

**From:** [REDACTED]  
**To:** [Wrexham Energy](#)  
**Subject:** Wrexham Energy Centre - EN010055  
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**Attachments:** [thumb\\_IMG\\_0107\\_1024.jpg](#)

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Joanna  
Roberts

[REDACTED]  
6th October 2016  
Ref :10032171

## **Wrexham Energy Centre - EN010055**

### **Written Representation following the meetings 28th and 29th September 'Environmental and Other issues'**

#### **Site Selection and assessment approach**

My concern regarding the loss of energy during transmission from Wrexham to where demand is highest was not addressed at the meeting and is still a concern in the selection of this location, not on a local level but national, Wales produces enough power for its own needs.

"Transmission losses can be affected by various factors including the volume of electricity transmitted and the amount of resistive equipment electricity travels through from generation to load point. This is affected by the location of generation and the distribution of demand across the system causing varying levels of flow on the network throughout the year. Operational measures are also taken to manage system compliance and security which may affect transmission losses."

from:- National Grid Electricity Plc  
Special Condition 2K.4 – Transmission Losses Report Reporting Period 1 April 2014 to 31 March 2015

Also I feel there must be more appropriate sites where there would be less risk to an extremely sensitive area ecologically, i.e on and adjacent to the habitat of great crested newts and so close to the Rive Dee a Site of Special Scientific Interest.

#### **Air Quality effects**

I have concerns regarding the potential emissions from the power station when in use because of the potential of the acidic effects of nitrogen oxide,dioxide and sulphur dioxide on wildlife, crops and historic woodland.

Especially as the natural habitat for newts in this area is in an abundance of small ponds many of which dry in late summer and are filled again by rainfall.

Although the applicant assured me at the meeting there was no sulphur in their emissions they do talk about it being present in the Environmental Statement.

#### **6.2.8 Volume 2: Enviromental Statement**

8.6 Natural gas contains extremely low levels of sulphur

I also suspect with the decrease in supply of Natural Gas in the UK more will be imported (as this week from the USA) which I believe may not have the same standard of filtering/cleaning as we do in the UK.  
From BBC news "there is an abundance of cheap gas available around the world"

Also from BBC news "the UK should decrease producing electricity using gas by 2030 to meet the Governments carbon emissions target"

#### **Stack height Calculations**

I am having difficulty in understanding how these calculations on stack height relate to how the emissions will fall at ground level and in what concentration and form (acid?). Surely with the sensitive nature of the adjacent Newt habitat,

the River Dee SSSI only a little further afield and Bickerton Hill within easy reach this is something that should be assessed and expert opinion on the effect sought. This is NOT a "Standard" calculation surely?

I believe the emissions calculations for 'worst case scenario' are not in fact that as they are calculated assuming the plant running on a 24hr basis. Information from the National Grid's own website :-



Just an amateur such as myself can clearly observe over a period of 24hrs that the amount of electricity produced by CCGT varies hugely throughout that period alone.

From the same site:- " CCGT are gas turbines whose hot exhausts are used to drive a boiler and steam turbine. This two stage process makes them efficient in gas usage. They are also fast to get online - less than an hour in general, so they are used to cover profitable peak demand and to balance wind output."

### **Biodiversity Effects**

I don't believe the mitigation plans should be accepted until a full survey for Great Crested Newts has been conducted..... "recent survey data is required where there will be any impact " (from Government website on EPS) and I am sure there is an impact in this case.

Also from NRW website 'Any ecologist carrying out work and providing advice for a proposed development should have a **licence** to survey EPS"

Birds also are badly effected by air pollution due to their rapid rates of respiration.

I have emailed Amphibian and Reptile Conservation for opinion on the effects of this development and am awaiting reply. If permitted this can be forwarded.

I have emailed the Ecologist of the Natural Trust for opinion on the possible effects this development may have on the regenerated Lowland Heath (which is a highly threatened habitat which supports a wealth of endangered plants and animals) at Bickerton Hill and am awaiting reply. If permitted this can be forwarded.

### **Water environment**

I don't believe "run off" from the power station should be fed into ponds intended for Newt mitigation..... rain on the emissions (concentrated as not yet dispersed) = acid and the potential for ammonia to be present surely? Both of which are lethal to Newts.

### **Landscape, visual and related effects**

The photographic montages in the application are not representative...I feel the images are distorted and photographs are taken from unrealistic height/angles.



Here is a photograph taken this week from the footpath alongside the River Dee accessed from Holt near to the A534 (outside the 2k search area), Kellogs can clearly be seen for an example, I hope this can be compared to the 'montages' for perspective and distance.

The Wrexham Industrial Estate can be clearly seen from elevated beauty spots nearby but at present flat and inconspicuous ... a Power Station would change that with huge buildings, stacks and plumes of emissions.

### **Residential amenity effects**

There are five livery yards for horses within the 2k search area, three of which use Bryn Road and Ridley Wood Road for access to the peaceful lanes around Is y Coed. All of these will potentially lose business because clients are unable to hack out or are unhappy to keep their horses where there are potential emission problems, two of these yards are farmers diversifying to make ends meet.

The applicant in my opinion has completely misunderstood "tourism" in this area, "there are no tourism venues".... people come here to enjoy the outdoors and our beautiful countryside.

Is y Coed Horse and Dog Show and Pickhill Fun Ride are both annual events organised by villagers of Is y Coed, they bring visitors with their horses from as far afield as Anglesey and Manchester they raise money for local charities including Nightingale House, Riding for the Disabled at Llanfynydd, North Wales Air Ambulance along with the Village Church and School. There is a potential loss of participants and therefore money raised because of closeness of Power Station.

The Church is the heart of our community and relies heavily on money raised at the events.

Two Chester Triathlon events use our lanes, The Village Bakery Half Marathon, The Tour of Britain, Mark Cavendish's Sportive Rides, local cycling clubs hold time trials and tour our lanes regularly in the evenings and week ends, there is a road signed driving tour also. The Chester Marathon runs through the nearby villages of Holt and Farndon, Fishing Clubs have licences for fishing 'our' stretch of the Dee, the public footpaths along both sides of the Dee are well walked from Holt and Farndon right along to Bangor on Dee and beyond.

All these activities enrich the lives of local people even if they don't take part themselves, the elderly watch from their window, the young cheer from the roadside, the visitors they draw support local business and will probably visit again. Will these events and athletes want their routes to by pass a power station???

The Village Hall hire will be affected, one customer a caravan club hires out the facilities and car park for a winter holiday annually...will they want to come to look out at the power station? This will again have a knock on to the funds raised for heating and maintaining the Church.

The village school is small but thriving, encouraging young families to stay or move to our village, I'm afraid for the health of the children as will parents of attending or prospective children be. The consequence being the closure of the school and the gradual decline of our village and Church as families move away.

The Area of Outstanding Natural Beauty of the Berwyn Hills views will be blighted as will those from Bickerton Hill and the Sandstone Trail in Cheshire.

I'm sure my neighbours will have mentioned the ongoing noise issues we have already, without a torturous addition to this from construction and running of a Power Station.

I believe a worst case scenario evaluation for noise during operation hasn't been evaluated correctly as the applicant is assuming 24hr continuous operation.

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Thank you for considering my written representation.

Yours Sincerely,  
Joanna Roberts (Mrs)