

System Wide Resource Register

Information Sheet

What is it?

The System Wide Resource Register is being developed through the Open Networks project to provide improved information to electricity network stakeholders on connected resources and network requirements.

It would comprise data registers for each of the network companies. These would have a consistent format and would be regularly updated. The registers would provide information on generation and storage resources (initially >1MW) that are connected, or accepted to connect, to the GB networks, as well as the network reinforcements associated with new connections.

The database would also include information to provide greater visibility of flexible resources and services including flexible demand. This would initially include flexible resources that are already contracted to provide services (subject to confidentiality constraints). It could also include other resources that have the potential to provide flexibility services (as indicated by asset owners).

The overall aim of the System Wide Resource Register is to make it easier for customers and network companies to see connected resources, network reinforcements and opportunities for flexible services.

What data would be included?

The database would largely comprise a list of assets that are connected (or accepted to be connected) to distribution and transmission networks together with the network reinforcements that are required to enable new connections.

Customer name & type	Generation, storage, flexible demand & resource type (e.g. wind, solar, battery etc)
Connection location	Licence area, transmission or distribution, Grid Supply Point, Bulk Supply Point and associated Primary Substation
Connection details	MW/MVA connected (or contracted). MW/MVA export and import. Flexibility of export and import.
Network reinforcements	Works reference, description and planned completion date
Reinforcement type	Is reinforcement related to connection or is it more general? Is it Thermal (Generation or demand), Fault Level or DNO Driven?
Reinforcement location	Licence area, transmission or distribution
Customer associated with reinforcement	Customer name, site, Grid Supply Point and queue position and completion date

Certain fields providing information on flexible resources may have restricted access:

- Flexibility service provision (of connected customer/asset)
- Type of service, contract duration & Exclusivity

How would I use it?

As a **customer seeking connection**, I would like to see what is connected and contracted, and where there are network limitations, so that I can identify where there may be opportunities to connect now or in the future. This might include opportunities for non-firm as well as firm connection arrangements.

- As connected and contracted export and import is provided down to primary substation level along with associated network reinforcements, customers will have information to help assess if their connection is likely to be possible at particular Primary Substations/GSPs/BSPs.

As a **connected customer**, I would like to see what flexibility capabilities have been declared by other assets in my area so that I can assess the potential to offer flexibility services to Transmission or Distribution networks.

- As the database is proposing to provide contracted and potential flexibility capability, customers could assess opportunities to participate in flexibility markets and provide flexibility services.

As an **aggregator**, I would like to see what flexible resources are located in different areas, so that I can assess the potential to aggregate flexibility services to Transmission or Distribution networks.

- As the database is proposing to provide contracted and potential flexibility capability, aggregators could assess opportunities to participate in flexibility markets and to build and provide flexibility services.

As a **network company**, I would like to see where connected customers could provide flexibility services to the network, so that I can assess the effectiveness of non-build network solutions as alternatives to network reinforcement.

- As customer flexibility capabilities are provided on a locational basis, this will help network companies identify the potential to deliver cost savings through the use of flexibility services.

As an **infrastructure provider**, I would like to get a better understanding of what further electricity network development might be possible within an area.

- As energy resources and network limitations are provided on a locational basis, stakeholders can determine where best their infrastructure might be developed.

As a **wider stakeholder** of the electricity system, I would like to better understand how many energy resources are connected in a particular area.

- As resource information is provided on a locational basis, stakeholders can determine what levels of resource are already connected or contracted to connect.