

CMP264/265 – Balancing Settlement Code P348/349 Modifications (Summary of Historical Gross Metered Demand Data)

What are BSC Modifications P348/349 and how are these associated with CMP 264/265?

In June 2017, Ofgem approved¹ WACM4 for CUSC Modification CMP264/265. This modification will change the charging arrangements for our Demand TNUoS tariffs. Consequential Balancing Settlement Code modifications P348/349² changes were also proposed and subsequently approved. Further information for the implementation of CMP264/265 in our TNUoS Demand tariffs can be found on our website³. The October 2017 forecast of our 2018/19 TNUoS tariffs will be the first to follow the CMP264/265 methodology.

Balancing Settlement Code modifications P348/349 change the data that National Grid currently receives from Elexon. This modification also included the provision of historic data (from the past three years) to allow us to forecast future volumes. The data includes the metered data for Supplier Volume Allocation (SVA registered suppliers) and Central Volume Allocation (CVA registered Embedded Generators) which is now explicitly broken down by:

- Gross Half-Hourly (HH) Embedded Export.
- Gross Half-Hourly (HH) Demand.

We will receive these volumes with the associated individual Supplier and Embedded Generator Balancing Mechanism (BM) Units.

¹ <https://www.ofgem.gov.uk/publications-and-updates/decision-industry-proposals-cmp264-and-cmp265-change-electricity-transmission-charging-arrangements-embedded-generators>

² <https://www.ofgem.gov.uk/publications-and-updates/embedded-benefits-decision-industry-proposals-p348-and-p349>

³ <http://www2.nationalgrid.com/UK/Industry-information/System-charges/Electricity-transmission/Approval-conditions/Condition-5/>

What data is being provided in this paper?

The new data provision obligations on Elexon as directed by P348 and P349 support the implementation of CMP264/265 in two ways by allowing us to calculate:

- • Indicative/Final TNUoS Tariffs (*through the provision of historical metered data*)
- • Actual TNUoS Charges (*through the provision of metered data from 1st April 2018*)

This paper seeks to provide a summary of the **historical gross metered Demand data** (1st August 2014 – 31st August 2017). This data is being used as part of our revised 'Monte Carlo' Demand forecasting model, which takes into account historic trends, weather data, and any general trends seen in documents such as the Future Energy Scenarios. Our revised Demand forecast will be used in our tariff publications⁴, specifically within the:

- 2018/19 tariffs in the October 2017 forecast.
- Five year forecast Tariffs in November (for years 2019/20-2022/23).
- Draft 2018/19 tariffs in December.
- Final 2018/19 tariffs in January 2018.

From April 2018, suppliers will need to forecast both their gross and Embedded Generation Export volumes. At the Demand reconciliation, these forecasts will be 'trued-up' against the actual volumes for Suppliers (SVA registered) and Embedded generators (CVA registered) to provide the correct TNUoS charge or credit for 2018/19.

