

Reducing Grid Constraints for Northern Powergrid



elementenergy



Moixa have successfully deployed the GridShare Partner software platform, to dynamically manage storage assets, in order to alleviate local grid constraints for Northern Powergrid in Barnsley, England.

Mission

40 Moixa Smart Batteries were deployed in the grid constrained area, along with the Moixa GridShare software platform, to provide the NPG project team with visibility and control of the assets.

The site is a residential housing complex in Barnsley which is served by project partner, Berneslai Homes, a residential social landlord. Residents directly benefit from reduced electricity costs and the GridShare Client software which allows them to track their energy savings and smart battery behaviour for the first time.

Benefits

- ✓ GridShare allows NPG to **reduce the load** on the local substation **by 30kW**
- ✓ **Electricity bill savings of up to £250 per year per home**
- ✓ Moixa has enabled over **100kW of additional clean solar generation**



“ Moixa GridShare has unlocked new potential in the Barnsley area. By giving the project partners easy to use battery management software, we can now add more solar homes to previously constrained areas which required grid upgrades. The project is also providing real energy savings to local residents ”

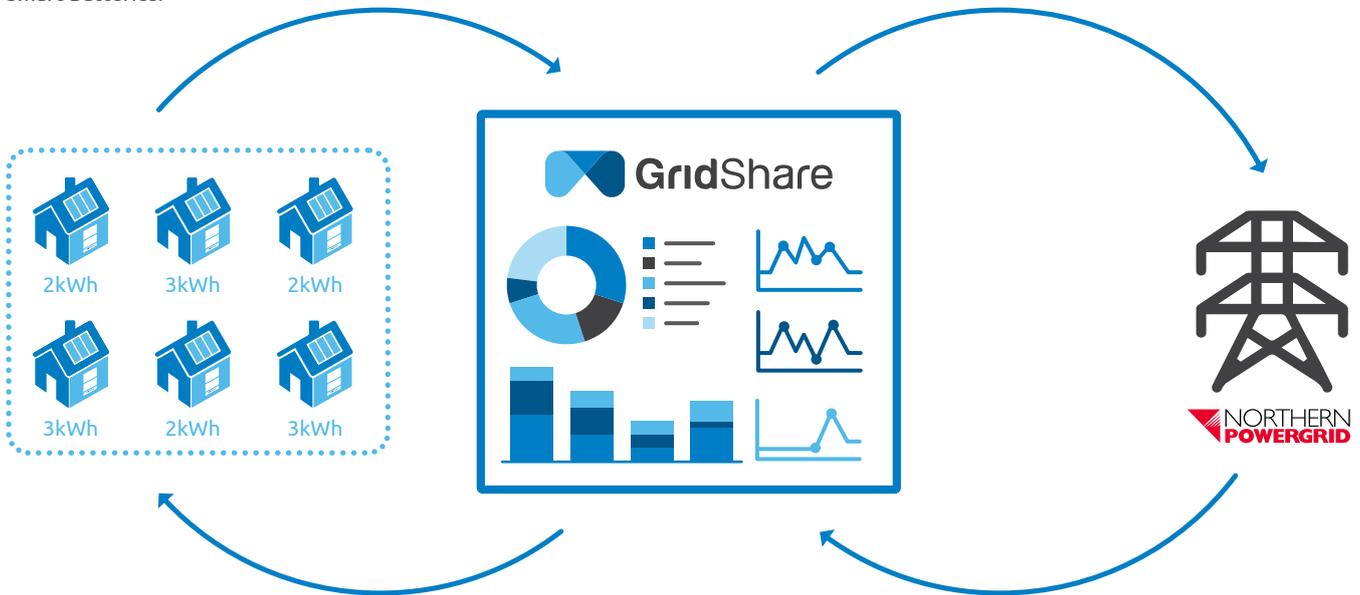
Andy Heald, Energise Barnsley

Figure 1: How Moixa Manages Grid Constraints for Northern Powergrid.

Effective 100kWh "virtual battery".

Barnsley housing complex
2kWh & 3kWh Moixa
Smart Batteries.

GridShare sends information
about asset availability.



Moixa GridShare Partner sends commands
to each smart battery to deliver tenant value
and dynamically manage grid constraint.

Northern Powergrid sends
information about constraints.

“ Our partnership with Moixa aims to provide real value to residents in Barnsley whilst exploring how much batteries can reduce constraints on our distribution network. We encourage and promote projects that help reduce customers’ bills from their chosen supplier and enables them to connect more low carbon technologies to our network. We look forward to finding out how Moixa’s battery management software can be used to help us achieve these key priorities for us and our customers.”

Paris Hadjiodyseos, Northern Powergrid’s Smart Grid Development

About Moixa

Moixa is the UK’s leading designer and manufacturer of a solar domestic battery and platform for managing storage services. The company acts as a full-service battery operator, providing smart hardware and software, called GridShare, to manage increasing fleets of distributed energy storage across for variety of customers, utility, local network and grid services.

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