Flex Assure

www.flexassure.org



Flex Assure Industrial and Commercial Scheme

- Code of Conduct and Compliance scheme for Industrial and Commercial Flexibility Service Providers.
- Aim: Setting best standards of practice in the industrial and commercial flexibility marketplace.
- Guidance for business energy users.

nationalgridESO Funding

- A reduction in scheme membership fees.
- Change to the scheme membership requirements to reduce time spent on the audit process.

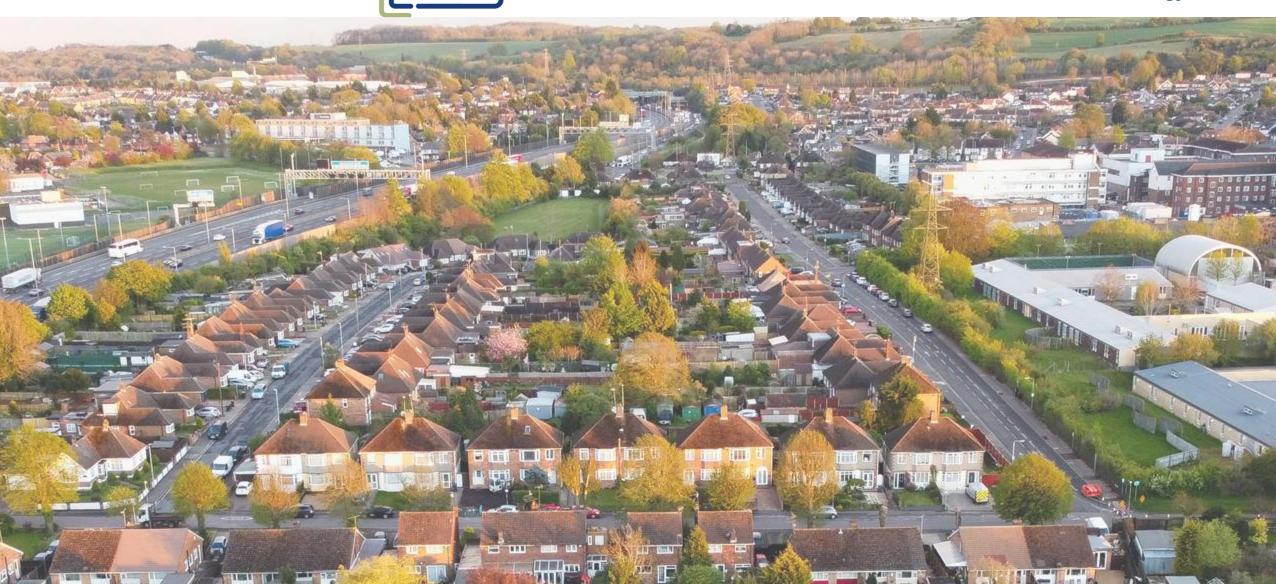












Thank You

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How to make money from Grid services

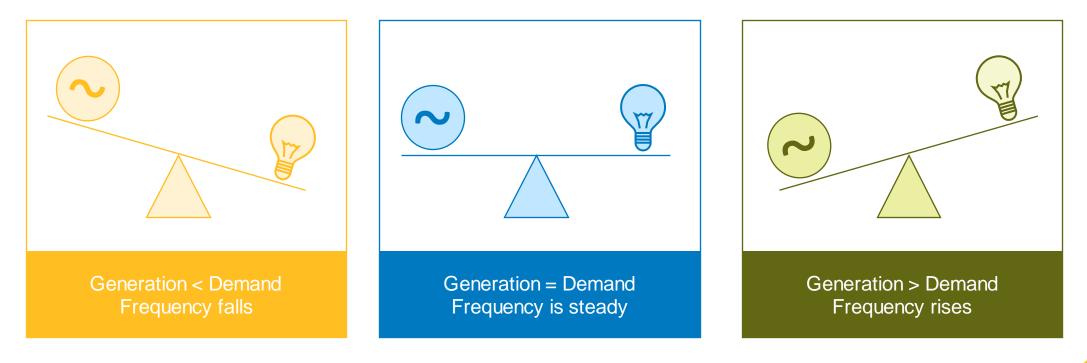
Hannah Rochford Ancillary Services Development Manager

HE ES EXISTS

- Ensure reliable, secure system operation to deliver electricity when customers need it
- Transform participation in smart and sustainable markets
- Unlock consumer value through competition
- Drive towards a sustainable, whole energy future

Energy balancing 101

- One of the most fundamental requirements of an electricity system is that supply and demand are always balanced, to preserve the overall integrity of the system for everyone
- For us to achieve this energy balancing we need flexibility, in both supply and demand, adjusting both sides to ensure they always match
- The wholesale market currently provides the majority of system balancing during the day, with the ESO performing the residual balancing and balancing on a second-by-second basis



What are the services the ESO procures?