Summary of Historical Metered Demand Data

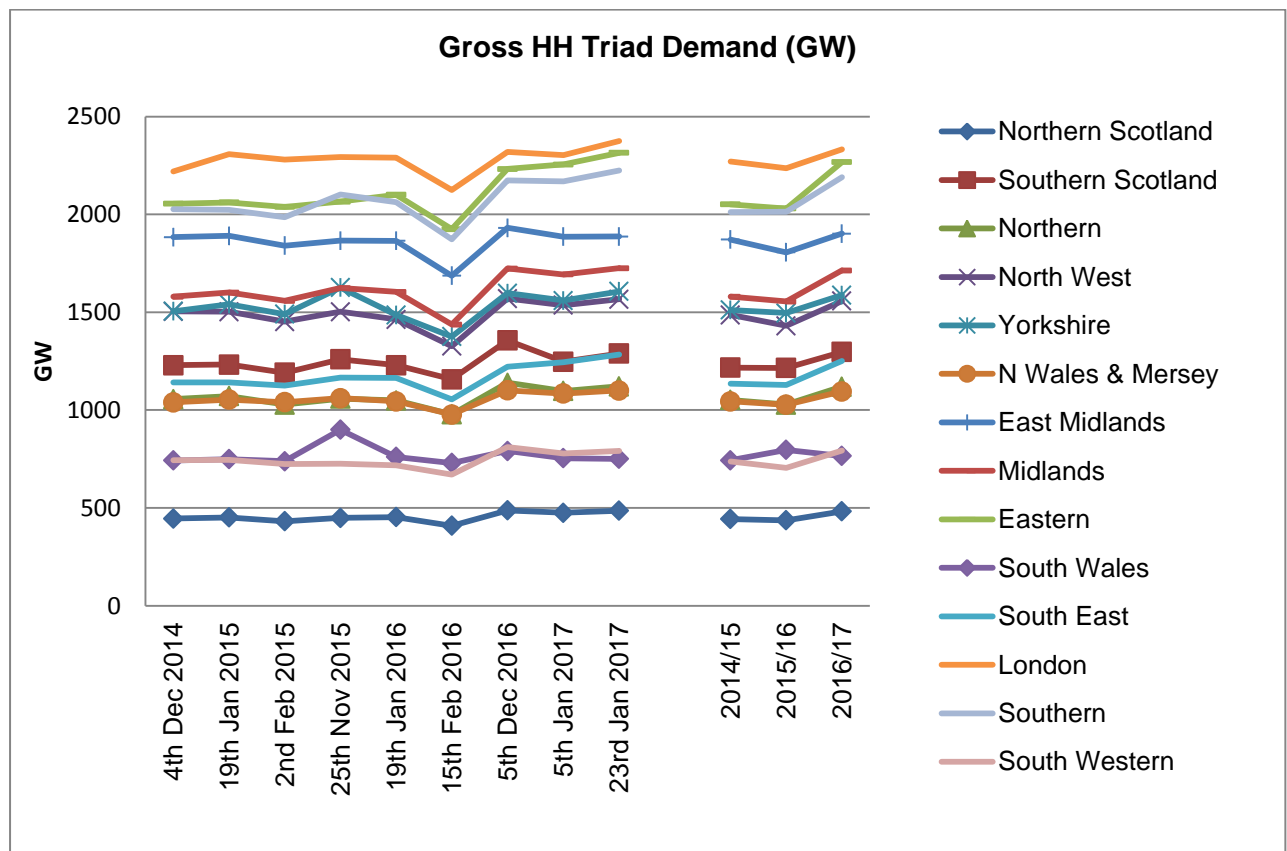
We have collated the historical metered data (2014/15 to 2016/17) from Elexon and aggregated this by Demand zone and the triad Demand date for both gross Half-Hourly Triad Demand and gross Embedded Export.

Note: This is only a summary of the historical gross metered Demand data as provided by Elexon.

⁴ <http://www2.nationalgrid.com/UK/Industry-information/System-charges/Electricity-transmission/Approval-conditions/Condition-5/>

Gross Half-Hourly Triad Demand (Annual Average)

Zone	Zone Name	2014/15 (GW)	2015/16 (GW)	2016/17 (GW)
1	Northern Scotland	0.443	0.437	0.483
2	Southern Scotland	1.217	1.215	1.297
3	Northern	1.052	1.029	1.120
4	North West	1.486	1.431	1.558
5	Yorkshire	1.512	1.496	1.588
6	N Wales & Mersey	1.045	1.027	1.095
7	East Midlands	1.872	1.806	1.902
8	Midlands	1.579	1.555	1.714
9	Eastern	2.051	2.030	2.267
10	South Wales	0.743	0.797	0.765
11	South East	1.136	1.128	1.250
12	London	2.269	2.236	2.332
13	Southern	2.012	2.013	2.189
14	South Western	0.738	0.705	0.793
Total		19.156	18.904	20.354

