

# Job opportunities from Ireland's electricity interconnectors

Mitra Kamidelivand, Fionn Rogan and Brian O'Gallachoir

Our 2050 – Final-Project Event, Fitzwilliam Hotel, Dublin | Dec 10<sup>th</sup> 2018



# Analysis & Results



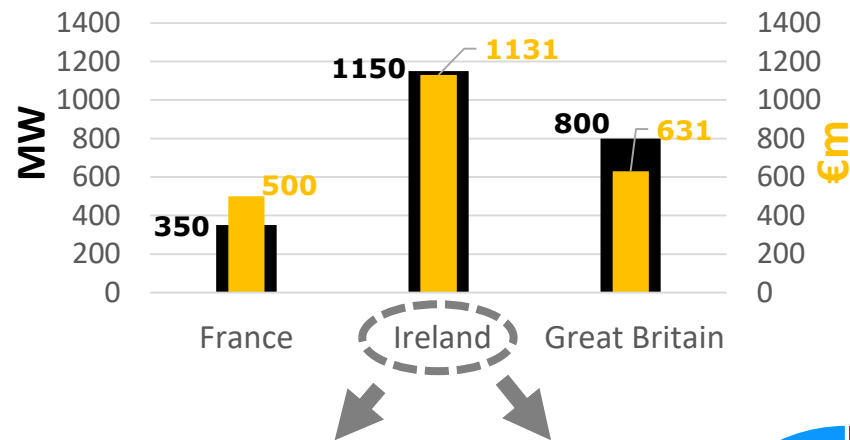
**3454 €/MWkm**  
(North)  
**8407 €/MWkm**  
(Northwest)

**5814 €/MWkm**  
(Wales-Greenlink)

**2380 €/MWkm**  
(France- Celtic)

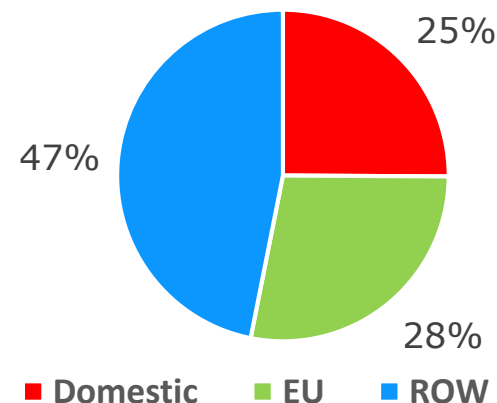


- Domestic and spillover jobs due to the economy interaction between sectors and between countries
- 34,600 global jobs from 3 interconnectors



- **€1131m** Ireland's investment in interconnectors:

✓ **15422 jobs**



## 3,900 direct jobs for Ireland

- 1677 in energy sectors (43%)
- 468 in other manufacturing sectors (12%)
- 1755 in services sectors (45%)

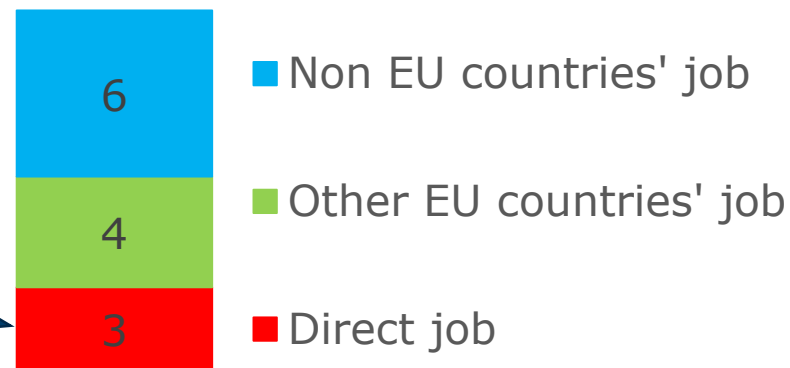
# Opportunities & Impacts



- Direct and spillover employments from investing in interconnectors

✓ 1.3 jobs in energy  
✓ 0.6 jobs in manufacturing  
✓ 1.4 jobs in services

### Jobs per MW interconnectors in Ireland



- Working in a multidisciplinary research environment
- Gaining skills in research methodology



# Policy Insights



- Changes in employment levels in various industries
- Identification of the key winning and losing sectors in developing low carbon energy
  - 2.47 jobs from an additional €1m spending on electricity from imported fossil fuels
  - 4.25 jobs from an additional €1m spending on renewable electricity
  - Net jobs: 1.78 net jobs

# Outputs & Communications



- International Journal
- International conferences
- UCC Climate Lab 2018 Research Open Day
- MaREI Symposium 2018
- Collaboration

**Sustainable Energy Technologies and Assessments**  
Volume 30, December 2018, Pages 1-10

ELSEVIER

A comparative analysis of substituting imported gas and coal for electricity with renewables – An input-output simulation

Mitra Kamidilvand <sup>a, b, c, d, e</sup>, Caiman Cahill <sup>c</sup>, Maria Llop <sup>d</sup>, Fionn Rogan <sup>a, b</sup>, Brian O’Gallachoir <sup>a, b</sup>

ELSEVIER

**1st International Conference on Energy Research & Social Science**  
2–5 April 2017  
Melia Sitges, Spain

**16<sup>th</sup> International Conference on Clean Energy (ICCE-2018)**  
Famagusta, North Cyprus  
May 9-11, 2018

UCC Climate Lab Retweeted

MaREI @MaREIcentre · Jun 12

@james\_glynn opens up the #MaREISymposium18 presentations giving an overview of our #MaREI Energy Policy and Modelling Group who are based in the @eriucc

UCC Climate Lab Retweeted

MaREI @MaREIcentre · Apr 24

#MaREI's Mitra discusses how energy mitigation scenarios can effect various sectors @uccclimatelab

