ELEXON

Annual AFYC Recalculation and Review Paper

Supplier Volum	ne Allocation Group (SVG)		
Date of meeting	5 October 2021	Paper number	248/14
Owner/author	David Thomas	Purpose of paper	Decision
Classification	Public	Document version	v1.0
Summary		Iculation. And it invites t	Group (PEG) act as a Review Group he SVG to agree this, along with the

1. Background

- 1.1 The SVAA is required to undertake the AFYC recalculation annually as instructed by Elexon.
- 1.2 The process recalculates three sets of values that are held in Market Domain Data (MDD). These are:
 - a) AFYC values;
 - b) GSP Group Profile Class Average Estimated Annual Consumption (GGPCAEAC) values; and
 - c) GSP Group Profile Class Default Estimated Annual Consumption (GGPCDEAC) values.

2. Proposed Approach

- 2.1 The PEG's role would involve
 - o Agreeing a methodology for the analysis,
 - o Reviewing the analysis once undertaken by Elexon; and finally
 - $\circ\,$ Making recommendations to the SVG on whether the values should be updated in MDD.
- 2.2 Our proposed timetable for the review is as follows:

Activity	Date
PEG meeting to discuss/determine appropriate methodology	November 2021
SVAA undertakes recalculation	November 2021
Elexon analyses values and distributes to the PEG	December 2021
PEG meeting to agree recommendations to the SVG	January 2022
SVG meeting to discuss PEG recommendations	February 2022
MDD Change Request raised (if required)	After SVG meeting
Updated values go live in MDD (if appropriate) with an effective date of 1 April 2022	March 2022

The recalculation uses data over a year at the latest run type for each Settlement Day. Elexon suggests that the recalculation period for this year should be 1 November 2020 to 31 October 2021, in line with the dates used in previous years.

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3. Recommendations

- 3.1 We invite the SVG to:
 - a) AGREE that the PEG acts as the AFYC Review Group;
 - b) AGREE the proposed timetable; and
 - c) AGREE the calculation period of 1 November 2020 to 31 October 2021.

Appendices

Appendix 1 – Definitions and uses of recalculated items.

For more information, please contact:

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APPENDIX 1 - DEFINITIONS AND USES OF RECALCULATED ITEMS

Average Fractions of Yearly Consumption (AFYC)

AFYCs are the estimated average fractions of a Meter's annual energy attributed to each Time Pattern Regime (TPR). They are calculated for each GSP Group, Profile Class (PC), Standard Settlement Configuration (SSC) and TPR combination. There are three main uses of AFYCs:

- To calculate the Based Fraction and Switched Fraction for Switched Load Meters. These fractions are then used
 to calculate the Combined Period Profile Coefficients (CPPCs) from the Basic Period Profile Coefficients
 (BPPCs). The storage and base loads for Economy 7 type SSCs are joined to create a combined profile for the
 night register;
- To calculate the Period Profile Class Coefficients (PPCCs) from either the BPPCs or the CPPCs by dividing them
 by the AFYC for each register. The BPPCs and CPPCs sum to approximately one over the year. For each register
 the PPCCs sum to approximately one. For each Meter the PPCCs sum to the number of registers. The AFYCs
 are used to 'normalise' the Profile Coefficients for each Meter register. This creates intuitive Annualised Advances
 (AAs); and
- To calculate a Default Estimated Annual Consumption (EAC) value for a Meter register from a GGPCDEAC. The Default EAC value is split into register-based values by being multiplied by the AFYCs.

GSP Group Profile Class Average EACs (GGPCAEAC)

GGPCAEACs are calculated for each GSP Group, PC and SSC combination. These are the initial EACs that are allocated to new Metering Systems by Suppliers. They are also used on a change of SSC, PC or Measurement Class.

GSP Group Profile Class Default EACs (GGPCDEAC)

GGPCDEACs are calculated for each GSP Group and PC combination. They are used by the Data Aggregator to create Default EACs for Meter registers where there is no EAC/AA for that Metering System and where there are less than 50 Metering Systems with the same Settlement Class (i.e. Supplier, GSP Group, SSC, PC and Line Loss Factor) in the Supplier Purchase Matrix (SPM).

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