MHHS SERVICES: SUMMARY GUIDE

The Load Shaping Service (LSS)

The Load Shaping Service (LSS) is responsible for calculating energy usage (import and export) Load Shapes for a number of defined Categories of Metering Systems. The LSS uses validated Settlement Period (SP) level meter data accessed from the Processing Service (Smart) (PSS). The Load Shape data will then be used by the PSS to convert Register Readings (RRs) or Daily Consumption values into SP level data. The Load Shape data will also be used to estimate SP level data for smart Meters with Register Readings, non-smart Meters and smart Meters where SP Level data is either missing or unavailable.

What is a Load Shape?

A Load Shape is a set of forty eight (48) values in kilo Watt hours (kWh) and Co-ordinated Universal Time (UTC) for a Category of Metering Points Administration Numbers (MPANs) for a single Settlement day. The Load Shape is derived by calculating a simple average all the MPAN SP level meter data for the each category. In addition to the Load shape the number of MPANs in the calculation, the daily total and a seven (7) day rolling total will be provided. The seven (7) day rolling total will be used by the Processing Service in calculation of estimated SP Level data where RRs are not available.

What is a Category?

The initial set of Categories will be defined in Market Standing Data (MSD) as part of the Volume Allocation Service (VAS). The Categorisations will be defined follows:

- The Grid Supply Point Group (GSPG) in which the MPAN is located; and
- whether the MPAN is for Domestic or non-domestic sites; and
- whether the MPAN is for Active Import (AI) or Active Export (AE).

This gives fifty six (56) Load Shapes (14 GSPGs x 2 (domestic/non-domestic) x 2 (AI or AE)). All of the information to identify the Categorisation of each MPAN will be available in the Registration System. It is noted that additional Categories may be required in the future.

How will the LSS obtain the smart Meter data?

The LSS will access from the PSS validated Settlement Period level data identified by the MPAN. The LSS will ensure that it always uses the maximum number of Metering Systems available from all the Processing Services expected to provide it for each Settlement Date. The LSS will access all the required Registration Information for each MPAN to identify the category for each MPAN. These processes are called Data Marshalling.

How does the LSS process the data?

Once the Data Marshalling process is complete, the LSS will calculate a simple average for each defined Category, the daily totals and seven day total and a count of the number of MPANs included in the calculation for each average. Once complete the Load Shapes, totals and MPAN counts will be notified to each of the PSSs.

What are the timescales?

The service will operate 365 days per year (366 for leap years). The LSS will process at least 2 runs per day for different Settlement days. For example, this could be for a Settlement Day [4] days previous and from a day [10] days previous.

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Service Summary:

This service will be responsible for:

- Accessing smart Meter Settlement Period data for Active Import and Active Export from the 'Processing Service for Smart and non-smart Meters' according to an agreed schedule;
- Deriving 'Load Shape' data for an agreed number of categorisations relating to the type of Metering System for which Load Shaping information is required; and
- Providing access to 'Load Shape' data for the agreed categorisations to the Processing Service for Smart and non-smart Meters according to an agreed schedule.