

Fuel Mix and CO₂ Emission Factors Disclosure 2008

Article 3(6) of the Internal Market Directive (Directive 2003/54/EC) requires Member States to ensure that the contribution of each energy source to the overall fuel-mix of the supplier over the preceding year and related environmental information are provided in or with bills sent by suppliers to final customers. This Article also stipulates that Member States must take the necessary steps to ensure that the above information provided by suppliers to customers is reliable.

The Utility Regulator has now implemented arrangements that will ensure that all suppliers provide this information on all bills and promotional materials sent to their customers.

This document sets out the 2008 fuel mixes and CO₂ emissions factors for suppliers licensed in Northern Ireland and operating in the Single Electricity Market (SEM) as calculated in accordance with [SEM-09-081](#) *Interim Arrangements: Fuel Mix Disclosure in the SEM*.

On 20th May 2009, the Utility Regulator and the Commission for Energy Regulation ('the Regulatory Authorities') published a consultation paper outlining the options and preferred approach of the Regulatory Authorities to the interim fuel-mix disclosure arrangements. Interim arrangements for fuel-mix disclosure are required in order to calculate suppliers' fuel-mix until the enduring arrangements¹ are fully implemented. The preferred approach was for a methodology based on the average pool-mix and bi-lateral purchases. Having reviewed the responses the SEM Committee² decided to adopt this approach as the basis for the interim arrangements and a decision paper was published³.

The interim arrangements will apply until the necessary verification and certification systems envisaged by the enduring solution⁴ are put in place. It should be noted that the fuel-mix disclosure calculation and related information detailed in this paper are applicable to the Interim Period and are without prejudice to the transposition of the new Renewables Directive and future EU and Member State legislation relating to REGOs and fuel-mix disclosure.

¹ An enduring solution has also been put in place for future fuel mix disclosures, but this will require the setting up of certification systems and SEM arrangements outside the scope of the interim decision.

² The SEM Committee was established in Ireland and Northern Ireland by virtue of section 8A of the Electricity Regulation Act 1999 as inserted by section 4 of the Electricity Regulation (Amendment) Act 2007, and Article 6(1) of the Electricity (Single Wholesale Market) (Northern Ireland) Order 2007 respectively. The SEM Committee is a Committee of both CER and NIAUR (the Regulatory Authorities) which, on behalf of the Regulatory Authorities, takes any decision as to the exercise of a relevant function of CER or NIAUR in relation to a SEM matter.

³ [SEM-09-081](#) *Interim Arrangements: Fuel Mix Disclosure in the SEM*. Decision paper on the interim methodology and principals for the calculation of fuel mix disclosure in the SEM.

⁴ [SEM-09-033](#) *High Level Methodology for the Calculation of Fuel Mix Disclosure in the SEM*. Decision paper on the enduring methodology and principals for the calculation of fuel mix disclosure in the SEM.

In Table A below each supplier's fuel mix figures are listed by fuel type for 2008. The all-island⁵ fuel mix is also indicated for comparison. Note that each percentage figure is rounded to the nearest percentage point in Table A. In Table B, the kilograms of CO₂ per MWh of electricity supplied are given for each supplier as well as an overall figure representative of the All-island electricity market. The overall emissions factors (per supplier) are given by multiplying each fuel's emission factor by the relevant % of that fuel in the supplier's portfolio. The values obtained for each fuel are then aggregated to give the total kg CO₂ emitted per MWh of electricity produced for that supplier.

Table A. Percentage Supplier Fuel Mix by Fuel Type in 2008⁶

Supplier	Coal	Oil	Gas	Peat	Renewables	Other	Unattributable
Airtricity (NI)	10.8%	2.1%	37.4%	4.0%	45.4%	0.3%	0.0%
Bord Gais (NI)	19.0%	3.8%	66.1%	7.1%	3.4%	0.5%	0.0%
ESB IE (NI)	18.7%	3.8%	65.2%	7.0%	4.8%	0.5%	0.0%
Viridian Energy Supply Ltd	17.7%	3.6%	61.5%	6.6%	10.3%	0.5%	0.0%
NIE Energy	18.6%	3.8%	64.8%	6.9%	5.4%	0.5%	0.0%
Quinn Energy Supply Ltd	19.0%	3.8%	66.1%	7.1%	3.4%	0.5%	0.0%
All Island	17.4%	3.5%	60.6%	6.5%	11.2%	0.5%	0.3%

Table B. CO₂ Emissions Factors per Supplier for 2008⁷

Supplier	tCO ₂ /MWh
Airtricity (NI)	0.330
Bord Gais (NI)	0.581
ESB IE (NI)	0.573
Viridian Energy Supply Ltd	0.542
NIE Energy	0.570
Quinn Energy Supply Ltd	0.581
All Island	0.533

⁵ 'All-island fuel mix' refers to the combined mix of generation in Ireland and Northern Ireland, including imports and generation operating out of market in Ireland and Northern Ireland.

⁶ These figures represent the breakdown of the mix of energy provided by suppliers to their customers but is not necessarily representative of generation such customers may provide themselves from on-site generation.

⁷ These figures represent the CO₂ emissions for the mix of energy provided by suppliers to their customers but is not necessarily representative of generation such customers may provide themselves from on-site generation.