

Reporting metered and non-metered consumption in 15-minute ISP

eSett Customer Committee November 24th 2020

Proposed reporting of consumption

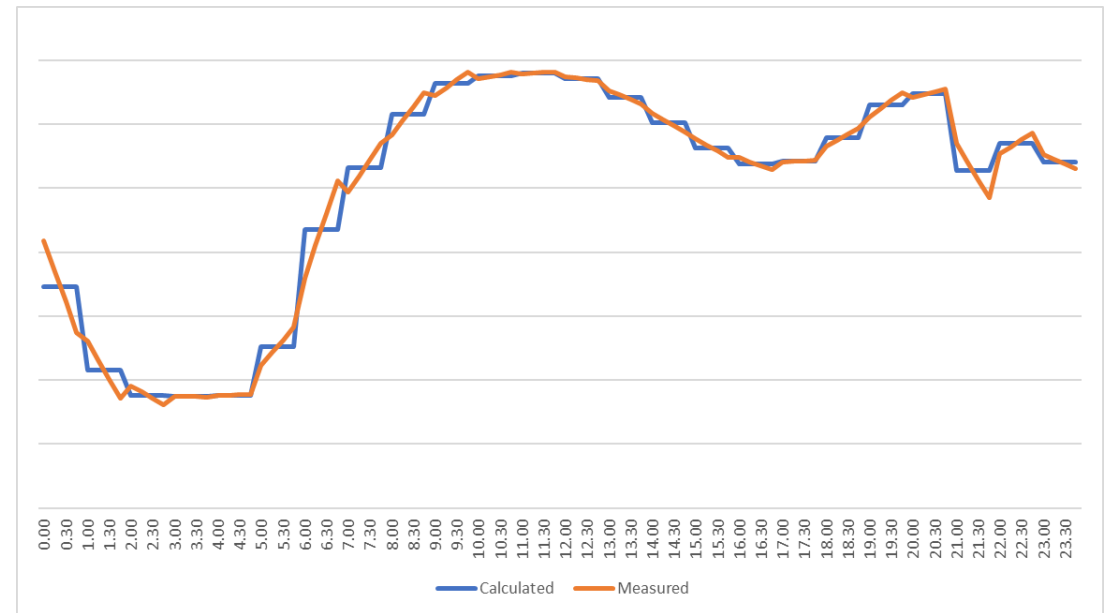
- Currently eSett reports consumption metering points in four different types which are divided into 12 subtypes
- The proposition is to add a new subtype for metered consumption from MGA starting at the go live of 15-minute imbalance settlement period (ISP)
- Current subtype metered consumption would include only consumption actually metered in 15-min time resolution
- The new subtype would include consumption metered in 1 hour time resolution and then divided into four 15-min periods

Background of the proposition

- Finnish BRPs have raised concerns about accuracy of load forecasting when entering into 15-minute ISP
- At go live of 15-min ISP a majority of consumption is expected to be metered in 15-min time resolution but still a considerable amount of consumption will remain hourly measured for many years after
- DSOs begin metering in 15-min time resolution in different stages depending on readiness of DSO
- Less accurate load forecasting together with expected volatility of imbalance electricity prices especially at first and last quarter of an hour cause significant risk for higher imbalance electricity costs for BRPs

Load forecasting

- Load forecasting would benefit if measured and calculated consumption were reported separately
- BRP receives consumption measurements only from eSett by default
 - Poor view on how consumption is divided between 15-min and hourly measurements by RE



Proposed reporting in practice

Finnish solution

- Finnish Datahub will eventually report DSOs consumptions to eSett in 15-min time resolution
 - Datahub will contain information is a single metering point measured in 15-min or 1 hour time resolution
 - Hourly measurements are divided evenly to four 15-min periods by Datahub
 - Measured and calculated consumption could be reported separately with some modification to Datahub (not included in current configuration)
- eSett reports consumption to BRPs and REs by subtype
 - Changes needed to both BRPs and REs

Conclusion

- Reporting metered and calculated consumption would help BRPs to forecast their consumption more accurately
- Better forecasts would lead to lower imbalance electricity costs for BRPs and further to REs
- Only moderate changes needed for IT systems and could be introduced at the same time as changes for 15-min ISP