

Public

CMP440

Workgroup 5 (07 May 2025)

Online Meeting via Teams

WELCOME

Record Meeting

Agenda

Topics to be discussed	Lead
Welcome	Chair
Workgroup Responsibilities	Chair
Objectives and Timeline	Chair
Actions Review	All
Proposer Update <ul style="list-style-type: none">• Defined Solution• Profiles	Proposer
Review Terms of Reference	All
Review Workgroup Consultation (including questions)	Chair
Any Other Business	Chair
Next Steps	Chair

Public Expectations of a Workgroup Member

Contribute to the discussion

Be respectful of each other's opinions

Language and Conduct to be consistent with the values of equality and diversity

Do not share commercially sensitive information

Be prepared – Review Papers and Reports ahead of meetings

Complete actions in a timely manner

Keep to agreed scope

Email communications to/cc'ing the .box email

Your Roles

Help refine/develop the solution(s)

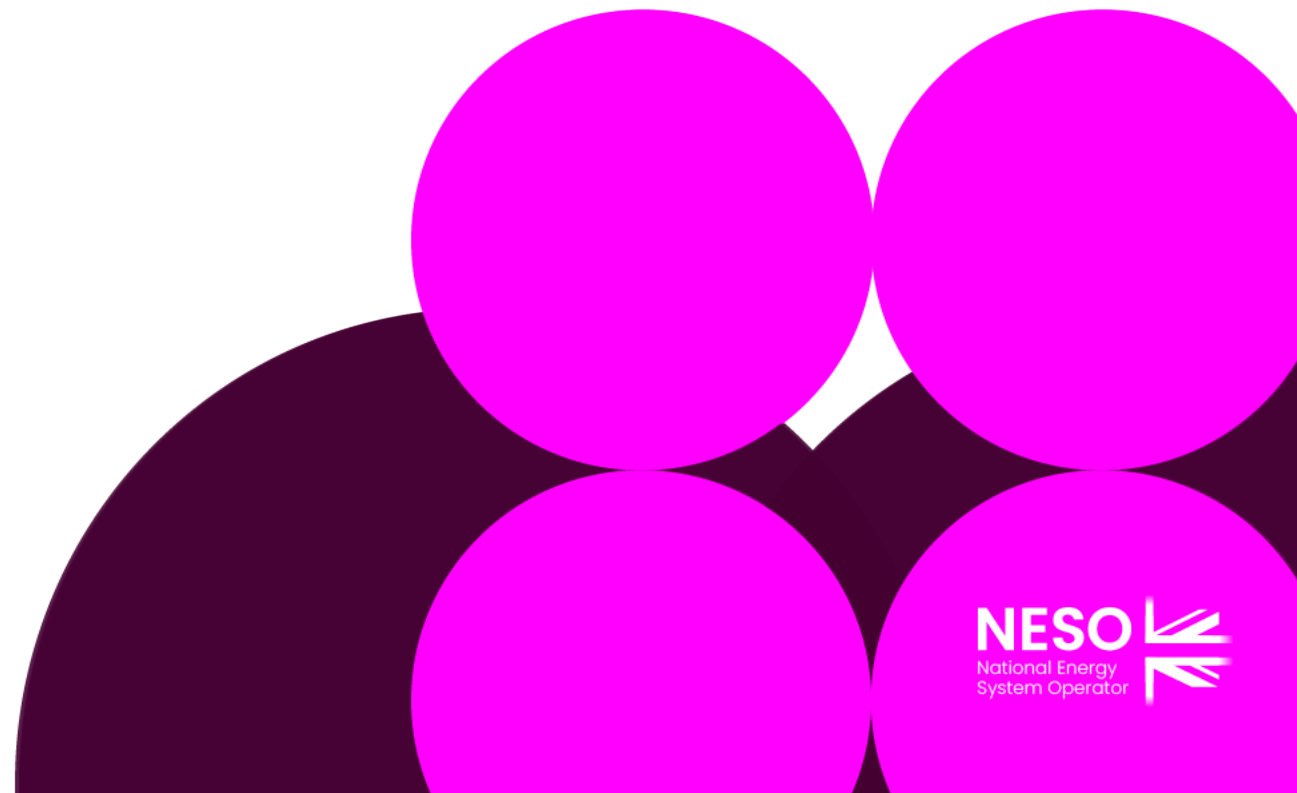
Bring forward alternatives as early as possible

Vote on whether or not to proceed with requests for Alternatives

Vote on whether the solution(s) better facilitate the Code Objectives

Timeline

Teri Puddefoot – NESO Code Administrator



Public

Timeline for CMP440

Next Workgroups:

- 06 June 2025
- 20 June 2025

Timeline update to be circulated to the Workgroup and sent to Panel for approval in May.

