



# Forecasting Ireland

Battery Asset Management Conference  
Rome, 3 December 2024

Brian Kennedy, Head of Client Origination

3 December 2024

[ELECTROROUTE.COM](https://electroroute.com)

a subsidiary of  Mitsubishi Corporation





*Our Vision is to Make Net Zero a Reality*

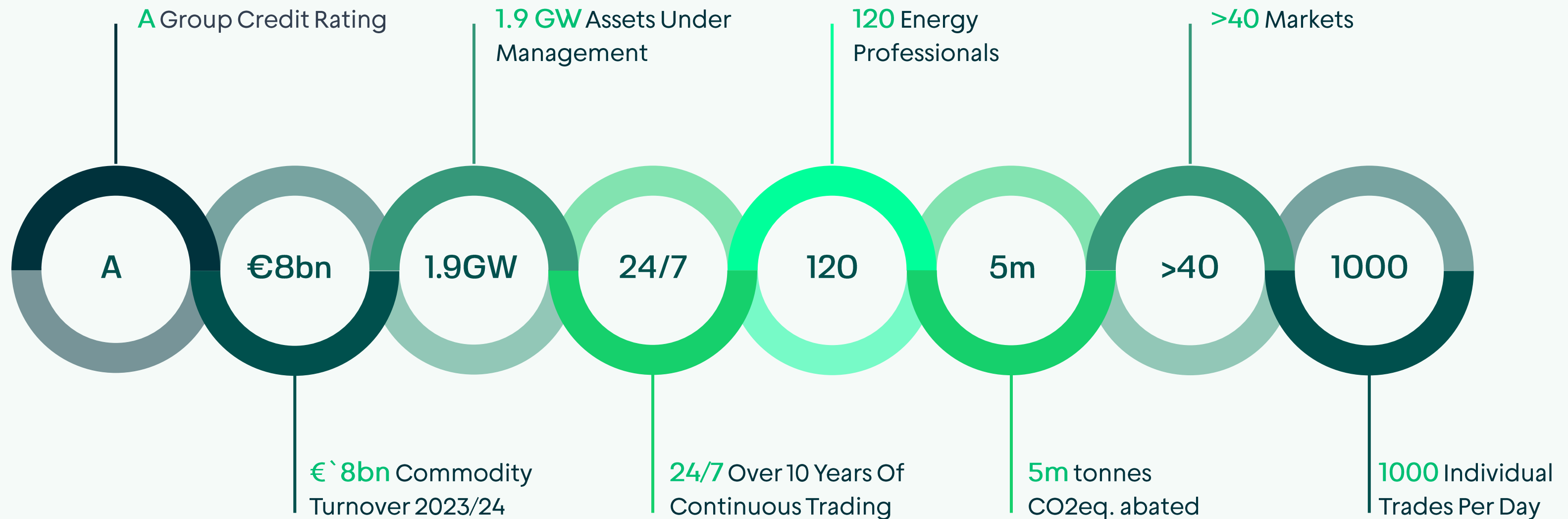
ElectroRoute, a 100% subsidiary of Mitsubishi Corporation, is a renewables focused, energy trading and services company.

Started in 2011 we now employ over 100 professionals based in Ireland, GB, Europe, and Japan.

