



# Interconnection in a low carbon future

Liam Ryan  
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Our role is to:

**develop** **manage** **operate**

the electricity transmission grid  
throughout the island of Ireland





A man and a young girl are sitting inside a tent, illuminated by warm string lights. They are both smiling and looking at an open book the man is holding. The tent is made of light-colored fabric, and the string lights are draped around the entrance and interior. A teddy bear is visible on the right side of the tent.

We ensure Ireland's electricity supply is:  
**safe secure reliable**



# Electricity Industry in Transition...



**Renewable  
Integration**



**Consumer  
Engagement**



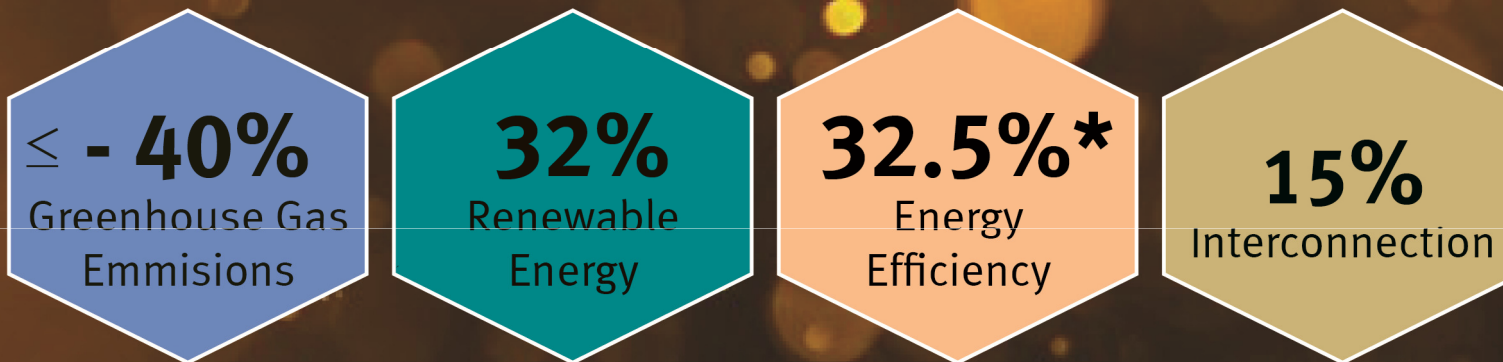
**National and  
International Policies**