Actions Review

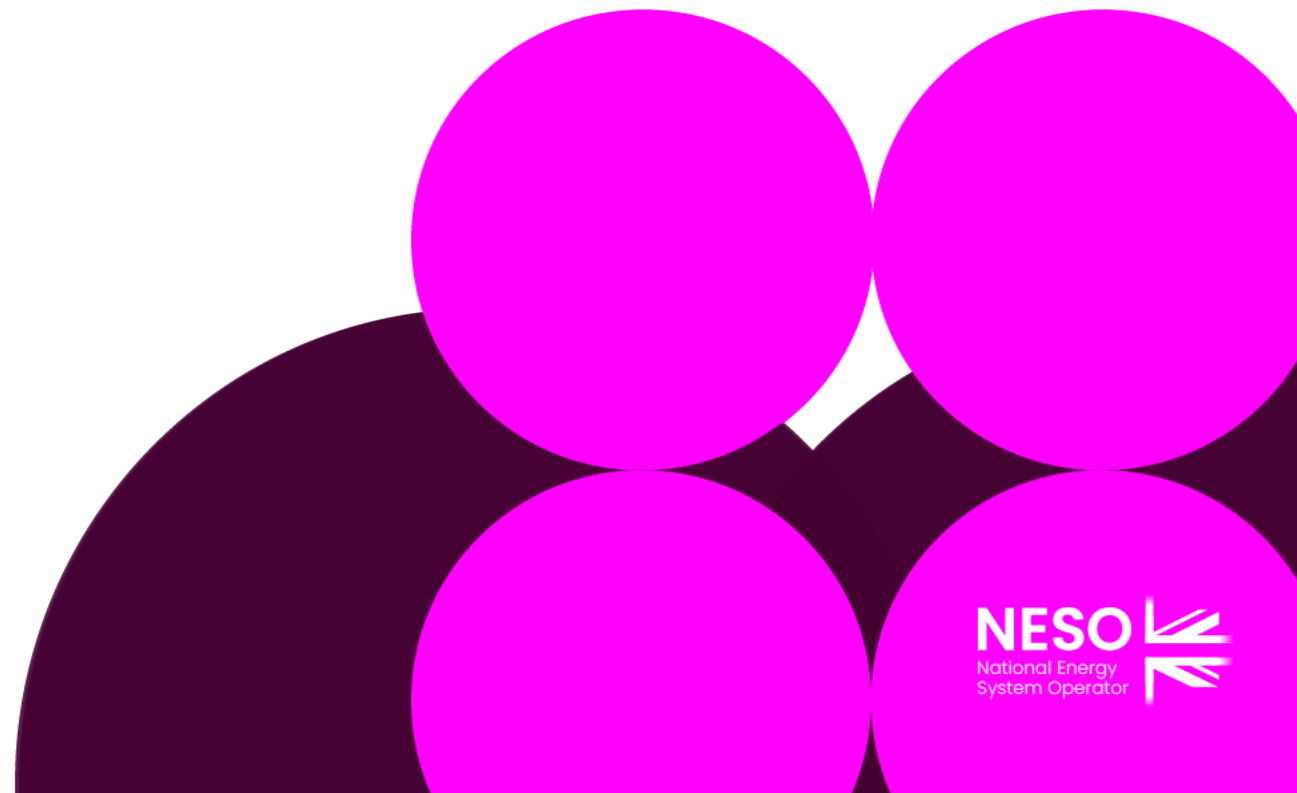
Teri Puddefoot – NESO Code
Administrator

Actions

Action number	Workgroup Raised	Owner	Action	Comment	Due by	Status
4	WG1	LJ	Provide worked numbers as per slide 29 (WG1)	This will be included in later reports. Still waiting on data from revenue team	WG3	Ongoing
5	WG1	LJ and RP	Look at party profiles ahead of next WG	The Proposer and NESO Representative to look at examining different profile shapes of possible customer types.	WG4	Ongoing
6	WG2	MC	To gain data from the Revenue team for actual NHH for 4-7pm and NHH for all periods	NESO have provided this information to the Workgroup	WG4	Open
8	WG3	LJ	To work through equation for understanding of example for 20 million by the 4 to 7 demands, splitting up into 4 to 7 for peak and year-round using different volume.		WG4	Open
9	WG3	DH	Provide confirmation of the charging year the data was analysed from		WG4	Open
10	WG3	TP/LJ	Schedule time for proposer and self to review document		WG4	Open
11	WG4	LJ	The Proposer took an action to add percentage changes into the impact tables showing the impact on bills for better clarity. WG5 Open		WG5	Open
12	WG4	LJ/ All	The Proposer took an action to clearly define the original proposal for discussion at the next meeting. Workgroup members to discuss whether any alternatives should then be proposed ahead of the Workgroup Consultation. WG5 Open		WG5	Open

Proposer's Update

Lauren Jauss – RWE



CMP440

Removal of TNUoS Demand Floor

Workgroup 5

7 May 2025

The Original Proposal has been Updated Based on Workgroup Feedback

- The proposer has amended the Original solution so that:
- Negative tariffs in p/kWh are arrived at by scaling the corresponding £/kW Demand Locational Tariff by the forecast total GSP metered consumption over the charging period divided by total GSP peak consumption (i.e. using the weighted average profile, instead of assuming a baseload profile for all); and
- Both Peak and Year Round tariffs would be levied 4-7pm all year for both half hourly and non-half hourly customers in negative charging zones. This makes the tariff tables much less complex
- *We may also need to consider the average customer profile across all zones because zones 1&14 have unusual tariff ratios, probably due to one or two customers, or perhaps due to a high proportion of non-final demand included?*

Deriving Proposed Tariffs - Charging Periods

	Half Hourly Customers		Non-Half Hourly Customers	
	Peak	Year Round	Peak	Year Round
Negative	4-7pm all year	All year	4-7pm all year	All year
Positive	Triad	Triad	4-7pm all year	4-7pm all year



	Half Hourly Customers		Non-Half Hourly Customers	
	Peak	Year Round	Peak	Year Round
Negative	4-7pm all year	4-7pm all year	4-7pm all year	4-7pm all year
Positive	Triad	Triad	4-7pm all year	4-7pm all year



Demand Zone		Previous Proposed Charging Periods				New Proposed Charging Periods			
		HH		NHH		HH		NHH	
		Peak	Year Round	Peak	Year Round	Peak	Year Round	Peak	Year Round
1	Northern Scotland	4-7pm All Year	All Year	4-7pm All Year	All Year	4-7pm All Year	4-7pm All Year	4-7pm All Year	4-7pm All Year
2	Southern Scotland	4-7pm All Year	All Year	4-7pm All Year	All Year	4-7pm All Year	4-7pm All Year	4-7pm All Year	4-7pm All Year
3	Northern	4-7pm All Year	All Year	4-7pm All Year	All Year	4-7pm All Year	4-7pm All Year	4-7pm All Year	4-7pm All Year
4	North West	Triad	All Year	4-7pm All Year	All Year	Triad	4-7pm All Year	4-7pm All Year	4-7pm All Year
5	Yorkshire	4-7pm All Year	All Year	4-7pm All Year	All Year	4-7pm All Year	4-7pm All Year	4-7pm All Year	4-7pm All Year
6	N Wales & Mersey	4-7pm All Year	All Year	4-7pm All Year	All Year	4-7pm All Year	4-7pm All Year	4-7pm All Year	4-7pm All Year
7	East Midlands	4-7pm All Year	Triad	4-7pm All Year	4-7pm All Year	4-7pm All Year	Triad	4-7pm All Year	4-7pm All Year
8	Midlands	4-7pm All Year	Triad	4-7pm All Year	4-7pm All Year	4-7pm All Year	Triad	4-7pm All Year	4-7pm All Year
9	Eastern	Triad	Triad	4-7pm All Year	4-7pm All Year	Triad	Triad	4-7pm All Year	4-7pm All Year
10	South Wales	4-7pm All Year	Triad	4-7pm All Year	4-7pm All Year	4-7pm All Year	Triad	4-7pm All Year	4-7pm All Year
11	South East	Triad	Triad	4-7pm All Year	4-7pm All Year	Triad	Triad	4-7pm All Year	4-7pm All Year
12	London	Triad	Triad	4-7pm All Year	4-7pm All Year	Triad	Triad	4-7pm All Year	4-7pm All Year
13	Southern	Triad	Triad	4-7pm All Year	4-7pm All Year	Triad	Triad	4-7pm All Year	4-7pm All Year
14	South Western	Triad	Triad	4-7pm All Year	4-7pm All Year	Triad	Triad	4-7pm All Year	4-7pm All Year

