

EPD Ireland Additional Guidance on modelling of Electricity for Ireland and Northern Ireland v.1.0

Introduction

This guidance is provided to accompany the EPD Ireland PCR v3 to explain the modelling of electricity for supply in Ireland and Northern Ireland. This is covered by the ECO Platform Calculation Rules and Verification Guidelines, Case 2, where the electricity provider is chosen from a national state with legislation for electricity labelling

In accordance with EU Directive 2019/944¹, the Single Electricity Market Committee (SEM Committee) annually publishes an Information Paper, 'All-Island fuel mix disclosures and CO2 Emissions', for all electricity suppliers in Ireland and Northern Ireland. The 2024 Information Paper, [SEM-25-060 - All-Island Fuel Mix Disclosure and CO2 Emissions 2024](#) (SEM FMD Information Paper), was published on 14 November 2025, and any later versions can be found at <https://www.semcommittee.com/publications>.

Fuel Mix Disclosures in the SEM FMD Information Paper

The SEM FMD Information Paper reports the fuel mix of each supplier after accounting for Guarantee of Origin Certificates (GOs) in Ireland, and Renewable Energy Guarantee of Origin Certificates (REGOs) in Northern Ireland which have been purchased by the supplier. Suppliers in Ireland may only use GOs provided in the EEA, and suppliers in Northern Ireland may only use REGOs issued within the UK. For several years, there has been a net export of GOs from renewable generation on the island of Ireland to other EEA states. The reported Fuel Mix Disclosure (FMD) therefore covers:

- non-renewable generation attributes;
- Guarantees of Origin (GOs) or Renewable Energy Guarantees of Origin (REGOs);
- renewable generation attributes assigned to a supplier that is not included in the GO scheme; and
- the Residual Mix or European Union (EU) Residual Mix (only if there is a net import of GOs).

All suppliers in Ireland and Northern Ireland have to provide their FMD within 2 months of the publication of the latest SEM All-Island Information Paper. The FMD must be published on all bills.

Supply of particular fuel mixes to certain customer

Where a supplier offers separate products with particular fuel mixes to certain customers (e.g. a 100% renewable mix when their average FMD is not 100% renewable), all the supplier's customers should receive information, on request, regarding the fuel mix

¹ EU Directive 2019/944 of the European Parliament and of the Council of 5 June 2019 on common rules for the internal market for electricity and amending Directive 2012/27/EU (recast)

associated with their electricity (not simply the supplier's average fuel mix) in accordance with SEM/11/095.

Suppliers providing 100% renewable electricity in the SEM FMD Information Paper

Where a supplier provides 100% of their customers with renewable electricity, then renewable electricity supplied can be modelled. In 2024, this was the case for the suppliers listed below:

- Board Gais Energy
- Budget Energy
- Panda Power
- Go Power in the ROI
- SSE Airtricity in ROI and NI
- Flogas Enterprise Solutions in ROI and NI
- Pinergy
- Orsted Ireland Green Energy
- Captured Carbon
- Cenergise Trading
- Ecopower
- ElectroRoute Energy Supplier
- Flogas Natural Gas
- 3T Power
- Axpo
- Edenderry Supply Company.

However, the actual renewable mix (% wind/solar/hydro/biomass etc covered by their generation and GO/REGO) should be checked with the supplier and be used for modelling if available. If not, the mix should be based on the latest breakdown of Irish electricity supply provided by SEAI. For 2023, this was provided at <https://www.seai.ie/data-and-insights/seai-statistics/key-publications/renewable-energy-in-ireland#comp00005b3f76b8000000addf2ac1>, showing of the 40.7% renewable electricity supplied, 33.7% came from Wind, meaning 83% of renewable electricity was wind. As this is over 80%, wind energy can be modelled if no specific data on renewable generation is provided by the supplier. In later years, a mix should be modelled if wind is less than 80% of the renewable electricity supplied.

Suppliers with some non-renewable supplies in the SEM FMD Information Paper

For suppliers where there are some non-renewable supplies in the FMD provided in the latest SEM FMD Information Paper, different rules apply. For 2024, this covers the following suppliers:

- Electric Ireland (ROI and NI)

- Energia
- Go Power (NI)
- Power NI
- Click Energy
- Arden Energy
- Community Power
- PrePay Power.

If the supplier has provided a mix with a particular fuel mix for the customer, rather than the average fuel mix, this mix can be used as the basis for modelling the electricity supplied.

If the supplier has not purchased a particular fuel mix from a supplier where there are some non-renewable supplies, the supplier must be contacted to confirm the fuel mix actually supplied to the customer, after any separate products with particular fuel mixes supplied to certain customers have been removed from the average mix reported by the SEM FMD Information Paper. This should be the mix for ROI or NI as relevant.

Suppliers assigned the residual mix in the SEM FMD Information Paper

For suppliers assigned the residual mix in the FMD provided in the latest SEM FMD Information Paper, this residual mix should be the basis of modelling for the electricity supply. For 2024, this covers:

- Waterpower Engineering.