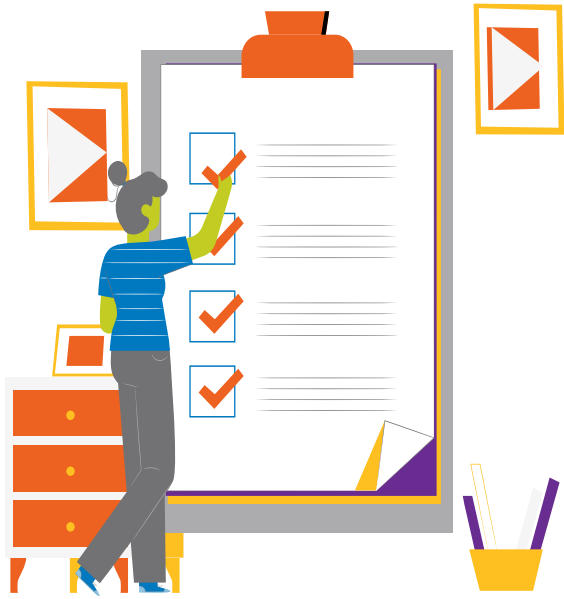




**Make DeCarbonisation
Secure, Smart and Affordable**

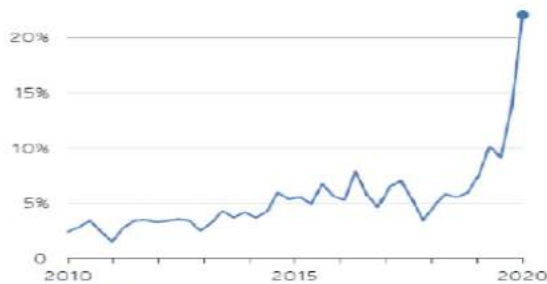
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What is the problem?



Problem Statement

1. No digital tool to integrate **EV**, **Solar**, **Heatpump** and **Battery** with Time of use tariff price and **grid trading**
2. Customers(C&I and residential) can't sell their electricity **flexibility** back to grid **easily**
3. **Serious delay** with grid connection offer(**6-8 years** waiting list)



Quarterly-average cost of balancing the UK power system, as % of generation cost
(Source: Drax Electric Insights)

What we do about it

Orange Power's Power Rewards™

is **AI powered autonomous energy trading, controlling and settlement system**. It can offer site connection with minimum impact to network with no additional cost

Currently managing **38MW** consumer flexibility with **6-12MW** tradable flexibility.

- We are **Air B&B in energy**.
- We turn every sites/home into a virtual **power plant**
- We connect Ultra EV charging(10-20mins charging time) with **0-minimum** kw additional grid capacity requirement with minimum cost



Products and Services

Trading Platform

1st of its kind platform that integrated with grid in different markets. Turn each site into power plant

Receive **trading command** from 8 different energy markets like congenital generators

Translate trading command into **control command** to liked site devices to help out grid like a power plant

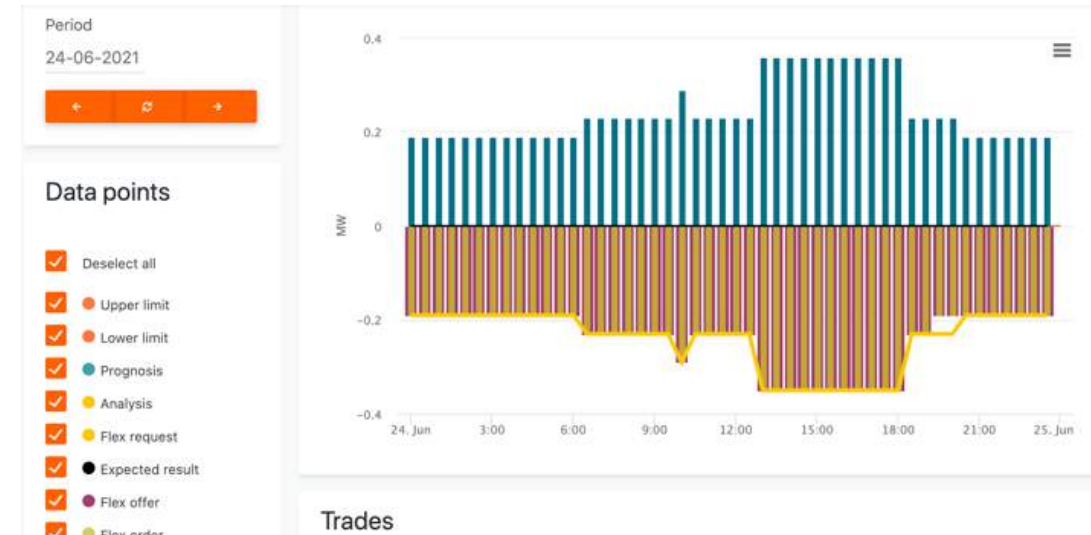
Auto tracking of each household contribution and auto **settlement** and get paid from grid to customers