Actual Ratios of Triad to 4-7pm and All Year Demand Average MW Offtake

NHH

TNUoS zone	All Periods MWh	4-7 TWh	Triad GW
1	3.649707811	0.641709346	0.843510667
2	7.481655113	1.415734212	1.7963552
3	5.791210992	1.040332912	1.302576
4	9.473351855	1.73384239	2.210037533
5	8.703166998	1.606339177	2.046046267
6	5.976652873	1.090793355	1.3800104
7	11.29058354	1.998843852	2.569761467
8	10.39455562	1.786669689	2.297339467
9	16.22442542	2.826720455	3.6674116
10	4.3926459	0.738774365	0.916838933
11	10.02481657	1.720017125	2.1922708
12	9.770090852	1.63402976	2.013433867
13	13.89535341	2.323356585	3.029071
14	7.050235237	1.161332855	1.553097733

HH

TNUoS zone	All Periods MWh	4-7 TWh	Triad GW
1	1.314510934	0.10315363	0.439269333
2	6.328689694	0.682604655	1.1593488
3	6.259809218	0.78483296	1.0602706
4	10.02854649	1.191809537	1.483569133
5	9.725152724	1.124539656	1.504837
6	6.653577797	0.801981938	1.026535533
7	10.94163092	1.30074849	1.854752733
8	9.918982856	1.236545364	1.5920102
9	11.93448088	1.48013592	2.126892467
10	4.79843528	0.589619166	0.745014733
11	7.234320089	0.926142931	1.173964
12	14.41328617	1.929715587	2.0758864
13	13.96073196	1.795711872	2.190178133
14	3.863305873	0.50899555	0.7973254

TNUoS zone	HH Zonal		NHH Zonal	
	Triad (MW) vs 4-7pm Demand (MW)	Triad (MW) vs All periods Demand (MW)	Triad (MW) vs 4-7pm Demand (MW)	Triad (MW) vs All periods Demand (MW)
1	4.663	2.927	1.439	2.025
2	1.860	1.605	1.389	2.103
3	1.479	1.484	1.371	1.970
4	1.363	1.296	1.396	2.044
5	1.465	1.355	1.395	2.059
6	1.402	1.352	1.385	2.023
7	1.561	1.485	1.408	1.994
8	1.410	1.406	1.408	1.936
9	1.573	1.561	1.421	1.980
10	1.384	1.360	1.359	1.828
11	1.388	1.422	1.396	1.916
12	1.178	1.262	1.349	1.805
13	1.888	1.274	1.428	1.910
14	1.715	1.808	1.464	1.930

Transmission connected demand sites

	All Periods MWh	4-7 MWh	Triad MW
A	2219.85	269.34	0.07
B	57148.04	7022.59	5.19
C	85318.10	10595.44	10.72
D	155085.02	27229.41	39.34
E	53258.27	6577.54	18.04

User	Triad (MW) vs 4-7pm Demand (MW)	Triad (MW) vs All periods Demand (MW)
A	0.271	0.263
B	0.809	0.795
C	1.108	1.101
D	1.582	2.222
E	3.004	2.968

Comparison of New Tariffs

Using Triad to actual average MW offtake rates for each of all HH and NHH customers

		Current Tariff Methodology	Current Tariff Methodology WITH NO FLOOR	CMP440 proposal							
		Demand Tariffs	Demand Tariffs	Final demand Tariffs					non final demand		
		HH Triad	NHH 4-7	HH Triad	NHH 4-7	HH Triad	HH 4-7	HH all periods	NHH 4-7	NHH all periods	HH Triad
Zone	Zone Name	£/kW	p/kWh	£/kW	p/kWh	£/kW	p/kWh	p/kWh	p/kWh	p/kWh	£/kW
1	Northern Scotland	-	-	- 34.67	- 4.56	-	- 14.76	-	- 4.56	-	-
2	Southern Scotland	-	-	- 24.94	- 3.16	-	- 4.24	-	- 3.16	-	-
3	Northern	-	-	- 12.65	- 1.58	-	- 1.71	-	- 1.58	-	-
4	North West	-	-	- 6.58	- 0.84	-	- 0.82	-	- 0.84	-	-
5	Yorkshire	-	-	- 5.05	- 0.64	-	- 0.68	-	- 0.64	-	-
6	N Wales & Mersey	-	-	- 3.31	- 0.42	-	- 0.42	-	- 0.42	-	-
7	East Midlands	-	-	- 0.31	- 0.04	-	- 0.04	-	- 0.04	-	-
8	Midlands	2.99	0.38	2.99	0.38	2.99	-	-	0.38	-	2.99
9	Eastern	1.11	0.14	1.11	0.14	1.11	-	-	0.14	-	1.11
10	South Wales	6.89	0.85	6.89	0.85	6.89	-	-	0.85	-	6.89
11	South East	5.57	0.71	5.57	0.71	5.57	-	-	0.71	-	5.57
12	London	7.41	0.91	7.41	0.91	7.41	-	-	0.91	-	7.41
13	Southern	7.57	0.99	7.57	0.99	7.57	-	-	0.99	-	7.57
14	South Western	10.12	1.35	10.12	1.35	10.12	-	-	1.35	-	10.12

Comparison of Bill Impact in £ Using Triad to actual average MW offtake rates for each of all HH and NHH customers