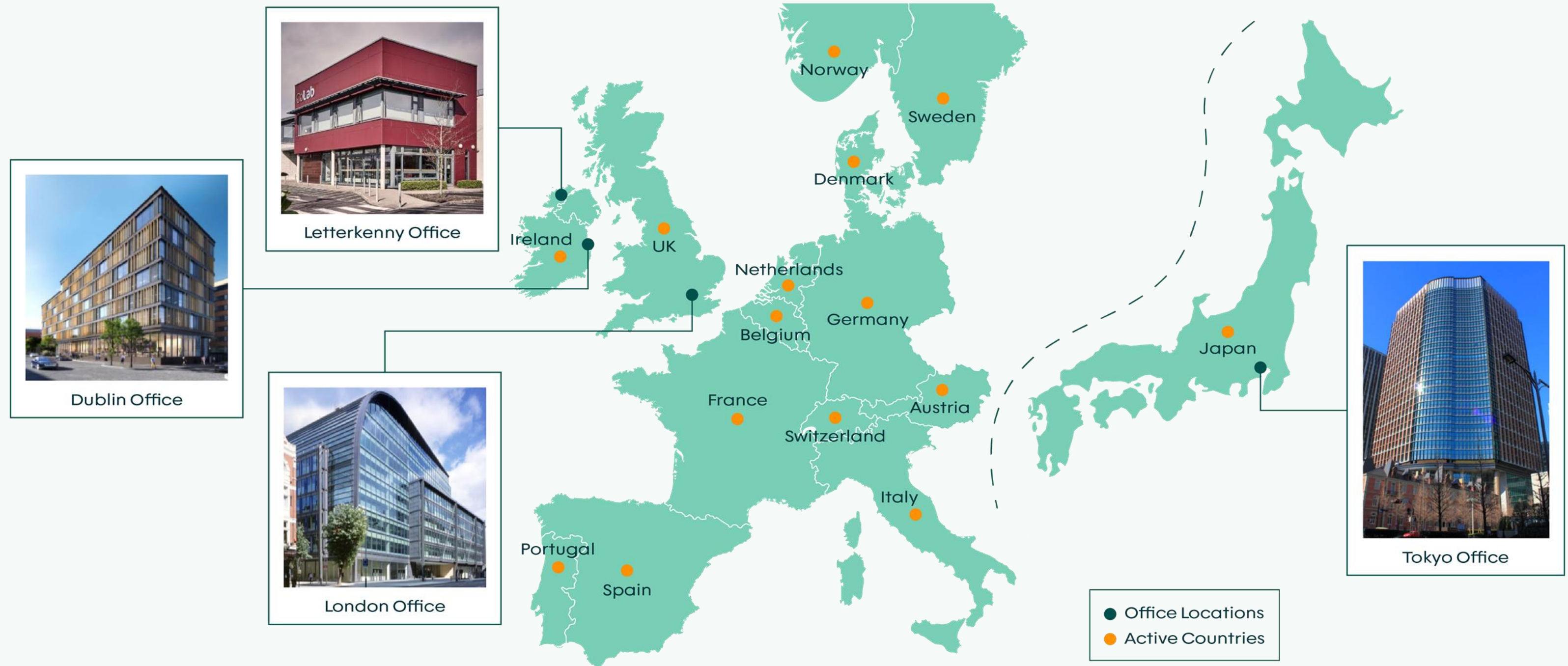
Our vision is to: *make net zero a reality by solving the commercial mechanics of a decarbonised energy system.*