Frequency

Reserve

Dynamic Containment (DC) Dynamic Moderation (DM) Dynamic Regulation (DR) Static Firm Frequency Response (SFFR)

Short Term Operating Reserve (STOR) Demand Flexibility Service (DFS)

Requirements:

Initiation < 2 seconds for Dynamic services and < 30 seconds for SFFR Ramp time between 1-10 seconds Sustain for 15-60 minutes Minimum volume 1MW (can be aggregated) STOR: Minimum volume 3MW Initiation < 20 minutes Sustain for 2 hours

DFS: Minimum volume 1MW Initiation ~24, ~8 or ~5 hours ahead Sustain for > 1 hour

We want to understand more about your ability to participate in balancing services



Power Responsive Industrial & Commercial Survey 2023



DISTRIBUTION SYSTEM OPERATOR

UK Power Networks Flexibility



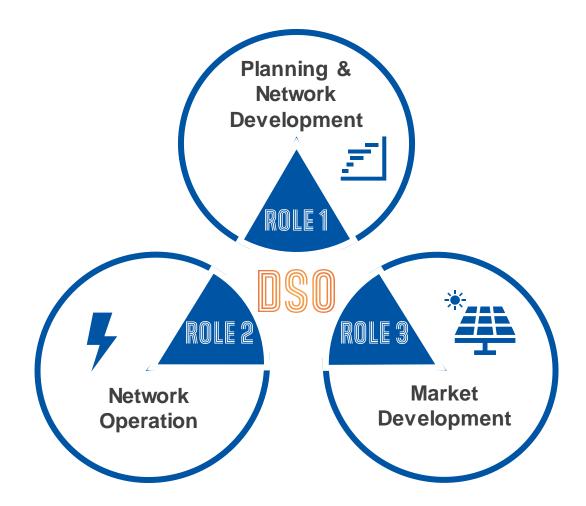
Introduction to UK Power Networks



8.4M homes and businesses
9.7GW distributed generation
14GW peak demand
189,822km of network
More than 120,000 substations



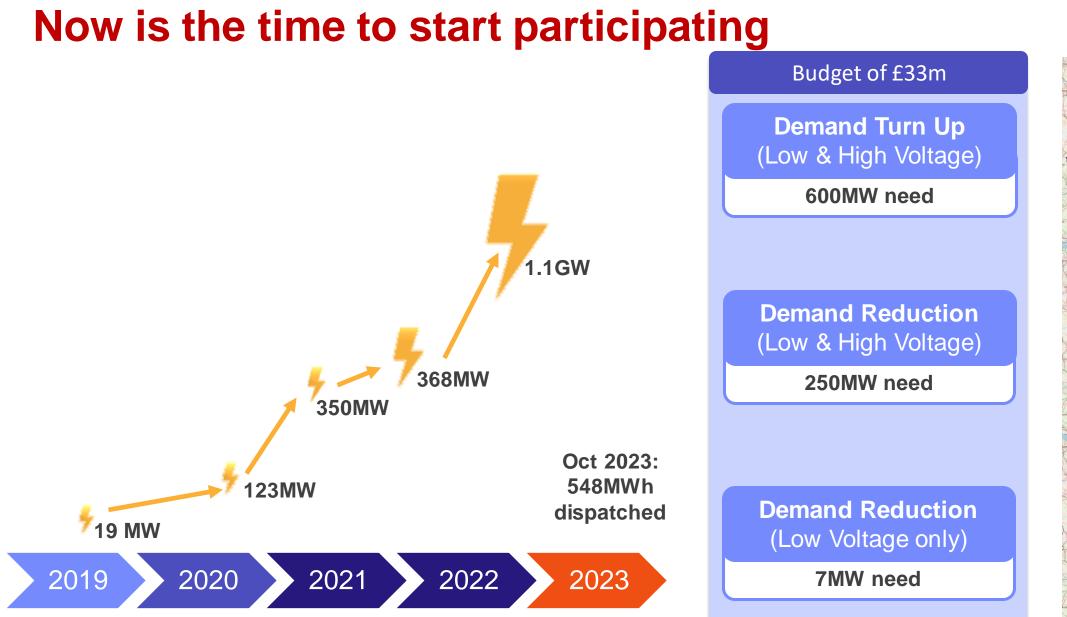
DSO founded April 2023



DNO

- Delivers capacity required efficiently and on time
- Manages connections
- Improves health of the network
- Delivers good customer service
- Improves reliability and resilience
- Ensures safety of employees and members of public







