

# Your views on the opportunities and challenges of a digitalised electricity system

User:

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## Summary of information submitted

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Yes

***Who are you submitting as? \****

Industry participant

***First name \****

Bryan

***Last name \****

Leyland

***Email \****

[REDACTED]

**1. What could stop or slow digitalisation of the electricity system? What would make it successful? How far should digitalisation go?**

I really don't know because I don't understand what you mean by "digitalisation". It would be successful if it helped to keep the lights on and keep electricity prices at a reasonable level. That should be its primary aim.

**2. Do you agree with how we have defined 'data' and 'information', especially in the context of making data more visible?**

No comment

**3. What data do you think needs to be more visible?**

Just how we are going to keep the lights on and a reasonable price when there are large amounts of wind and solar power and it all goes off. Somebody should be doing modelling on this and how the system would react when there is a surplus of wind and solar power.

**4. What challenges do you think we might face in trying to increase visibility? What considerations need to be given to data privacy or cybersecurity? How could increasing visibility create more opportunities for consumers, participants and innovators?**

Cyber security is number one. Especially with the revelation that the Chinese have a back door into Chinese made wind and solar farms that would allow them to shut off the farms remotely. It also may be possible for them to put the inverters into short circuit and destroy everything.

**5. What work are you planning or doing to increase visibility within the electricity system? Are you aware of any work that contributes to this goal?**

Apart from pointing out the problems generated by a seriously flawed market (note comments from Keith Turner) and the building of power stations without consideration to the costs that they impose on the system such as backup, extra transmission capacity and problems with systems stability.

**6. What challenges do you think we might face in increasing interoperability? What other opportunities do you think greater interoperability will bring?**

Increased risk of System collapse. I'm not sure if it will bring any opportunities. I am not sure if anybody has ever established that it will contribute to an economic and reliable supply.

**7. What work are you planning or doing to increase interoperability within the electricity system? Are you aware of any work that contributes to this goal?**

The only thing that I have done is develop a smart thermostat for domestic water heating that is a major advance on the old ripple control. It can also manage frequency which is becoming more and more difficult. I have tried to get the industry, the Electricity Authority and EECA interested in it over the last 15 years and totally failed. It does not fit into the present market structure which does not adequately reward industry participants for providing a reliable and economic system in the short and long-term.

**8. What challenges do you think we might face in simplification? How could simplifying create more opportunities?**

The biggest simplification we could make it stop promoting expensive and ineffective rooftop solar.

**9. What work are you planning or doing to increase simplification within the electricity system? Are you aware of any work that contributes to this goal?**

Promote my smart thermostat. Promote switching to a market structure that is obviously better than the existing one.

**10. Do you have any other comments on this paper?**

It seems to have forgotten that a reliable and economic supply is more important than anything else. Yet it doesn't get a mention.

**Written feedback and/or supporting documentation**

**We will publish all survey responses on our website alongside your name and organisation (if applicable). Are you happy for the Authority to publish your submission? If you think we shouldn't publish any part of your survey response, please select 'No' and let us know what parts should not be published and why in the box below. \***

Yes

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