

Intelligent Octopus Harnessing Consumer Flexibility Today

Vienna November 2022

Octopus Energy Group overview: Global integrated energy transition company

Octopus Energy Group (OEG) 👳

Retail Energy



- **3.4m** (soon 5m) customers
- 10 countries
- **#1** for customer service
- World-leading consumer flex

Tech Licensing



- Kraken SaaS: 25m contracted accounts
- Kraken Flex SaaS: **1.5GW** contracted
- Kraken for Utilities
 water and telco

Generation



- \$5B generation assets managed
 - **9** countries

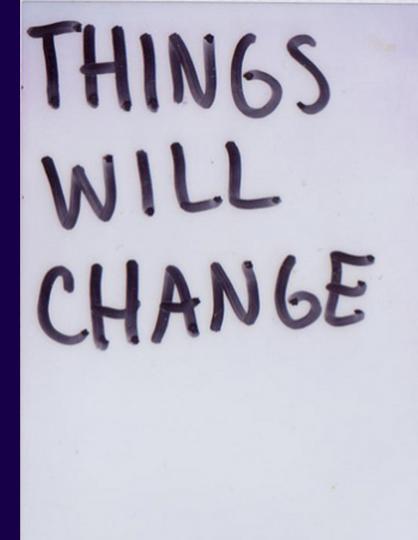
Services



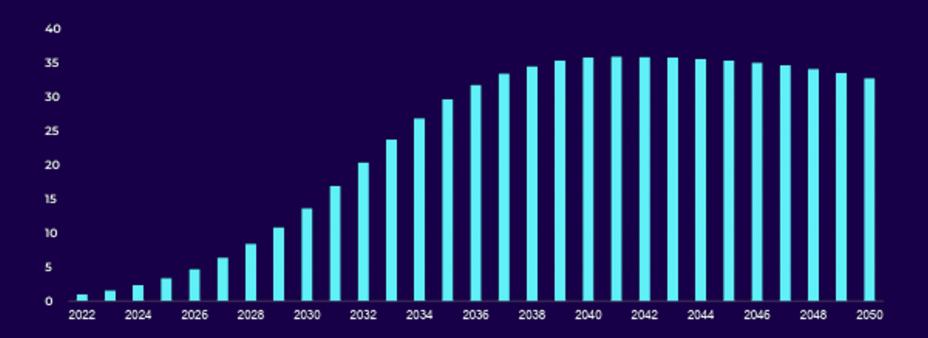
- Electric
 Vehicles
- Proprietary heat pump hardware
- Installation
- Octo Hydrogen

Consumer Era

- New clean technologies
- Increasing demand
- Need for flexibility
- Potential of consumer flex



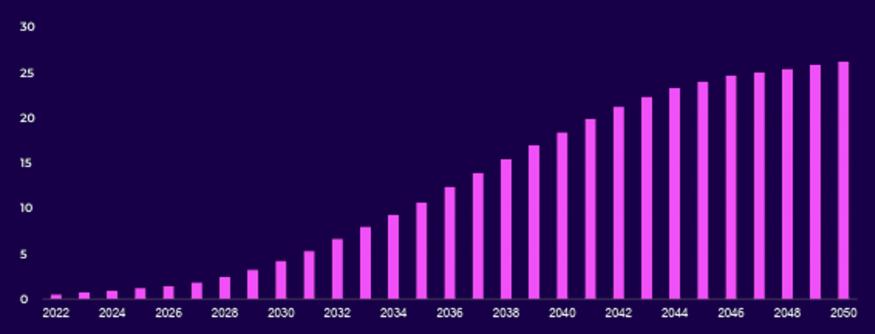
Electrification of transport will impact demand, UK alone will have over 35 million EVs by 2040



