

ELEXION

**P375 'Settlement of Secondary BM Units
using metering behind the site Boundary
Point'**

24 November 2021

What are we going to discuss?

Who is Elexon

Routes into the Balancing Mechanism

Why P375 was raised

What P375 will do

When you should expect to see P375

Related work



ELEXON – KEY TO THE ELECTRICITY MARKET

Code Manager/Market Operator
providing key energy market infrastructure



Code
Administration



Code
Operation



Policy
Delivery Support

Elxon – trusted, reliable independent market experts

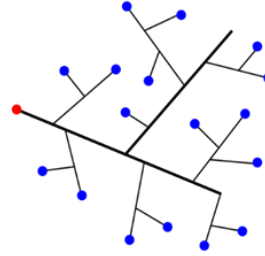
We serve over
400 Market
Participants



We also calculate, collect & distribute payments to CFD generators
and Capacity Market providers



**Wider
Access:
Opening up
Balancing
Mechanism**



**Contributing to
DNO to DSO
transition**



**Proposing solutions
to the consolidation
and simplification of
the energy codes**



**Opening up
Supplier
Hub**



**Unlocking the benefits of
Smart Meters
via MHHS TOM Design**

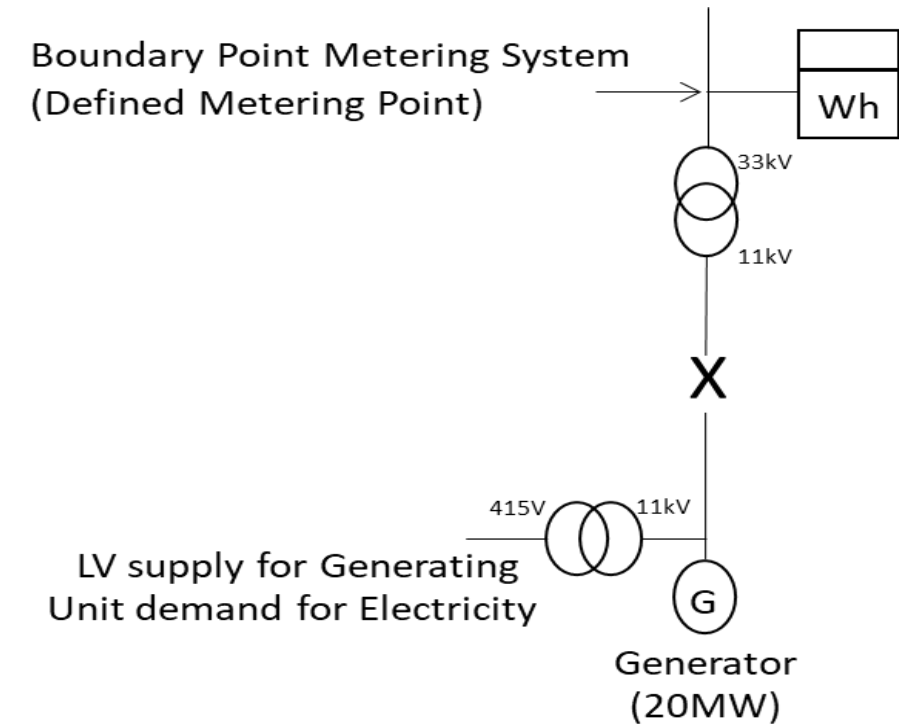
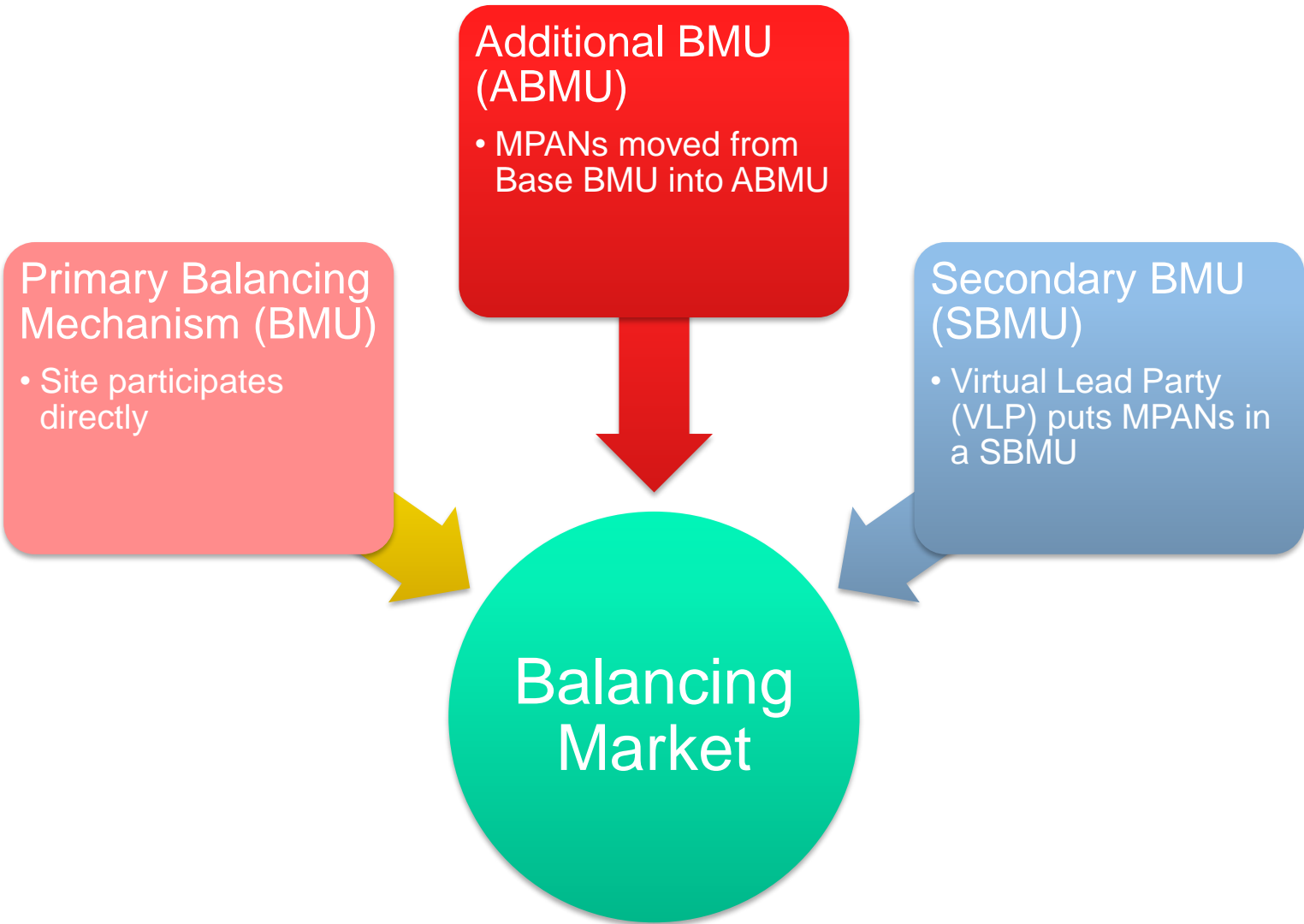


