# **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.

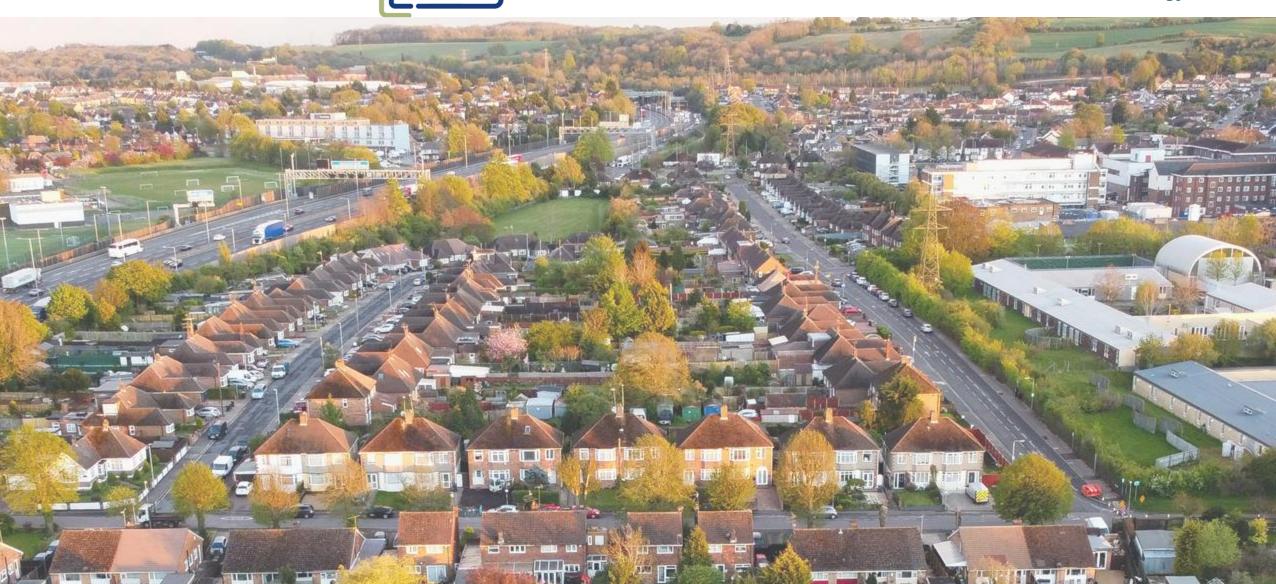












# Thank You

natasha.mills@flexassure.org

info@flexassure.org

6th Floor, 10 Dean Farrar Street, SW1H0DX



# How to make money from Grid services

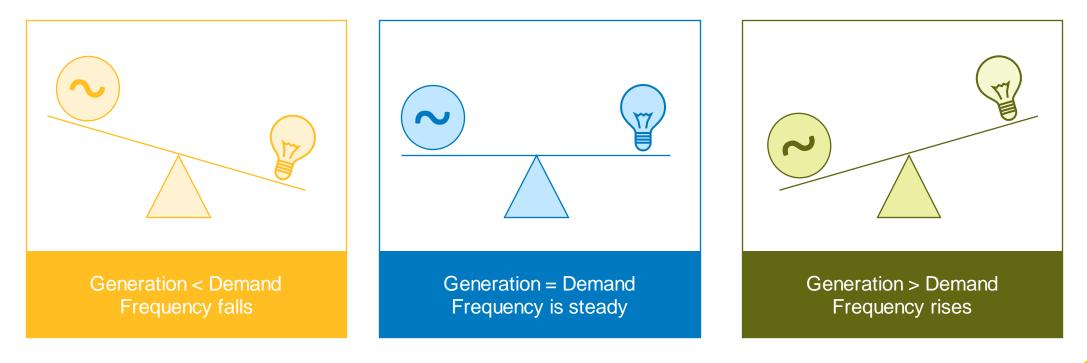
Hannah Rochford Ancillary Services Development Manager