Source: National Grid ESO Future Energy Scenarios

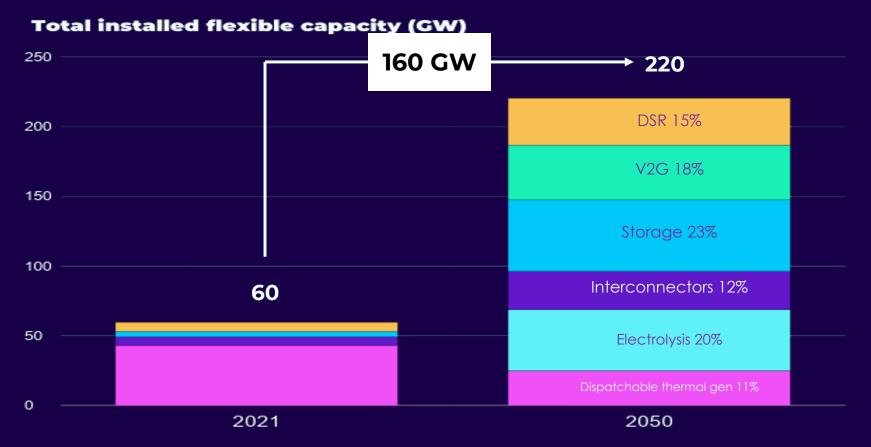
Electrification of heat too will further impact demand. We expect UK to have over 25 million heat pumps by 2050

The UK is targeting the installation of 600,000 heat pumps per year



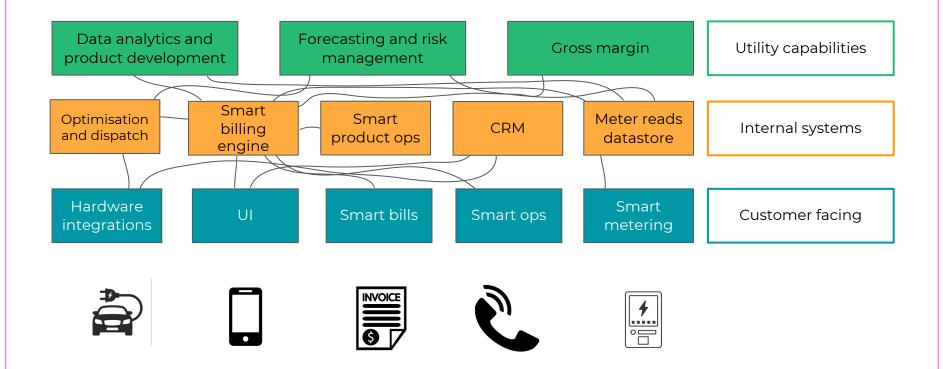
Source: National Grid ESO Future Energy Scenarios

