

From: <email address redacted>
Sent: 24 November 2015 11:30
To: EnergyEvidence Infrastructure-Commission
Subject: Submission from <name redacted>
Attachments: Amber Rudd MP.docx

Dear Sir/Madam,

This call for evidence is seriously flawed and somewhat embarrassing to me because it is based on the erroneous assumption that electrical energy storage offers a long term 'solution'. There will be hardly any 'surplus spare' electricity to store in batteries if you are relying on expensive wind and photovoltaic electricity to charge them up. My suggestion would be to ask a more open question like, How can the UK generate all of its electricity 24-7-52 as firm capacity cheaply from renewable energy sources without burning ANY fuel at all and without using nuclear fission?

It so happens that I already have the answer and would be happy to gift it to the nation.

Please read the attached letter I recently sent to Amber Rudd carefully for some more background information.

If you are not interested and stay convinced that storing expensive random junk electricity is the solution then please let me know that my patriotism is misplaced as soon as possible. I can then approach some other government will benefit from my inventions and the UK will just have to play catchup - yet again.

Kind regards,

<name redacted>

<phone number redacted>

Amber Rudd MP
Swallow House
Theaklen Dr
St. Leonards-on-Sea
East Sussex
TN38 9AZ

14th November 2015

Dear Amber Rudd MP,

This letter will be the most important letter you will ever read because it offers the UK energy security for ever more without being beholden to other countries for supplies of fossil fuels and uranium for nuclear fission.

I have sent this letter to your constituency office address in the hope that your agent has the good sense to let you read it. I would be grateful if you send me a personal note that you have received and read it carefully within two weeks of the date above.

The sad reality is that we have wasted over 40 years blundering down the wrong path i.e. generating tiny quantities of worthless intermittent junk electricity from a plethora of wind, wave and tidal schemes. In 1973, after the price of crude oil soared, Ted Heath put out a call for 'alternative ways of raising steam' in our thermal power stations other than coal, for obvious reasons then.

Unfortunately for us and our planet, scientists and engineers at that time completely missed the point and started to develop 'alternative ways of generating electricity' from wind and waves. Had these 'pioneers' actually did what was asked of them and converted the kinetic and potential energies in wind, waves and tidal streams to raise steam; this country would be generating all of its electricity from these 'cold renewables' without burning anything at all!

The UK government, and particularly you, could be remembered for the rest of time for saving the planet by stopping, yes, not merely reducing but stopping, the burning of all fossil and bio-fuels and reducing, over time, CO2 emissions to zero. All you have to do is to announce that you are no longer going to pay any more out in ROCs and FiTs for intermittent random junk electricity [MWh(rje)] but that you will pay one third of the current electricity rates for every MWh(thermal) going into thermal storage instead. It is from this stored heat secure firm electricity is generated.

Other counties will follow your lead because their politicians will realise quickly that their country's electricity will be very cheap because they no longer need to buy coal and gas from some pretty dodgy countries. All countries will be able to generate all their

I feel it is my patriotic duty to give my own government the chance to save our planet, to increase the prosperity of the nation by generating very cheap green electricity by using the UK's natural resources to provide alternative green heat sources for our existing fossil fuelled thermal power stations. You can elect to completely ignore this letter and continue to take advice from random junk electricity 'experts' that will

say anything to get their hands on taxpayers' cash. One day in the next two or three decades when the temperature on planet Earth has risen in the order of $>3^{\circ}\text{C}$ coal exporting countries, realising that they are running out of coal, will hoard it for domestic use and leave the UK with the only option of converting the kinetic and potential energies in wind, waves and tides into and storing it – as heat.

The sooner we start converting all of our existing thermal power stations to run on renewable heat derived from the kinetic and potential energies of these 'cold renewables', the better. My fear is that you will pick up the phone and ask for advice from these so-called 'renewable experts' and they will ridicule the contents of my letter. Most politicians' eyes simply glaze over with 'technical jargon' but that is exactly what these charlatans want. You really need to be 'electrically savvy' and understand how electricity is generated and why talk of 'the energy mix' is just a load of nonsense.

