

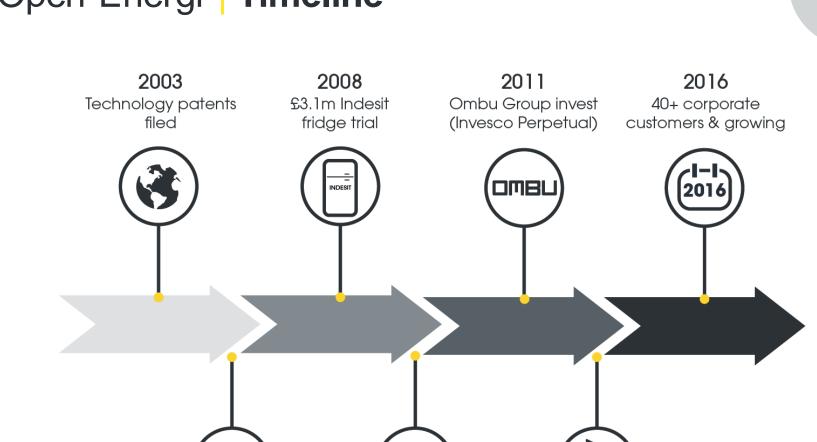
Grid Code Development Open Energi Briefing

June 2016

Chris Kimmett



Open Energi | Timeline



2006 Initial venture capital funding

2006

2010 10 year 200 store agreement

Sainsbury's

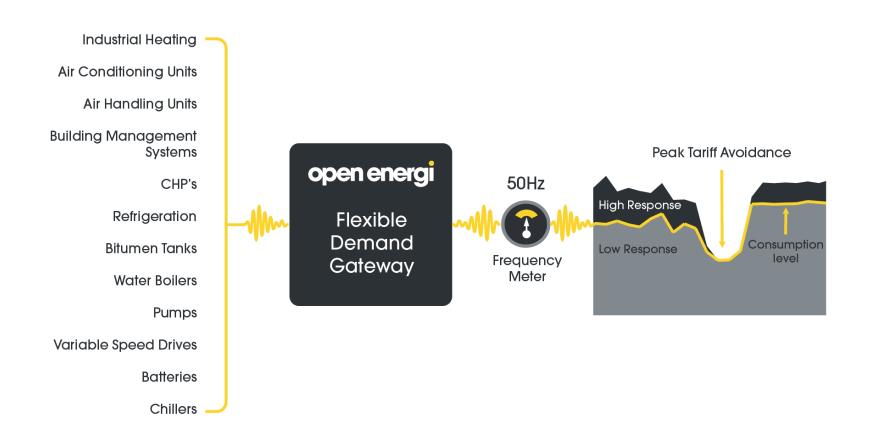
Winners Business Green Leaders Awards

2014



Proposition | Customer Assets

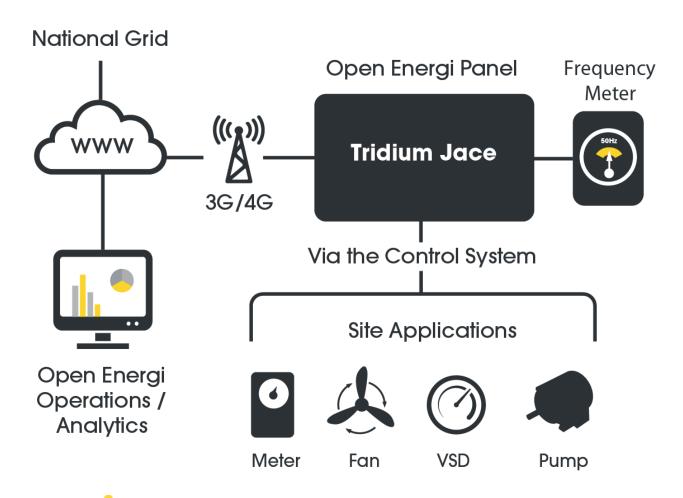
By sharing flexible energy demand customers can **earn revenues** equivalent to 5-10% of their energy bill and **avoid peak tariff charges**





Hardware **Architecture**

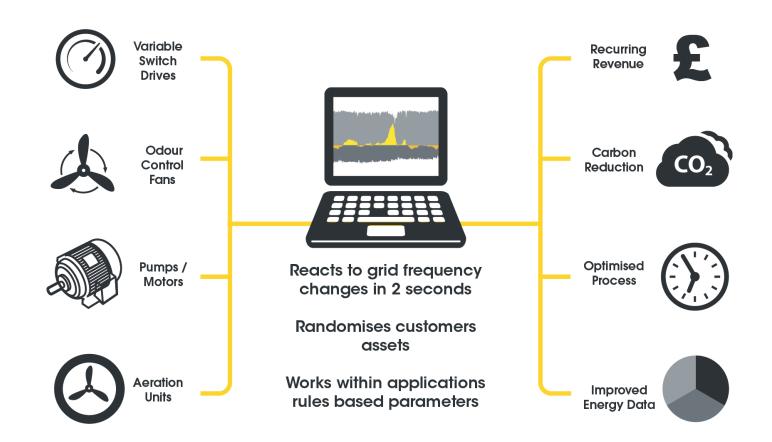
Equipment is installed on site to react to a given signal and meter the reaction