UK alone will require additional 160GWs of flexibility by 2050

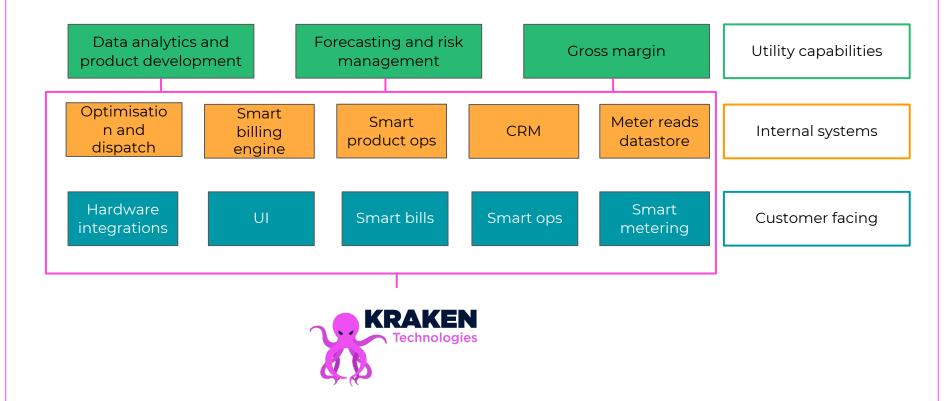


Source: National Grid ESO Future Energy Scenarios

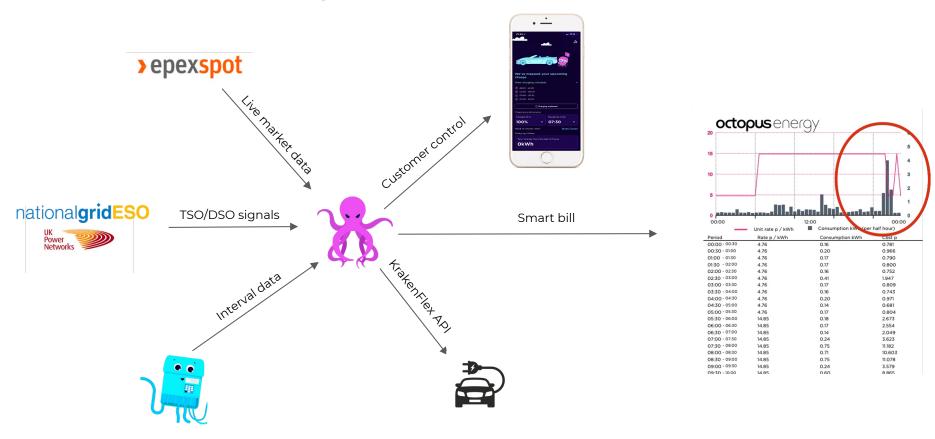
Elements of a smart product stack



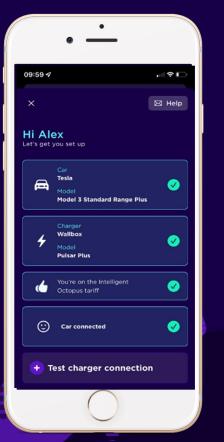
Elements of a smart product stack



Intelligent Octopus Dispatchable Dynamic Time of Use

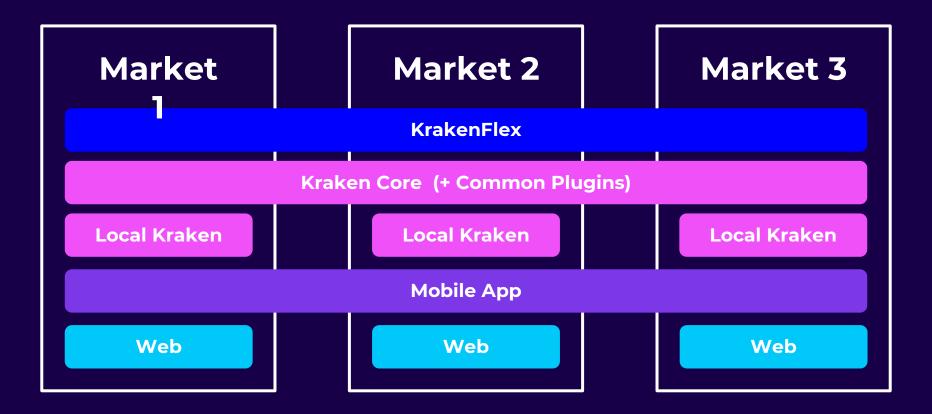


Ultimate simplicity for users

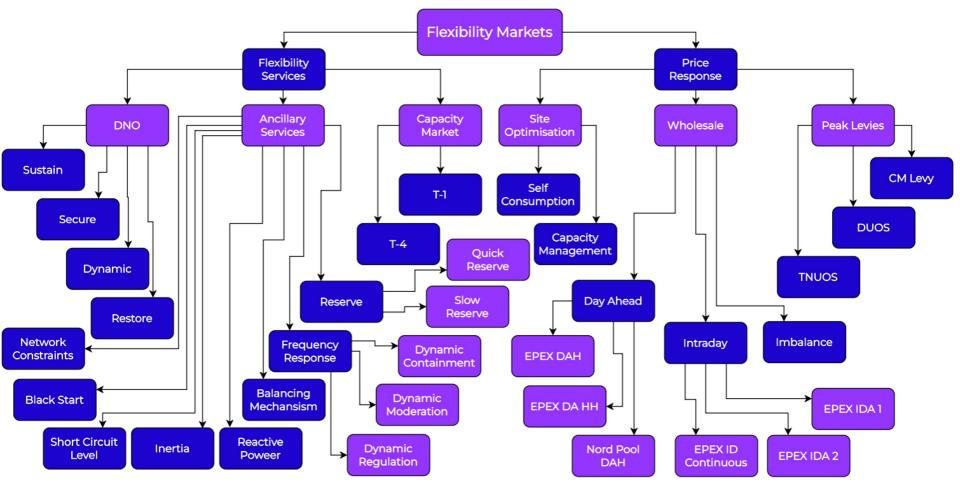




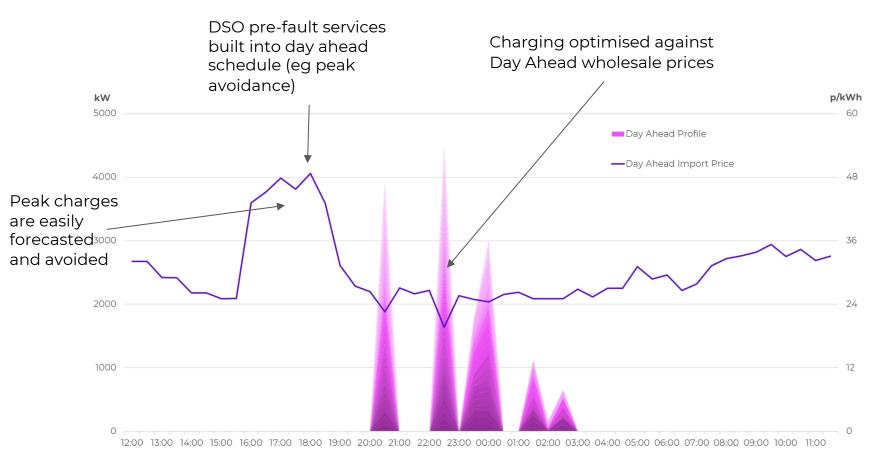
Global platform supporting local needs



UK market landscape



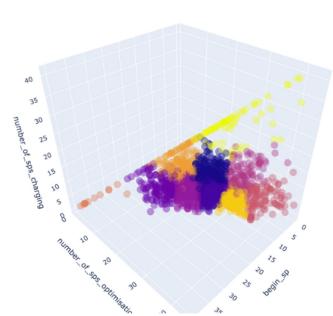
Intelligent Octopus Optimisation v1.0