Which product is right for me?		Annual value – dependent on zone
Firm dispatchable We pay for availability during certain windows and then utilisation	Secure	Av: £90k/MW
Enduring peak reduction Flex providers reduce peak load for set time windows	Sustain	Av: £80k/MW
Day ahead service Price and capacity to turn down is agreed at day ahead	Day ahead	Variable

- **Minimum capacity**: 10kW per zone (can be aggregated)
- Minimum delivery: Sustainable for 30 mins
- Contract length: Up to multiple years
- Can be automated or manual turn down

Next steps: Contact us

Join our mailing list

Arrange an introductory call

Thank you

<u>flexibility@ukpowernetworks.co.uk</u> <u>Rachel.Stanley@ukpowernetworks.co.uk</u>



Ask us for a list of

aggregators /

suppliers who can

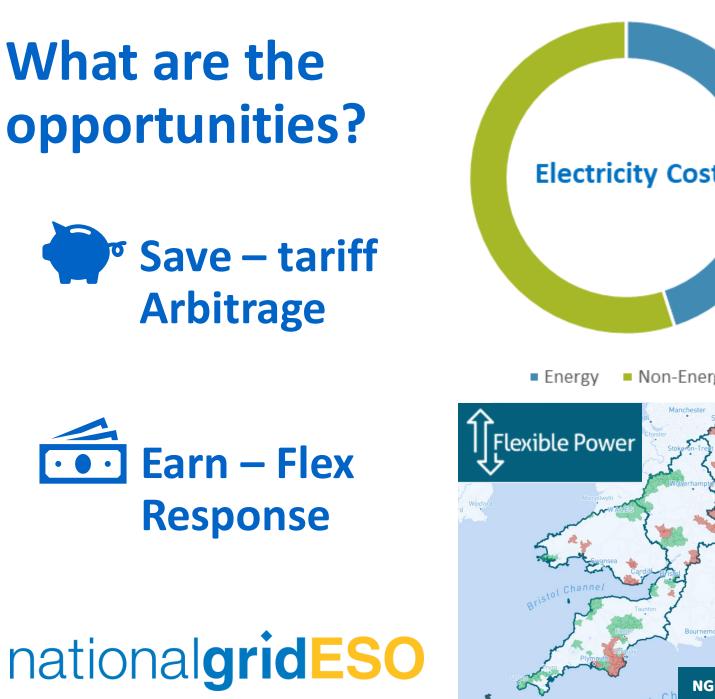
support you

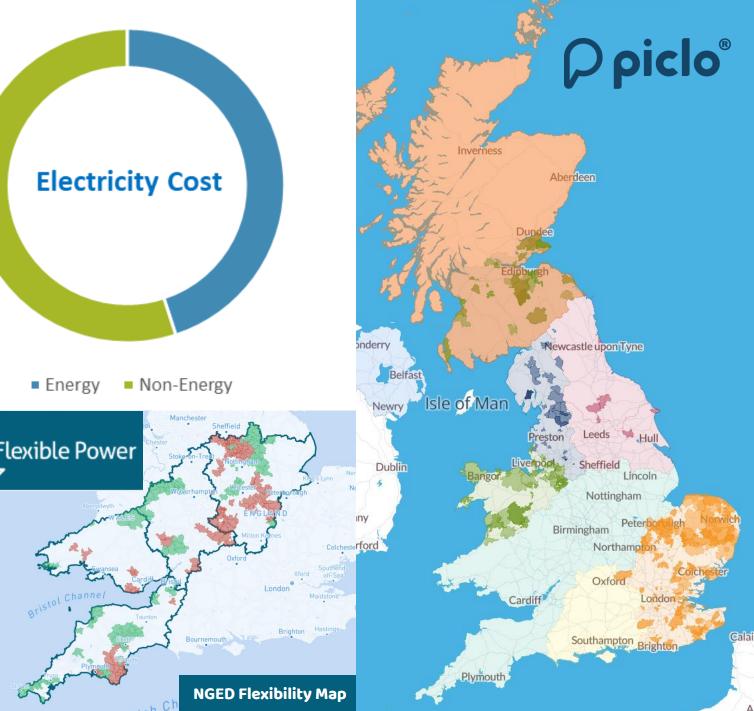
gridimp

Turning business energy users into **smart, flexible, low carbon** consumers.

