

Solar in Ireland: Market Snapshot

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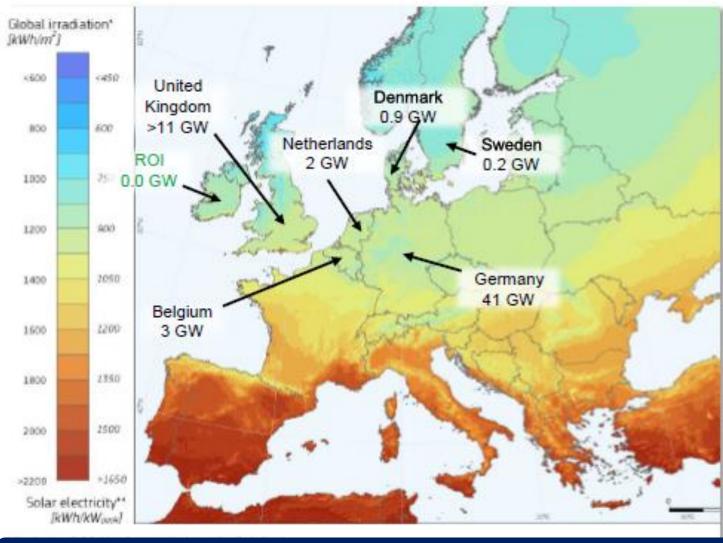
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Irradiation level in Ireland allows for strong PV market

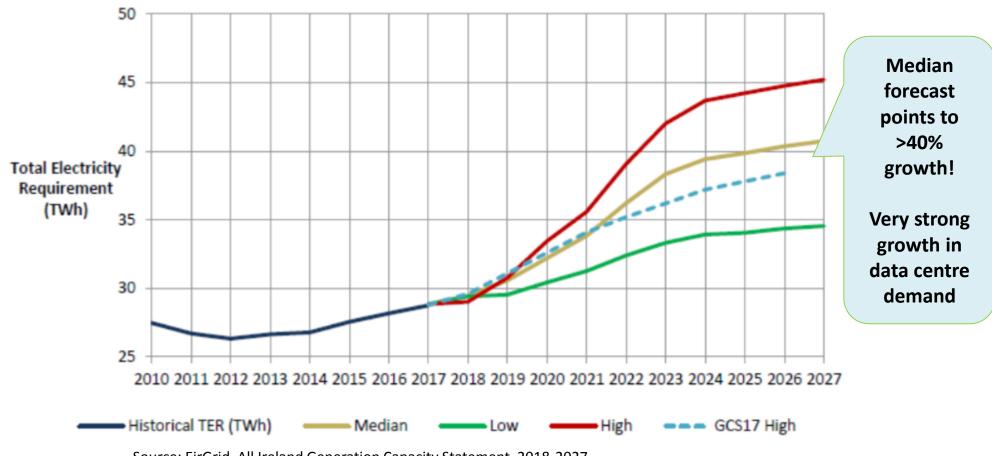


The Republic of Ireland (ROI) is the only West European country without a significant PV market



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Strong forecast growth in demand of electricity



Source: EirGrid, All Ireland Generation Capacity Statement. 2018-2027

Ireland will not meet it's 2020 targets – renewable power generation needs to double.