The Generation of Electricity

The renewable industry has successfully conned politicians across the world into believing that the more intermittent junk electricity we generate is going to mitigate the effects of climate change. So how did they fool almost all of the people all of the time? They hijacked the term kilowatt-hour (kWh) which is a term used for the consumption of electricity (1 unit) and used it wrongly for its generation. The Scottish Government is happy to crow over meeting its targets it is not comparing like with like. Putting so many MWh(rje) in the numerator and so many MWh(e) in the denominator is mathematical nonsense. There is no 'energy mix'.

Over 93% of the world's electricity is generated thermally. This electricity is loaded onto the local utility grid as 'firm capacity' and it is this kind of electricity that keeps the lights on 24-7-52. The primary function of a thermal power station is to use its chosen heat source to raise steam to power steam turbine generating equipment. Heat sources include burning fossil fuels like coal, gas, oil, land-fill methane and other stuff like trees (aka bio-mass) and splitting atoms in nuclear fission power stations.

For the non-technical, it is useful to think of the National Grid as a big water tank filled to capacity at any given nanosecond in time. Imagine over 25 million capillary tubes at the bottom of the tank connected to our homes and businesses with 'water' flowing in line with our fluctuating demands. Obviously, provided that the 'water' flowing in to the tank matches what is flowing out, the system is balanced and stable and everybody gets all the 'water' they need on demand.

It our thermal power stations that generate what is known as 'firm capacity' to keep the National Grid's capacity to supply topped up sufficient to meet our demands. Every night when millions of us switch on our electric kettles during Coronation Street's commercial break the National Grid imports nuclear derived thermal electricity, as additional capacity, from France, to keep our lights on.

Raising steam by splitting atoms (nuclear fission) in a 'controlled thermo-nuclear explosion' has got to be the most expensive and dangerous way of boiling water ever devised by Man. I think we both know that the cost of building the nuclear power station at Hinkley Point with a strike price of £92.50/MWh(e) will at least double to over £100 billion pounds and this money could be better spent converting all our existing thermal power stations to run on a renewable heat source and raise 'green steam' instead.

With all of our existing thermal power stations running on 'green steam' and no fuel to buy and import the UK would be completely self-sufficient as the price of green electricity would drop to less than 10 pence/MWh(e) within the next 10 years – if we start now converting our thermal power stations to run on renewable heat without burning anything at all.

In Paris at the end of the month you can announce to the UN that HM Government is no longer accepting and throwing good money after bad for intermittent random junk electricity. It will only accept, and pay for every MWh(thermal) that is stored in large thermal accumulators. This is the only way of saving the planet from overheating by stopping, not merely reducing, the combustion of all fuels to raise steam.

Existing wind turbines can be easily converted to supply heat into storage and if the wind energy engineers do not know how to do this they are free to write to me and I will tell them how to do it gratis.

One day, when there is nothing left to burn, all electricity will be generated thermally converting stored heat into firm capacity electricity. Using renewable heat means that huge volumes of desalinated water can be produced as a by-product of the generation process. This very cheap water can be used for irrigation so that crops can be now grown in arid regions to feed the world's burgeoning population.

In Scotland, Fergus Ewing has surrounded himself with these 'renewable energy experts' and he has set up Wave Energy Scotland (WES) based on their advice to 'encourage private investment'. The poor man does not realise that he has been duped into spending around £150 million over the next 10 years and that at the end of the term there will still be no private investors. The problem is that Goldilocks' arriving at any fixed location off the west coast of Scotland, only occur for about 20% of the year so that 1MW Wave Energy Converter (WEC) that cost upwards of £200 million to build does not produce any junk electricity for 80% of the year. Wave derived electricity currently attracts 5 ROCs/MWh in Scotland and, of course, contributes absolutely nothing towards mitigating climate change. Also, it is worth pointing out that no fixed location wave machine has ever survived two winters anywhere in the world because they cannot get out of the way of storms like Abigail.

There is lot more but your eyes are probably glazing over – but you have it in your gift to be remembered as the politician who saves the world by actually taking the time to read this letter.

I am quite happy to come down to London outline how renewable heat without burning anything at all is the only way that we can stop global warming to 1°C. It is in your power to stop any more payments for useless junk electricity and if you do this I can gift you my British Patent gratis that will not only supply our beleaguered planet with electricity as firm capacity it will also provide trillions of tonnes of (flash) desalinated water to feed us all .

Yours sincerely,

<name redacted>