# About Us

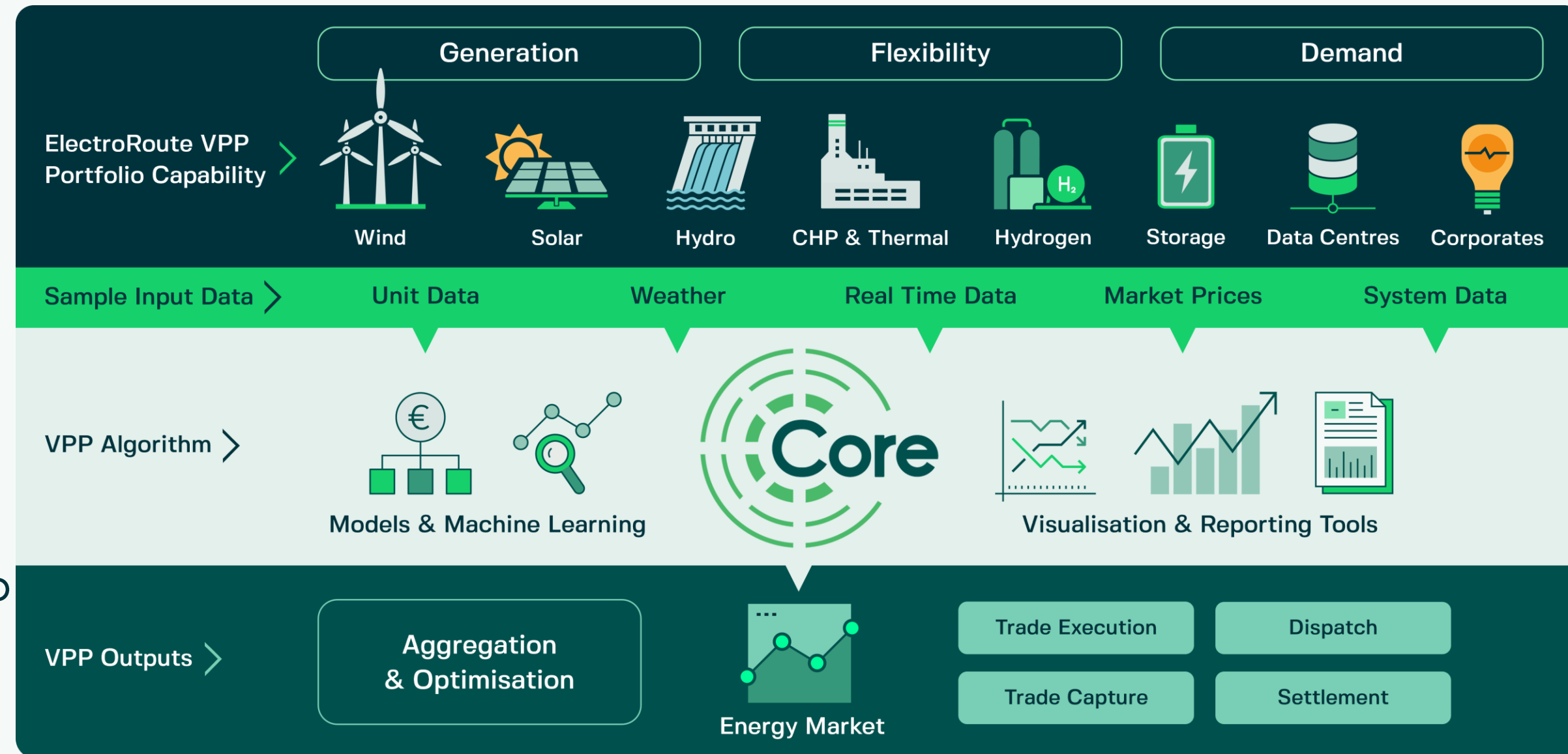


# Our Markets



# ElectroRoute Core – Optimising Client Assets

- **Seamless Integration:** ElectroRoute's Core platform supports trading in multiple markets.
- **Optimization:** Core, with expert traders, optimizes assets in:
  - Wholesale Markets
  - Ancillary Services
  - Capacity Markets
- **Technology Agnostic:** Core adapts to various technology limitations for optimal trading.





# Client Solutions

ElectroRoute uses its comprehensive market access, platform, knowledge and tools to provide bespoke products, services and contracts for its clients.

These products include:

- **Renewables & Flex** - through PPAs and Financial products, we take balancing risk for renewables using our 24/7 shift desk in addition to optimizing over 275MW of storage.
