

DSO

DISTRIBUTION SYSTEM OPERATOR

MW Dispatch Solution

2024



Overview



The MW Dispatch solution is a key output of the RDP approach.



This whole system solution enables Distributed Energy Resources (DER) customers to connect sooner and provide flexibility to NESO (National Energy Systems Operator) markets, while supporting the NESO to manage transmission constraints and optimise investment plans across the South-East coast area over the next 10 years.



These actions help to avoid the additional costs of running fossil fuel generation for the wider system, contributing to a lower overall cost of electricity and more low carbon generation connecting sooner.

Regional Development Programme: MW Dispatch Service



VISIBILITY &
CONTROL TERMS



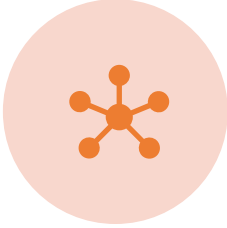
NESO'S TCM*
MARKET



PRE-FAULT THERMAL
CONSTRAINT



T-D COLLABORATION
WITH THE NESO



CONSISTENT
CUSTOMER
EXPERIENCE WITH
FLEX SERVICES
DISPATCH

*TCM- Transmission Constraint Management

Regional Development Programme: MW Dispatch Service

In 2023/24, 5 customer assets, totalling 21.5MW registered onto the NESO market platform

50 customer projects totalling 1.5GW are in the pipeline to connect in the next few years



5 GSPs: Bolney, Ninfield, Sellindge, Canterbury North & Richborough

MW Dispatch Service – Key Facts

Contractual terms:

Visibility and Control clause

Non-aggregated DER:

Generators above 1MW

DER registration:

NESO's Signal Market Platform (SMP)

One NESO service:

DER need to undertake NESO's Balancing Mechanism or MW Dispatch service

Several DSO services:

DER can undertake other Distribution Management services

Market participation:

Prices day-ahead up to 4pm

ESO dispatch via UKPN:

