

Title: Predictive modelling of Energy Cost Savings using Smart Meter Data

The biggest data change in the ISEM Electricity market (Ireland and Northern Ireland) will likely be the increased installation of Smart Meters in households. While this is already well underway in Ireland it is in the early stages of planning in Northern Ireland but is expected to start in earnest in the next few years. This will push the market away from pricing and settlement on the basis of average industry norm profiles to customer specific profiles and will bring with it a huge increase in the data per customer from a monthly/bi-monthly meter read to 24/48 data points per day. This will create both a challenge and an opportunity for customer and energy suppliers.

Challenge = What is the value to customers in terms of potential energy cost savings from leveraging smart meter data and products that support the energy transition through Energy Management Services post 2030

- How does this vary depending on the range of energy product scenarios (EVs, heat pumps, solar panels, batteries, etc)
- How can Suppliers maximise this benefit for their customers and what challenges will they face
- How does the potential in Ireland or Northern Ireland compare to the potential in other jurisdictions, and what policy/market changes are required to allow customers in Ireland to achieve best in market results
- Assess the criticality of customers and suppliers having access to real time Smart Meter data to achieving best results
- Assess any GDPR, regulatory or market/government policy issues that could hamper the achievement of best outcomes for customers
- How can customers help Governments achieve their Demand Side Management targets

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