Impact on Domestic household bill £

current domestic annual bill £	current methodology (same charging periods) no floor	CMP440 domestic annual bill £	impact on domestic annual bill £	impact on domestic annual bill £
49.29	28.43	24.84	- 20.86	- 24.45
49.29	36.31	32.67	- 12.98	- 16.62
49.29	44.35	42.99	- 4.94	- 6.30
49.29	47.70	46.95	- 1.59	- 2.34
49.29	48.81	48.27	- 0.48	- 1.02
49.29	49.85	49.71	0.56	0.42
49.29	51.73	51.73	2.44	2.44
51.24	53.89	53.89	2.65	2.65
50.06	52.71	52.71	2.65	2.65
53.37	56.01	56.01	2.65	2.65
53.20	55.85	55.85	2.65	2.65
53.40	56.04	56.04	2.65	2.65
54.27	56.92	56.92	2.65	2.65
56.24	58.89	58.89	2.65	2.65

Impact on 30MW EHV baseload commercial user

current large demand annual bill £	current tariff methodology (same charging periods) no floor	CMP440 large demand annual bill £	impact on large demand annual bill £
1,417,199	453,254.79	229,643	- 1,187,556
1,417,199	745,002.55	439,599	- 977,600
1,417,199	1,113,680.97	1,024,563	- 392,636
1,417,199	1,295,885.22	1,246,505	- 170,694
1,417,199	1,341,818.80	1,307,710	- 109,489
1,417,199	1,394,032.01	1,364,441	- 52,758
1,417,199	1,484,007.30	1,470,612	53,413
1,506,927	1,582,995.09	1,568,961	62,034
1,450,521	1,526,588.69	1,526,589	76,068
1,623,750	1,699,817.63	1,668,552	44,802
1,584,246	1,660,313.40	1,660,313	76,068
1,639,359	1,715,426.71	1,715,427	76,068
1,644,304	1,720,371.56	1,720,372	76,068
1,720,890	1,796,957.45	1,787,209	66,320

Comparison of Tariffs

Using Baseload offtake assumption for each of all HH and NHH customers

Current Tariff Methodology		Current Tariff Methodology WITH NO FLOOR		CMP440 proposal					
Demand Tariffs		Demand Tariffs		Final demand Tariffs			non final demand		
HH Triad Tariff (£/kW)	NHH 4-7 p/kWh	HH Triad Tariff (£/kW)	NHH 4-7 p/kWh	HH Triad Tariff (£/kW)	HH 4-7 p/kWh	HH all periods p/kWh	NHH 4-7 p/kWh	NHH all periods p/kWh	HH Triad Tariff (£/kW)
-	-	- 34.67	- 4.66	-	- 0.08	- 0.39	- 0.08	- 0.39	-
-	-	- 24.94	- 3.09	-	- 0.12	- 0.27	- 0.12	- 0.27	-
-	-	- 12.65	- 1.50	-	- 0.15	- 0.13	- 0.15	- 0.13	-
-	-	- 6.58	- 0.84	-	- 0.06	- 0.07	- 0.06	- 0.07	-
-	-	- 5.05	- 0.62	-	- 0.07	- 0.05	- 0.07	- 0.05	-
-	-	- 3.31	- 0.41	-	- 0.17	- 0.02	- 0.17	- 0.02	-
-	-	- 0.31	- 0.04	0.76	- 0.10	-	- 0.03	-	-
2.99	0.27	2.99	0.39	4.12	- 0.10	-	0.27	-	2.99
1.11	0.15	1.11	0.15	1.11	-	-	0.15	-	1.11
6.89	0.63	6.89	0.81	10.55	- 0.33	-	0.63	-	6.89
5.57	0.77	5.57	0.77	5.57	-	-	0.77	-	5.57
7.41	0.81	7.41	0.81	7.41	-	-	0.81	-	7.41
7.57	0.99	7.57	0.99	7.57	-	-	0.99	-	7.57
10.12	0.92	10.12	1.38	10.79	- 0.06	-	0.92	-	10.12

Comparison of Bill Impact – Domestic in £

Using Baseload offtake assumption for each of all HH and NHH customers


		Domestic Annual Bill £										
		Current			Current tariff methodology but without floor				CMP440			
Zone	Zone Name	Locational Charge	TDR	Total	Locational Charge	TDR	Total	Total Change	Locational Charge	TDR	Total	Total Change
1	Northern Scotland	-	49.29	49.29	- 23.01	51.86	28.85	- 20.44	- 23.01	51.86	28.85	- 20.44
2	Southern Scotland	-	49.29	49.29	- 15.98	51.86	35.88	- 13.41	- 15.98	51.86	35.88	- 15.98
3	Northern	-	49.29	49.29	- 8.00	51.86	43.86	- 5.43	- 8.00	51.86	43.86	- 8.00
4	North West	-	49.29	49.29	- 4.23	51.86	47.62	- 1.67	- 4.23	51.86	47.62	- 4.23
5	Yorkshire	-	49.29	49.29	- 3.25	51.86	48.61	- 0.68	- 3.25	51.86	48.61	- 3.25
6	N Wales & Mersey	-	49.29	49.29	- 2.11	51.86	49.74	0.45	- 2.11	51.86	49.74	- 2.11
7	East Midlands	-	49.29	49.29	- 0.20	51.86	51.66	2.36	- 0.20	51.86	51.66	- 0.20
8	Midlands	1.94	49.29	51.23	1.94	51.86	53.80	2.57	1.94	51.86	53.80	-
9	Eastern	0.73	49.29	50.02	0.73	51.86	52.58	2.57	0.73	51.86	52.58	-
10	South Wales	4.31	49.29	53.60	4.31	51.86	56.17	2.57	4.31	51.86	56.17	-
11	South East	3.58	49.29	52.87	3.58	51.86	55.44	2.57	3.58	51.86	55.44	-
12	London	4.61	49.29	53.90	4.61	51.86	56.46	2.57	4.61	51.86	56.46	-
13	Southern	4.98	49.29	54.27	4.98	51.86	56.84	2.57	4.98	51.86	56.84	-
14	South Western	6.84	49.29	56.13	6.84	51.86	58.69	2.57	6.84	51.86	58.69	-

Comparison of Bill Impact – 30MW EHV Continuous Commercial in £ Using Baseload offtake assumption for each of all HH and NHH customers

