

Curraghmulkin  
Information  
Document

110kV Renewables Cluster  
Project  
September 2015



The current. The future.



The current. The future.

### Who We Are...

SONI is the System Operator for Northern Ireland. We plan, manage and operate the electricity transmission grid. This means we are responsible for a safe, secure and reliable supply of electricity: Now and in the future. We are regulated by the Utility Regulator for Northern Ireland.



SONI Ltd Headquarters, Castlereagh House, Belfast

### Our Proposal...

This is a project of strategic importance: It will improve our electricity transmission infrastructure. It will also allow us to connect with renewable energy sources in County Tyrone.

To do this we are:

- Proposing to construct a new 110/33kV Cluster Substation in the townland of Curraghermulkin (west of Omagh), County Tyrone.
- Proposing to construct a new 110kV Switching Substation in the townland of Shannaragh (northeast of Dromore), County Tyrone.
- Proposing to construct approximately 10 kilometers of 110kV overhead transmission line to connect the two substations.

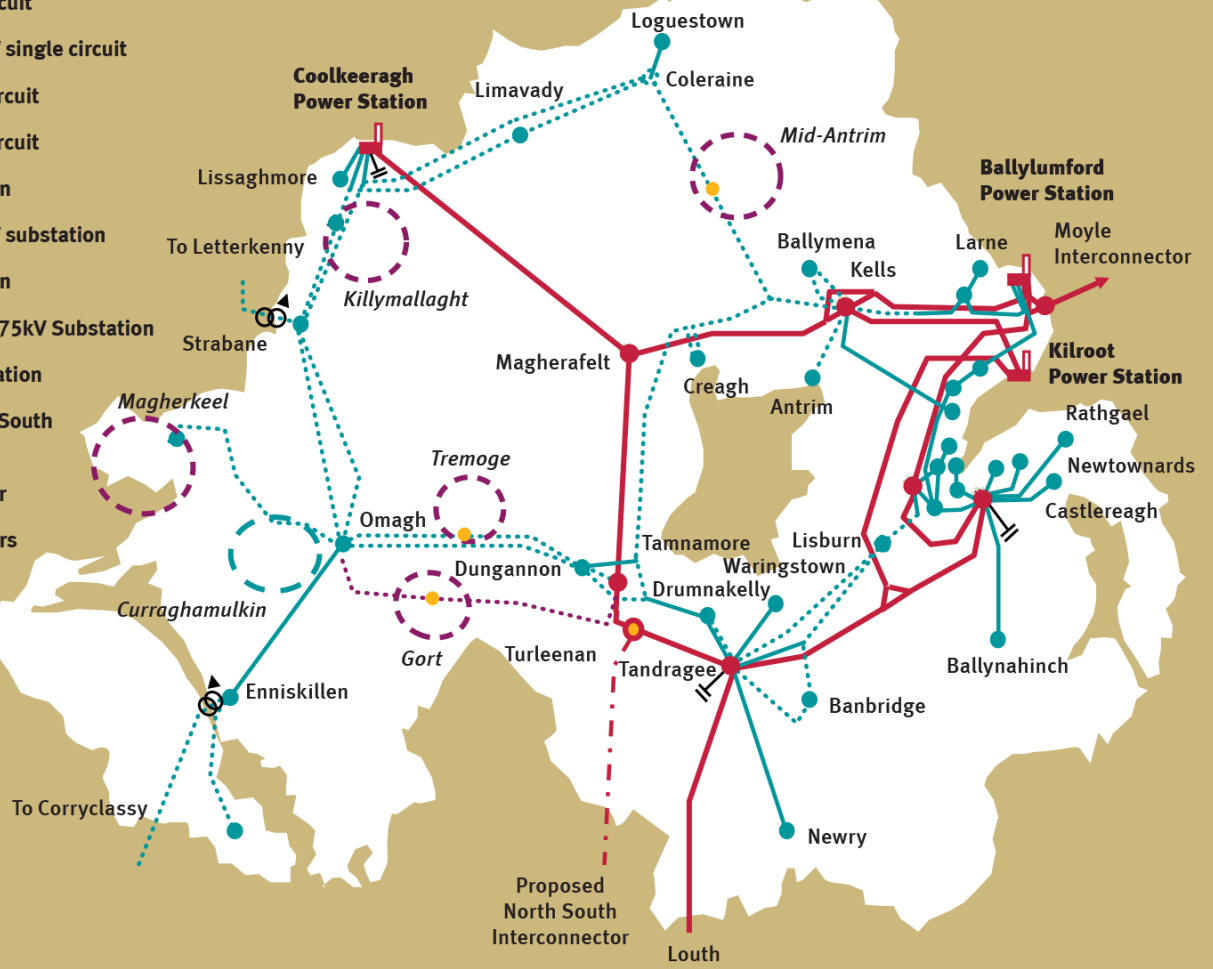


A typical 110kV overhead line

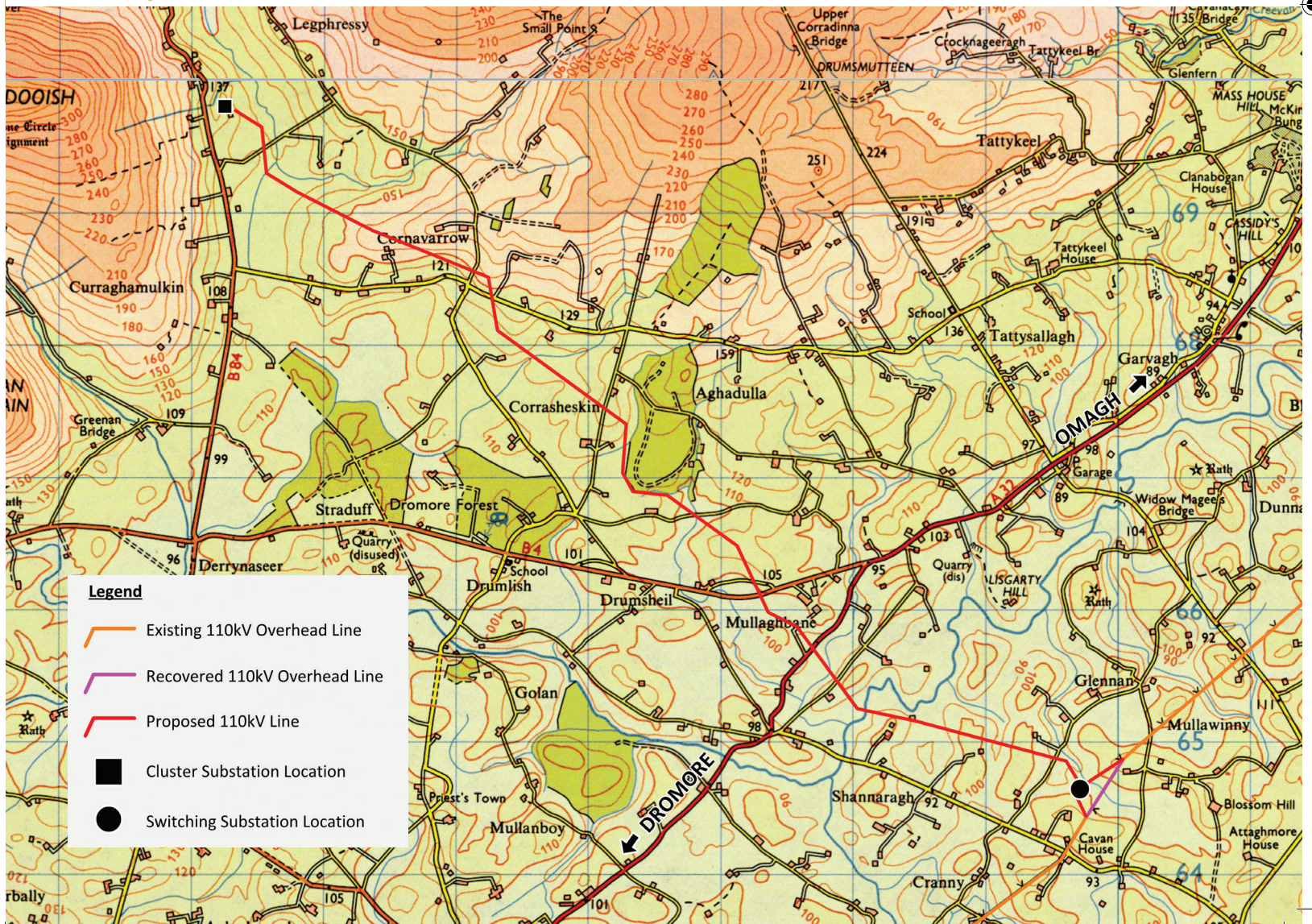




- - - - - 110kV single circuit
- - - - - Approved 110kV single circuit
- 110kV double circuit
- 275kV double circuit
- 110kV substation
- Approved 110kV substation
- 275kV substation
- Proposed 400/275kV Substation
- Proposed Substation
- - - - - Proposed North South Interconnector
- Proposed Cluster
- Approved Clusters



## Proposed Line Route...







The current. The future.

### Our Project And You...

Connecting wind farms to the electricity network is essential, if Northern Ireland is to meet its target of 40% renewable electricity generation by 2020. Europe, UK and local government have passed legislation to help make this happen.

Meanwhile, planning approval has been granted for a number of wind farms west of Omagh, but the electricity that these will produce will exceed the capacity of the existing network and so we need to make some changes.

To ensure this cheap and clean electricity makes its way to local homes and businesses, SONI is proposing a Cluster Substation in the townland of Curraghamulkin.

We believe that this is the most effective and efficient way of connecting the planned windfarms to the electricity grid.

### Next Steps...

A planning application will be submitted to Fermanagh and Omagh District Council later in 2015. Both substations and associated transmission circuit could be operational as early as 2017.

### Get In Touch...

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