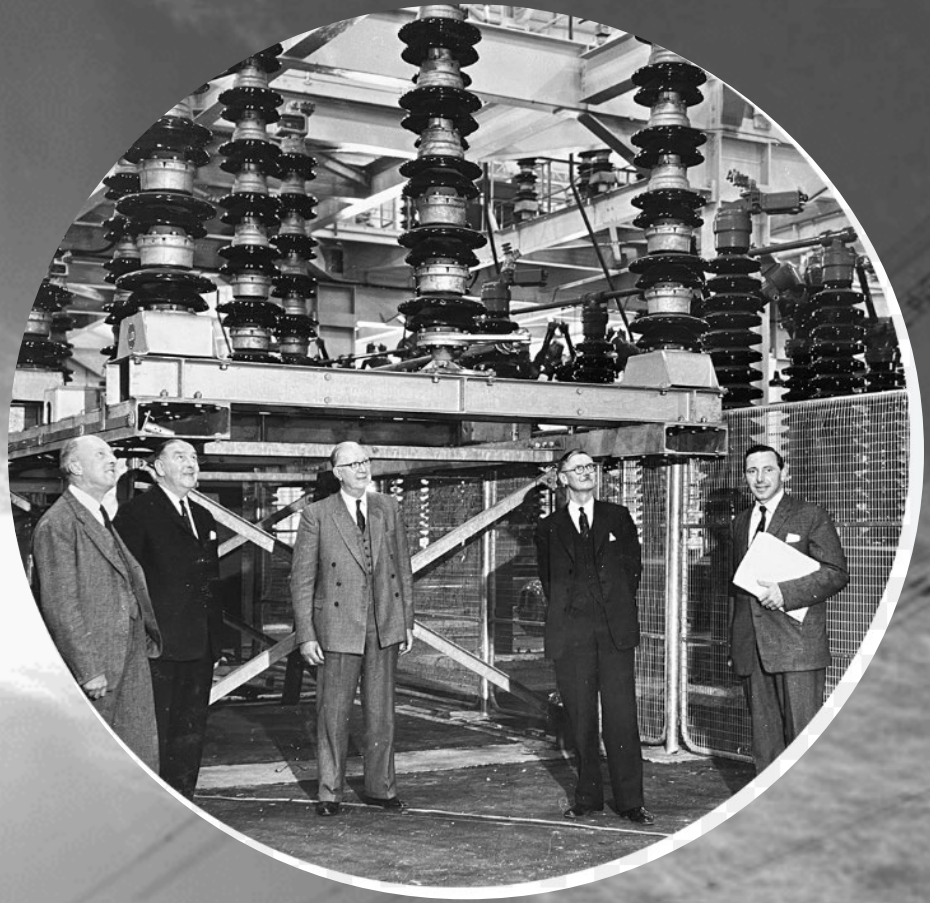
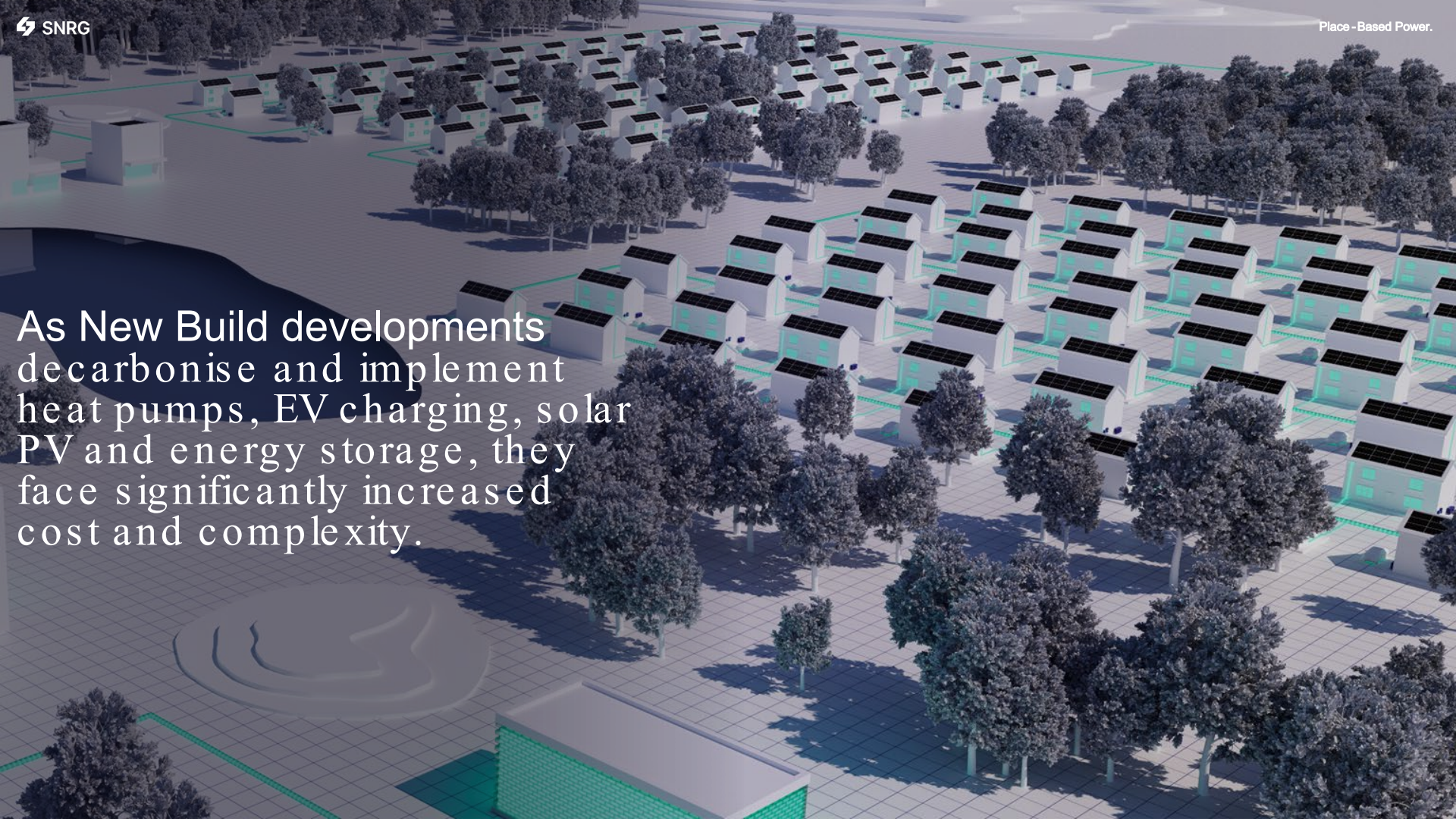