30MW EHV continuous commercial user

Zone	Zone Name	Current			Current tariff methodology but without floor				CMP440			
		Locational Charge	TDR	Total	Locational Charge	TDR	Total	Total Change	Locational Charge	TDR	Total	Total Change
1	Northern Scotland	-	1,417,199	1,417,199	- 1,040,012	1,490,955	450,943	- 966,255	- 4,849,519	1,490,955	- 3,358,564	- 4,775,763
2	Southern Scotland	-	1,417,199	1,417,199	- 748,264	1,490,955	742,691	- 674,508	- 1,391,598	1,490,955	99,357	- 1,317,842
3	Northern	-	1,417,199	1,417,199	- 379,585	1,490,955	1,111,369	- 305,829	- 561,517	1,490,955	929,438	- 487,761
4	North West	-	1,417,199	1,417,199	- 197,381	1,490,955	1,293,574	- 123,625	- 269,042	1,490,955	1,221,913	- 195,286
5	Yorkshire	-	1,417,199	1,417,199	- 151,448	1,490,955	1,339,507	- 77,691	- 221,917	1,490,955	1,269,038	- 148,161
6	N Wales & Mersey	-	1,417,199	1,417,199	- 99,234	1,490,955	1,391,721	- 25,478	- 139,087	1,490,955	1,351,868	- 65,331
7	East Midlands	-	1,417,199	1,417,199	- 9,259	1,490,955	1,481,696	64,497	- 14,457	1,490,955	1,476,498	59,299
8	Midlands	89,729	1,417,199	1,506,927	89,729	1,490,955	1,580,684	73,756	89,729	1,490,955	1,580,684	73,756
9	Eastern	33,322	1,417,199	1,450,521	33,322	1,490,955	1,524,277	73,756	33,322	1,490,955	1,524,277	73,756
10	South Wales	206,551	1,417,199	1,623,750	206,551	1,490,955	1,697,506	73,756	206,551	1,490,955	1,697,506	73,756
11	South East	167,047	1,417,199	1,584,246	167,047	1,490,955	1,658,002	73,756	167,047	1,490,955	1,658,002	73,756
12	London	222,160	1,417,199	1,639,359	222,160	1,490,955	1,713,115	73,756	222,160	1,490,955	1,713,115	73,756
13	Southern	227,105	1,417,199	1,644,304	227,105	1,490,955	1,718,060	73,756	227,105	1,490,955	1,718,060	73,756
14	South Western	303,691	1,417,199	1,720,890	303,691	1,490,955	1,794,646	73,756	303,691	1,490,955	1,794,646	73,756

For Reference
Workgroup 4: 21 March 2025
(with updated, actual, data)

A decorative graphic in the bottom right corner consisting of a series of curved, parallel lines that create a sense of depth and movement, resembling a stylized wave or a fan of lines.

Deriving Proposed Tariffs

Charging Periods

	Half Hourly Customers		Non-Half Hourly Customers	
	Peak	Year Round	Peak	Year Round
Negative	4-7pm all year	All year	4-7pm all year	All year
Positive	Triad	Triad	4-7pm all year	4-7pm all year



Demand Zone		2025/26 TNUoS Transport Model Output			Charging Period			
		Peak (£/kW)	Year Round (£/kW)	Total (£/kW)	HH		NHH	
					Peak	Year Round	Peak	Year Round
1	Northern Scotland	-1.44	-32.11	-33.54	4-7pm All Year	All Year	4-7pm All Year	All Year
2	Southern Scotland	-1.70	-22.95	-24.65	4-7pm All Year	All Year	4-7pm All Year	All Year
3	Northern	-3.19	-10.21	-13.40	4-7pm All Year	All Year	4-7pm All Year	All Year
4	North West	0.06	-5.29	-5.23	Triad	All Year	4-7pm All Year	All Year
5	Yorkshire	-1.95	-2.94	-4.90	4-7pm All Year	All Year	4-7pm All Year	All Year
6	N Wales & Mersey	-1.13	-1.74	-2.87	4-7pm All Year	All Year	4-7pm All Year	All Year
7	East Midlands	-1.74	1.30	-0.44	4-7pm All Year	Triad	4-7pm All Year	4-7pm All Year
8	Midlands	-1.07	2.97	1.91	4-7pm All Year	Triad	4-7pm All Year	4-7pm All Year
9	Eastern	0.32	1.03	1.35	Triad	Triad	4-7pm All Year	4-7pm All Year
10	South Wales	-5.53	8.77	3.25	4-7pm All Year	Triad	4-7pm All Year	4-7pm All Year
11	South East	3.57	1.53	5.10	Triad	Triad	4-7pm All Year	4-7pm All Year
12	London	4.51	2.42	6.94	Triad	Triad	4-7pm All Year	4-7pm All Year
13	Southern	1.76	5.89	7.65	Triad	Triad	4-7pm All Year	4-7pm All Year
14	South Western	1.08	10.57	11.65	Triad	Triad	4-7pm All Year	4-7pm All Year

done

Comparison of Tariffs

Using Triad to actual average MW offtake rates for each of all HH and NHH customers

		Current Tariff Methodology	Current Tariff Methodology WITH NO FLOOR	CMP440 proposal							
		Demand Tariffs	Demand Tariffs	Final demand Tariffs						non final demand	
		HH Triad £/kW	NHH 4-7 p/kWh	HH Triad £/kW	NHH 4-7 p/kWh	HH Triad £/kW	HH 4-7 p/kWh	HH all periods p/kWh	NHH 4-7 p/kWh	NHH all periods p/kWh	HH Triad £/kW
1	Northern Scotland	-	-	- 34.67	- 4.56	-	- 0.35	- 1.13	- 0.11	- 0.78	-
2	Southern Scotland	-	-	- 24.94	- 3.16	-	- 0.22	- 0.43	- 0.17	- 0.57	-
3	Northern	-	-	- 12.65	- 1.58	-	- 0.22	- 0.19	- 0.21	- 0.25	-
4	North West	-	-	- 6.58	- 0.84	-	- 0.09	- 0.09	- 0.09	- 0.14	-
5	Yorkshire	-	-	- 5.05	- 0.64	-	- 0.11	- 0.07	- 0.10	- 0.10	-
6	N Wales & Mersey	-	-	- 3.31	- 0.42	-	- 0.24	- 0.02	- 0.24	- 0.03	-
7	East Midlands	-	-	- 0.31	- 0.04	0.76	- 0.15	-	- 0.04	-	-
8	Midlands	2.99	0.38	2.99	0.38	4.12	- 0.14	-	0.38	-	2.99
9	Eastern	1.11	0.14	1.11	0.14	1.11	-	-	0.14	-	1.11
10	South Wales	6.89	0.85	6.89	0.85	10.55	- 0.46	-	0.85	-	6.89
11	South East	5.57	0.71	5.57	0.71	5.57	-	-	0.71	-	5.57
12	London	7.41	0.91	7.41	0.91	7.41	-	-	0.91	-	7.41
13	Southern	7.57	0.99	7.57	0.99	7.57	-	-	0.99	-	7.57
14	South Western	10.12	1.35	10.12	1.35	10.79	- 0.10	-	1.35	-	10.12