**Building up Digital
Platform to serve
new needs**



EXISTING ROUTES INTO THE BALANCING MARKET

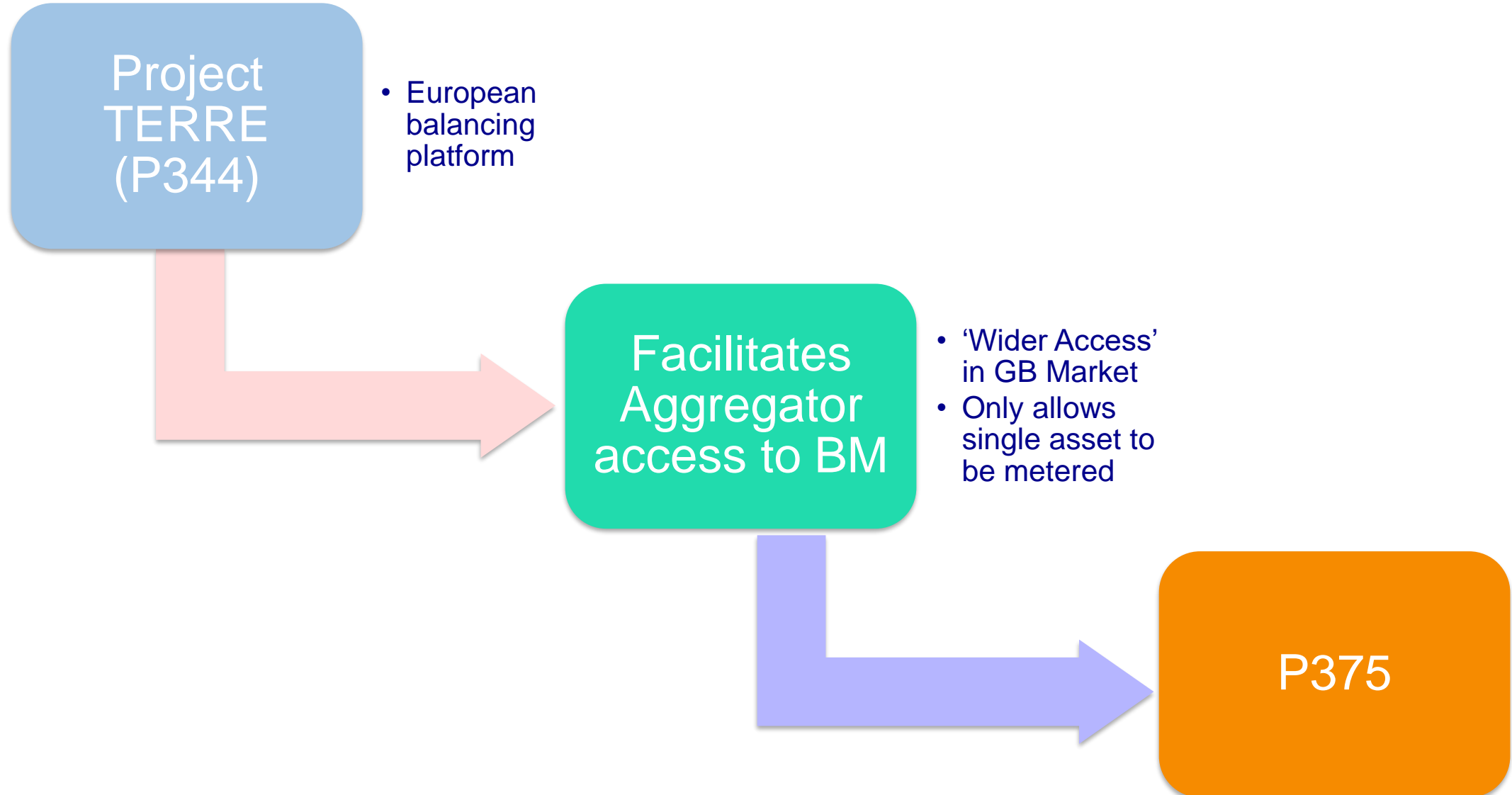
Offering balancing services to National Grid – existing arrangements





WHY P375 WAS RAISED

P375 – the Origins



What is the problem we're trying to solve?