**Evolving Electricity  
Markets**



# 2030 Targets

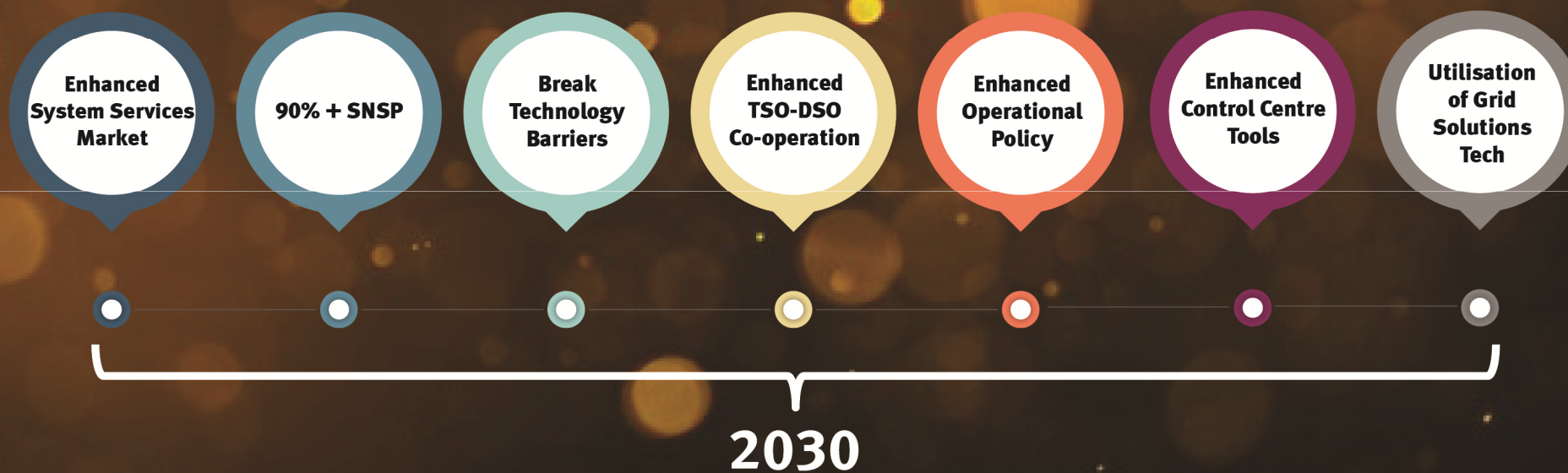


\* To be reviewed by 2020, having in mind an Eu level of 30%



**70% RES-E**

# Transformational change - Towards 2030



# Interconnection Benefits



**Market Integration**



**Climate and  
Environmental**



**Security of Supply**



**European Integration**



**Competitiveness  
and Innovation**

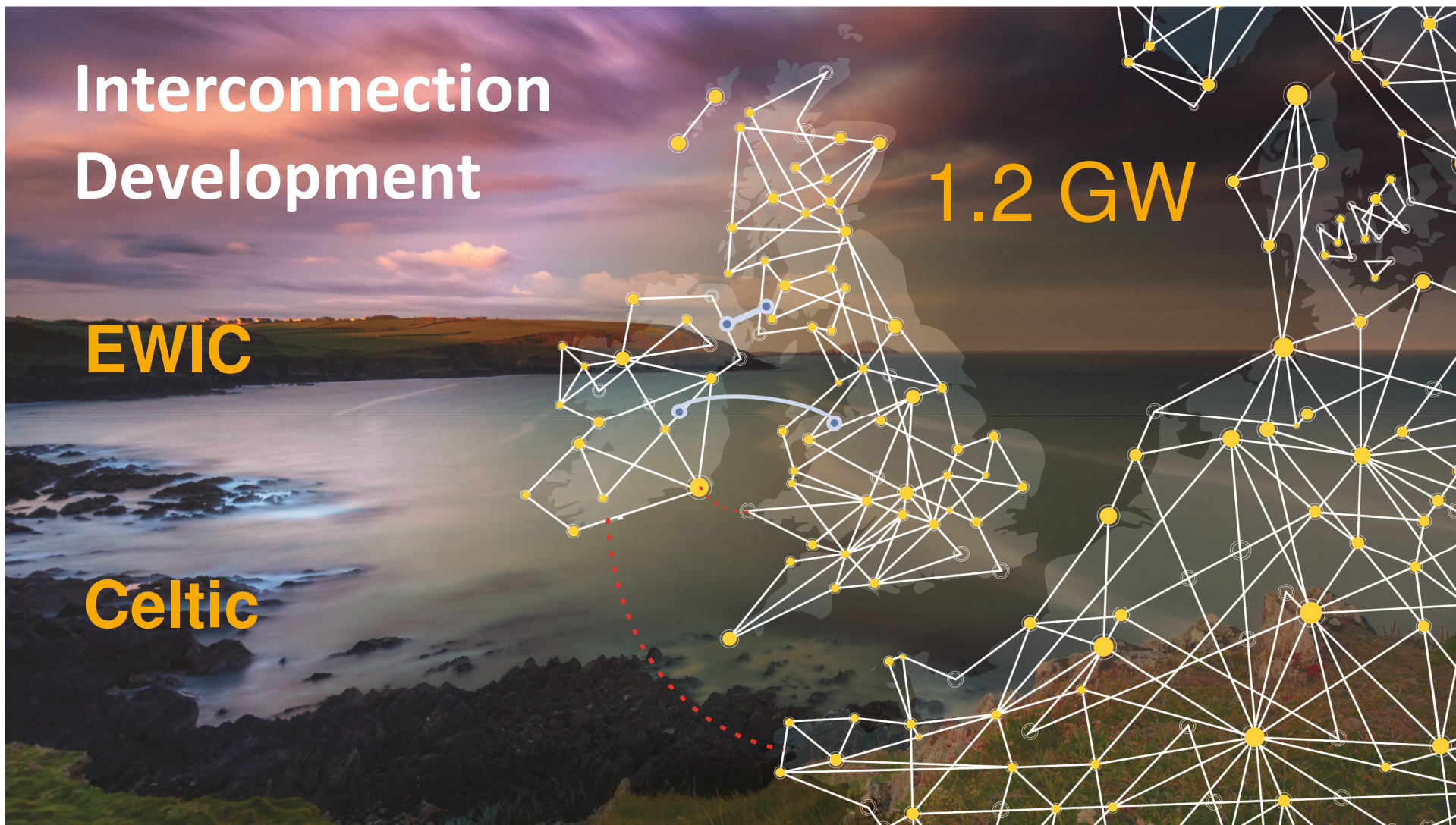


# Interconnection Development

**EWIC**

**Celtic**

**1.2 GW**



# Flexible Use of Interconnection



Ramping



Dynamic Frequency Response



Market Costs



Balancing Services





**Thank you**

**Liam Ryan**  
EirGrid