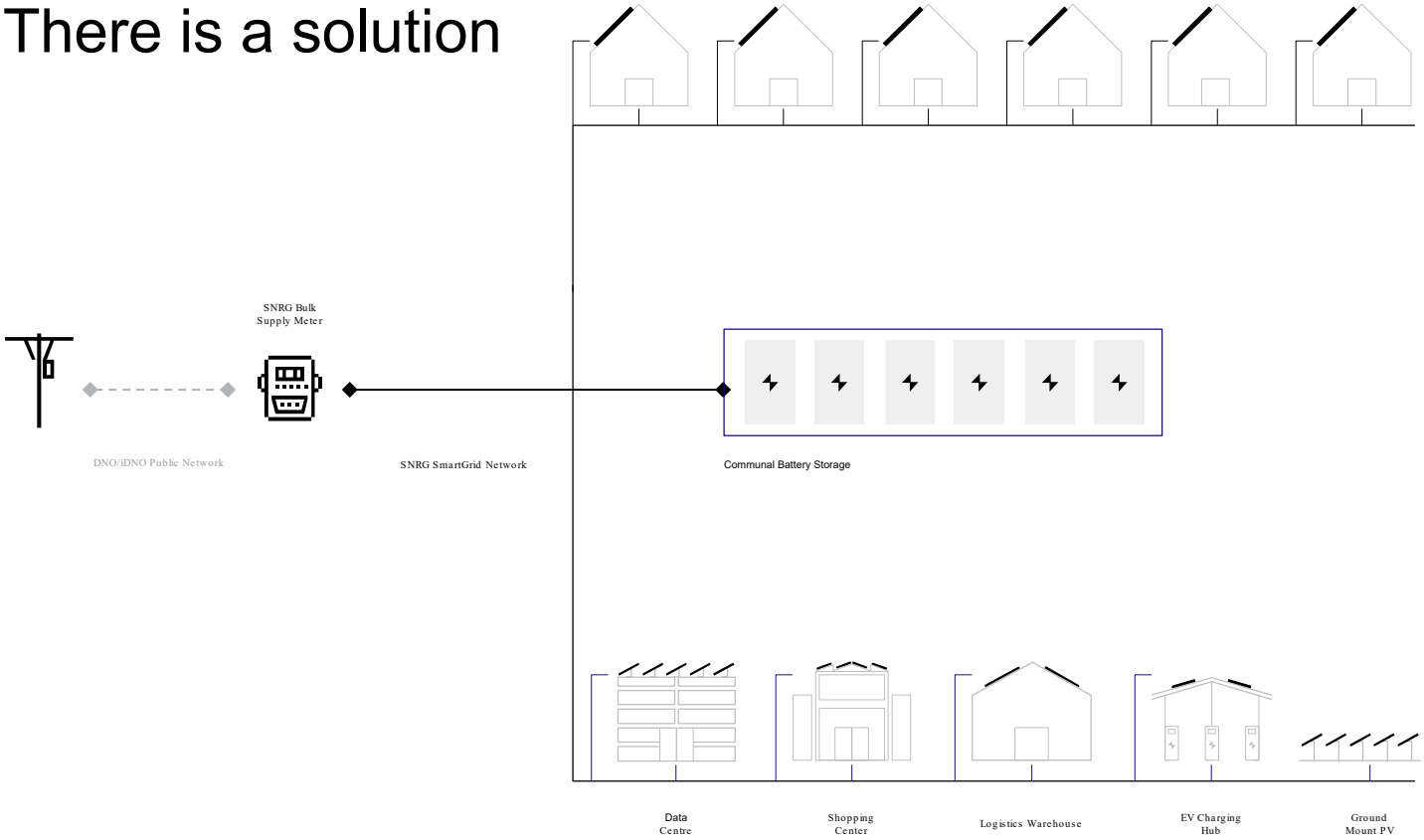
1926 Central Electricity Board formed to create a unified National Grid.