Comparison of Bill Impact – Domestic in £

Using Triad to actual average MW offtake rates for each of all HH and NHH customers

Domestic Annual Bill £

Zone	Zone Name	Current			Current tariff methodology but without floor				CMP440			
		Locational Charge	TDR	Total	Locational Charge	TDR	Total	Total Change	Locational Charge	TDR	Total	Total Change
1	Northern Scotland	-	49.29	49.29	- 23.01	51.86	28.85	- 20.44	- 11.85	51.86	40.00	- 9.29
2	Southern Scotland	-	49.29	49.29	- 15.98	51.86	35.88	- 13.41	- 8.62	51.86	43.24	- 8.62
3	Northern	-	49.29	49.29	- 8.00	51.86	43.86	- 5.43	- 4.49	51.86	47.37	- 4.49
4	North West	-	49.29	49.29	- 4.23	51.86	47.62	- 1.67	- 2.32	51.86	49.54	- 2.32
5	Yorkshire	-	49.29	49.29	- 3.25	51.86	48.61	- 0.68	- 1.81	51.86	50.05	- 1.81
6	N Wales & Mersey	-	49.29	49.29	- 2.11	51.86	49.74	0.45	- 1.35	51.86	50.50	- 1.35
7	East Midlands	-	49.29	49.29	- 0.20	51.86	51.66	2.36	- 0.14	51.86	51.71	- 0.14
8	Midlands	1.38	49.29	50.67	1.94	51.86	53.80	3.13	1.38	51.86	53.24	-
9	Eastern	0.73	49.29	50.02	0.73	51.86	52.58	2.57	0.73	51.86	52.58	-
10	South Wales	3.17	49.29	52.47	4.31	51.86	56.17	3.70	3.17	51.86	55.03	-
11	South East	3.58	49.29	52.87	3.58	51.86	55.44	2.57	3.58	51.86	55.44	-
12	London	4.61	49.29	53.90	4.61	51.86	56.46	2.57	4.61	51.86	56.46	-
13	Southern	4.98	49.29	54.27	4.98	51.86	56.84	2.57	4.98	51.86	56.84	-
14	South Western	4.67	49.29	53.96	6.84	51.86	58.69	4.73	4.67	51.86	56.52	-

Comparison of Bill Impact – 30MW EHV Continuous Commercial in £ Using Triad to actual average MW offtake rates for each of all HH and NHH customers

30MW EHV continuous commercial user

Zone	Zone Name	Current			Current tariff methodology but without floor				CMP440			
		Locational Charge	TDR	Total	Locational Charge	TDR	Total	Total Change	Locational Charge	TDR	Total	Total Change
1	Northern Scotland	-	1,417,199	1,417,199	- 1,040,012	1,490,955	450,943	- 966,255	- 1,040,012	1,490,955	450,943	- 966,255
2	Southern Scotland	-	1,417,199	1,417,199	- 748,264	1,490,955	742,691	- 674,508	- 748,264	1,490,955	742,691	- 674,508
3	Northern	-	1,417,199	1,417,199	- 379,585	1,490,955	1,111,369	- 305,829	- 379,585	1,490,955	1,111,369	- 305,829
4	North West	-	1,417,199	1,417,199	- 197,381	1,490,955	1,293,574	- 123,625	- 197,381	1,490,955	1,293,574	- 123,625
5	Yorkshire	-	1,417,199	1,417,199	- 151,448	1,490,955	1,339,507	- 77,691	- 151,448	1,490,955	1,339,507	- 77,691
6	N Wales & Mersey	-	1,417,199	1,417,199	- 99,234	1,490,955	1,391,721	- 25,478	- 99,234	1,490,955	1,391,721	- 25,478
7	East Midlands	-	1,417,199	1,417,199	- 9,259	1,490,955	1,481,696	64,497	- 9,259	1,490,955	1,481,696	64,497
8	Midlands	89,729	1,417,199	1,506,927	89,729	1,490,955	1,580,684	73,756	89,729	1,490,955	1,580,684	73,756
9	Eastern	33,322	1,417,199	1,450,521	33,322	1,490,955	1,524,277	73,756	33,322	1,490,955	1,524,277	73,756
10	South Wales	206,551	1,417,199	1,623,750	206,551	1,490,955	1,697,506	73,756	206,551	1,490,955	1,697,506	73,756
11	South East	167,047	1,417,199	1,584,246	167,047	1,490,955	1,658,002	73,756	167,047	1,490,955	1,658,002	73,756
12	London	222,160	1,417,199	1,639,359	222,160	1,490,955	1,713,115	73,756	222,160	1,490,955	1,713,115	73,756
13	Southern	227,105	1,417,199	1,644,304	227,105	1,490,955	1,718,060	73,756	227,105	1,490,955	1,718,060	73,756
14	South Western	303,691	1,417,199	1,720,890	303,691	1,490,955	1,794,646	73,756	303,691	1,490,955	1,794,646	73,756

Deriving Proposed Tariffs

Baseload Profile for All?