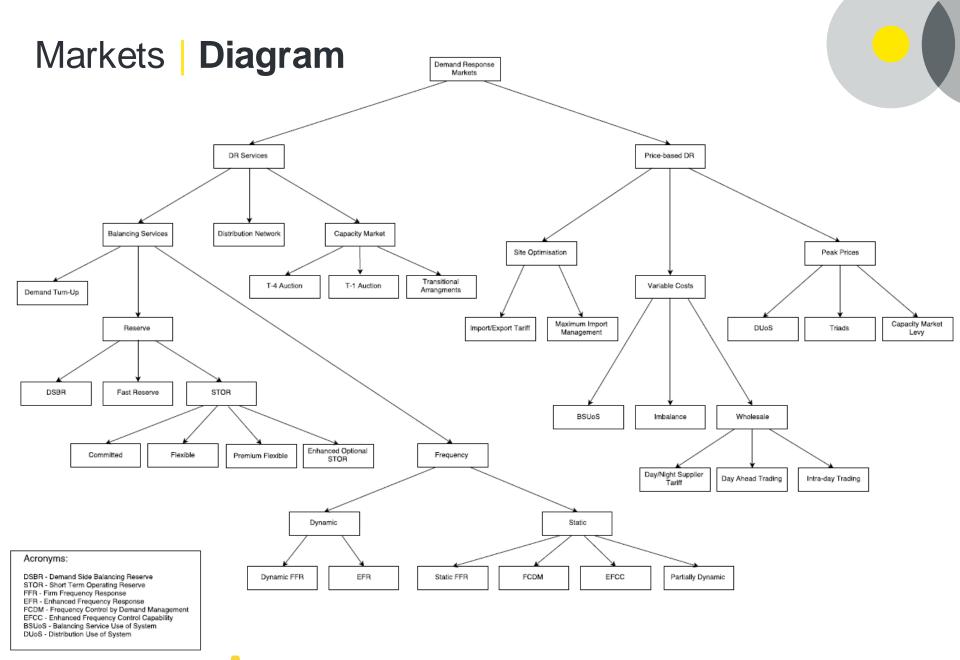


Business Case | Clients

The revenue to clients is a driver but absolutely not the only parameter that will cause them to participate in Demand Response