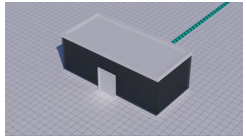
By the 1950’s with all villages across the UK connected, a Capacity Crisis hit.

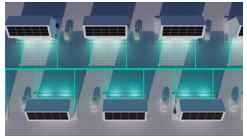


As New Build developments decarbonise and implement heat pumps, EV charging, solar PV and energy storage, they face significantly increased cost and complexity.

There is a solution



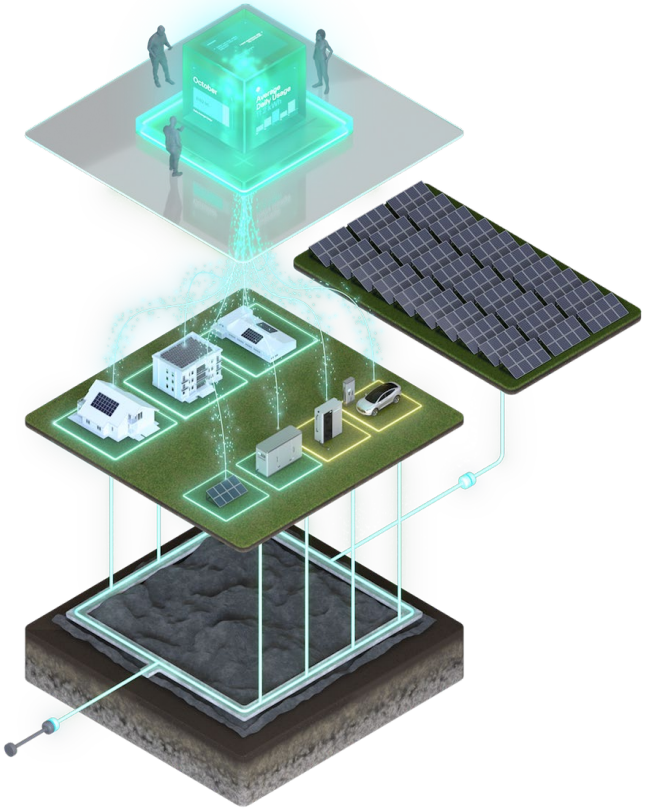




SNRG SmartGrid
What does it provide

SNRG funds and operates site-based electrical distribution systems which integrate renewable energy, battery storage, back-up generation and smart controls to reduce grid connection challenges, eliminate carbon emissions, provide resilience and provide a lifetime savings on energy bills.

- Smart electrical distribution system which integrates renewable energy, battery storage and back-up generation
- Maximised consumption of renewable energy on site – lifetime energy cost savings
- Peak demand reduction reduces the need for grid reinforcement
- Maximised deployment of EV charging where additional grid capacity is a limited
- Reportable greenhouse gas emissions reductions
- Operated and maintained by SNRG



The Hook Norton SmartGrid

How do you connect the solar PV from a local community centre to a new affordable housing development and supply low-cost, low-carbon electricity to residents and an EV car club?

