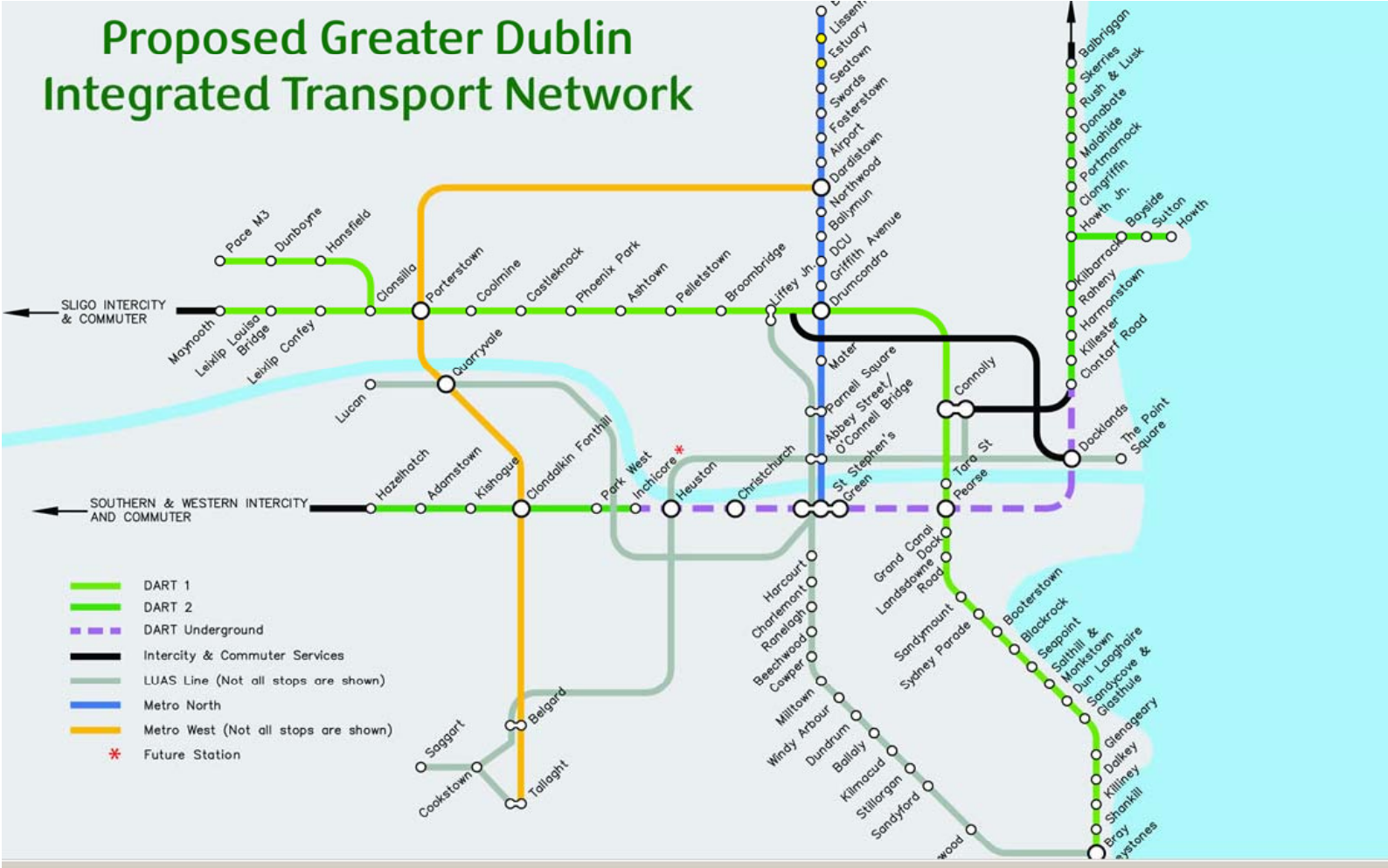
All wind installations must be backed up with inefficient fast start thermal plant.