- **Gas Services** – Includes Supply, Trading, physical gas operations, gas storage, route to market services and green trading (green certificates and carbon credits).
- **Green Gas** – our extensive gas operations and trading desk supports clients in purchasing, shipping and evidencing green credentials for biomethane throughout Europe.
- **Corporate Solutions** - Partnering with corporates structure Corporate PPA/GPAs, enabling the requisite market access, trading, balancing and operational services capability across renewable and green gas sectors.





# Our Clients

ElectroRoute is a leading provider of innovative Trading, Routes to Market and Risk Management Services in the power and gas markets.










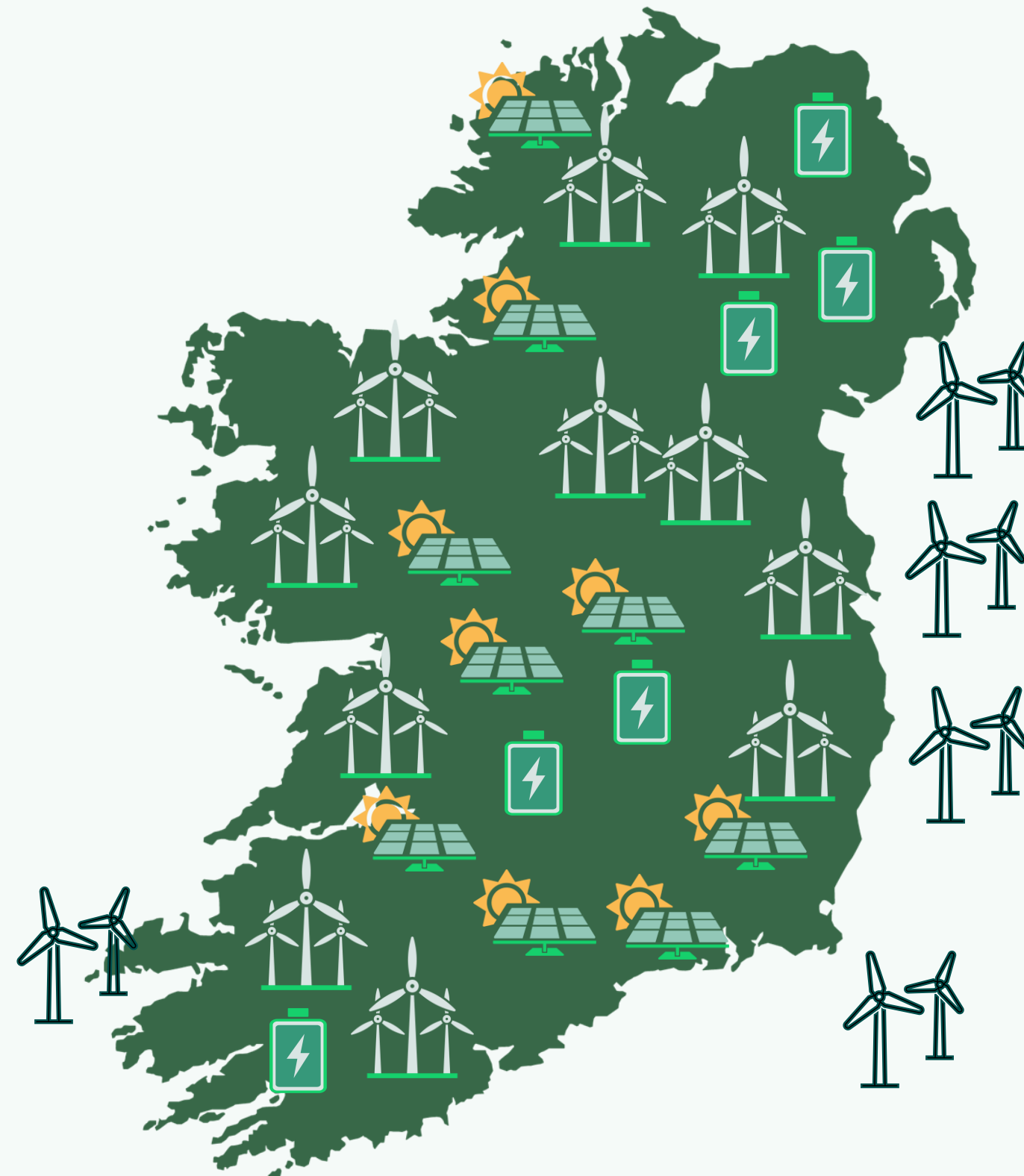
# Current Landscape: Energy Storage in Ireland