The Pump/Compressor delivers a Balancing Service by reducing import by 2MW

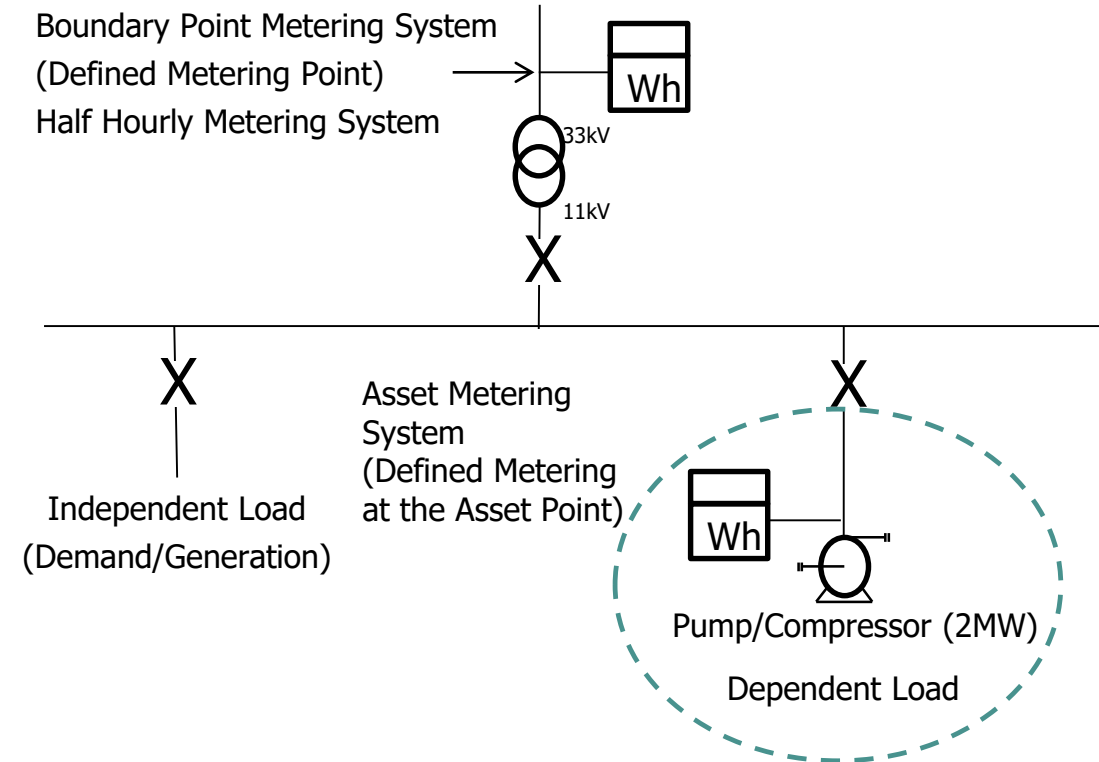
At the same time a process starts on another part of the site using 1.5MW

Boundary Meter will only show 0.5MW delivered

How can we demonstrate that a Balancing Service of 2MW was delivered?

By installing metering at the Asset

Metered Volumes from the Asset will be submitted under an Asset Metering System ID (AMSID)



What were the considerations for the P375 solution?