# 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



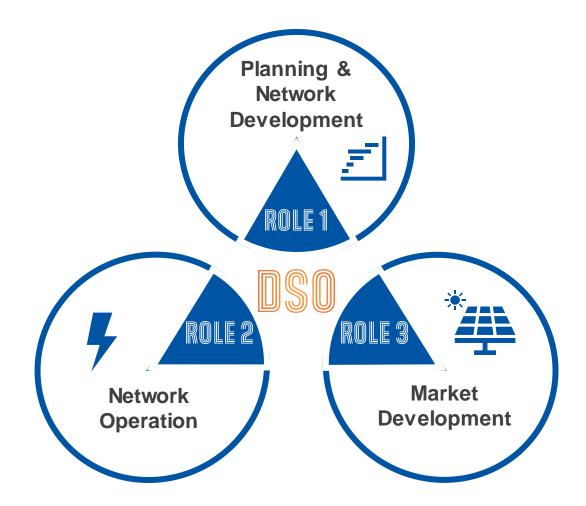
# **Introduction to UK Power Networks**



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



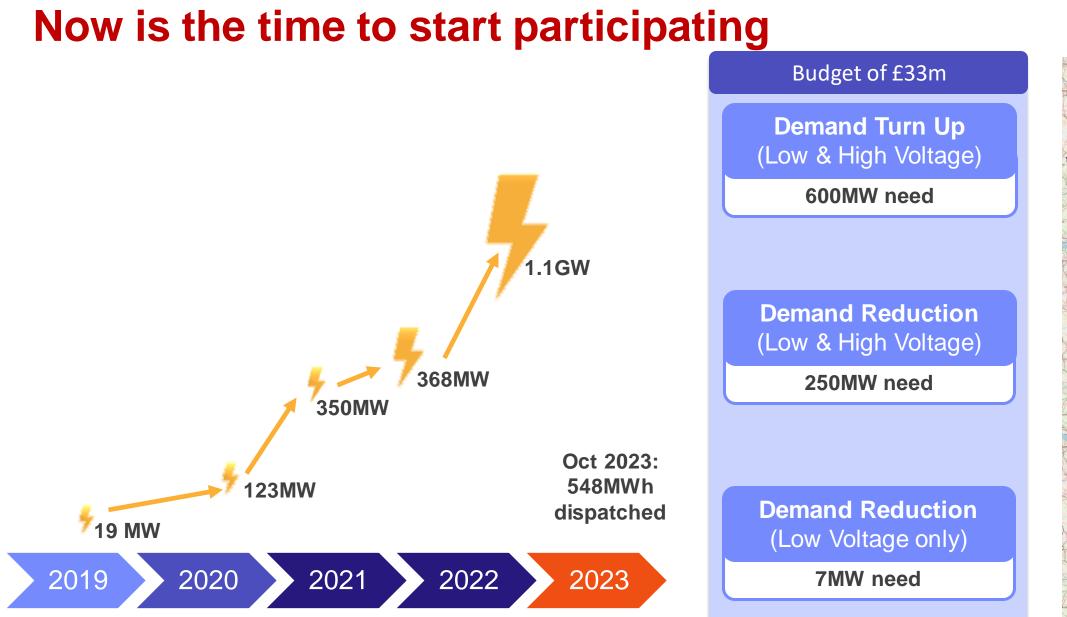
# **DSO founded April 2023**



# 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
<b>Firm dispatchable</b> We pay for availability during certain windows and then utilisation	Secure	Av: £90k/MW
<b>Enduring peak reduction</b> 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