- Currently , the p/kWh positive tariff for NHH consumers is multiplied by ~1.4 to account for an assumed lower rate of demand during the 4-7pm-All-Year measurement period compared with Triad demand.
- Baseload consumers would be over incentivised to locate in negative zones if their assumed rate of demand at peak is up to double that of their measured rate of demand, so the Original proposes a baseload profile is assumed when deriving tariffs

Demand Zone		Charging Period				Forecast Ratio				Original Proposed Ratio for deriving p/kWh charge			
		HH		NHH		HH		NHH		HH		NHH	
		Peak	Year Round	Peak	Year Round	Peak	Year Round	Peak	Year Round	Peak	Year Round	Peak	Year Round
1	Northern Scotland	4-7pm All Year	All Year	4-7pm All Year	All Year	4.66	2.93	1.44	2.02	1.00	1.00	1.00	1.00
2	Southern Scotland	4-7pm All Year	All Year	4-7pm All Year	All Year	1.86	1.60	1.39	2.10	1.00	1.00	1.00	1.00
3	Northern	4-7pm All Year	All Year	4-7pm All Year	All Year	1.48	1.48	1.37	1.97	1.00	1.00	1.00	1.00
4	North West	Triad	All Year	4-7pm All Year	All Year	Triad	1.30	1.40	2.04	Triad	1.00	1.00	1.00
5	Yorkshire	4-7pm All Year	All Year	4-7pm All Year	All Year	1.47	1.36	1.39	2.06	1.00	1.00	1.00	1.00
6	N Wales & Mersey	4-7pm All Year	All Year	4-7pm All Year	All Year	1.40	1.35	1.39	2.02	1.00	1.00	1.00	1.00
7	East Midlands	4-7pm All Year	Triad	4-7pm All Year	4-7pm All Year	1.56	Triad	1.41	1.41	1.00	Triad	1.41	1.41
8	Midlands	4-7pm All Year	Triad	4-7pm All Year	4-7pm All Year	1.41	Triad	1.41	1.41	1.00	Triad	1.41	1.41
9	Eastern	Triad	Triad	4-7pm All Year	4-7pm All Year	Triad	Triad	1.42	1.42	Triad	Triad	1.42	1.42
10	South Wales	4-7pm All Year	Triad	4-7pm All Year	4-7pm All Year	1.38	Triad	1.36	1.36	1.00	Triad	1.36	1.36
11	South East	Triad	Triad	4-7pm All Year	4-7pm All Year	Triad	Triad	1.40	1.40	Triad	Triad	1.40	1.40
12	London	Triad	Triad	4-7pm All Year	4-7pm All Year	Triad	Triad	1.35	1.35	Triad	Triad	1.35	1.35
13	Southern	Triad	Triad	4-7pm All Year	4-7pm All Year	Triad	Triad	1.43	1.43	Triad	Triad	1.43	1.43
14	South Western	Triad	Triad	4-7pm All Year	4-7pm All Year	Triad	Triad	1.46	1.46	Triad	Triad	1.46	1.46

Comparison of Tariffs

Using Baseload offtake assumption for each of all HH and NHH customers

Current Tariff Methodology		Current Tariff Methodology WITH NO FLOOR		CMP440 proposal						
Demand Tariffs		Demand Tariffs		Final demand Tariffs					non final demand	
HH Triad	NHH 4-7	HH Triad	NHH 4-7	HH Triad	HH 4-7	HH all periods	NHH 4-7	NHH all periods	HH Triad	
£/kW	p/kWh	£/kW	p/kWh	£/kW	p/kWh	p/kWh	p/kWh	p/kWh	£/kW	
-	-	- 34.67	- 4.56	-	- 0.08	- 0.39	- 0.08	- 0.39	-	
-	-	- 24.94	- 3.16	-	- 0.12	- 0.27	- 0.12	- 0.27	-	
-	-	- 12.65	- 1.58	-	- 0.15	- 0.13	- 0.15	- 0.13	-	
-	-	- 6.58	- 0.84	-	- 0.06	- 0.07	- 0.06	- 0.07	-	
-	-	- 5.05	- 0.64	-	- 0.07	- 0.05	- 0.07	- 0.05	-	
-	-	- 3.31	- 0.42	-	- 0.17	- 0.02	- 0.17	- 0.02	-	
-	-	- 0.31	- 0.04	0.76	- 0.10	-	- 0.03	-	-	
2.99	0.27	2.99	0.38	4.12	- 0.10	-	0.27	-	2.99	
1.11	0.14	1.11	0.14	1.11	-	-	0.14	-	1.11	
6.89	0.63	6.89	0.85	10.55	- 0.33	-	0.63	-	6.89	
5.57	0.71	5.57	0.71	5.57	-	-	0.71	-	5.57	
7.41	0.91	7.41	0.91	7.41	-	-	0.91	-	7.41	
7.57	0.99	7.57	0.99	7.57	-	-	0.99	-	7.57	
10.12	0.92	10.12	1.35	10.79	- 0.06	-	0.92	-	10.12	

Comparison of Bill Impact – Domestic in £

Using Baseload offtake assumption for each of all HH and NHH customers

Domestic Annual Bill £

Zone	Zone Name
1	Northern Scotland
2	Southern Scotland
3	Northern
4	North West
5	Yorkshire
6	N Wales & Mersey
7	East Midlands
8	Midlands
9	Eastern
10	South Wales
11	South East
12	London
13	Southern
14	South Western

Current			Current tariff methodology but without floor				CMP440			
Locational Charge	TDR	Total	Locational Charge	TDR	Total	Total Change	Locational Charge	TDR	Total	Total Change
-	49.29	49.29	- 23.01	51.86	28.85	- 20.44	- 11.85	51.86	40.00	- 9.29
-	49.29	49.29	- 15.98	51.86	35.88	- 13.41	- 8.62	51.86	43.24	- 8.62
-	49.29	49.29	- 8.00	51.86	43.86	- 5.43	- 4.49	51.86	47.37	- 4.49
-	49.29	49.29	- 4.23	51.86	47.62	- 1.67	- 2.32	51.86	49.54	- 2.32
-	49.29	49.29	- 3.25	51.86	48.61	- 0.68	- 1.81	51.86	50.05	- 1.81
-	49.29	49.29	- 2.11	51.86	49.74	0.45	- 1.35	51.86	50.50	- 1.35
-	49.29	49.29	- 0.20	51.86	51.66	2.36	- 0.14	51.86	51.71	- 0.14
1.38	49.29	50.67	1.94	51.86	53.80	3.13	1.38	51.86	53.24	-
0.73	49.29	50.02	0.73	51.86	52.58	2.57	0.73	51.86	52.58	-
3.17	49.29	52.47	4.31	51.86	56.17	3.70	3.17	51.86	55.03	-
3.58	49.29	52.87	3.58	51.86	55.44	2.57	3.58	51.86	55.44	-
4.61	49.29	53.90	4.61	51.86	56.46	2.57	4.61	51.86	56.46	-
4.98	49.29	54.27	4.98	51.86	56.84	2.57	4.98	51.86	56.84	-
4.67	49.29	53.96	6.84	51.86	58.69	4.73	4.67	51.86	56.52	-

