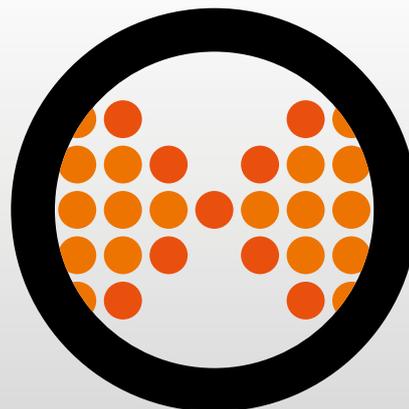


AFFINITY SUITE networkflow

Network Data Management



Electricity Flexibility & Forecasting

Western Power Distribution (WPD), in partnership with AMT-SYBEX, has been awarded funding from Ofgem to support the use of flexibility services on distribution networks. Up to £2.9m of innovation funding has been awarded by Ofgem, as part of the Electricity Network Innovation Competition, to develop an Electricity Flexibility and Forecasting System (EFFS). The EFFS project will support DSO transition by specifying, developing and trialling software to plan and despatch flexibility services in operational timescales.

Jenny Woodruff, Innovation and Low Carbon engineer at WPD, said:

"EFFS is going to be an important piece in our DSO transition puzzle equipping us to perform the new functions of a DSO. Like a jigsaw piece it will link to other important elements including the Open Networks project, which is defining the details of the DSO interactions, existing WPD projects for flexibility services and new projects by other DNOs."

John Hayling, continued:

"AMT-SYBEX will be responsible for developing the system and for the overall project management including delivery."

This will build upon the solution that was deployed by UK Power Networks as part of their Smarter Networks Storage project. We look forward to developing the Networkflow solution to enable the delivery of flexibility services for WPD."

Overview

Newly affordable technologies such as energy storage, electric vehicles and smart meters are transforming the landscape of the UK energy markets. Distribution Network Operators are now having to consider flexibility and forecasting methods to effectively manage these complex parts of the system and help them manage the transition from DNO to DSO.

Now with Networkflow, you can seamlessly and intelligently manage your energy flexibility and forecasting requirements using a single system.

How does it work?

Forecasting

The forecasting module allows creation of forecasts for both Demand and Generation. Forecasts can be produced at different time horizons including:

- **Month Ahead** – for long term signposting of flexibility requirements
- **Week Ahead** – to enable priming and procurement of flexibility services
- **Day Ahead** – to enable dispatch of primed flexibility services
- **Within Day** – to enable accurate utilisation of flexibility services

Data feeds for the forecasting algorithm include weather, location and historic load information.

Forecasts provide the input to our "Capacity Engine" which compares equipment ratings with the forecast to identify periods where flexibility may be required. The Capacity Engine can also integrate with external Powerflow Analysis tools where required.

Optimisation

The service management module interacts with Flexibility Providers and external Market Platforms to capture "available flexibility" services. These services, along with the output from the Capacity Engine then provide the inputs to the Optimisation process. Optimisation assesses all requirements for flexibility and tries to respond to them using the available services. The output is an Optimised Service Calendar that is then published back to interested parties. The optimisation module also plays a role in managing conflict avoidance between other market participants.

Why Networkflow?

The product is modular in nature allowing for flexible deployment options in line with market role or customer requirements.

- Reduce your capital expenditure and decrease the time needed to expand capacity
- Make greater use of the most economic sources of energy
- Delivers a dynamic & flexible platform to automate meeting the demands on DSOs
- Provide better insight into future demand
- Built on a proven platform
- Single supplier for fast deployment & effective support

Systems work better when they have Affinity.

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