# Current Landscape

## The Current All-Island System:

-  7 GW Peak Demand
-  6.1 GW Installed Wind
-  0.8 GW Installed Solar
-  40% RES Contribution to Demand
-  14% YtD Dispatch Down
-  1 GW Interconnection
-  1.25GW Storage  
Of which BESS – 950MW

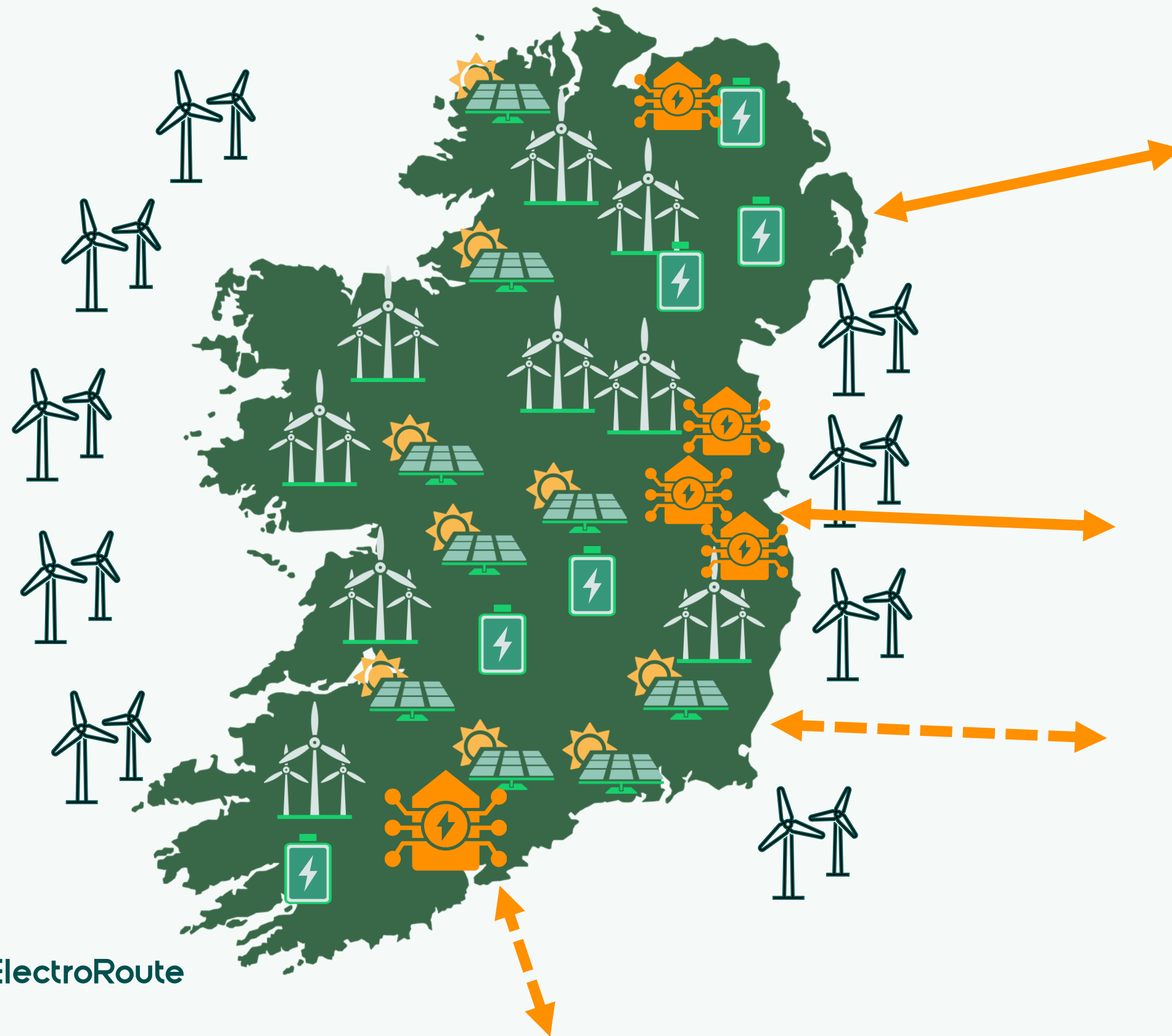


## The Future All-Island System:

-  7.5 -9 GW Peak Demand
-  9 GW Onshore Wind  
5GW Offshore Wind
-  8 GW Installed Solar
-  80% RES Contribution to Demand
-  Up to 35% YtD Dispatch Down
-  3.5 GW +Interconnection
-  ??????