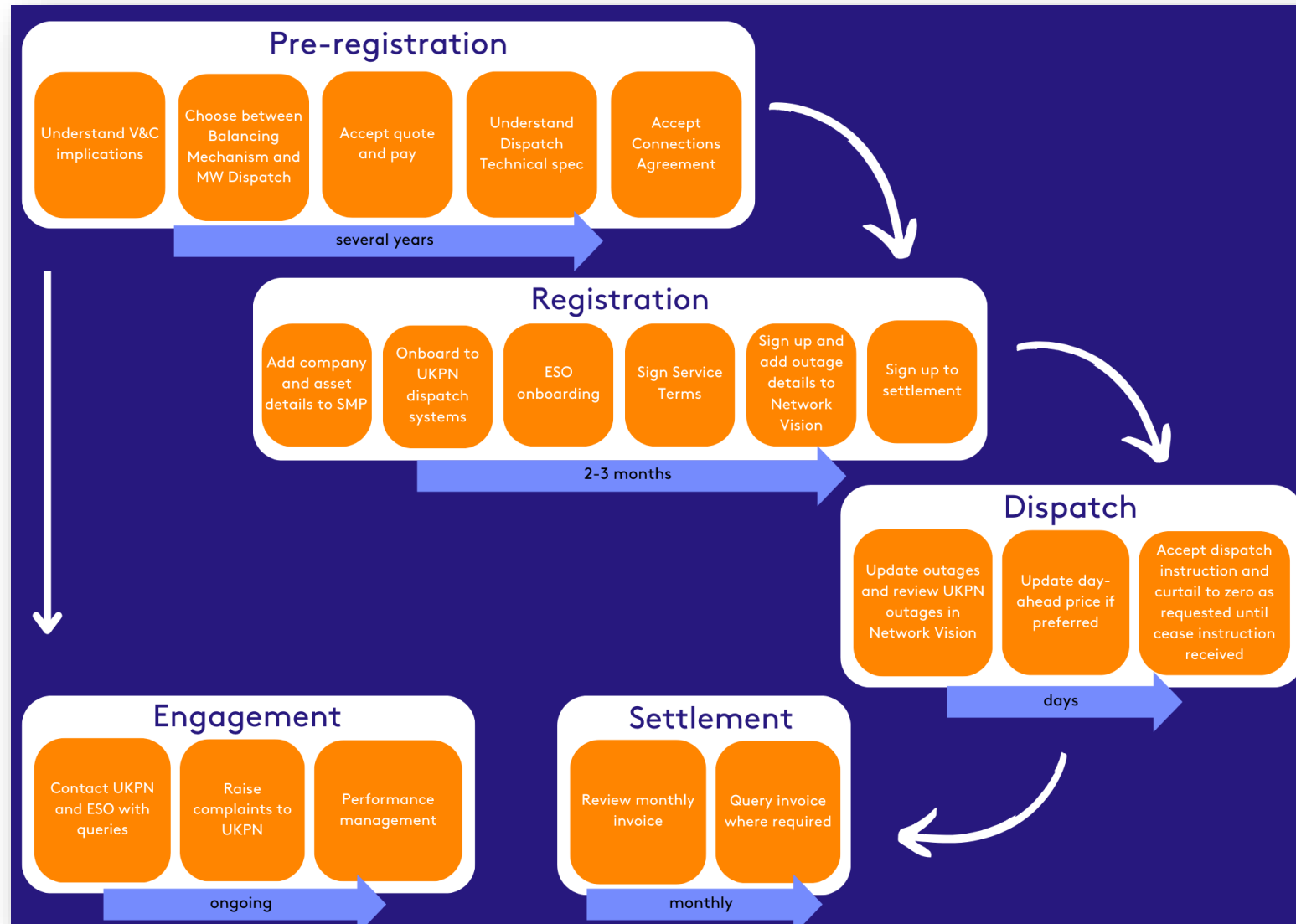
Turn down to zero

Settlement:

NESO-DER settlement process



MW Dispatch Service – Customer Journey

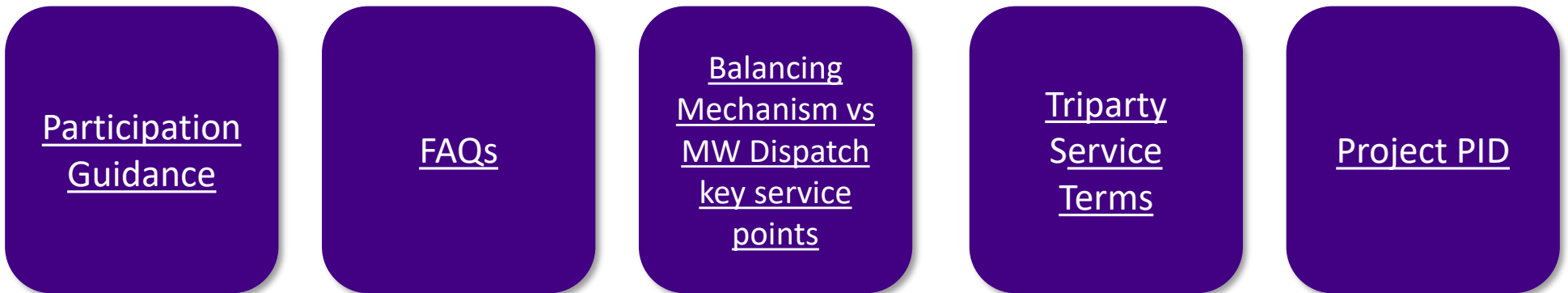


MW Dispatch Service – Key Milestones and Extra Information

Timelines:



Publications:



Find out more:

Visit the [UK Power Networks website](#) or the [NESO website](#).

