

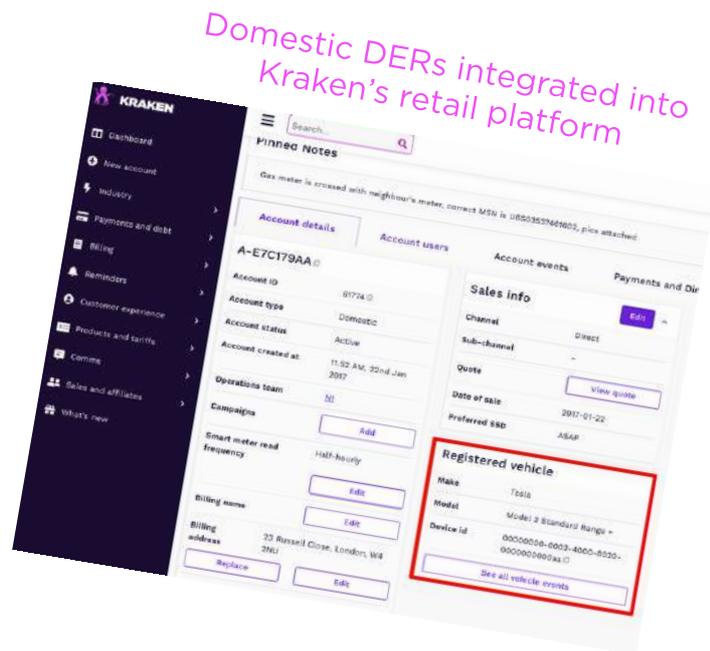
## The Challenge

Electricity networks around the world are on the cusp of a colossal transformation. The grid is becoming less flexible and more complex as the electrification of heat and transport ramps up. Simultaneously, consumer energy demand is growing and becoming more unpredictable than ever. With billions in revenue balancing at stake and the risk of blackouts increasing, the need to release pressure on the grid at peak times is critical.

## Kraken's Solution

Intelligent Octopus is a unique Kraken-enabled smart tariff which unlocks our powerful flexibility platform to directly address the stresses from an increasingly pressured grid. The integrated Kraken platform advanced data and machine learning capabilities co-ordinates individual assets and optimises them to more closely match demand while unlocking opportunities in the global flexibility market to bring savings for the grid and lower costs for consumers.

Wrapped in a simple and intuitive customer experience, Intelligent Octopus is integrated into the Kraken customer-to-cash platform as an en-tech tool that the utilities industry can roll out in-line with the electrification of transport and heat.



Award winning 'plug & play' user interface



## Intelligent Octopus includes

Seamless acquisition and onboarding of domestic DERs onto Kraken's flexibility platform (easy consumer-friendly 'plug and play' proposition).

Supports assets including electric vehicles, home batteries, AC systems, roof top solar and heat pumps.

Includes an award winning simple and intuitive user interface (web and app).

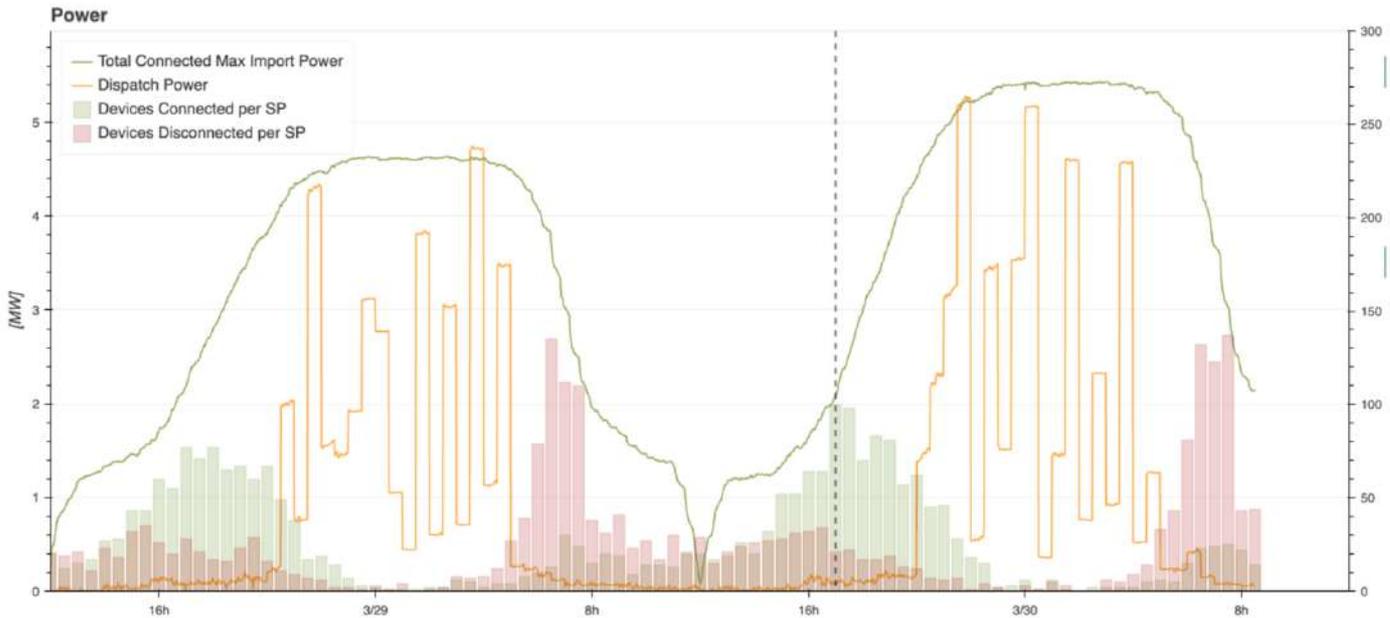
Full integration into the energy supply retail offering, including energy consumption captured, billed and settled in Kraken automatically.

Includes real time live data analysis and customer support. Its advanced data and machine learning capabilities means automation of much of the energy supply chain.

## The Results

- First UK smart tariff to offer optimised charging at the cheapest and greenest times
- Now live in New Zealand, USA and UK
- Equivalent to a 20 MW / 200 MWh Virtual Power Plant to balance the grid
- Handling 9 million readings a day (3 readings a minute per car)
- Avoiding charges at peak times (e.g., network/grid fees) are the easiest benefits to capture
- 1.6 million miles of EV charging delivered per year + growing.

Kraken Flex co-ordinates individual assets and optimises them to more closely match demand while unlocking opportunities in the global flexibility market



Kraken generated automated dynamic billing based on delivered charging schedules

DERs currently connected (and many more to come)

4th February 2022

For electricity meter 20L3330337

**Total cost**

£ 12.75

**Total consumption**

65.14 kWh

**Off peak consumption**

12.23 kWh (£0.58)

**Peak consumption**

52.91 kWh (£12.16)

