



**Data Centres Ireland 2021**  
**Creating an Independent Power Solution**  
16 November 2021

# Introduction

---

## About Echelon

- International infrastructure developer, supporting the growing demand for data & compute capacity in the global economy
- Focus on providing large-scale sustainable assets, being responsible to the environment and the communities in which it operates.
- Echelon CTO since September 2019
- Previously part of the data centre leadership team at a global engineering firm
- Responsible for the product, if you like, that Echelon offers to its customers and a big part of that is innovation

# Background

---

What are the policies that impact our business

- Government Statement on the Role of Data Centres in Ireland's Enterprise Strategy (June 2018)
- Offshore Renewable Energy Development Plan (February 2014)
- Tomorrow's Energy Scenarios (October 2019)
- Data Centre Connection Offer Process & Policy (July 2020)
- CRU Directive (Q4 2021)

# What Are We Doing Now?

If you visited an Echelon site today, what would you see

- 100 MW electrical output energy centre (natural gas + diesel)
- Supporting Ireland's Transmission System Operator, EirGrid
- Beginning our journey for the energy transition

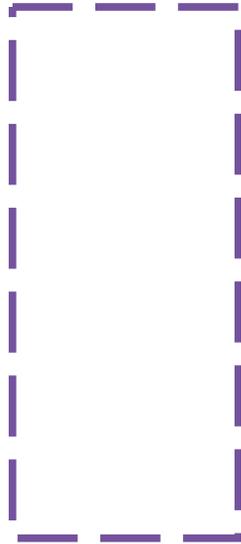


# What Are We Doing Next?

---

If you visited an Echelon site in one year, what would you see

- Large-scale CHP, Utilising in-data centre UPS/battery for grid services
- Phase II of the Arklow Bank Wind Park – 520 MW of offshore wind (intersection of the various policies)
- Another (big) step in our journey for the energy transition



# What Are We Doing After That?

---

If you visited an Echelon site in two years' time, what would you see

- In 2020, there was approximately 1.91 TWh of curtailed wind energy in Ireland
- Battery energy storage systems are improving, but, multi-day storage isn't feasible
- Engineering and procuring H<sub>2</sub> pilot at the moment
- Goal: to power our data centres with green hydrogen

# One Last Thing...

---

Echelon's Sustainability Report

- Please visit [echelon-dc.com/sustainability](https://echelon-dc.com/sustainability)