# What's so Interesting about Ireland then?








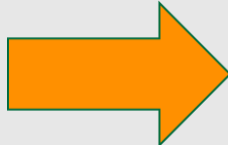





# Regulatory & System Developments



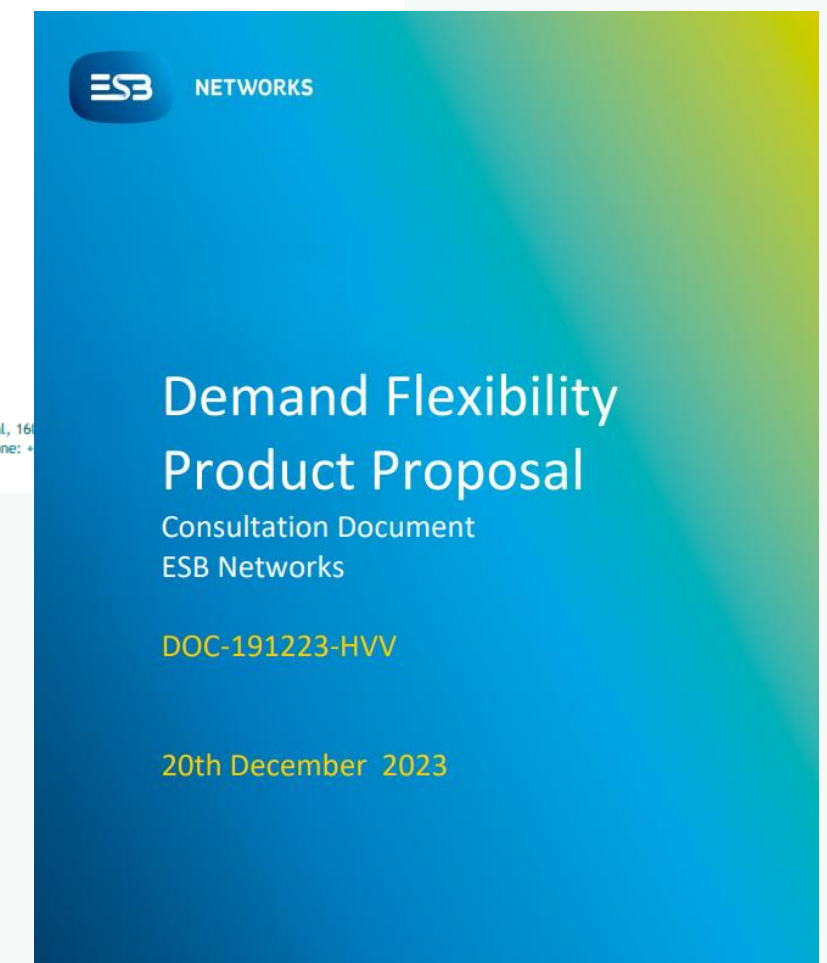
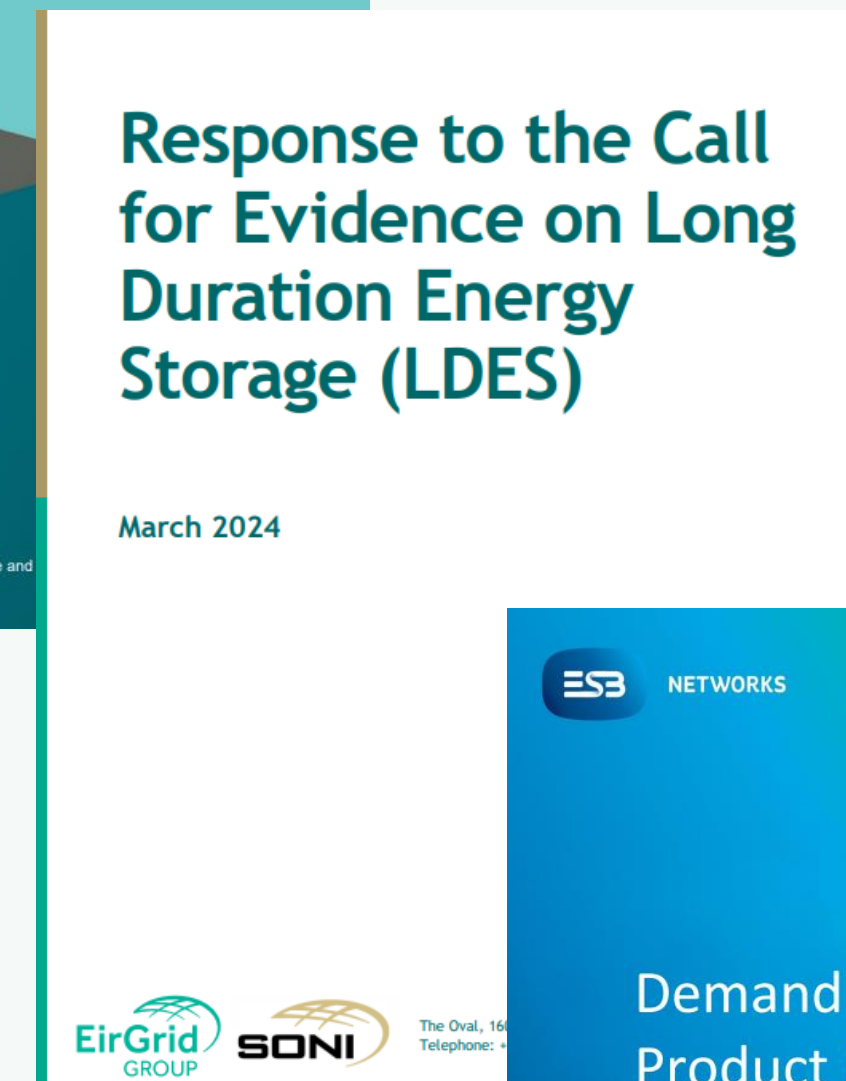
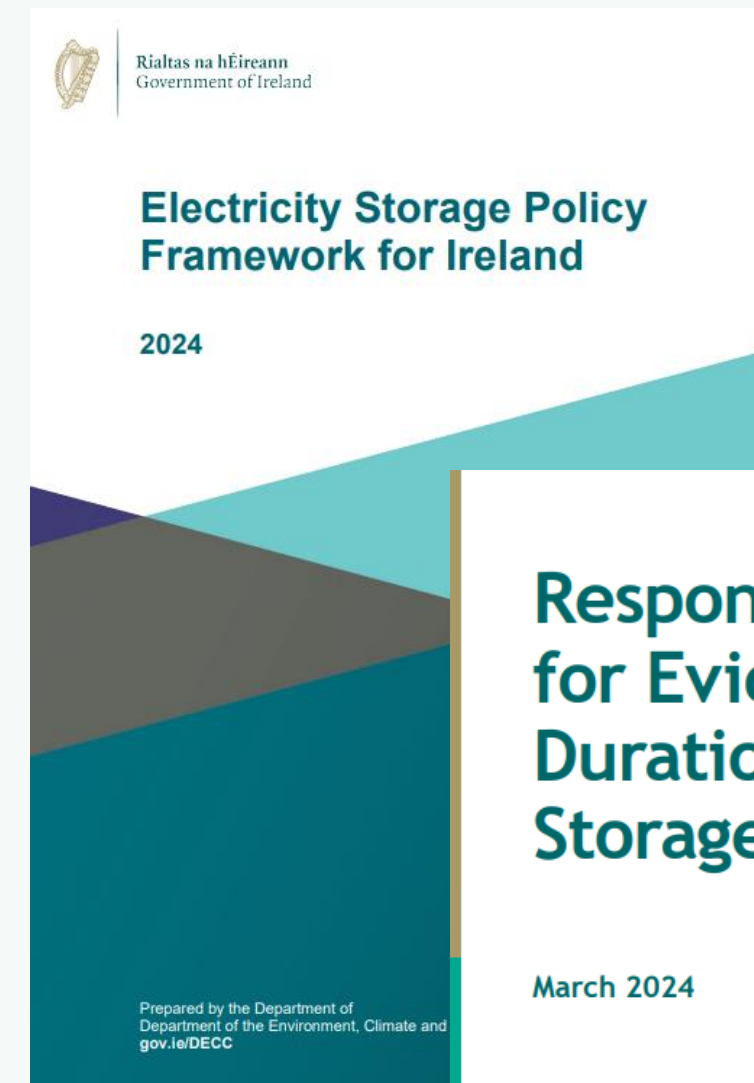
# Current Landscape