MORAN MARKAN





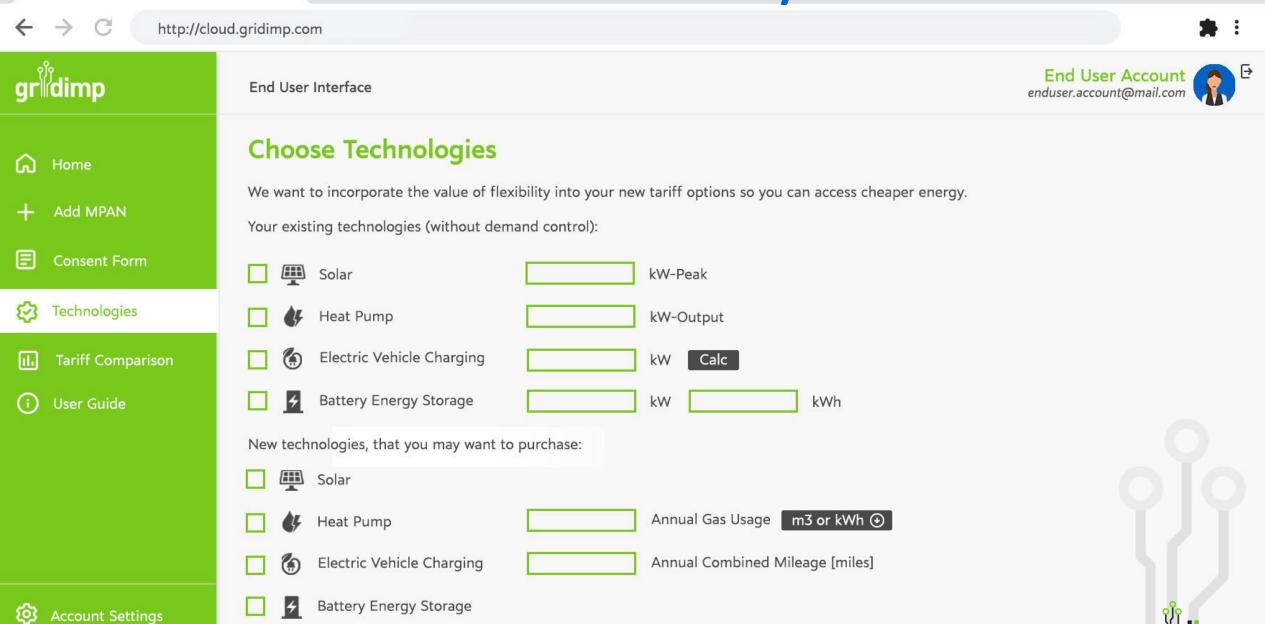


Gridimp Cloud

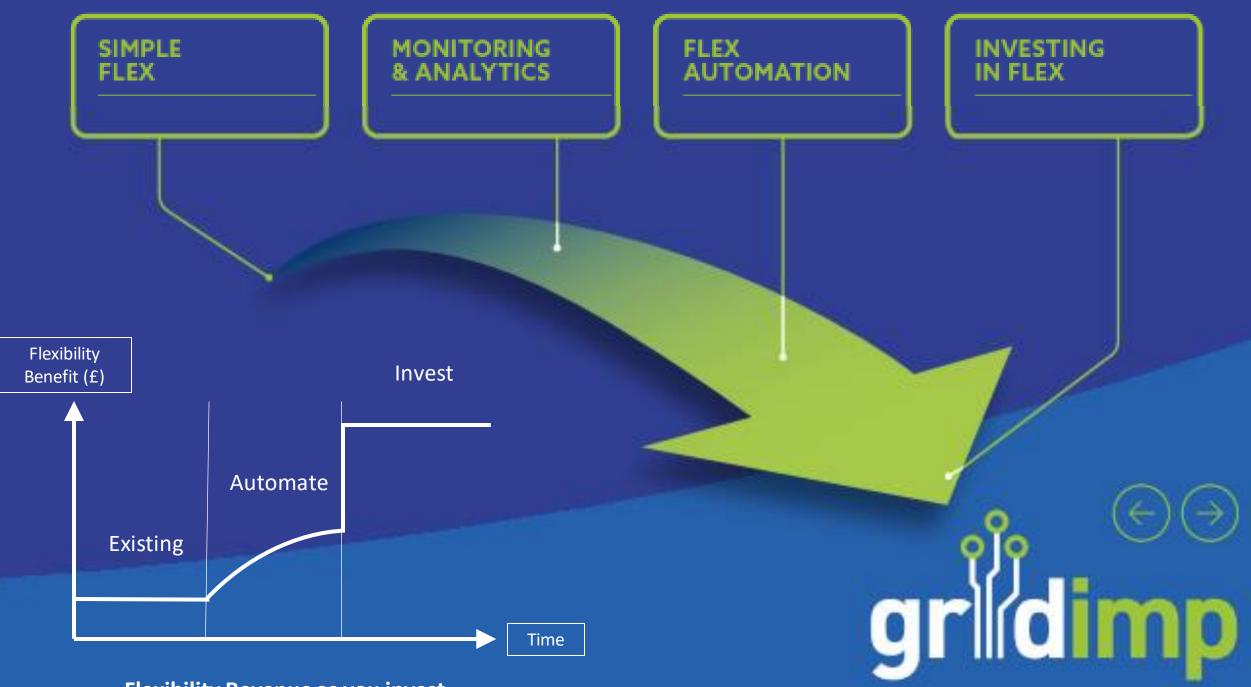
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Who is flexibility for?



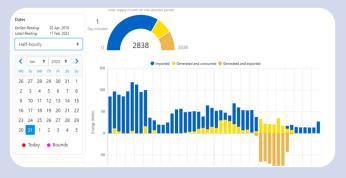
Those who have or want plant that can be flexible



Flexibility Revenue as you invest

Client Example demand 1.5MWh/day







Investment

Confidence to invest over £400k, clean generation & storage with Sub 4-year payback

Winter Response