Contact us:

For any queries, please contact us on mwdispatchservice@ukpowernetworks.co.uk

MW Dispatch Service – Benefits

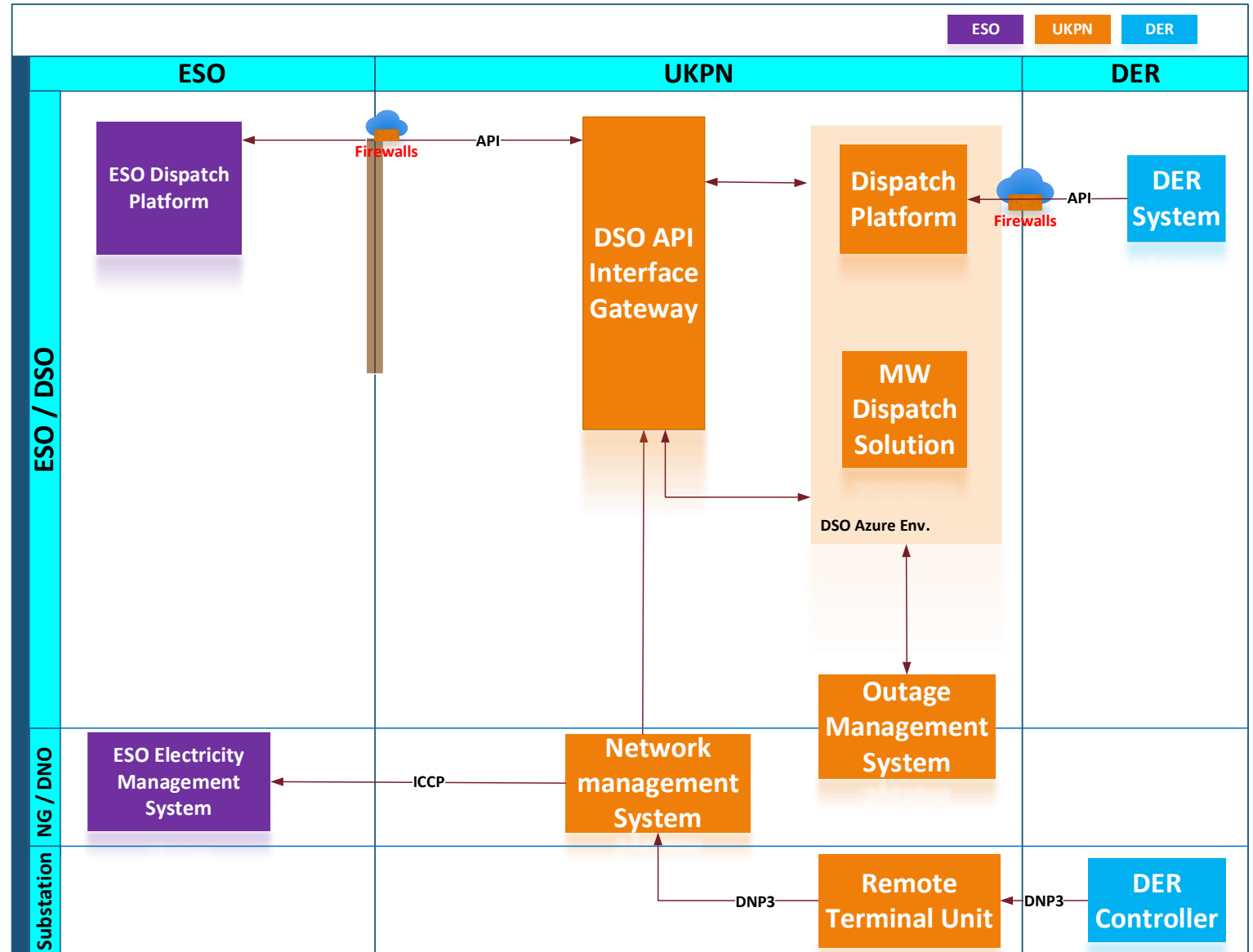
What it means for the industry

- Access to lower cost DER resources to solve transmission problems
- Enhanced visibility of DSO data to better inform NESO operations
- Demonstration of value from enhanced Transmission-Distribution (T-D) coordination – lowering whole system costs
- Industry first implementation of primacy rules and at day ahead and intraday timescales
- Test bed for managing T-D conflict of services

What it means for our DER customers

- Accelerated connections against lengthy Transmission reinforcement delays
- New revenue stream by participating in NESO market
- Easier to join than BM

High Level architecture



Find out more by emailing us at:

mwdispatchservice@ukpowernetworks.co.uk

Or visit the [UK Power Networks website](#) or the
[NESO website](#).