	The Past	Near Horizon	The Future
Investment Certainty			
Margin / Returns			
Access to Wholesale Markets			
Summary Route to Market	DS3 Ancillary Service Regime Capacity Market	Tail end of DS3 Capacity Market Wholesale Market (opening)	Day Ahead System Service Auction Capacity Market Wholesale Market Active BM Participation



# Key Policy Initiatives

- Government Energy Storage Framework
- EirGrid (TSO) LDES Procurement Framework
- ESB Networks (DSO) Medium Duration Procurement
- Co-location – Dynamic Sharing of Export Capacity
- Scheduling & Dispatch



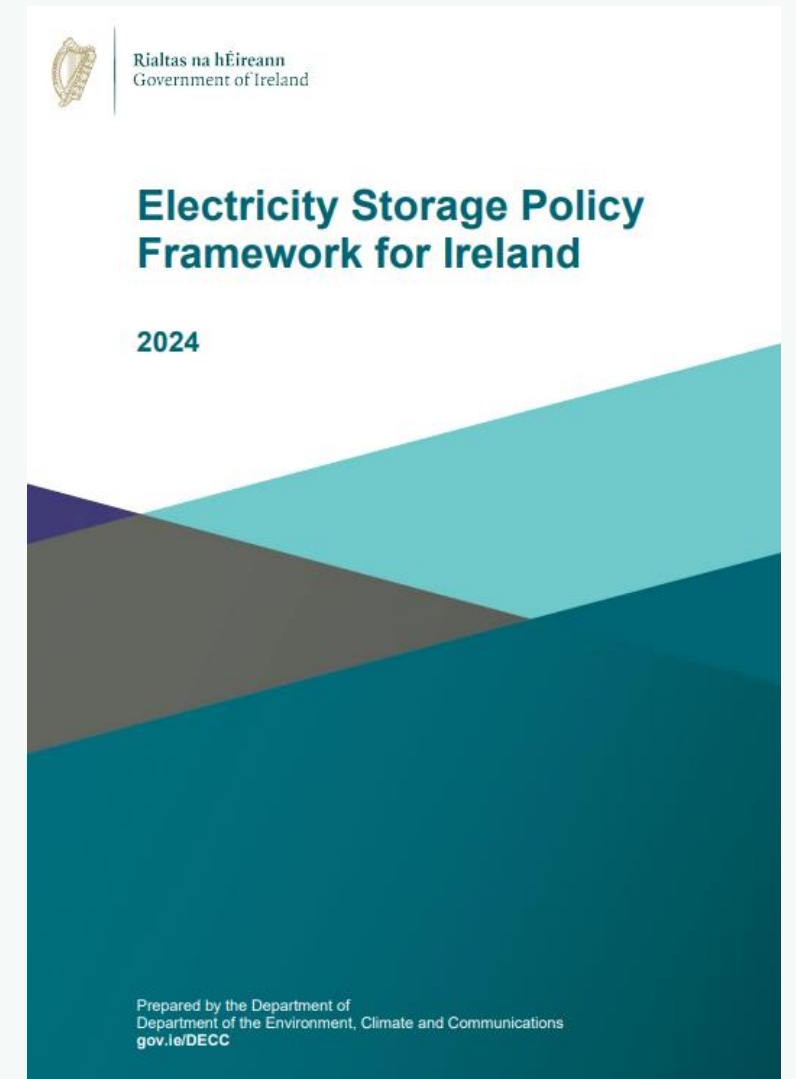


# Scale of Ambition



# Ambition for Storage in Ireland

- Irish Government's Climate Action Plan mandates;
  - Delivery of a **Storage Policy** – delivered in 2024
  - Requirement for ES **policy supporting 75% ↓** in power sector CO2 emissions by 2030.
- 10 Key Policy Actions, of which:
  - Maintain a **technology neutral** approach
  - Immediate **procurement of 500 MW of long duration storage** (4+ hrs duration) pre-2030.
  - Analysis to identify long-term storage needs post 2030 & develop necessary market mechanisms supporting investment. **Route to market** to be in place by 2028
  - Establishes **emerging technology sandbox** to trial several emerging LDES technologies on the grid





# Key Challenges & Opportunities

# Challenges and Opportunities

## Challenges

- Grid Delivery
- Limited access to Markets
- Dilution of the Capacity Market
- Uncertain transition to new regimes
- Co-Location opportunities limited