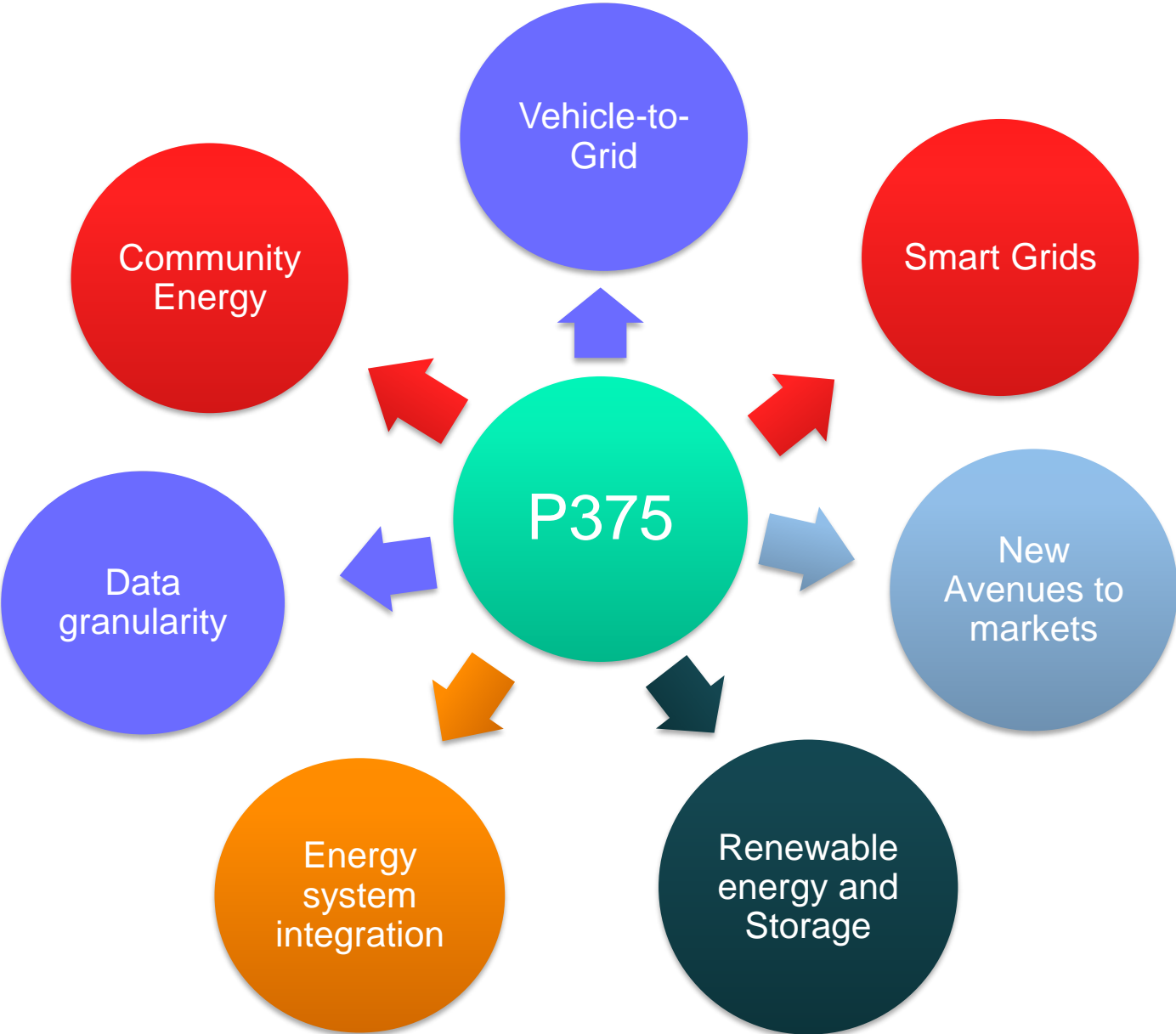
✓ You get rewarded for what you produced or reduced

✓ Balance Risk Appetite and cost

✓ Comparable to existing equivalent requirements

✓ Workgroup included EV charging companies, Data Aggregators, current BSC Parties (e.g. Supplier, HHDC)

P375 is a fundamental building block for future energy flexibility





P375 SOLUTION

ELEXON

What has P375 come up with for metering?

The modification process for P375 resulted in a number of operational outcomes for metering

1 Code of Practice (CoP) 11 was developed for P375

2 Three categories of Asset Meter Types were created



BSC approved Half Hourly (HH) Meters/Outstations



Operational Meters / Non-BSC approved HH Meters



Metering devices embedded within a product

For all categories data has to be submitted in a 30 minute Settlement Period format e.g. through a system solution linked to the Asset Meter

3

BSC approved Half Hourly Meters/Outstations go through a Compliance and Protocol Approval Test

This will be extended to Asset Meters in Code of Practice 11

The current process for Half Hourly Meters/Outstations is in BSCP601 - Metering Protocol Approval and Compliance Testing

More granular data required for National Grid Electricity System Operator – aggregated up to Secondary BMU level and provided by VLP – **Not in scope of CoP11**

What does the solution look like?

