

Demand Side Response – Remotely Initiated Round table discussion

Introduction to discussion session on DSR APC etc

**ENTSO-E public consultation workshop on
Demand Connection Code (DCC)**

Brussels 9th August



Reliable Sustainable Connected

Introduction to topic

- What types of DSR services are we focused on?
- Who are the likely customers for these services? Are their needs reducing or growing?
- What is the capability NC DCC is asking for?
- How is this envisaged to be used? Will this be specified in this code?
- Why is this possible capability proposed as becoming mandatory?
- Why is there not more emphasis on existing services of this kind from Industry?

Introduction to DSR remotely initiated (i)

What types of DSR services are we focused on?

- Demand (Real power) being **moved in time** based on someone's need / willingness to pay

Who are the likely customers for these services?

- **Suppliers** of energy – likely major focus: time of day / match to RES availability – often / all the time
- **DSOs** – new network constraints for coping with large new demands such as EV & heat pumps – reasonably often in future
- **TSOs** – balancing reserves and managing localised post fault network constraints – rarely used

What is the **capability** the NC DCC is asking for?

- Ability to be **defer demand** once the consumer has initiated its usage and **restart demand use**
- Both when receiving **a remote externally initiated signal**

Are the needs for these services reducing or growing?

- **BIG INCREASES EXPECTED**, in some countries soon (2015) but in most others post 2020 / 2025
- **Main drivers for increase**
 - Impact of large scale expansion of RES
 - Impact of expected increase in use of electricity for road transport and heat pumps

Introduction to DSR remotely initiated (ii)



What types of demands are expected to be suitable for delays up to hours?

- Industrial and commercial demands already doing this now – encouraged to expand
- Example of new suppliers on reasonably large scale
 - Car parks EV charging- focused on longer term parking , e.g. at work and communal at homes (blocks of flats)
- Domestic demands which can be moved by minutes & hours normally with minimal inconvenience
 - Wet appliances: washing M/Cs, dish washers / tumble driers
 - EV charging at own property
- Ensure facility to disable service for times when it would be significantly inconvenient – consumer in charge
- Ensure if you do not want to participate, at all (i.e. never) you do not have to and you have convenience in making this choice

Introduction to DSR remotely initiated (iii)



How is it envisaged that this will be used?

- Through a market mechanism.
- At present some countries have their own markets already
 - Although little or no cover at domestic level

Will this be specified in this code?

- No, the NC DCC only deals with CAPABILITY as per FWGL
- At European level other NCs for Markets and System Operation are under development

Why is this possible capability proposed as becoming mandatory?

- The capability required is simple
- Multiple versions for sale introduces undesirable complexity and is uneconomic

Why is there not more emphasis on existing services from Industry of this kind?

- Industrial and Commercial applications are not in as much need of encouragement
- Such services are already functioning in many countries
- Commonly remunerated by national / local market arrangements based on usage

Possible topics for discussion / feedback in this session

CONTENT ISSUES

Stakeholders views:

- What supply chain challenges are envisaged for equipment?
- What is your view on the ENTSO-E principle: If consumers are affected they must have a choice?
- They must be remunerated for flexibility?

Views on ENTSO-E direction:

- 'Call for stakeholder input' consultation concluded that **Markets** for **USAGE** with payments but **Mandatory Code** for basic Demand Usage adjustment **CAPABILITY**
- The introduction should be on a national basis, based on need and readiness and with:
 - Pan European collaboration – at least at synchronous area level
 - Details / specification through European Standards.

COMMUNICATION ISSUES:

- How can possible public fears best be managed? Is remuneration for flexibility the only answer?

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- Thanks for your attention!