



Pat Swords <pat.swords.chemeng@gmail.com>

Fwd: AIE Request - Carbon Emissions & Abatement Costs - Electricity Generation

Jerry Waugh <jerry.j.waugh@gmail.com>

Mon, Nov 22, 2010 at 6:19 PM

To: Pat Swords <pat.swords.chemeng@gmail.com>

Pat,

Am I missing something ? see table 5A of <http://www.decc.gov.uk/assets/decc/Statistics/publications/dukes/311-dukes-2010-ch5.pdf>
this is what I am looking for !!! What do you think ?

I note they haven't followed the protocol for internal review "Following receipt of a request for a review under sub-article (1), the public authority concerned shall designate a person unconnected with the original decision whose rank is the same as, or higher than, that of the original decision maker"

Jerry

----- Forwarded message -----

From: **Howley Martin** <Martin.Howley@seai.ie>

Date: Mon, Nov 22, 2010 at 4:46 PM

Subject: RE: AIE Request - Carbon Emissions & Abatement Costs - Electricity Generation

To: Jerry Waugh <jerwaugh@yahoo.co.uk>

Cc: McCarthy Micheal <Micheal.McCarthy@seai.ie>

Dear Mr Waugh,

Firstly in relation to Eirgrid's real time carbon dioxide intensity data, SEAI did collaborate but only in supplying emission factors for individual fuels. Eirgrid then applies these to their internal calculator which estimates the intensity based on loading of individual plants. SEAI has no access to this real time plant data.

In relation to your request for the information behind the "aggregate" data to determine overall weighted CO₂ intensity, I have said before that this is already available in our online databank. The energy values for the fuel inputs to electricity generation are publicly available in that databank as is the aggregate electricity generated and final consumption by consumers. This data, together with the emission factors for the individual fuels is the basis for our calculation of the overall aggregated electricity intensity.

As to the calculation method you request this is as described above; ie the total sum of the product of each individual fuel by it's corresponding emission factor (which yields ktonnes of CO₂) is then divided by the total final consumption of electricity in GWh to give delivered electricity CO₂ intensity in gCO₂/kWh. No individual intensities by fuel is required to calculate the aggregate intensity.

I reiterate again we have never produced data on the CO₂ intensity of electricity by individual

fuel and do not hold this data in any of our internal documents or databases.

Regards

Martin Howley.

From: jerry.j.waugh@gmail.com [mailto:jerry.j.waugh@gmail.com] **On Behalf Of** Jerry Waugh
Sent: 22 November 2010 16:25
To: Howley Martin
Cc: McCarthy Micheal
Subject: Re: AIE Request - Carbon Emissions & Abatement Costs - Electricity Generation

Dear Mr.Howley,

As per your suggestion I sent the AIE request to the EPA. I received their decision this morning (see attached) and they confirm that they do not hold this information.

Therefore I request an internal review under the European Communities (Access to Information on the Environment) Regulations 2007 (S.I. 133 of 2007) of your original decision.

In particular I seek the environmental information behind the "aggregate" data and calculation methods used to determine the gCO₂/kWh. It is difficult to understand how the aggregate is calculated without knowing the contribution from individual fuel types.

Since my original request I note that SEAI in collaboration with Eirgrid produces real-time carbon intensity data. (<http://www.eirgrid.com/operations/systemperformancedata/co2emissions/>)

The webpage states

*"EirGrid, with the support of the Sustainable Energy Authority of Ireland, has together developed the following methodology for calculating CO₂ emissions. The rate of carbon emissions is calculated in real time by using the generators MW output, the individual heat rate curves for each power station and the calorific values for **each type of fuel used**. The heat rate curves are used to determine the efficiency at which a generator burns fuel at any given time. The fuel calorific values are then used to calculate **the rate of carbon emissions** for the fuel being burned by the generator."*

This would suggest that SEAI does indeed hold fuel specific data.

I accept your decision concerning abatement costs.