Ultra Fast charge

Software+Hardware based solution that running almost decoupled with minimum disturbance to grid

1. 8-16 times more 180kw Ultra fast charging station to be managed with dynamic load control
2. All sites capable of V2G
3. High utilisation rate and and high ROI
4. Fast connection without delay
5. Minimum upgrade cost

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Your Virtual Power Plant

Orange Power Current Projects

£250k raised so far, £450k revenue in Financial Year 2023

Latest update(Mar)
Number of MW:6-12MW

0.8 MW three
Scottish Power
projects Golive

0.3 MW Scottish
Hydro projects
Golive

12 MW NGENSO
trading projects
Golive

1.2 MW UKPN
projects Golive

Aug 2021

May 2022

Nov 2022

Sep 2024

Other UK Customers +
German/ Spanish
Customer Business
Development



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Orange Power
Your Virtual Power Plant

Orange Power Team



Justin Ma
CEO/ Director
of Operation
and Business
Development

12 years in Energy Trading & Grid
Operation



Scott Taylor
Interim
Engineering
Manager

12 Years
software
backend
experience



Harpal
Singh
Senior
Developer
6 years JS



Nikhil
Abraham
Software
Engineer



Ioannis
Lafazanis
Mobile
developer



Ismail
Akinsemoyin
Tester/QA



Ajil
Oommen
Head of
Product

6 years Mobile development



Yassine
Bebba
Interim-
Head of
Engineering

4 years Full Stack Developer



Abhishek Kumar
Developer



Microsoft



Mahendar
Verma
I.O.T
Manager



Akash
Murali
Full stack
Developer



Mohammed
Azhar
Frontend
Developer



Jun Ming Moey
Software
Engineer

Orange Power

Appendix



Orange Power
Your Virtual Power Plant

- Flexible connection
- DSO Constraint Management
- ESO Constraint Management
- Virtual Lead Party for balancing mechanism



Battery Storage Power Rewards™ Solutions

Power Rewards™ connect to 20 batteries. We have managed trial of following service:

- Frequency response
- DSO Constraint Management
- ESO Constraint Management
- Virtual Lead Party for balancing mechanism
- Capacity Market



Heatpump Power Rewards™ Solutions

Power Rewards™ connect to over 30 Heatpumps.
We have managed trial of following service:

- Flexible connection
- DSO Constraint Management
- ESO Constraint Management
- Virtual Lead Party for balancing mechanism



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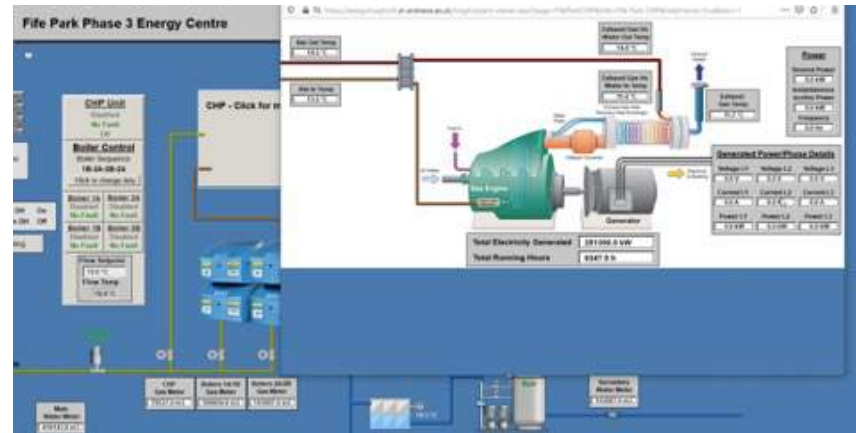


CHPs Power Rewards™ Solutions

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Power Rewards™ connect to 3 CHPs. We have managed trial of following service:

