

Internal Only

Dear Response Team

I am poorly equipped to offer the depth of detail that you clearly seek in your catalogue of questions.

Please consider carefully the impact of the following:

1. Variable tariffs and charging structures, if applied to the domestic customer, will impart hardship to those in our society who are needy, aged or for whatever reason are unable to partake fully.
2. A flexible system relying heavily on modern communications networks for its operation may in the wake of a natural disaster result in a significantly impaired energy system. For example significant solar activity like the **Carrington Event**.
3. Volcanic activity in the bay of Naples, namely **Campi Flegrei**, may impair contributions from solar PV systems for a considerable length of time.

Clearly, the value contributed by renewable energy sources, wind, solar and tidal will be maximised with storage technologies applied at all levels in the distribution system to overcome constraints and curtailment. We need incentives for operators of these resources to install storage on site (behind the meter). The **Hydrogen Vector** is coming and fast.

We desperately need the infrastructure put in place to power hydrogen FCEV's and to make Power to Gas happen.

I am firmly of the opinion that there is no substitute for conventional rotating generating plant to ensure stability of our electrical distribution system.

**We need and must have generating sets powered by Small Modular Reactors.**

I am sure that the following websites will be of interest and may well assist your quest:

<http://www.zeroemissions.org/>

<http://www.nuvera.com/>

<http://www.hyet.nl/newsite/>

<http://www.itm-power.com/news-item/100mw-electrolyser-plant-designs-to-be-launched-at-hannover>

<http://www.world-nuclear.org/information-library/current-and-future-generation/electricity-and-energy-storage.aspx>

<http://services.kiwa.co.uk/energy-carbon-advice/hydrogen/hydrogen-reports-news> A collection of really useful reports with lots of technical detail.

<https://www.youtube.com/watch?v=5-iDUCETjvo> Jeremy Rifkin: "The Zero Marginal Cost Society" | Talks at Google

<http://conferences.theiet.org/mountbatten/about/webcast/index.cfm> OR <https://tv.theiet.org/?videoid=7379> The New Energy Landscape

Kind Regards

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