

**WRITTEN QUESTION TO THE MINISTER FOR PLANNING AND ENVIRONMENT
BY DEPUTY P.V.F. LE CLAIRE OF ST. HELIER**

ANSWER TO BE TABLED ON TUESDAY 15th JANUARY 2008

Question

1. On the 4th December 2007 answers were given by the Chief Minister to a range of questions regarding climate change and emissions with the exception of electricity generated from Bellozanne.

Answer

I believe the Deputy refers to Part C of the answer I tabled to his question of the 4th December 2007 where a breakdown of carbon emissions by category (from 2001) was given as collated by the Statistics Unit. Emissions from electricity generated at the energy from waste (EfW) plant at Bellozanne are not included in those figures since they are not directly measured at the EfW.

It is difficult to estimate the carbon emissions from a tonne of residual waste since the level of emissions is dependant on the composition of the municipal solid waste (or residual waste) that is being treated. In particular, it is accepted that the biogenic fraction of the residual waste, which is composed of recently photosynthesised material, is a renewable resource and thus is 'carbon-neutral'. Therefore, international emissions inventories do not count the emissions arising from that portion of the solid waste that is arising.

However, the carbon emissions from an energy from waste process can be estimated by using agreed 'emission factors' and applying these to the tonnages of waste being treated. These have been used in the Energy Policy Green Paper 'Fuel for Thought?' and I would refer you pages 53-56 of the document which makes a full analysis of estimated carbon emissions from the current EfW facility at Bellozanne.

The UK National Inventory for Greenhouse Gas Emissions uses an emissions factor of 253kg/C per tonne of residual waste. The following table uses this factor to estimate carbon emissions between 2001- 2006. The data for 2007 is not readily available at this time, but is likely to follow a similar trend.

Year	Residual waste through EfW ^[1]	Electricity generated ^[2] (Kw/h)	Estimated Carbon emissions ^[3] (tonnes)
2001	80,997	19,192,700	20,492
2002	79,993	18,766,630	20,238
2003	84,880	19,966,770	21,474
2004	80,805	18,233,780	20,443
2005	74,530	15,573,450	18,856
2006	74,873	17,018,935	18,943

Question

2. Would the Minister provide electricity emission levels from 2001 to 2008 at Bellozanne and advise whether there are any other known emission figures for the JEC and other polluting sources and if so what these are from 2001 to date?

Answer

With reference to your question on 'other known emission figures for the JEC', I would refer you to part C of the answer tabled on the 4th December 2007 which includes the emission figures for electricity generated from fossil fuels by the JEC between 2001 and 2006. Data is collated annually by the Statistics Unit and published in the publication Jersey Energy Trends. 2007 data is not yet available.

[1] Figures supplied by T&TS

[2] Figures supplied by T&TS

[3] Estimated Emissions using emissions factor of 253kg/C per tonne of residual waste