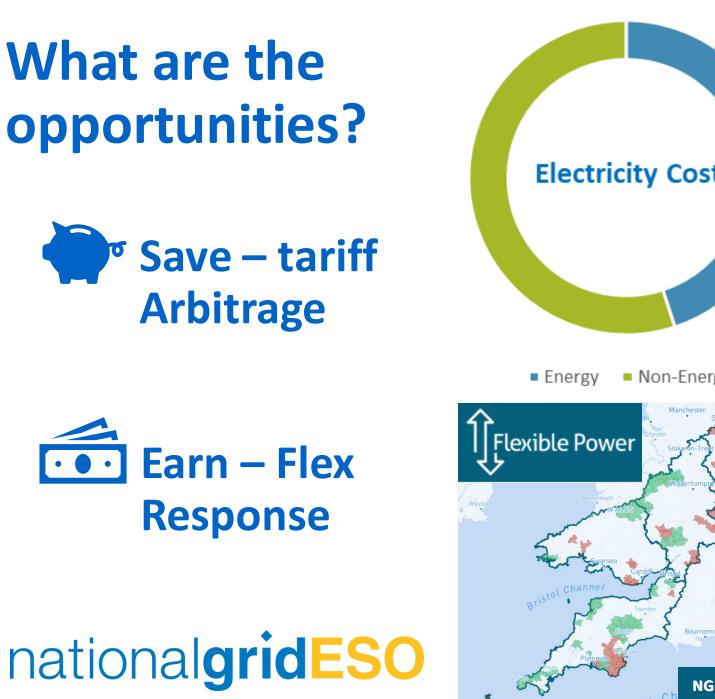
support you

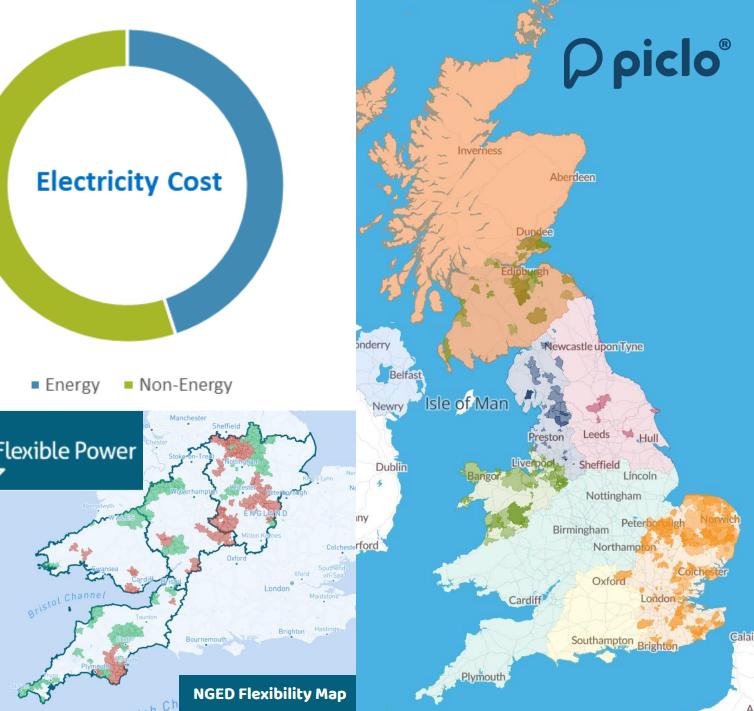
# gridimp

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

MORAN MARKAN





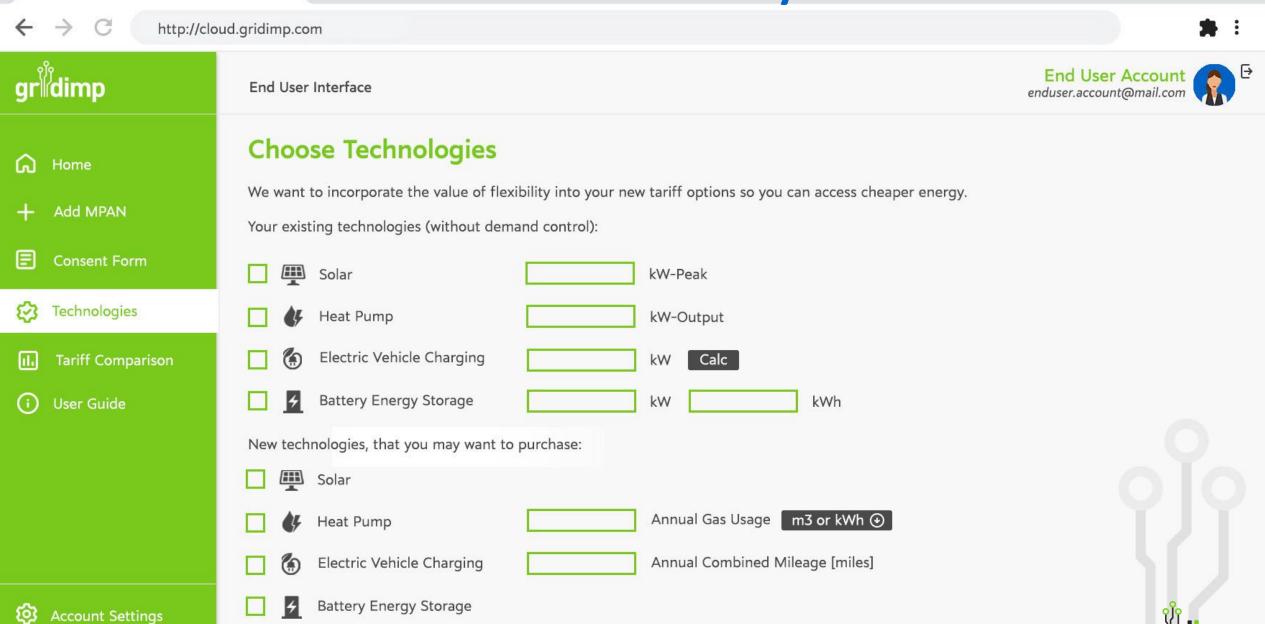


### **Gridimp Cloud**

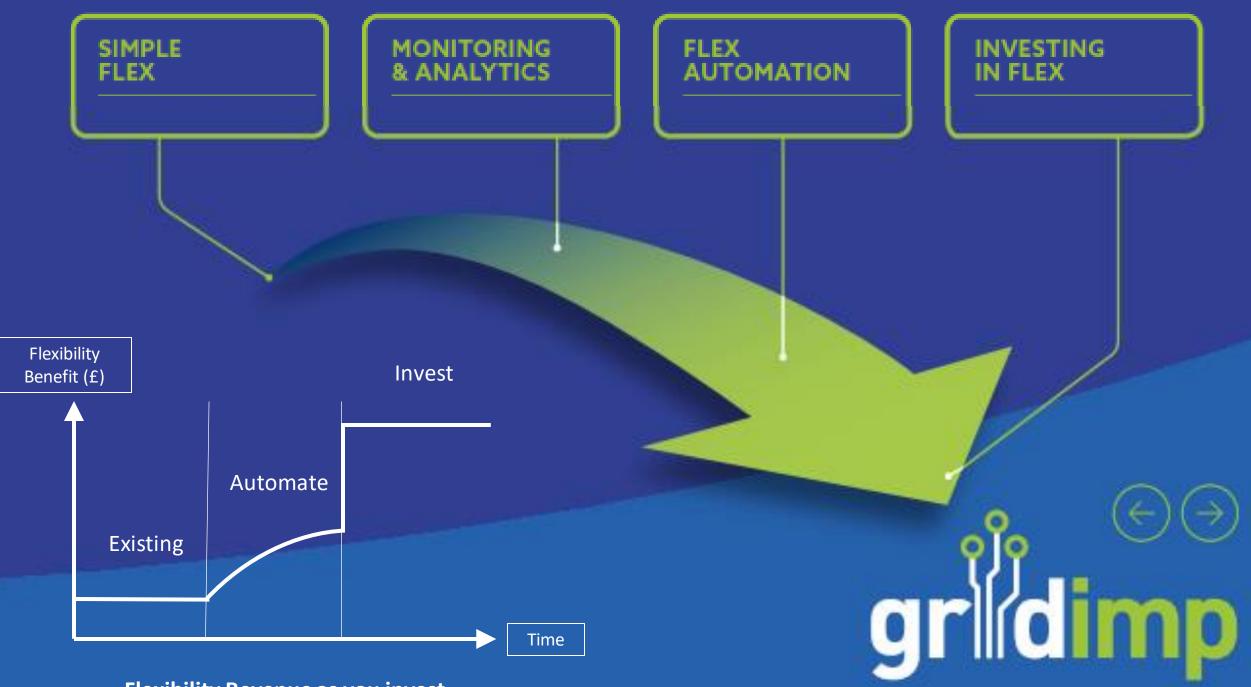
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# Who is flexibility for?



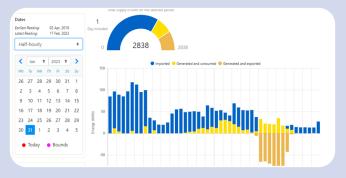
