SNRG ENA Energy Innovation Summit 2024 ANTIN Emerging innovation from supply chain and services Centrica On challenges and opportunities from aggregated flet

On challenges and opportunities from aggregated flexibility within housing developments as microgrids

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About Us

Our Backers:

centrica ANTIN

Our Mission:

To fund, build and operate place-based, renewable energy systems that accelerate the all-electric, net-zero transition.

We operate in:

Residential Industrial Commercial

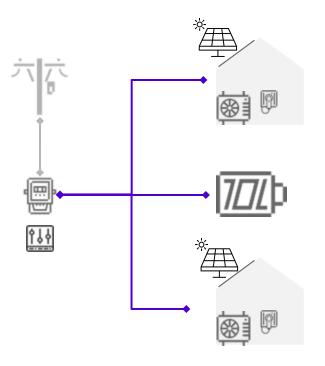
New build and retrofit sub-sectors

The move from dual fuel homes to all electric sustainable homes increases costs and harms development viability

Microgrids are a solution to this issue



Microgrids in a nutshell



- Single grid connection
- Private Wire Network [PWN] to houses, apartments, and other loads
- NERS-compliant design and install by ICP
- Shared renewables and electrical storage
- Driveway, remote-allocated, communal and public EV charging
- G100-compliant Customer Limitation Scheme for distributed flexible assets
- Optimise demand to reduce costs
- Applicable to Industrial/Commercial, and mixed-used developments

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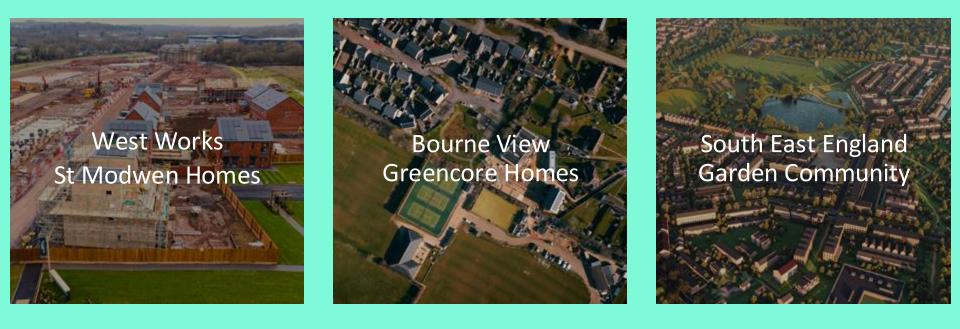
Microgrids can support the transition to net zero in a fair, efficient and affordable manner

	Generation	Demand	Capacity
Users	 Sharing generation & storage on all home types Funded assets, making net zero energy affordable 	 Optimised demand to avoid peak costs and self-consume renewables Demand reduction for heating systems Access to EV Charging without CPO premiums 	 Maximise development in areas of limited grid capacity Compatible with Heat Networks Unlock value from Flexible (Constrained) Connections and Flexibility Services
Networks	 Access to real-time data and forecasts Ongoing maintenance & compliance of generation assets by funder 	 Access to real-time data and forecasts Synthetic diversity to manage import capacity with dense deployments of Heat Pumps & EV Charging 	 Compatible with Flexible (Constrained) Connections Efficient allocation of export capacity

How can collaboration overcome challanges to maximise the opportunities from Microgrids?

- Increased visibility of Flexible (Constrained) connections
- Ease of access to Capacity ramping arrangements
- Aligning ADMD assumptions for low-carbon Heat technologies to applied control systems
- Continuing updates on ADMD assumptions for EVCPs, especially those outside dwellings
- Recognising the value of distributed G100 schemes, especially for demand
- Supporting phased deployment of small-scale generation & storage under G99
- Supporting G98-scale assets where the G99 Type B threshold if reached
- Sharing data real-time and historic to improve assumptions and network operations

Where are community SmartGrids happening?



Thank you.

For more information, visit: www.oursnrg.com

Or email: David.Kane@oursnrg.com