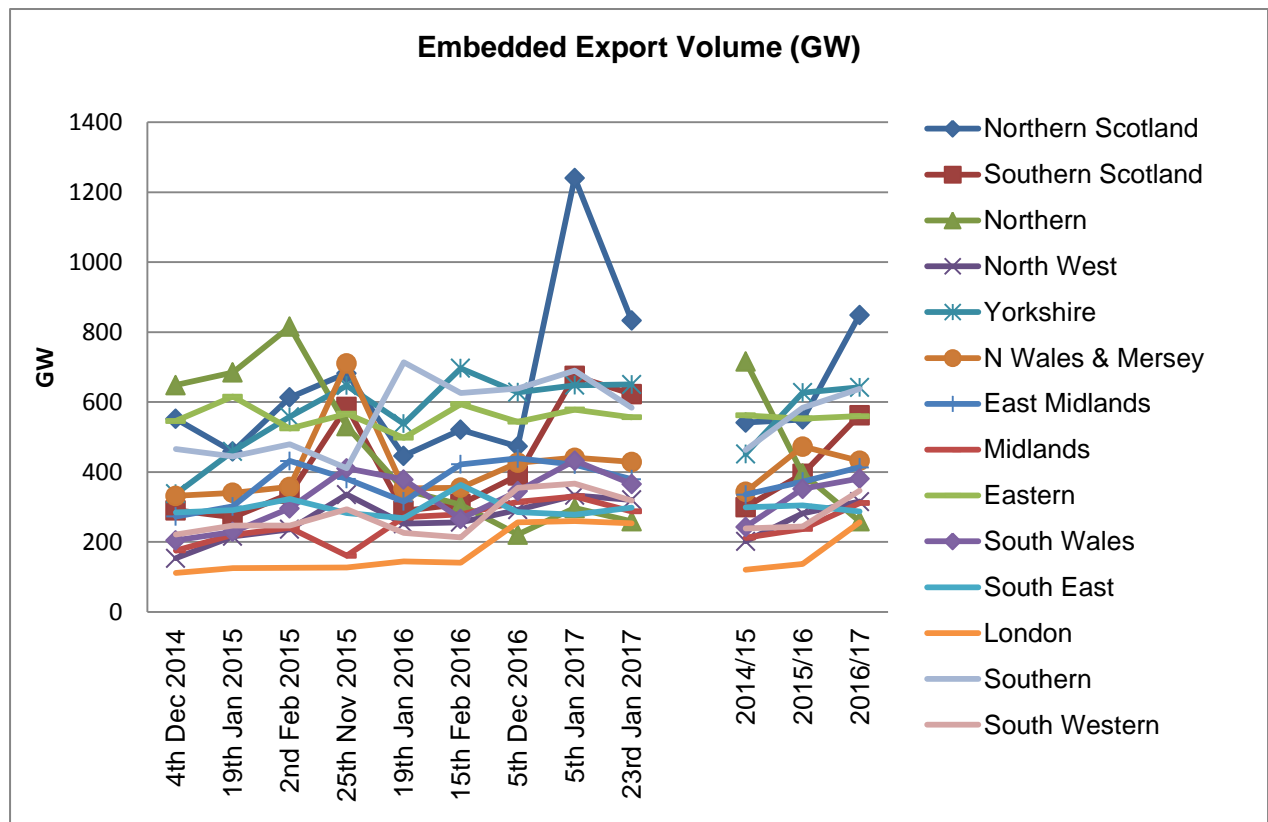


Gross Half-Hourly Triad Demand (Triad Dates)

Zone	Zone Name	4th Dec 2014 (GW)	19th Jan 2015 (GW)	2nd Feb 2015 (GW)	25th Nov 2015 (GW)	19th Jan 2016 (GW)	15th Feb 2016 (GW)	5th Dec 2016 (GW)	5th Jan 2017 (GW)	23rd Jan 2017 (GW)
1	Northern Scotland	0.446	0.452	0.432	0.449	0.453	0.409	0.487	0.475	0.486
2	Southern Scotland	1.229	1.232	1.191	1.260	1.230	1.157	1.356	1.248	1.289
3	Northern	1.056	1.071	1.028	1.058	1.050	0.978	1.140	1.097	1.121
4	North West	1.504	1.502	1.452	1.503	1.463	1.327	1.570	1.536	1.566
5	Yorkshire	1.505	1.541	1.490	1.626	1.487	1.375	1.597	1.560	1.607
6	N Wales & Mersey	1.040	1.054	1.040	1.061	1.045	0.977	1.101	1.085	1.100
7	East Midlands	1.884	1.891	1.841	1.866	1.865	1.687	1.931	1.886	1.887
8	Midlands	1.580	1.600	1.558	1.624	1.604	1.437	1.723	1.693	1.725
9	Eastern	2.055	2.061	2.038	2.065	2.100	1.925	2.232	2.255	2.315
10	South Wales	0.743	0.749	0.738	0.900	0.760	0.730	0.791	0.754	0.751
11	South East	1.141	1.141	1.125	1.165	1.164	1.054	1.222	1.245	1.284
12	London	2.220	2.308	2.280	2.293	2.291	2.124	2.319	2.303	2.374
13	Southern	2.026	2.023	1.986	2.101	2.063	1.874	2.174	2.169	2.225
14	South Western	0.744	0.746	0.724	0.727	0.718	0.671	0.811	0.778	0.791
Total		19.173	19.372	18.923	19.696	19.293	17.724	20.455	20.085	20.521

