

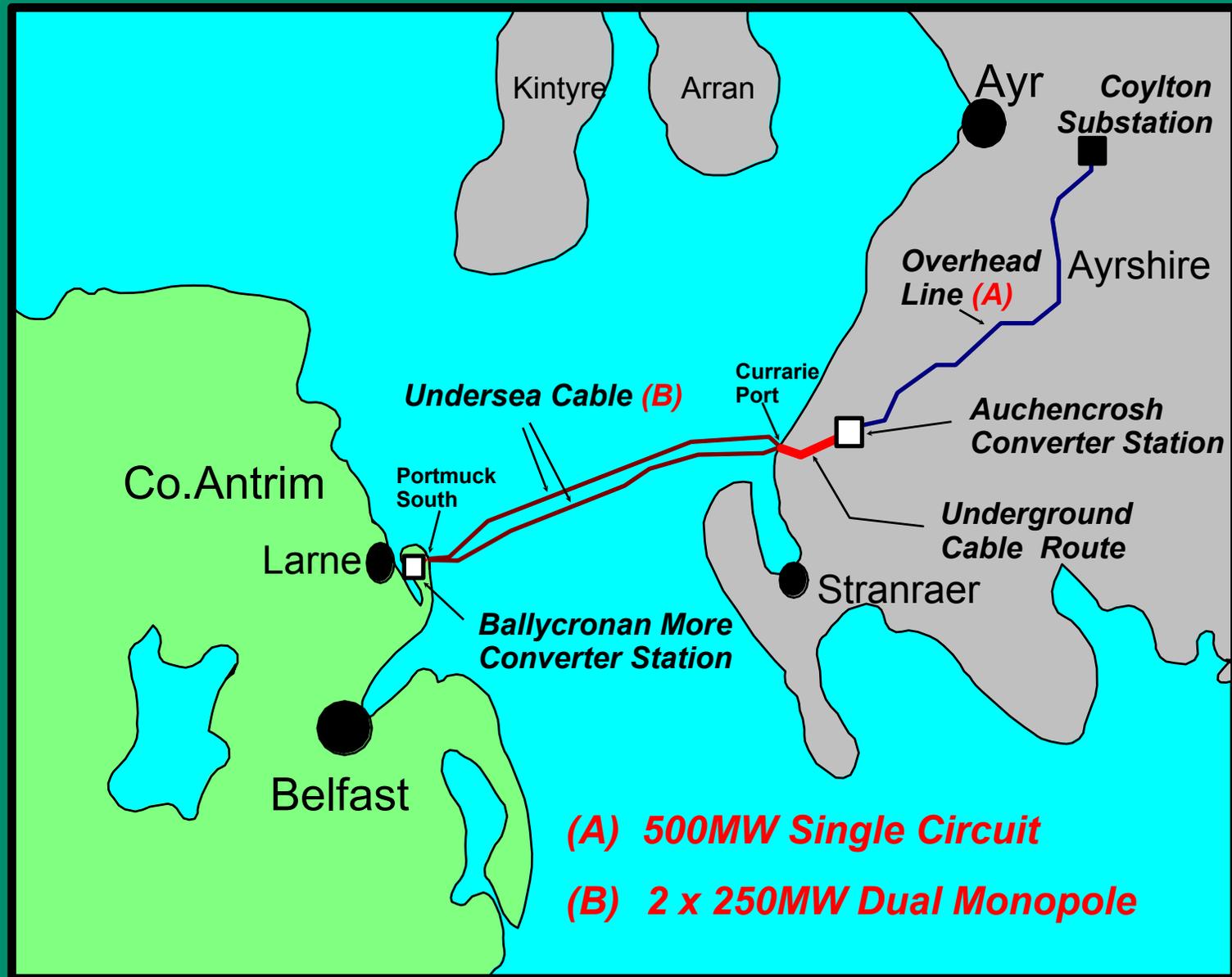
**The Interconnector Forum  
12 September 2002**

# **The Moyle Interconnector**

**Alan Rainey**

**Moyle Interconnector plc**

# The Moyle Interconnector



# Ballycronan More Converter Station



# Direct-light-triggered Thyristor Valve



# Cable Ship Skagerrak



# Coylton - Auchencrosh 275kV Line



# The Moyle Interconnector

## Ownership and Contracts - 1

- ◆ **Re-financing proposal to reduce cost to customers**
  - Ofreg consultation paper 10 September 2002
  - 100% debt finance
  
- ◆ **Ownership**
  - asset owner is Moyle Interconnector plc (Moyle)
  - Viridian Group PLC subsidiary at present
  - proposal to move to not-for-profit Customer Trust

# The Moyle Interconnector

## Ownership and Contracts - 2

- ◆ **Moyle revenue**
  - charges to Capacity Acquirers following capacity auctions
  - TUs contribution
  
- ◆ **Changes to Moyle Interconnector Capacity Agreements**
  - present contracts with NIE, proposed to be directly with Moyle
  - need for Capacity Acquirers to have credit rating or provide credit support (LoC, bank guarantee)

# The Moyle Interconnector

## Design Performance

	Forced Energy Unavailability (%)	Scheduled Energy Unavailability (%)
Converter Stations	0.5	1.0
Cables	0.6	0
Overhead Lines	0.3	0.6
Overall	1.4	1.0

# The Moyle Interconnector

## Performance during Trial Commercial Operation

- ◆ **1 January – 9 April 2002**
  - defect clearance, teething problems
  - 2 month available capacity reduction to 250 MW
  - 73% availability based on 500 MW capacity (84% on contracted capacity)
- ◆ **Converter station noise**
  - attenuation measures installed requiring pole outages
- ◆ **Converter station fault**
  - design defect rectified during planned outages for noise attenuation measures
- ◆ **Scottish 275 kV line forced outage during January storm**
  - defects rectified during planned outages
- ◆ **Minor control and protection defects**
  - short duration unavailability, now rectified

# The Moyle Interconnector

## Performance during Full Commercial Operation

- ◆ **10 April 2002 to date**
  - 2 day planned outage during July holiday period
  - no other incidents
  - 98.7% availability to date based on 500 MW capacity (99.2% on contracted capacity)
  - possible minor outage in September
  - 400 MW capacity with design availability expected for winter period

# The Moyle Interconnector Planned Maintenance

- ◆ Provisional outage plan 2003/04
  - 1 pole (250 MW) outage 09-13 June 2003
  - 1 pole (250 MW) outage 30 June – 4 July 2003
- ◆ Overhead Line outages under discussion with ScottishPower

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