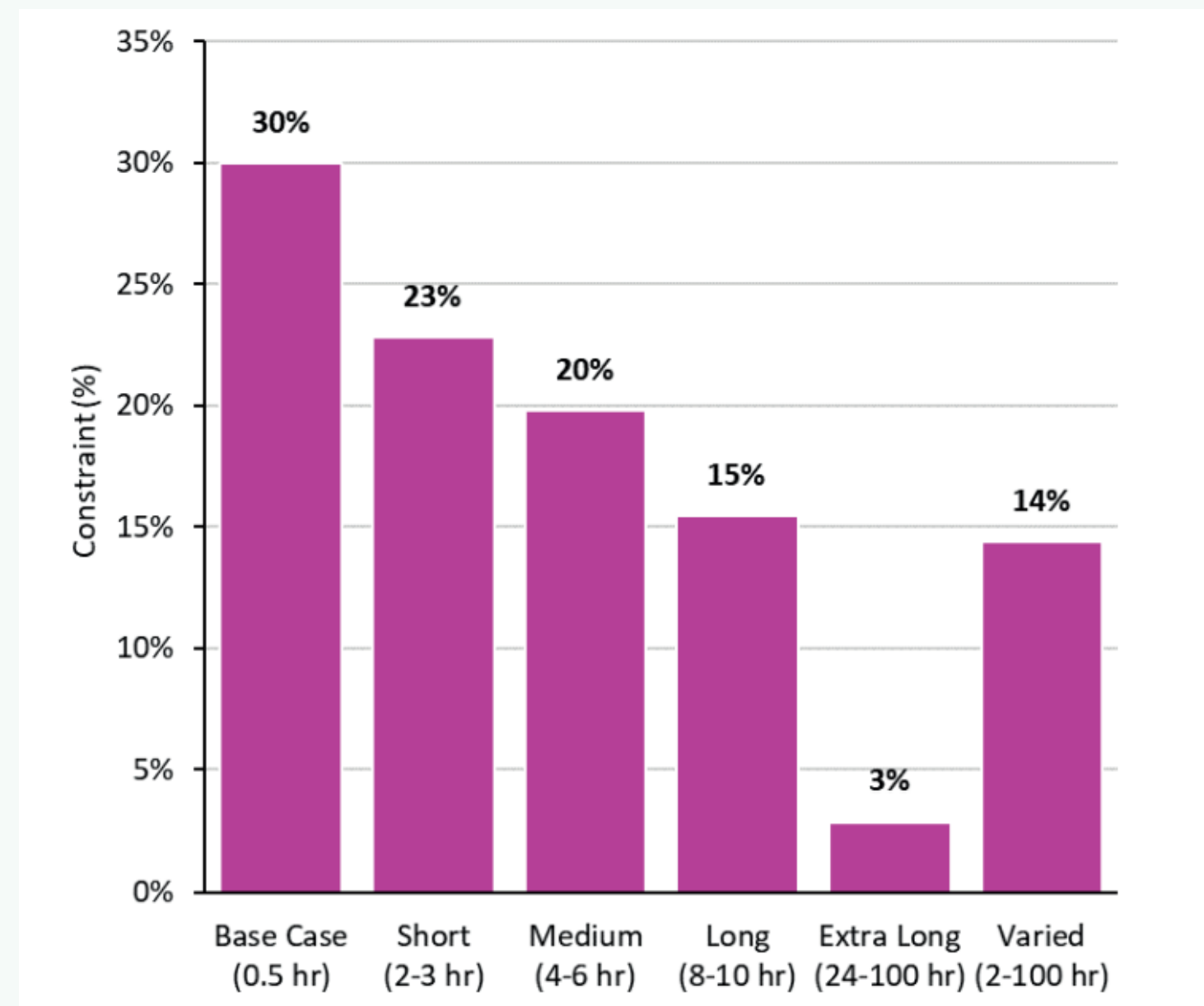
## Opportunities

- Wholesale Market Access Opening
- Recognition of storage as solution for constraints
- LDES (4+ and 8++ hour) procurement frameworks imminent
- Co-location policies under active review
- Strong ambition to electrify, volatility attractive for storage



# ESI Game Changer Report

- Report by ESI and Baringa (2022)
- Modelled: 2030 scenario with an additional 2 GW of different durations of energy storage (2 hrs - 100 hrs).
- Results: Energy Storage can:
  - 50% ↓↓ electricity market emissions from LDES technologies
  - ↓↓ curtailment of renewable generation
  - ~€85mIn ↑↑ net saving to consumers p.a. via avoided fuel, carbon & grid reinforcement costs.
- Modelled a highly constrained region (Co. Donegal)
- LDES provides substantial improvement to RE constraint



# Future Outlook



# Future Outlook for Energy Storage



- Broad support for accelerated development of storage
  - Specific storage procurement policies under review/consultation
- Strong support from relevant authorities



- No declared targets for storage
  - However frameworks/initiatives and industry analysis sets expectation
- TSO analysis suggests 4.5 GW of storage (varied technology) in 2030



- LDES Procurement exercises to be initiated during 2025.
- ESI seeks;
  - technology neutral,
  - Floor + shared upside structure
  - revenue stacking potential
  - Winners procured through assessment of system value



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