Gross Embedded Export Volume (Annual Average)

Zone	Zone Name	2014/15 (GW)	2015/16 (GW)	2016/17 (GW)
1	Northern Scotland	0.541	0.550	0.849
2	Southern Scotland	0.300	0.395	0.563
3	Northern	0.716	0.396	0.259
4	North West	0.202	0.281	0.315
5	Yorkshire	0.452	0.627	0.642
6	N Wales & Mersey	0.343	0.473	0.432
7	East Midlands	0.335	0.373	0.413
8	Midlands	0.213	0.237	0.311
9	Eastern	0.562	0.553	0.560
10	South Wales	0.243	0.352	0.381
11	South East	0.299	0.304	0.287
12	London	0.121	0.138	0.257
13	Southern	0.463	0.584	0.637
14	South Western	0.239	0.244	0.347
Total		5.030	5.506	6.253



Gross Embedded Export Volume (Triad Dates)

Zone	Zone Name	4th Dec 2014 (GW)	19th Jan 2015 (GW)	2nd Feb 2015 (GW)	25th Nov 2015 (GW)	19th Jan 2016 (GW)	15th Feb 2016 (GW)	5th Dec 2016 (GW)	5th Jan 2017 (GW)	23rd Jan 2017 (GW)
1	Northern Scotland	0.552	0.459	0.613	0.682	0.446	0.521	0.473	1.240	0.833
2	Southern Scotland	0.291	0.270	0.338	0.586	0.289	0.309	0.390	0.675	0.623
3	Northern	0.649	0.684	0.816	0.531	0.350	0.306	0.221	0.297	0.259
4	North West	0.154	0.216	0.236	0.335	0.252	0.257	0.292	0.333	0.321
5	Yorkshire	0.338	0.459	0.558	0.647	0.538	0.696	0.628	0.648	0.650
6	N Wales & Mersey	0.332	0.341	0.357	0.710	0.353	0.355	0.427	0.441	0.429
7	East Midlands	0.273	0.302	0.431	0.381	0.316	0.422	0.439	0.421	0.379
8	Midlands	0.176	0.221	0.241	0.161	0.271	0.279	0.315	0.331	0.288
9	Eastern	0.546	0.616	0.524	0.567	0.498	0.594	0.544	0.578	0.557
10	South Wales	0.205	0.229	0.296	0.411	0.378	0.266	0.345	0.433	0.366
11	South East	0.284	0.291	0.323	0.282	0.268	0.363	0.285	0.279	0.299
12	London	0.111	0.126	0.126	0.127	0.145	0.141	0.256	0.260	0.254
13	Southern	0.466	0.445	0.479	0.411	0.714	0.626	0.639	0.690	0.584
14	South Western	0.222	0.247	0.247	0.293	0.226	0.213	0.355	0.367	0.318
Total		4.598	4.906	5.587	6.125	5.045	5.348	5.609	6.992	6.159

Total System Net Peak Demand (Annual Average)

Year	2014/15 (GW)	2015/16 (GW)	2016/17 (GW)
Total System Peak	50.700	48.817	49.225

Total System Peak Demand (Dates)

Date	4th Dec 2014 (GW)	19th Jan 2015 (GW)	2nd Feb 2015 (GW)	25th Nov 2015 (GW)	19th Jan 2016 (GW)	15th Feb 2016 (GW)	5th Dec 2016 (GW)	5th Jan 2017 (GW)	23rd Jan 2017 (GW)
Total System Peak	49.725	51.410	50.965	47.662	50.744	48.046	50.157	48.514	49.004

Any questions?

For any TNUoS tariff forecasting and billing queries, please contact the team using the details below:

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TNUoS Tariff forecasts and other information are published on the National Grid website:

<http://www2.nationalgrid.com/UK/Industry-information/System-charges/Electricity-transmission/Transmission-network-use-of-system-charges/>