

power responsive

Operational Metering
Working Group 4

Date 12/01/2023



Agenda



15:00

10 mins

Welcome & Introductions



15:15

10 mins

Operational Metering Case Studies Update



15:30

10 mins

Measuring Instrument Regulations



16:25

5 mins

Round Up

Proposed case studies

We are proposing running 2 case studies to build evidence and understanding on the impacts of measurement accuracy, read frequency and aggregation methodology on the overall accuracy of an aggregated metering feed.

Case study 1 (Hopefully utilising live data)

Measuring the impacts of read frequency at the asset level and aggregation methodology on the accuracy of an aggregated metering feed.

Objectives

- Understanding how the accuracy of an aggregated metering feed alters from a base case (1 second read frequency at the asset) when read frequencies at the asset level are altered.
- The impacts of altering aggregation methodology (e.g. refresh rate for loss of comms) on the accuracy of a aggregated feed (maintaining a 1 second feed) when compared to a base case.

Case study 2 (Mathematical modelling)

Forecasting the impacts of different measurement accuracies at an individual asset level on the accuracy of a single aggregated metering feed.

Objectives

- To understand how the nameplate accuracy of asset meters impacts overall accuracy when assets are aggregated into a master unit.
- Understand the impacts of population size and size of measurements on the above.



Measuring Instrument Regulations (MIR)

- Question raised at the last working group session as to whether an asset meter providing data for settlement of a flexibility service would be required to be MIR complaint.
- We have met with the OPSS to discuss the working groups & Power Responsive's concerns.

We wanted to understand:

1. The purpose of the MIR
2. If the question above was correct.
3. How they see MIR interacting with COP11 & The Electric Vehicles (Smart Charge Points) Regulations 2021.
4. If OPSS/BEIS understood the impact of MIR being mandatory for all asset meters being used for settlement in flexibility services.



Measuring Instrument Regulations (MIR)



Next Steps:

- **Collect MIR survey responses.**
- **Continue the discussion via a separate Power Responsive Working Group specifically for MIR.**