- Wind energy is best on the west coast of Ireland

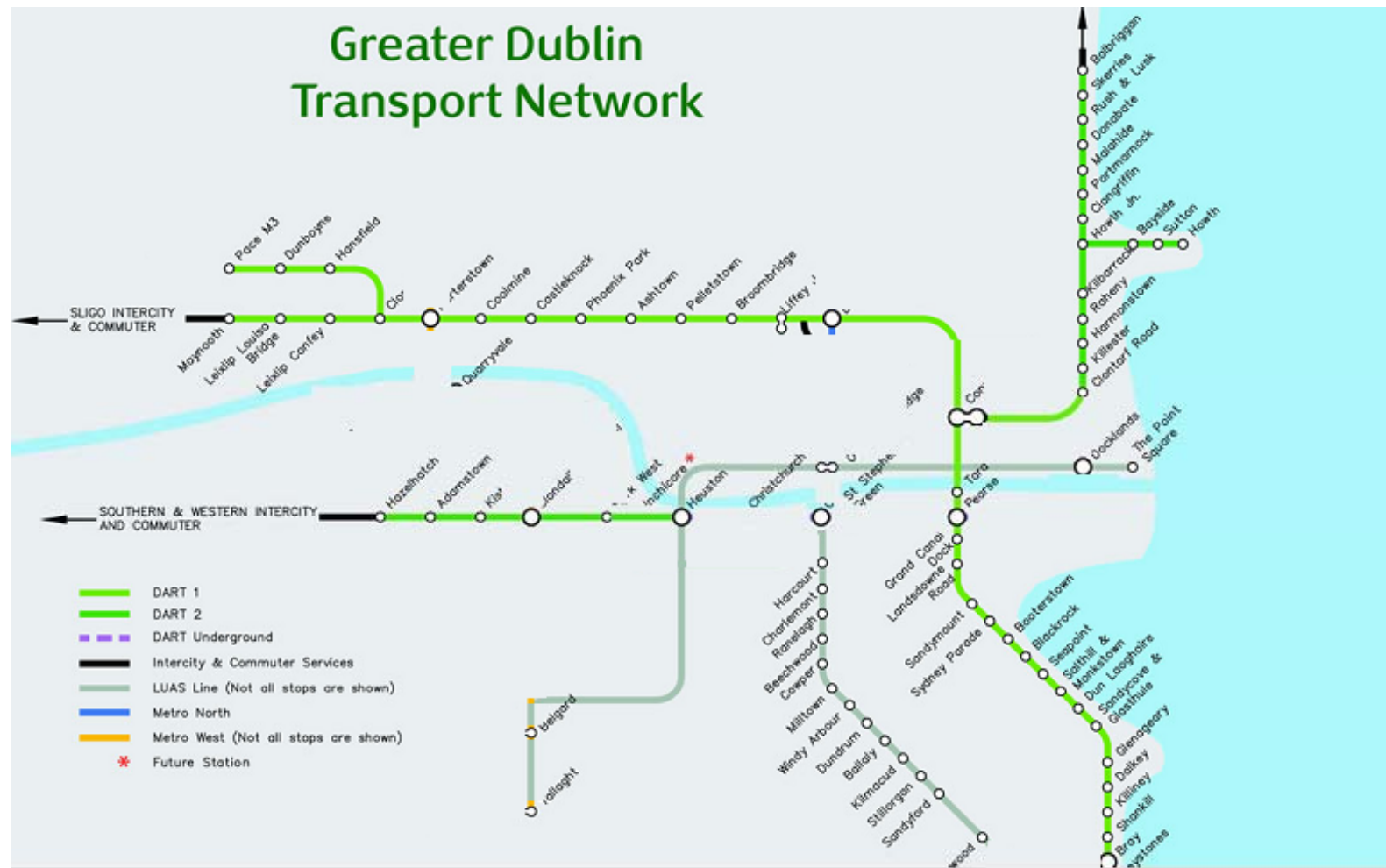
Significant network investment is required to bring the power to the populated

- ^{east coast} Security of Supply

Electrical Interconnectors to UK and France or large investment in LNG?



Dublin Transport - Progress



Transport – Impediments to Progress

- PPP Finance Under Treat

- Private funding costs increased by 150 to 200 bp
- Banks not syndicating – difficult to raise funding for large projects.

Possible increased Government borrowing instead?

- Ireland – Too many competing agencies

- To build Metro North involves

- The Department of Transport, The Railway procurement Agency, Dublin City Council, Fingal Country Council, The Dublin Transport Office, The Dublin Transport Authority, Irish Rail, Dublin Bus, Dublin Chamber of Commerce, etc etc.

New National Transport Authority set up to coordinate

Summary – Infrastructure Ireland

- Limited investment in infrastructure from 1940's to late 80's
- Impressive achievements in past 15 years – especially roads.
- Modernisation of energy platform proceeding well.
- Energy regulation may be too “light touch” for island nation.
- Can we afford the subsidy for renewables?
- Is Ireland's current economic status a bump in the road caused by global issues or longer term problem?