

#### FACILITATING DECARBONISATION AND BENEFITING IRISH CONSUMERS

Irish Renewable Energy Summit – 31 January 2018

Presenter: Mike O'Neill - CEO, Element Power



## **PROJECT OVERVIEW**



#### Greenlink is Ireland's next interconnector







## TECHNICAL PARAMETERS

- 500MW
- HVDC ±320kV single symmetrical monopole
- Voltage Source Convertors

#### **CABLE ROUTE**

- Great Island sub station -County Wexford
- Pembroke sub station –
  Wales
- ~170km of HVDC land and marine cable and ~1km of HVAC

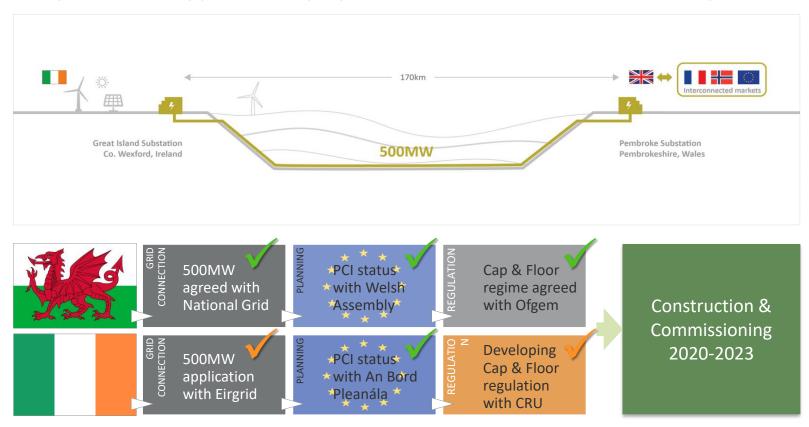
#### **PROJECT TIMING**

- Regulatory finalisation in 2H 2019
- Construction 2020 2023

## **GREENLINK PROJECT STATUS**



Greenlink has made material progress to meet its development goals — subject to CRU approval the project can advance to the construction phase



## **GREENLINK POWER FLOWS**



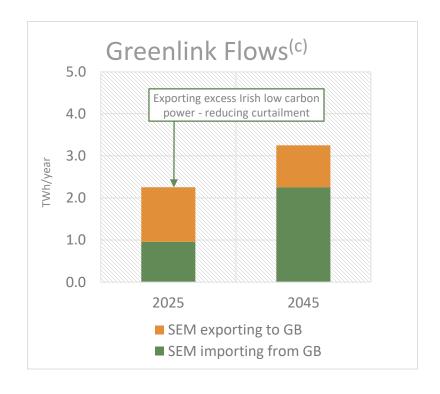
## Greenlink acts as an export route for surplus Irish low carbon power

- Greenlink improves integration of Irish wind by reducing curtailment through 2047 by 5,500 GWh<sup>(a)</sup>
- This allows wind to capture a higher price in GB.
  This value flows through to Irish consumers saving them over €800m<sup>(b)(c)</sup>
- In comparison Continental interconnection would be predominantly a one-way flow into Ireland.





b) NPV@3.5%, real 2017 €



c) Source: Baringa 2017, Greenlink CBA analysis Reference Case

## **BREXIT AND POWER TRADING**



# Post Brexit the UK remains a natural stepping stone to connect to Europe's energy markets

#### In the event of a hard Brexit

- UK and EU are both WTO members
- No tariffs on the trading of interconnector capacity
- ISEM prevails

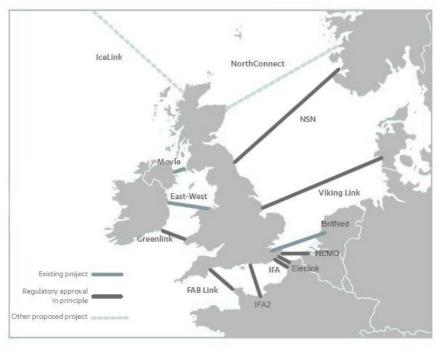
## UK continues to support Greenlink

- PCI status
- Proactive and coordinated approach with CRU

### UK is the third largest generator in Europe

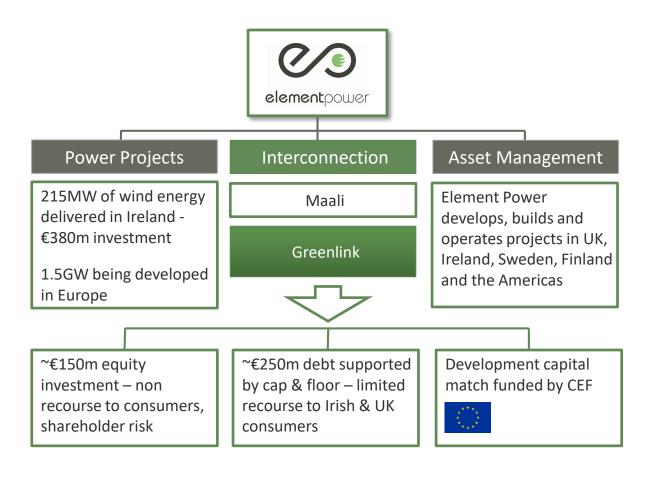
- UK 338.6 TWh cf. Ireland 30.4 TWh
- Forecast 10GW of interconnector capacity with continenta Europe and Scandinavia
- A natural link to Europe that avoids excessive capex and line

#### Existing interconnectors and the future pipeline





## A privately sponsored project – limited recourse to consumers



## **GREENLINK IRISH BENEFITS**



## Greenlink is a cost-efficient source of future interconnection for Ireland



250 Irish jobs during construction



20 permanent Irish jobs



Potential to power 380,000 homes



Savings to consumers of over €800m over life



Enough to power 10 new large data centres



€400m of private capital for Ireland and Wales



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