

Fostering energy markets, empowering **consumers**.

Flexibility – The Regulator's Perspective

Garrett Blaney, Co-chair CEER DS WG, Chairperson of CER 12th EU-US Energy Regulators Roundtable, 25/26 April 2016 Session 2: Encouraging flexibility



Main title of the page

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- Flexibility for Networks
- Network Load Diversity Assumptions
- Flexibility for Consumers
- Flexibility the Regulatory Levers

20/04/2016





The flexibility need

YearEU Renewables target (Final Consumed Energy)202020%203027%curtailment 7%*

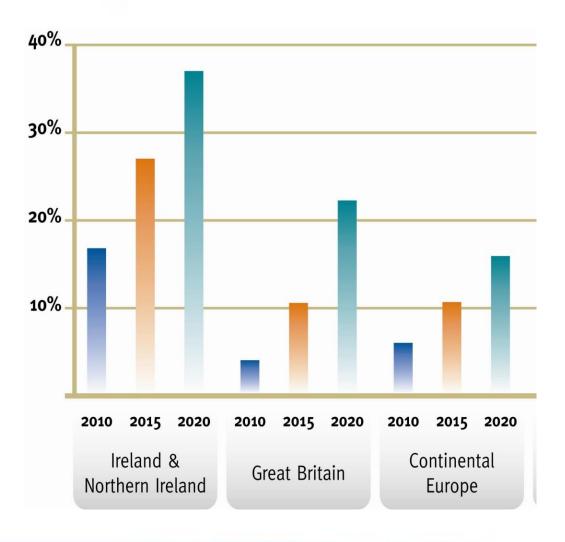
2050 50+%

curtailment 7% curtailment ?

- RES-E penetration likely to be much higher
- Curtailment levels will rise by how much?
 - Affected by level of network investment
 - Efficient cross border flows help



Penetration Levels for Non-synchronous RES-E (e.g. Wind/Solar)





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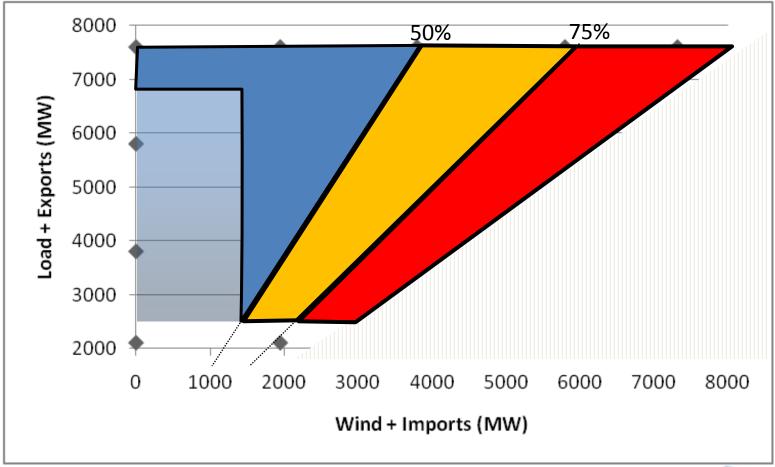
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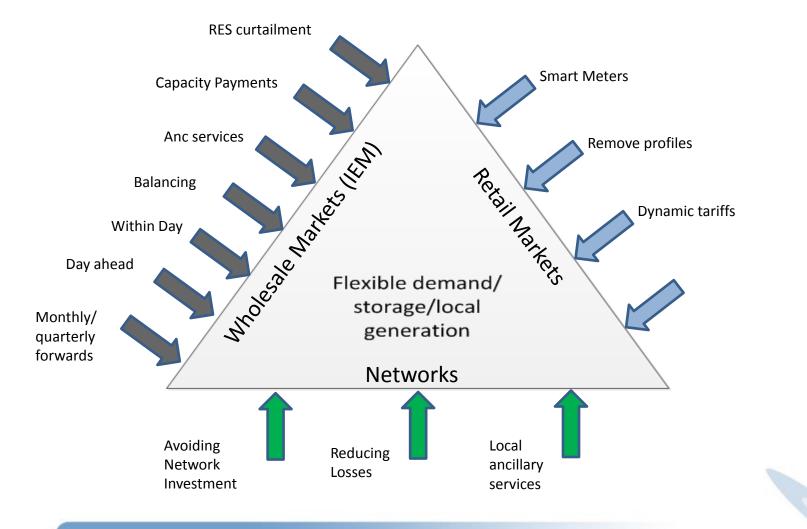
Real Time Operational Limits and Impact on RES-E



