

**The Voice of the Networks**



# **Energy Networks Association**

## **Open Networks Project**

### **Workstream 3: Future Worlds Consultation – Webinar (13 September)**

**18 Sept 2018**

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## Introduction

The ENA Open Networks Project, which is laying the foundation for a smart grid in the UK and Ireland, has launched its Future Worlds consultation to seek industry view on the future electricity network, which is open from the 31st of July to the 25th of September 2018. ENA hosted a dedicated webinar on the 13th of September for stakeholders to engage directly with the project team to better understand the Future Worlds consultation and ask any questions.

Questions	Open Networks Response
<p><b>Local Community Systems – where do they fit into the groups?</b></p>	<p><u>Andy Wainwright – National Grid</u>            There’s an actor named <i>Local Energy Systems</i> – this covers a range of different stakeholder groups, including community energy groups, local authorities and anybody else who’s looking to provide a flexibility service or some other form of energy service on a local basis.</p> <p>It would be good to know in you consultation feedback if you think it’s an appropriate actor, if it needs to be split up some more or whether you think there’s a gap. We’ve had this feedback for and it’s always good to get those questions come through.</p> <p><u>Jason Brogden - ENA</u>            In a couple of stakeholder events, there’s questions as to whether we need to split that out into community energy schemes and local authorities or more aggregated buying. So if you can have a look at that and see whether we need to split that out – if there’s different information to be exchanged, if there are different instructions off the back of resources that may exist in the network, that would be really useful for us.</p>
<p><b>Data Sharing – to what extent do we see interactions between DNO and ESO data models and real time data sharing?</b></p>	<p><u>Jason Brogden - ENA</u>            Andy referenced the SGAM models earlier, and the fact we have the HTML versions available at a level of detail in the consultation documents. If you drop into those models, what you can see within there is what data is exchanged between what roles, what information is contained in that and an assessment of the immediacy or the latency associated with the exchange of that data.</p> <p>So what is says, for example, is that if there’s an exchange of data required between the ESO and the DSO in one of those models to support procurement – it will say what that data is, whether it’s a real time exchange, whether it’s a report, whether it’s a periodic publication or it has a certain amount of latency associated with it. That level of detail is in SGAM models for every exchange of data in all of the five models. So we have that down at what’s called the information layer/the comms layer for the SGAM models. It will require you to go into the level of detail and go into the models to understand that individual information exchanges, but that information does exist in the models.</p> <p>Have a look at the <i>Assessing the Worlds</i> criteria and provide us with some feedback if you don’t think we’ve picked out</p>

	<p>the right evaluation criteria, because that's the sort of functional analysis that's a key part of the differentiation between the models.</p> <p><u><i>Andy Wainwright – National Grid</i></u>          Have a look at the <i>Key Enablers</i> section. Alan Collinson, the author from SPEN, is quite keen on data and quite keen on how that needs to be managed and used in the future. There are some quite detailed thoughts in there. But again, this is open to comment and feedback. If you think there's anything missing or you have any thoughts on comments that are in there, please let us know.</p>
<p><b>Have ENA given some thought as to how the Open Networks links with the IET's Future Power Systems analysis models?</b></p>	<p><u><i>Jason Brogden - ENA</i></u>          We did some work very early with IET – we were working in collaboration when we were looking at the scope of our work and our development of DSO is an integral element of that overall system architecture. We talk about whole systems thinking in Open Networks and, as I said at the beginning of my presentation, we're really focussed on the whole electricity system with a view on how we exchange information, so you'll see actors for heat and gas. But we are largely focussed on whole electricity systems and what we've agreed with the FPSA is, given the scope and the drive to support from some of the Ofgem and BEIS initiatives, we would take on that DSO – that whole electricity system element that's required for the Future Worlds.</p> <p>Our work is complimentary to the FPSA work and the next scope of what they're looking at is enabling frameworks and how the governance might work to support what we're developing and what other elements of the industry are developing and ensuring that we have an implementation path in licencing regulation and governance. So, we've been working with FPSA and ensuring that our work is complimentary and not contradictory.</p>
<p><b>How can the models be accessed on the ENA website?</b></p>	<p><u><i>Farina Farrier - ENA</i></u>          We have links on one of the slides to all of the five worlds. We will be publishing the slides to our website, so you can access them from there. However, we've also got links to the worlds on our Future Worlds page on our website.</p> <p><u><i>Andy Wainwright – National Grid</i></u>          The related point is that the whole session today will be recorded as the previous webinar was. So feel free to tell your colleagues that they can go in [the ENA website], and listen to it again if they need to.</p>
<p><b>Could you please explain why World C isn't assumed to be a part of all the other worlds, but is being considered as a separate scenario?</b></p>	<p><u><i>Jason Brogden - ENA</i></u>          We do expect World C to be underpinning all of the options we have for DSO. It's a world that Ofgem explicitly asked us to cover. We've included price driven flexibility as an explicit model and what we're looking at is the output from the Charging Future work that's been done under Ofgem, which is looking at setting policy for access and future looking charges. I think what we'll end up with in the price driven</p>

	<p>flexibility market is we'll look at what price signals get landed at from Ofgem out of the Charging Future work – we'll take that into account across any DSO models for the future and there'll be an (impact) assessment as to how successful that might be in driving behaviour and releasing some flexibility and whether we need additional activities to occur in order to deliver what we need for operational management and investment planning.</p> <p>I think generally, our views at the moment is that price driven flexibility is an integral part of any DSO model, but it doesn't deliver everything that we need to meet the functional requirements that we set out, so it's likely that we'll need one of the other models, or a hybrid of one of the other models, to actually enable us to procure and dispatch flexibility services to deliver what we need for the regional networks.</p> <p><u>Andy Wainwright – National Grid</u> We looked, when initially developing World C, at something that put in the work on charging and access arrangements, and it was a case of 'which one of these commercial principles models do we base this on?' or 'do we have to do it again for each of these commercial principles models we're doing?'. We took a view that you could put it on one and then look at how it would affect the others in the future – which is the approach we're taking.</p>
<p><b>How do you intend to evaluate scenarios where the best option is to combine more than one world?</b></p>	<p><u>Jason Brogden - ENA</u> I don't think the answer is going to be World A, B, C, D or E – I think what we're going to find is that we'll find certain characteristics from different models that are providing the most benefits to consumers or connecting customers. There will be a number of ways in which a DSO will be executed that we will want to pick up in that hybrid model or something similar. We have asked our consultants [for the impact assessment] to concentrate on the differences in the models and pick out the characteristics, constraints or barriers might be associated with each of those models. Then I think from there, which set of characteristics etc. will help us to build a view on what subset of models we may want to take through to the next set of policy discussions. What we've done with these five models is give a really clear definition of those models so we can pull out some of those characteristics and constraints.</p>