Location:
Hook Norton

Developer:
GREENCORE HOMES

Housing Association:
soha

Watch Video Case Study:

This multi-award-winning project near Didcot, Oxfordshire, set out with a clear vision: to deliver affordable, low-carbon homes for the local community. Achieving this vision required a highly collaborative effort between architect Charlie Luxton, Hook Norton Community Land Trust, Greencore Homes, SOHA Housing, and SNRG.

At the heart of this development is the innovative SNRG SmartGrid. All rooftop solar PV panels are integrated into a communal SmartGrid, creating a shared solar energy system. This setup allows every home to draw low-cost, low-carbon electricity from the collective solar array, maximising real-time energy use. Excess solar power is stored in a battery, used to charge EVs, or exported back to the grid.

A unique feature of this development is its connection to the neighbouring community sports centre, which already had a rooftop solar PV array. Previously, most of the energy generated was exported to the grid at a low rate. By linking the sports centre's solar array to the SmartGrid, its excess solar power can now be utilised by the housing development, stored in the battery, or used for EV charging. This approach delivers financial benefits to both the community sports centre and the residents while further reducing carbon emissions.

13
Buildings connected to the SmartGrid

£200k
Development cost saved by SmartGrid

118kWp
Communal rooftop solar PV array

50kW
Communal battery storage system

10%
Minimum electricity bill saving

488 tonnes
Estimated lifetime CO2e savings

Otterpool Park SmartGrid

SNRG selected to empower the net-zero ambitions of one of the UK's largest proposed Garden Towns

Located near Folkestone in Kent, the development spans a 770-hectare site and is set to become a major new community. Plans include approximately 8,500 homes, designed to accommodate around 27,000 residents. The area will also feature around 150,000 square metres of office, retail, leisure, and educational facilities, creating a vibrant and self-sustaining environment. A key feature of the development is its integration with the HS1 railway station, ensuring excellent transport links and connectivity.

Location:

Folkestone, Kent

Client:

OTTERPOOL PARK
COUNTRYSIDE • CONNECTED • CREATIVE

~27MW
Rooftop Solar PV (~4 kW Solar PV/ home + I&C)

~£4k/home
Funding support for housebuilders on solar PV

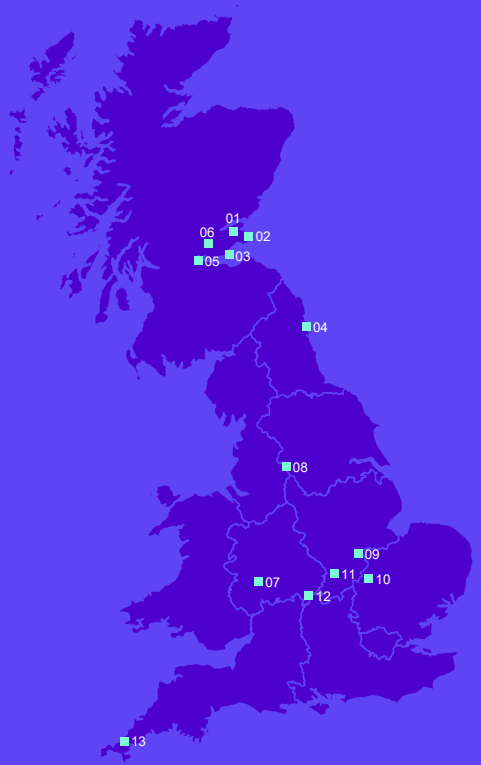
~12MW
Solar Park (Subject to Planning)

50/50
~50% of power supplied by solar park & rooftop solar. Remaining from offsite renewable generators

~17MW
Communal Storage (~1.5kW/ home equivalent)