Nē



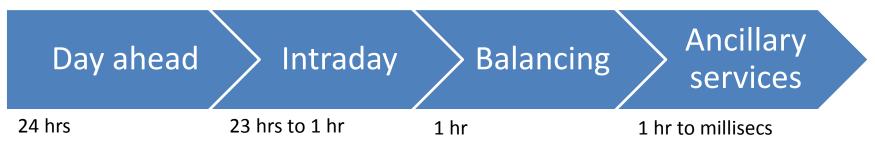
Drivers for New Flexibility Products





Flexibility from Wholesale Markets

The Wholesale Market









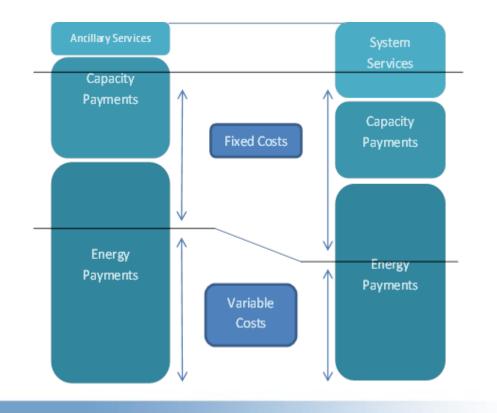


Revenue for Flexibility

Volume of Revenue

Volatility of Revenue

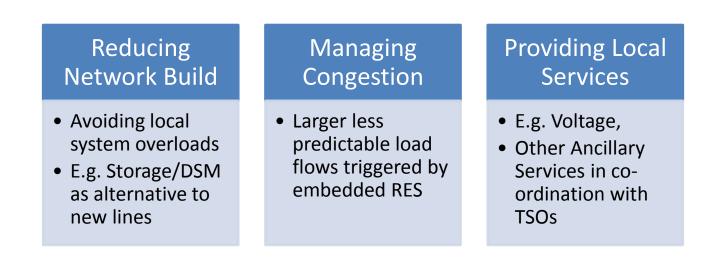
- Stable return
- • Low cost of Capital
 - Lower cost to Consumers







Flexibility for Networks



Need to ensure this does not unfairly distort wholesale or retail markets



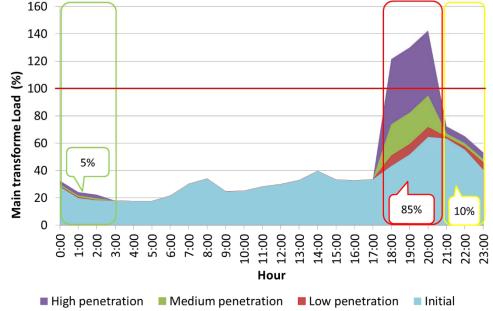


Network Load Diversity Assumptions

Network Planning based on Load Diversity Assumptions.

New Use of Networks changes Diversity Assumptions:

- Prosumer production common solar resource
- Changing consumer response e.g. EVs, storage heaters, etc.







Flexibility for Consumers

- Empowering consumers
- Making products "User Friendly"
- Embracing ICT changes that have revolutionised telecoms





Flexibility – the Regulatory Levers

- Pan-European Internal Energy Market
- Flexibility Guidelines for Network Companies
- Promoting Smart Meters and Dynamic Tariffs



Thank you for your attention!

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