

Towards a net zero energy future



About UK Power Networks



3 Licence Areas

London, South East and South Eastern Power Networks

8.3m homes and businesses

28% of UK Total

16GW Peak Demand

28% of UK Total



Towards a net zero energy future

Forecast **4.5m** Electric Vehicles in our regions by 2030

Consumer lifestyle impact
Comfort | Energy Efficiency | Fuel Poverty

712,000 heat pumps in our regions by 2030

- One size does not fit all
- Electricity will play a role
- Must act now

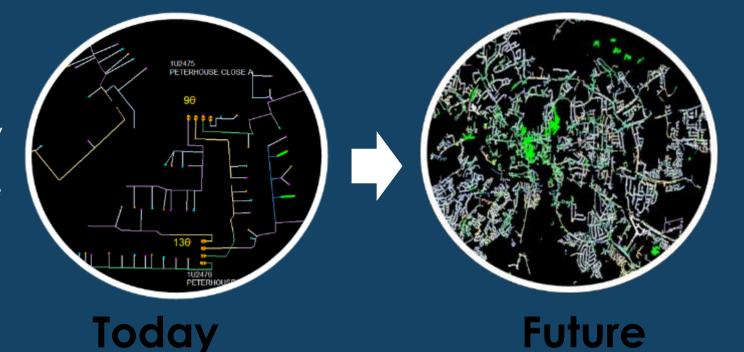


LV Network Visibility & Monitoring



An integrated, active LV control system is a key enabler to achieve next level performance at LV and facilitate smart solutions.

- Limited functionality
- No connectivity
- Just a Picture
- Unable to trace



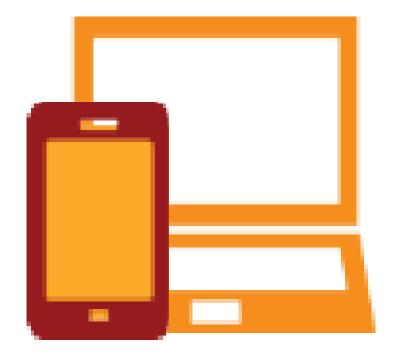
- LV Connectivity & monitoring
- Automation
- Network data by feeder and phase
- Customer Service improvement

Envision

Developing a software based machine learning tool that will generate greater Low Voltage (LV) network insights faster and cheaper compared to traditional methods of physical monitoring.

- Develop and deploy the machine learning software tool
- 2. Understand the role, value and how third party data could be used to unlock greater insights

If you have data relating to energy generation and storage, electric vehicles or heating, we want to hear from you! Get in touch - email innovation@ukpowernetworks.co.uk to find out how we might be able to work together.



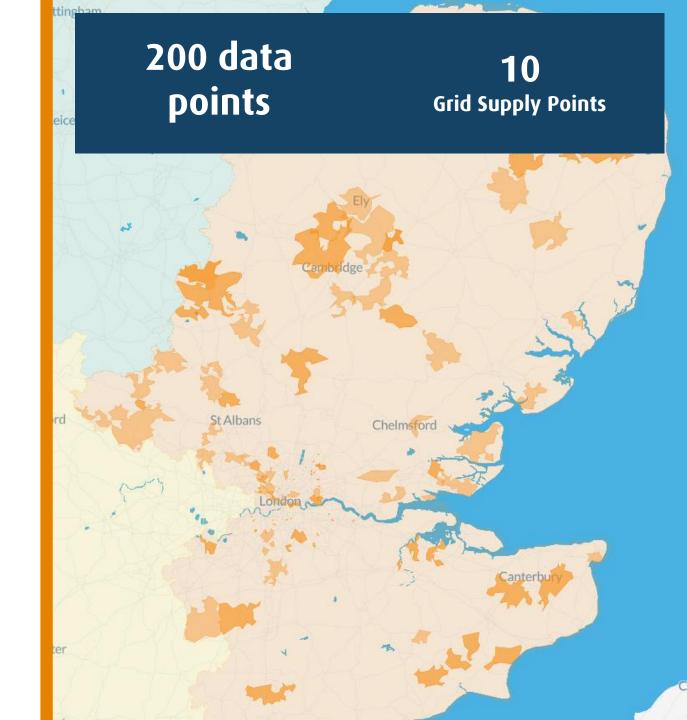


Open data – DSO Dashboard

Launched a dynamic interactive dashboard of detailed real-time network information based on Distribution Energy Resource (DER) community requirements



https://dsodashboard.ukpowernetworks.co.uk/



Flexibility

Subscribe to our flexibility mailing list or contact the team

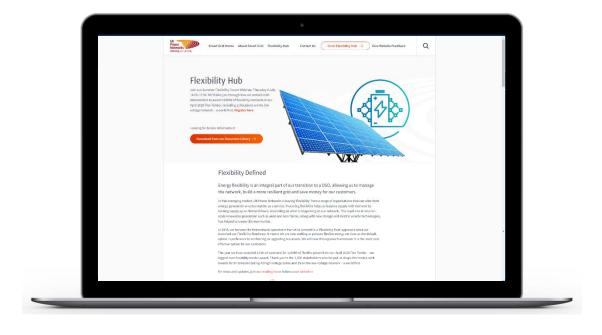
flexibility@ukpowernetworks.co.uk

View zones on Piclo Flex

Picloflex.com/dashboard

Visit our website for full tender details

smartgrid.ukpowernetworks.co.uk/flexibility-hub



All the information you need to apply 1:1 sessions available





Making our data open, available and transparent



Launched our Open Data page in March 2020, we're determined to continue to push boundaries and create a culture of open innovation and data sharing in the utility industry.

https://innovation.ukpowernetworks.co.uk/open-data/

Call to Action

Envision

If you have data relating to energy generation and storage, electric vehicles or heating, we want to hear from you! Get in touch

- Find out more on the Envision Project
- To find out how we could work together to help better plan and facilitate a Net Zero future email at this link

DSO Dashboard

Check out the DSO Dashboard, let us know how it is for usability and where we could develop it further

- View the dashboard here
- Give us feedback and join our forum here



Conclusions



We are focusing on what matters to customers

We are developing a suite of solutions to enable the transition

Data and innovation are key on the road to Net Zero

Collaboration is key to ensure everyone achieves Net Zero



Thank You



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