

ToR C – ESO Revenue Team Analysis

The analysis in the following slides was shared to facilitate CMP430 Workgroup discussion on Terms of Reference C 'Identify the volume of customers who will experience a change in charging arrangements from pre MHHS migration to post MHHS migration, and consider the impact on those customers' during Workgroup Meeting 6 on 15 April 2024.

ToR C – ESO Revenue Team Analysis (1)

Action 7 – Analysis on sites that may be subject to different charging arrangements

All analysis provided is based on a series of assumptions. We welcome Workgroup views on assumptions used and if the analysis is helpful for consideration of the proposed solution.

- a) Sites that are settled as Measurement Class C pre-MHHS migration that will have a Domestic Premises Indicator = True post-MHHS migration

Currently there is no data the Workgroup is aware of that could inform how many sites could be subject to this scenario. Sites are likely to be exceptions within Supplier systems.

Using assumption that a domestic premises in MC C has a load profile similar to a Profile Class 1 domestic consumer, the annual consumption expected for it to be a 100kW site would be 380000kWh which is 93 times more than the Ofgem typical large house.

Based on this profile we would expect:

A TRIAD demand of 78kW

And consumption between 4 and 7 pm to be 64402kWh

Applying these assumptions to the 24/25 tariffs gives the following charges and impact:

example locational charge for domestic measurement class C site						
Zone	Zone Name	HH Demand Tariff (£/kW)	NHH Demand Tariff (p/kWh)	Triad (£)	4-7 (£)	Change if moved to 4-7
1	Northern Scotland	-	-	-	-	-
2	Southern Scotland	-	-	-	-	-
3	Northern	-	-	-	-	-
4	North West	-	-	-	-	-
5	Yorkshire	-	-	-	-	-
6	N Wales & Mersey	-	-	-	-	-
7	East Midlands	-	-	-	-	-
8	Midlands	2.373139	0.312657	184	201	17
9	Eastern	0.825367	0.113949	64	73	9
10	South Wales	4.503509	0.533793	349	344	- 6
11	South East	3.859199	0.538522	299	347	47
12	London	5.732674	0.644217	445	415	- 30
13	Southern	6.869732	0.903934	533	582	49
14	South Western	8.198917	1.129620	636	727	92

ToR C – ESO Revenue Team Analysis (2)

Action 7 – Analysis on sites that may be subject to different charging arrangements

All analysis provided is based on a series of assumptions. We welcome Workgroup views on assumptions used and if the analysis is helpful for consideration of the proposed solution.

- b) Sites that are settled as Measurement Class A pre-MHHS migration that will have a Connection Type Indicator = L or H (meaning they are CT Metered) and a Domestic Premises Indicator = False post-MHHS migration

Some data has been shared with the workgroup from P432 and DCP414

Using assumption that most of the remaining sites in this category are Profile Class (PC) 3 and 4 (P272 - PC5-8 sites migrated to HH settlement)

Taking the average PC3 profile and 10 year average temperature regression data from Elexon website applied to 24/25 tariffs and DCP414 site count estimations we get the following impact (numbers are almost identical using PC4 data):

				example locational charge for NHH CT metered site in Profile Class 3				
Zone	Zone Name	HH Demand Tariff (£/kW)	NHH Demand Tariff (p/kWh)	Triad (£)	4-7 (£)	Change if moved to TRIAD	estimated number of sites	£ impact
1	Northern Scotland	-	-	-	-	-		
2	Southern Scotland	-	-	-	-	-		
3	Northern	-	-	-	-	-		
4	North West	-	-	-	-	-		
5	Yorkshire	-	-	-	-	-		
6	N Wales & Mersey	-	-	-	-	-		
7	East Midlands	-	-	-	-	-		
8	Midlands	2.373139	0.312657	13	16	- 3	5,000	- 13,012
9	Eastern	0.825367	0.113949	5	6	- 1	5,000	- 5,842
10	South Wales	4.503509	0.533793	25	27	- 2	5,000	- 9,639
11	South East	3.859199	0.538522	21	27	- 6	5,000	- 28,765
12	London	5.732674	0.644217	32	33	- 1	5,000	- 3,354
13	Southern	6.869732	0.903934	38	46	- 7	7,000	- 52,329
14	South Western	8.198917	1.129620	46	57	- 11	5,000	- 57,452
							Total	- 170,394

ToR C – ESO Revenue Team Analysis (3)

Action 7 – Analysis on sites that may be subject to different charging arrangements

Further to presenting the analysis on Slide 3, the CMP430 Workgroup requested that this was expanded for Profile Classes 3-8. Assumptions used here are the same as on Slide 3.