Participation in Flex Markets, delivered stacked revenue paid for actions > £400 per workday

Summer profile

 \geq 90% energy independence

> 50% reduction in energy spend

Carbon negative

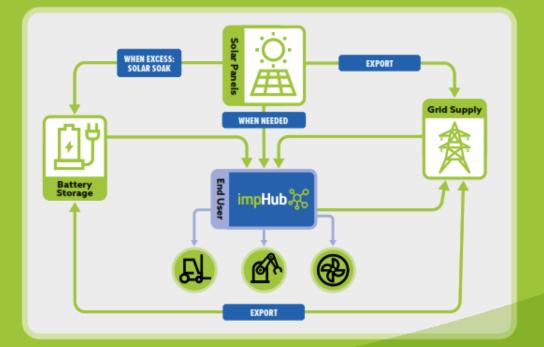


The Energy Relationship of the Future.

Passive approach: The old model...

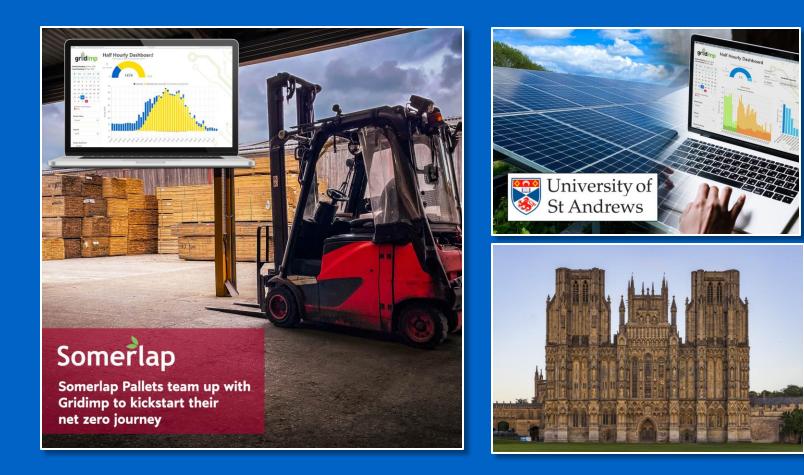


> The Future: Interactive Flexible Energy Relationship...





Thank you...





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