Building for scale and leveraging existing infrastructure

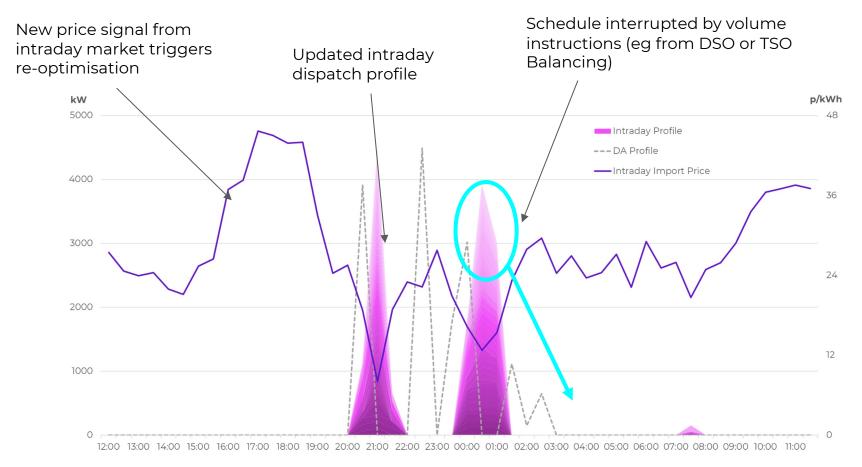


Octopus Home Mini (CAD Lite) enables high frequency metering solution

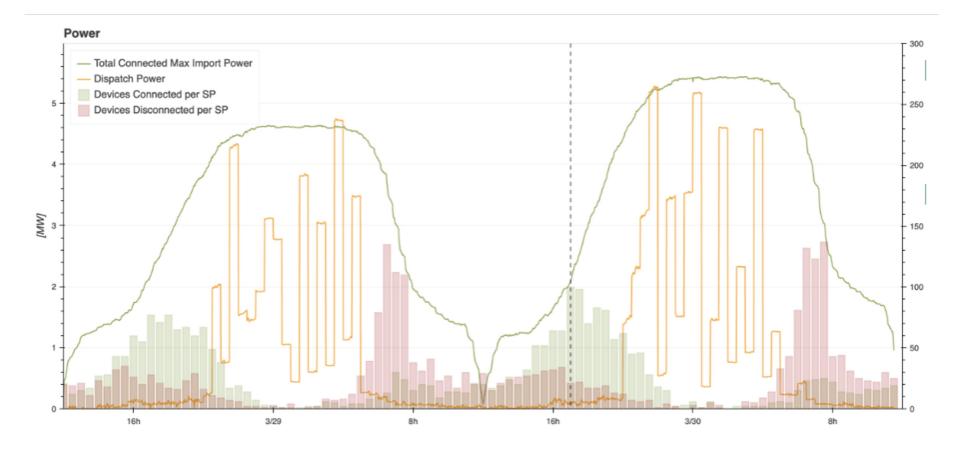


The complexity of accurate availability prediction for bidding into markets

Intelligent Octopus Optimisation v2.0

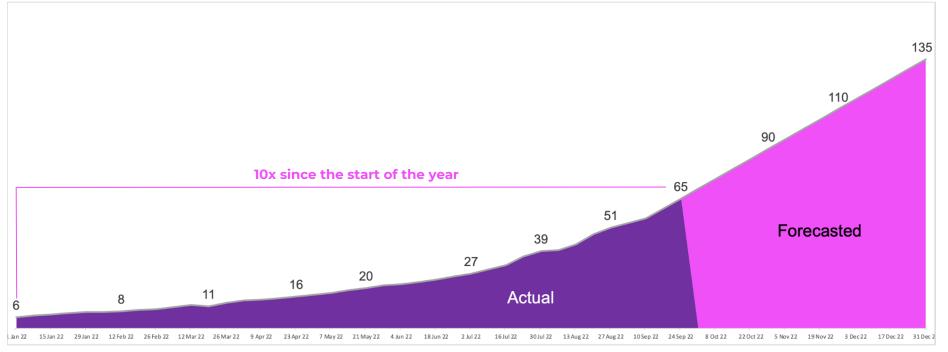


Dispatch profile in a specific zone



Do customers like it?

MWs under management



Enabling the UK's first ever zero-bills homes

Octopus Energy partnered with ilke Homes to build the first **zero-carbon**, **zero-bills** homes fitting them out with solar PV, heat pumps, batteries and complete device and home optimisation

Expansión

Octopus e Ilke lanzan plan de energía limpia sin facturas para los propietarios de viviendas

pv magazine

Octopus e ilke Homes venderán 3.500 casas modulares completamente autosuficentes con solar y baterías

Get started with your



Your Zero Bills home is built with best-in-class energy efficiency plus solar panels, storage and smart technology to help you live clean and comfortable at zero cost.

Activate my Zero Bill Home

FINANCIAL TIMES

Octopus and Ilke launch clean energy scheme with no bills for householders

Power supplier and home builder say renewable power plan will transform UK market



EXPRESS 🖗

Octopus Energy throws UK energy crisis lifeline with plan to guarantee homebuyers NO BILLS