### Those who have or want plant that can be flexible



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

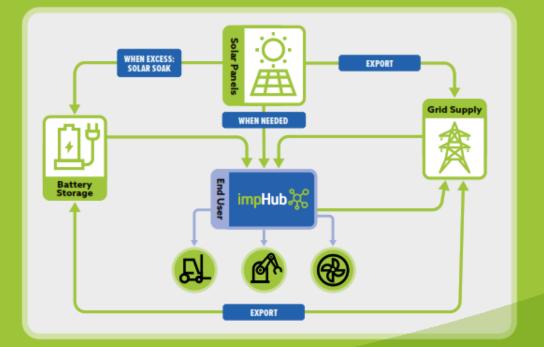


# The Energy Relationship of the Future.

### Passive approach: The old model...

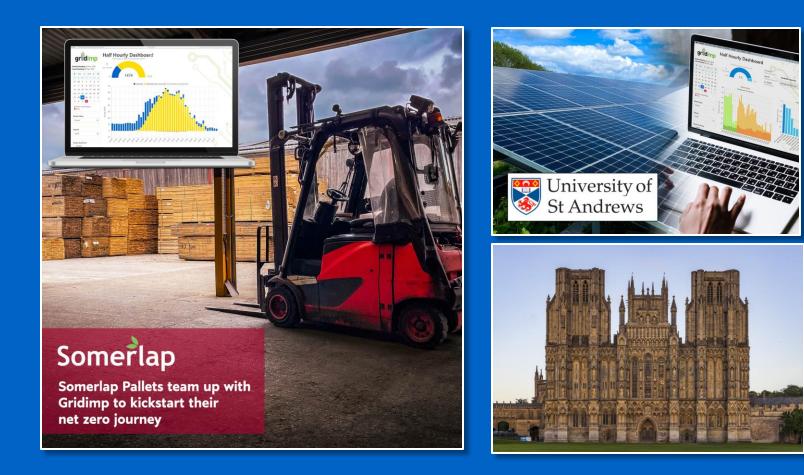


### > The Future: Interactive Flexible Energy Relationship...





# Thank you...





Smart Microgrids and Automated Flexibility Trading T: +44 (0)1749 372198 | E: info@gridimp.com | W: www.gridimp.com