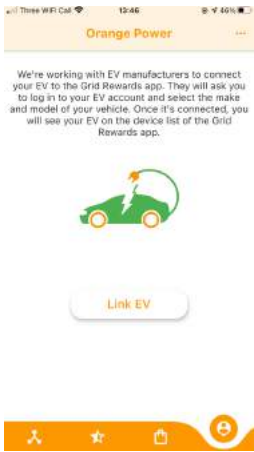
- DSO Constraint Management
- ESO Constraint Management
- Virtual Lead Party for balancing mechanism



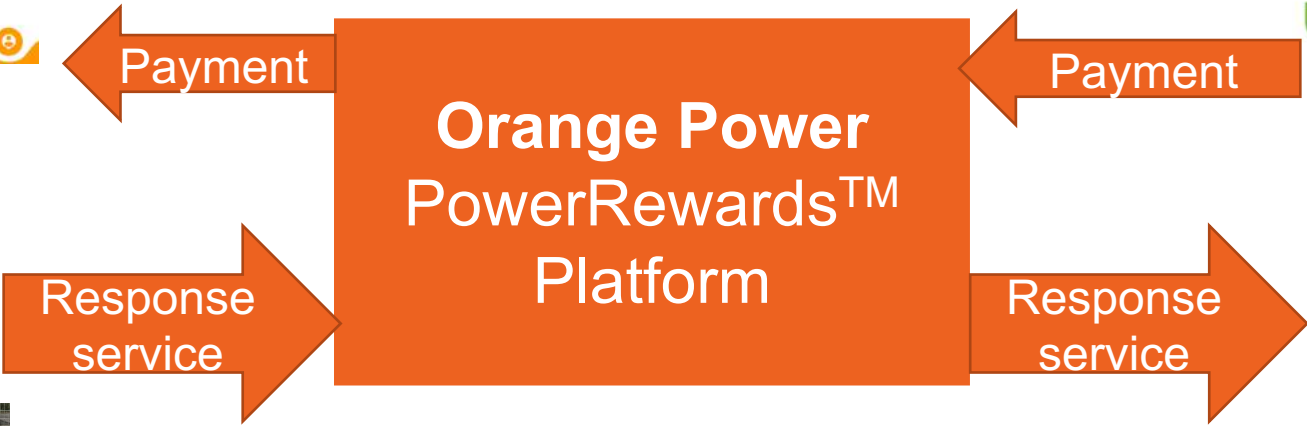
Orange Power Power Rewards™

B2B

B2C



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Your Virtual Power Plant



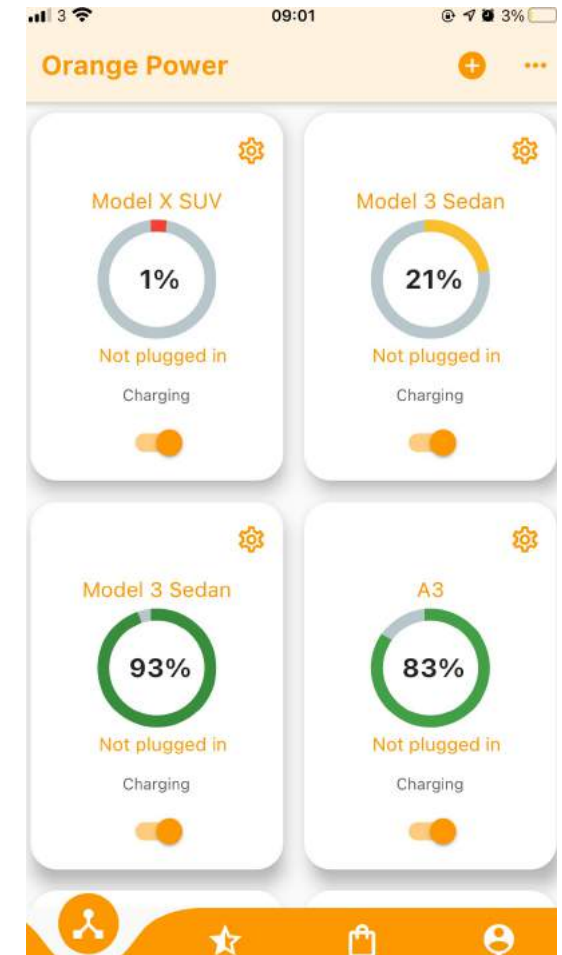
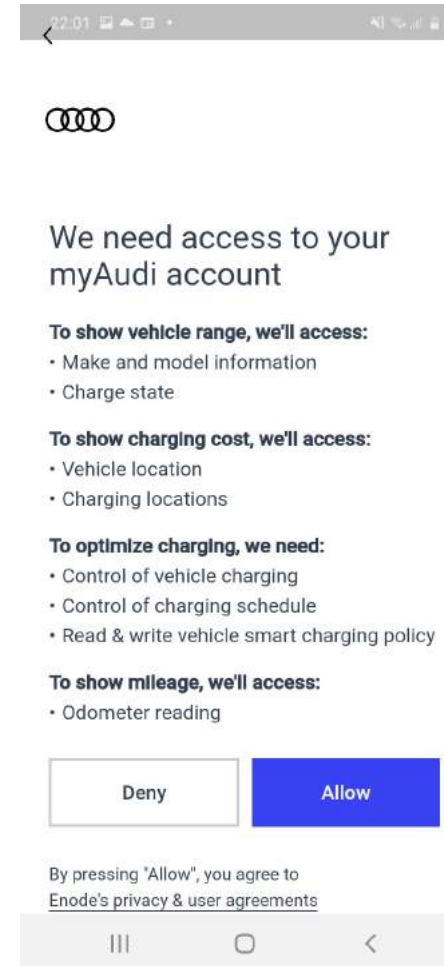
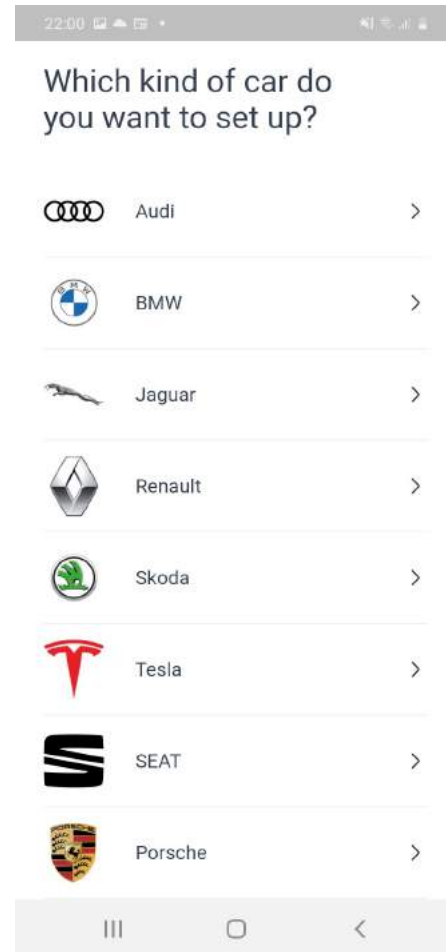
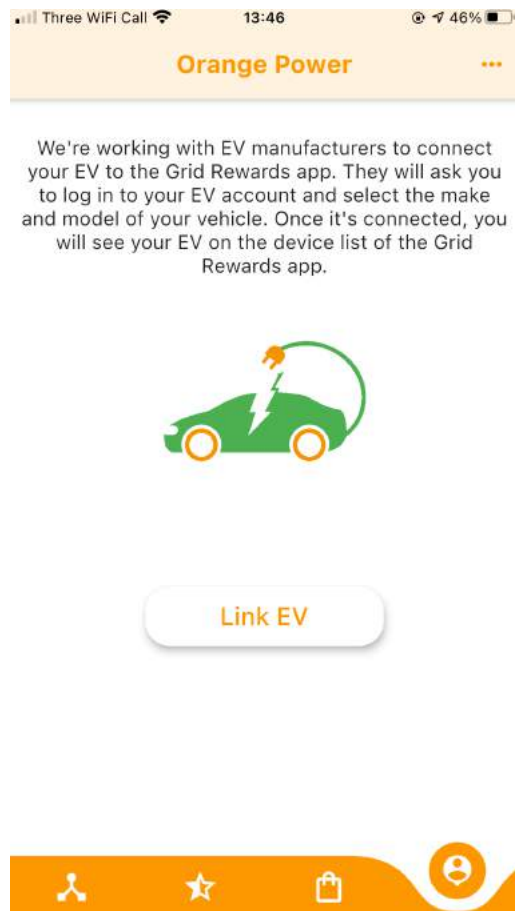
Confidential

EV Power Rewards™ Solutions

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Power Rewards™ connect to 100 EVs. We have managed trial of following service:

- One login to connect 12 brands of EVs
- Free charging during windy condition(Constraint management)
- Virtual Lead Party for balancing mechanism



Orange Power

Please join us on this journey. With our technology,
we will achieve Net Zero faster

THANKS

Any questions?

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www.orangepower.co.uk



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