15%
Minimum annual bill saving

Operational SmartGrids



01
02
03
04

Donaldson Group

Satus:
Operational
Size:
1.4MW PV

05
06

Wonder World

Satus:
Operational
Size:
0.3MW PV

07

West Works

Satus:
Operational
Size:
0.7MW PV / 0.5MW BESS

08

Bradford AFC

Satus:
Operational
Size:
0.2MW PV

09

MJ ToolMakers

Satus:
Operational
Size:
0.1MW PV

10

Etopia Homes

Satus:
Operational
Size:
0.3MW PV / 0.1MW BESS

11
12

Greencore Homes

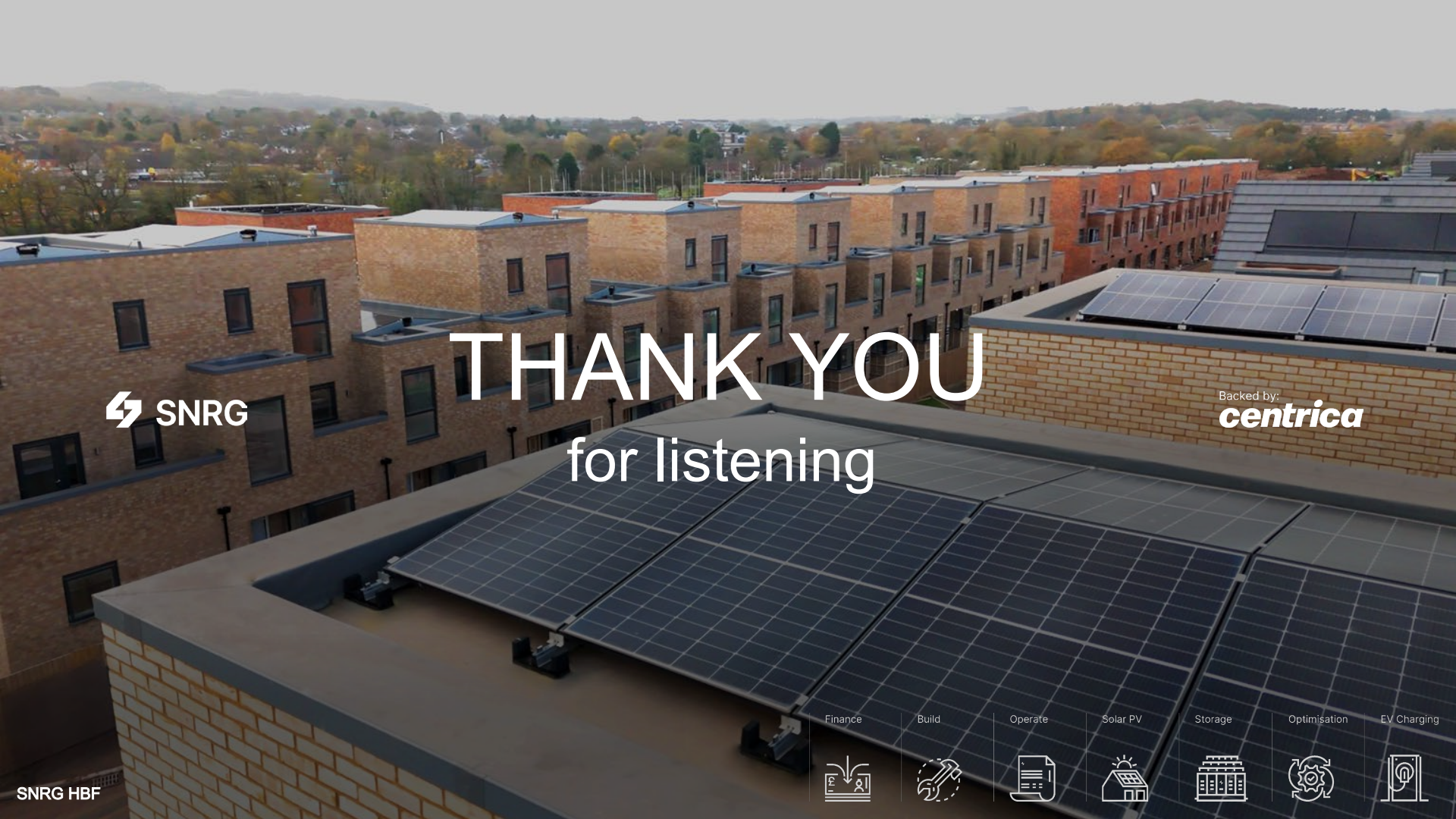
Satus:
Operational
Size:
0.5MW PV / 0.2MW BESS

13

Fistral Retreat

Satus:
Operational
Size:
0.3MW PV / 0.2MW BESS

The SNRG SmartGrid provides funding for low carbon generation, cuts grid connection costs, and creates long-term savings and revenue streams


SNRG
THANK YOU
for listening
Backed by:
centrica
Finance
Build
Operate
Solar PV
Storage
Optimisation
EV Charging
SNRG HBF