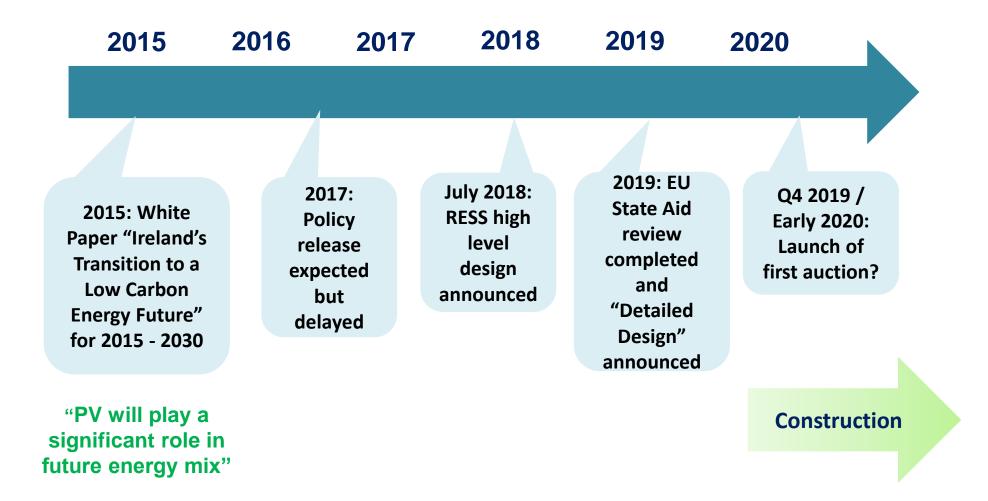
While onshore wind has dominated renewable power generation to date, there is a clear need for new capacity additions in offshore wind and solar PV



Private & Confidential

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Policy support for ROI solar has not yet been implemented



First Renewable Energy Support Scheme (RESS) supported utility scale solar park completions not likely before 2020



RESS High Level Design (ROI)

- 4 5 auctions to deliver 13,500
 GWh between 2020 and 2030
- Technology agnostic but with technology cap for auction 2
- Auctions for 2 way Contract for Difference (CfD)
- Various levers to ensure a competitive diverse mix (e.g. targeted delivery dates, administrative strike prices per technology)
- Community is a cornerstone for each auction after the first one

Auction	GWh	Year	Delivery	Tech cap
RESS 1	1,000	2019	2020	No
RESS 2	3,000	2020	2022	Yes
RESS 3	3,000	2021	2025	tbc
RESS 4	4,000	2023	2027	tbc
RESS 5 (poss)	5,000	2025	2030	tbc

Technology	Capacity factor	MWs per 1,000 GWh	
Onshore wind	31%	356	
Offshore wind	45%	253	
Solar PV	11%	1,000	
Biomass	85%	134	

Eligibility criteria: Land, Planning & Grid



Challenges for Solar (ROI) – and don't forget grid connections!

RESS Related Questions:

- Deadline for delivery: grid connection is a risk and grace period should feature
- Term: 15 or 20 years?
- Indexation?
- Community benefit: How administer €2/MWh?
- Community investment / ownership: what will be mechanics?

Grid Related Questions:

- ECP-1 awarded 1GW of grid connections in 2018 but back log remains
- Grid curtailment needs to be considered
- Grid connection costs and ongoing maintenance / TUoS fees can be high
- Grid system costs should evolve from per MW to per MWh basis to ensure level playing field with competing technologies



Residential Solar (ROI)

- Irish government introduced a grant scheme for rooftop solar PV in August 2018
 - For a square of the proof o
 - For installations >2kWp, a battery must be installed (to promote self-consumption)
- While it welcomed this announcement, the solar industry called for the introduction of a FiT for commercial enterprises / community buildings
- Planning restrictions for roof-top solar to be amended

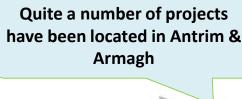


Residential and commercial rooftop solar is a nascent segment



Solar - Northern Ireland

- Northern Ireland Renewable Obligation Certificate (NIROC)
 scheme ended 31 March 2017 (similar to GB ROCs)
 - There was a 12 month grace period for delayed grid connections to 31 March 2018
- Utility scale ground mounted solar grew to c. 250 MWp
 - Developers such as Elgin Energy, Lightsource and BNRG have been active in NI, as have Canadian Solar...
- NI does not have FiT scheme
- There is potential in the commercial and residential selfconsumption segments but the market will take time to develop
- Private wire connections have been completed (e.g. Belfast International Airport)





Initial focus on utility scale ground mounted solar parks has moved towards commercial & residential