We have developed the Virtual Lead Party (VLP) Hub Principle in the BSC

Five key areas

1	Qualification
2	Registration
3	Meter Operations
4	Data Collection
5	Assurance

Roles involved

1	Virtual Lead Party (VLP) / Asset Metering VLP
2	SVA HH Meter Operator Agent
3	Asset Metering Meter Operator Agent
4	BSC HH Data Collectors
5	Asset Metering HH Data Collectors

Where a Party and Agent have a Data Transfer Network gateway use existing Data Flows to communicate but the option will be available to use other means ('P' Flows)

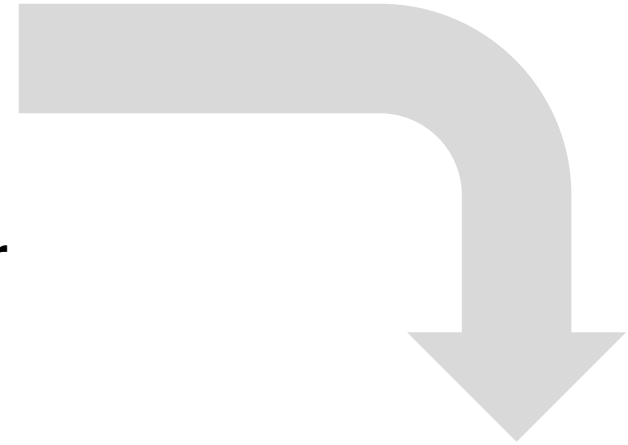
How will data be submitted?



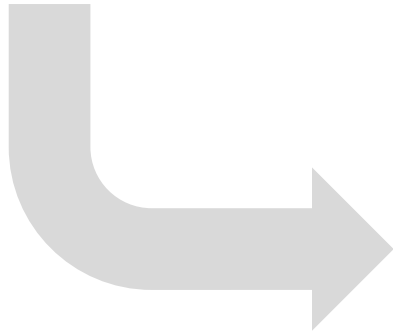
Asset Meter



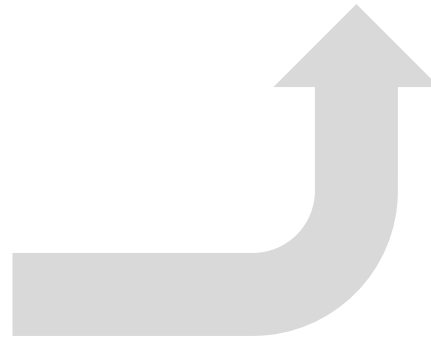
**Half Hourly Data Collector
(HHDC) System**



**Supplier Volume Allocation
Agent (SVAA)**



Asset Metering Half Hourly Data Collector (AMHHDC)





P375 PROGRESSION

P375 Progression

Ofgem Decision

Ofgem approved P375 on **24 February 2021** with an expected implementation date of **30 June 2022** as part of the June 2022 BSC Release

Code Subsidiary Documents (CSD)

The CSDs have been developed for P375 with an Industry Expert Group. These have been approved by the BSC Panel.

A new BSCP has been created for Meter operations and data collection for Asset Meters

Systems

Front end systems and calculation engine development work progressing to plan

Communications

We are running a webinar on 7 December to help explain Modification P375.
Details are on the Elexon website – www.elexon.co.uk



RELATED MODIFICATION

P415 'Facilitating access to wholesale markets for flexibility dispatched by Virtual Lead Parties'

- Proposes fitting asset meters to generators or DSR providers behind the boundary point using the P375 solution
- Will allow Virtual Lead Parties to trade from demand-side response (DSR) providers directly in the wholesale electricity market, rather than through Suppliers
- Currently in the assessment procedure – new workgroup members are always welcome
- Find out more on our website: <https://www.elexon.co.uk/mod-proposal/p415/>

ELEXON

THANK YOU

Iain Nicoll

iain.nicoll@elexon.co.uk

24 November 2021