If you have any queries please do not hesitate to contact me.

Best Regards,

Jerry Waugh

On Mon, Oct 18, 2010 at 3:05 PM, Howley Martin <Martin.Howley@seai.ie> wrote:

Dear Mr Waugh,

Sustainable Energy Authority Ireland is the authority on energy use in Ireland and as such produces statistics on energy production, importation, transformation and use. This information is freely available in our publications and on our website in the databank and the annual energy balances. We do not, per se, hold environmental information but this information can be derived from our energy statistics. The authority on all environmental information and in particular greenhouse gas emissions is the Environmental Protection Agency.

In some of our reports, Energy in Ireland for instance, we calculate electricity intensity from our energy data however, we only ever do this at a national aggregate level. We have never produced data on the CO₂ intensity of electricity by individual fuel and do not hold this data in any of our internal documents or databases. Indeed, there are confidentiality issues and commercial sensitivity constraints that would prevent us from producing such data. The Commission for Energy Regulation, however, requires electricity suppliers to disclose the CO₂ intensity of their electricity so perhaps they may have what you require.

With regard to the second part of your request, I have no data on cost abatement.

Should you require any of the energy data from the databank in a different format I would be happy to help but you would need to be specific on what data are required.

Regards

Martin Howley

Energy Policy Statistical Support Unit

Sustainable Energy Authority of Ireland

Building 2100

Cork Airport Business Park

Co Cork

t +353 21 454 7051

f +353 21 454 7059

e martin.howley@seai.ie

w www.seai.ie/statistics

The Sustainable Energy Authority of Ireland has a mission to play a leading role in transforming Ireland into a society based on sustainable energy structures, technologies and practices.

The Authority is financed by Ireland's EU Structural Funds Programmes co-funded by the Irish Government and the European Union.

From: jerry.j.waugh@gmail.com [mailto:jerry.j.waugh@gmail.com] **On Behalf Of** Jerry Waugh
Sent: 18 October 2010 13:38
To: McCarthy Micheal
Cc: Howley Martin
Subject: Re: AIE Request - Carbon Emissions & Abatement Costs - Electricity Generation

Dear Mr. McCarthy,

Thank you for your reply to my AIE Request.

I am aware of the databank but it does not address the specific questions raised in the AIE request.

Please advise Mr.Howley of the details of the request.

Best Regards,

Jerry Waugh

On Mon, Oct 18, 2010 at 12:08 PM, McCarthy Micheal <Micheal.McCarthy@seai.ie> wrote:

Dear Mr Waugh,

I refer to your request below. In the first instance, I am referring you to our databank <http://www.cso.ie/px/sei/database/SEI/Energy%20Balance%20Statistics/Energy%20Balance%20Statistics.asp> and the section **Fuels Used in Electricity Production (ktoe) by Fuel Type and Year** to ascertain that this data meets your requirements. If not I recommend you contact the relevant programme manager is SEAI, Martin Howley on 021 454 7051 or by e-mail martin.howley@seai.ie.

Regards,

Mícheál Mc Carthy

Legal & Contracts Manager

Sustainable Energy Authority of Ireland

Wilton Park House

Wilton Place

Dublin 2

Phone: + 353 1 8082028

Website: www.seai.ie

The Sustainable Energy Authority of Ireland (SEAI) has a mission to play a leading role in transforming Ireland into a society based on sustainable energy structures, technologies and

practices.

The Authority is financed by Ireland's EU Structural Funds Programme co-funded by the Irish Government and the European Union.

From: Jerry Waugh [mailto:jerwaugh@yahoo.co.uk]
Sent: 02 October 2010 15:38
To: McCarthy Micheal
Subject: AIE Request - Carbon Emissions & Abatement Costs - Electricity Generation

Dear Sir/Madam,

Please find attached a request under the European Communities (Access to Information on the Environment) Regulations 2007 (S.I. 133 of 2007).

Best Regards,

Jerry Waugh