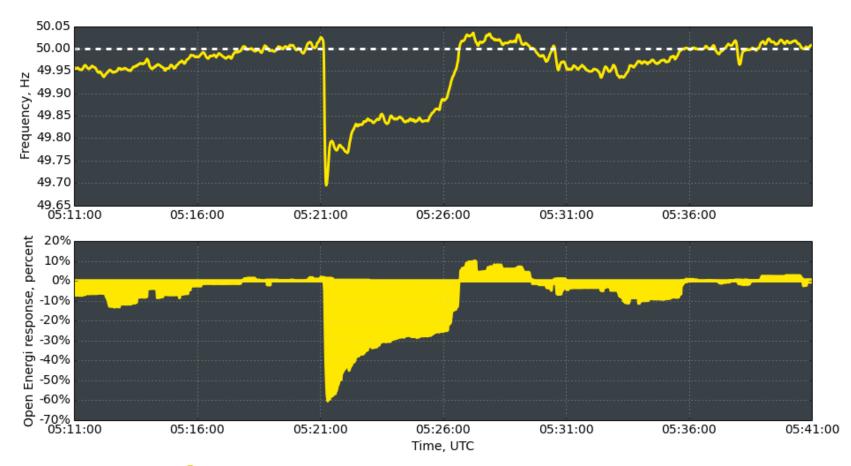






Frequency Response | August Event

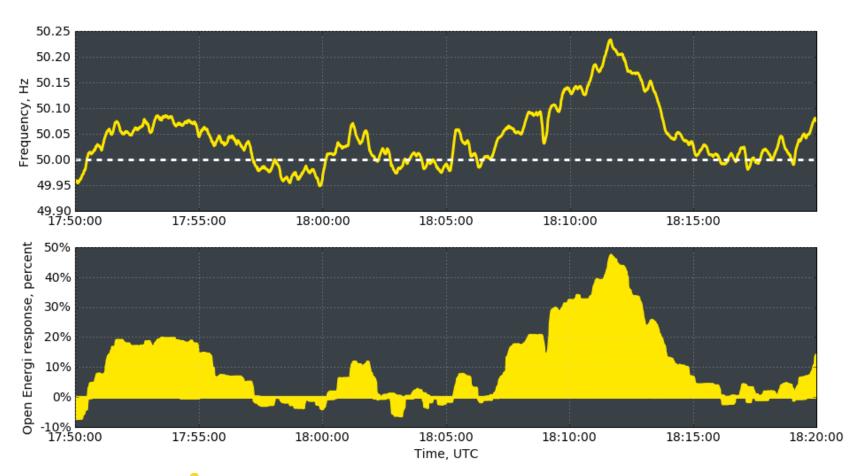
The graph shows Open Energi's response to an **interconnector trip** in August





Frequency Response | September Event

and it works on windy September evenings too...





Open Energi | Company Structure

The flow of cash is simple however the number of capabilities we have had to develop as an Aggregator is not

Cashflow

TSO (National Grid)



Open Energi



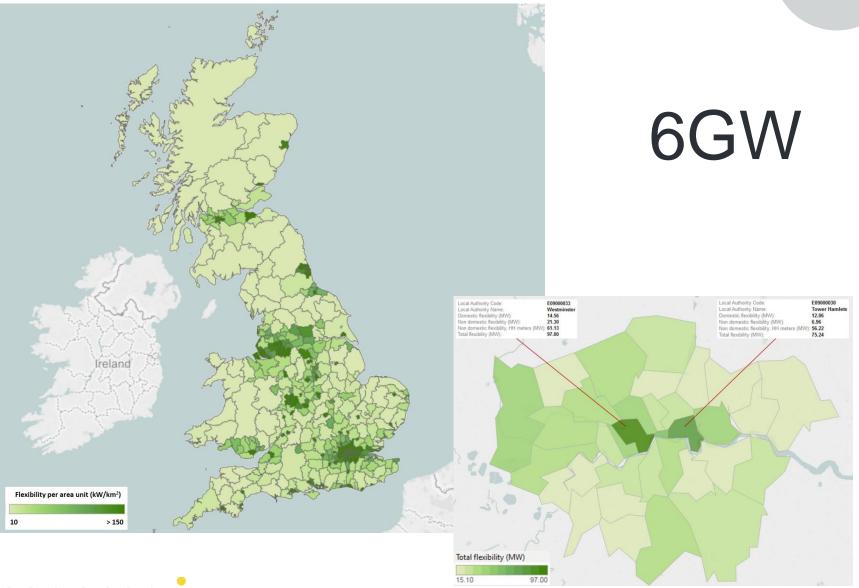
Clients

Capabilities

- 'Trading'
- TSO Service Delivery
- Technical Sales
- Commercial
- Implementation
- Operations
- Technical Infrastructure
- Back office



DSR | Can it scale?





About | Open Energi

Open Energi is an **established National Grid Demand Response Aggregator** providing service to some of the **UK's most respected organisations**

















Sainsbury's

















Case Study | Water Sector

Open Energi is working closely with the water sector to help **deliver** sustainable water in line with **Ofwat strategy**

Water and wastewater treatment is a really energy intensive process – power is one of our biggest operating costs – so we're looking both inside and outside our business to see how we can work smarter.

That means using less power and being willing to be flexible in the way we use that power.

Andy Pennick Energy Manager United Utilities

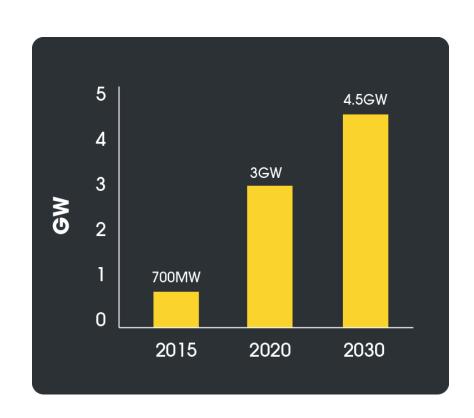




Energy System | Grid Targets

Power Responsive campaign launched by National Grid in summer 2015 to bring about a **step change in demand-side response** (DSR) activity by 2020

- National Grid has set a goal of delivering 30-50% DSR participation for it's schemes by 2020
- Targeting 3GW of flexible demand that can be adjusted amid quick changes in renewables output - a 328% market increase from 700MW today
- Cost of balancing services today is c£1 billion per annum





UK Head Office

Lincoln House 300 High Holborn London WC1V7JH

+44 (0)20 3051 0600

www.openenergi.com