	PC3	PC4	PC5	PC6	PC7	PC8
assumed 4-7 kWh	5,057	7,131	30,163	30,576	36,965	44,460
assumed Triad kW	5.57	7.94	33.00	32.58	39.34	44.36

Zone	Zone Name	HH Demand Tariff (£/kW)	PC3 Triad (£)	PC4 Triad (£)	PC5 Triad (£)	PC6 Triad (£)	PC7 Triad (£)	PC8 Triad (£)
1	Northern Scotland	-	-	-	-	-	-	-
2	Southern Scotland	-	-	-	-	-	-	-
3	Northern	-	-	-	-	-	-	-
4	North West	-	-	-	-	-	-	-
5	Yorkshire	-	-	-	-	-	-	-
6	N Wales & Mersey	-	-	-	-	-	-	-
7	East Midlands	-	-	-	-	-	-	-
8	Midlands	2.373139	13.21	18.84	78.32	77.31	93.36	105.28
9	Eastern	0.825367	4.59	6.55	27.24	26.89	32.47	36.62
10	South Wales	4.503509	25.07	35.75	148.63	146.71	177.17	199.79
11	South East	3.859199	21.48	30.63	127.37	125.72	151.82	171.21
12	London	5.732674	31.91	45.51	189.20	186.75	225.53	254.32
13	Southern	6.869732	38.23	54.53	226.72	223.79	270.26	304.76
14	South Western	8.198917	45.63	65.08	270.59	267.09	322.55	363.73

Zone	Zone Name	NHH Demand Tariff (p/kWh)	PC3 4-7 (£)	PC4 4-7 (£)	PC5 4-7 (£)	PC6 4-7 (£)	PC7 4-7 (£)	PC8 4-7 (£)
1	Northern Scotland	-	-	-	-	-	-	-
2	Southern Scotland	-	-	-	-	-	-	-
3	Northern	-	-	-	-	-	-	-
4	North West	-	-	-	-	-	-	-
5	Yorkshire	-	-	-	-	-	-	-
6	N Wales & Mersey	-	-	-	-	-	-	-
7	East Midlands	-	-	-	-	-	-	-
8	Midlands	0.312657	15.81	22.30	94.31	95.60	115.57	139.01
9	Eastern	0.113949	5.76	8.13	34.37	34.84	42.12	50.66
10	South Wales	0.533793	26.99	38.07	161.01	163.21	197.32	237.32
11	South East	0.538522	27.23	38.40	162.44	164.66	199.07	239.43
12	London	0.644217	32.58	45.94	194.32	196.98	238.14	286.42
13	Southern	0.903934	45.71	64.46	272.66	276.39	334.14	401.89
14	South Western	1.129620	57.12	80.55	340.73	345.39	417.57	502.23

ToR C – ESO Revenue Team Analysis (4)

Action 7 – Analysis on sites that may be subject to different charging arrangements

Further to presenting the analysis on Slide 3, the CMP430 Workgroup requested that this was expanded for Profile Classes 3-8. Assumptions used here are the same as on Slide 3. The tables below show the difference in £ and % if a site was to move from 4-7pm charging to Triad arrangements.

Zone	Zone Name	PC3 Impact if moved to TRIAD (£)	PC4 Impact if moved to TRIAD (£)	PC5 Impact if moved to TRIAD (£)	PC6 Impact if moved to TRIAD (£)	PC7 Impact if moved to TRIAD (£)	PC8 Impact if moved to TRIAD (£)
1	Northern Scotland	-	-	-	-	-	-
2	Southern Scotland	-	-	-	-	-	-
3	Northern	-	-	-	-	-	-
4	North West	-	-	-	-	-	-
5	Yorkshire	-	-	-	-	-	-
6	N Wales & Mersey	-	-	-	-	-	-
7	East Midlands	-	-	-	-	-	-
8	Midlands	- 2.60	- 3.46	- 15.99	- 18.29	- 22.21	- 33.73
9	Eastern	- 1.17	- 1.57	- 7.13	- 7.95	- 9.65	- 14.05
10	South Wales	- 1.93	- 2.32	- 12.38	- 16.50	- 20.14	- 37.53
11	South East	- 5.75	- 7.77	- 35.07	- 38.94	- 47.24	- 68.22
12	London	- 0.67	- 0.43	- 5.12	- 10.23	- 12.61	- 32.10
13	Southern	- 7.48	- 9.93	- 45.93	- 52.60	- 63.88	- 97.12
14	South Western	- 11.49	- 15.47	- 70.14	- 78.30	- 95.01	- 138.49

Zone	Zone Name	PC3 Impact if moved to TRIAD (%)	PC4 Impact if moved to TRIAD (%)	PC5 Impact if moved to TRIAD (%)	PC6 Impact if moved to TRIAD (%)	PC7 Impact if moved to TRIAD (%)	PC8 Impact if moved to TRIAD (%)
1	Northern Scotland	-	-	-	-	-	-
2	Southern Scotland	-	-	-	-	-	-
3	Northern	-	-	-	-	-	-
4	North West	-	-	-	-	-	-
5	Yorkshire	-	-	-	-	-	-
6	N Wales & Mersey	-	-	-	-	-	-
7	East Midlands	-	-	-	-	-	-
8	Midlands	-16.5%	-15.5%	-17.0%	-19.1%	-19.2%	-24.3%
9	Eastern	-20.3%	-19.4%	-20.7%	-22.8%	-22.9%	-27.7%
10	South Wales	-7.1%	-6.1%	-7.7%	-10.1%	-10.2%	-15.8%
11	South East	-21.1%	-20.2%	-21.6%	-23.6%	-23.7%	-28.5%
12	London	-2.1%	-0.9%	-2.6%	-5.2%	-5.3%	-11.2%
13	Southern	-16.4%	-15.4%	-16.8%	-19.0%	-19.1%	-24.2%
14	South Western	-20.1%	-19.2%	-20.6%	-22.7%	-22.8%	-27.6%