Comparison of Bill Impact – 30MW EHV Continuous Commercial in £ Using Baseload offtake assumption for each of all HH and NHH customers

30MW EHV continuous commercial user

Zone	Zone Name
1	Northern Scotland
2	Southern Scotland
3	Northern
4	North West
5	Yorkshire
6	N Wales & Mersey
7	East Midlands
8	Midlands
9	Eastern
10	South Wales
11	South East
12	London
13	Southern
14	South Western

Current			Current tariff methodology but without floor				CMP440			
Locational Charge	TDR	Total	Locational Charge	TDR	Total	Total Change	Locational Charge	TDR	Total	Total Change
-	1,417,199	1,417,199	- 1,040,012	1,490,955	450,943	- 966,255	- 1,040,012	1,490,955	450,943	- 966,255
-	1,417,199	1,417,199	- 748,264	1,490,955	742,691	- 674,508	- 748,264	1,490,955	742,691	- 674,508
-	1,417,199	1,417,199	- 379,585	1,490,955	1,111,369	- 305,829	- 379,585	1,490,955	1,111,369	- 305,829
-	1,417,199	1,417,199	- 197,381	1,490,955	1,293,574	- 123,625	- 197,381	1,490,955	1,293,574	- 123,625
-	1,417,199	1,417,199	- 151,448	1,490,955	1,339,507	- 77,691	- 151,448	1,490,955	1,339,507	- 77,691
-	1,417,199	1,417,199	- 99,234	1,490,955	1,391,721	- 25,478	- 99,234	1,490,955	1,391,721	- 25,478
-	1,417,199	1,417,199	- 9,259	1,490,955	1,481,696	64,497	- 9,259	1,490,955	1,481,696	64,497
89,729	1,417,199	1,506,927	89,729	1,490,955	1,580,684	73,756	89,729	1,490,955	1,580,684	73,756
33,322	1,417,199	1,450,521	33,322	1,490,955	1,524,277	73,756	33,322	1,490,955	1,524,277	73,756
206,551	1,417,199	1,623,750	206,551	1,490,955	1,697,506	73,756	206,551	1,490,955	1,697,506	73,756
167,047	1,417,199	1,584,246	167,047	1,490,955	1,658,002	73,756	167,047	1,490,955	1,658,002	73,756
222,160	1,417,199	1,639,359	222,160	1,490,955	1,713,115	73,756	222,160	1,490,955	1,713,115	73,756
227,105	1,417,199	1,644,304	227,105	1,490,955	1,718,060	73,756	227,105	1,490,955	1,718,060	73,756
303,691	1,417,199	1,720,890	303,691	1,490,955	1,794,646	73,756	303,691	1,490,955	1,794,646	73,756

Mapping of Existing Customer Classifications with Market-Wide Half Hourly Settlement

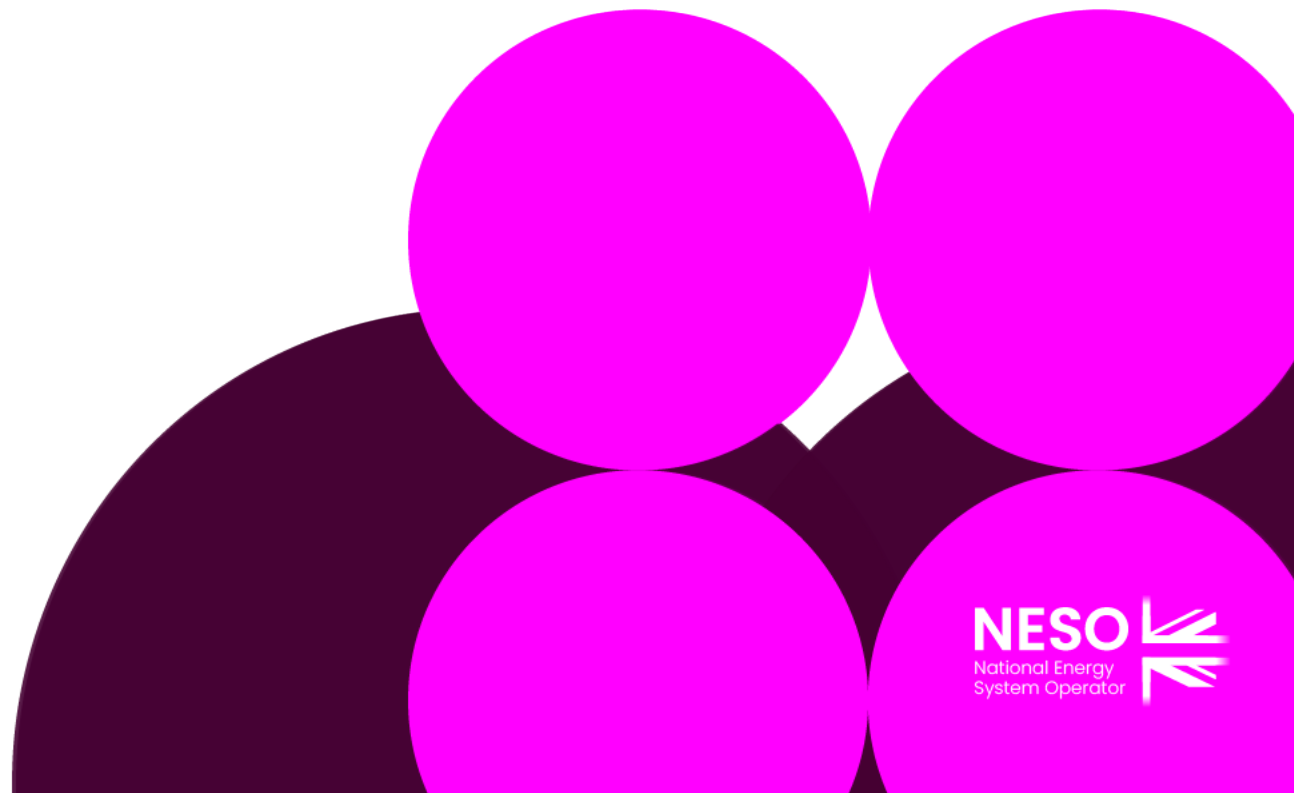
Domestic Premises Indicator	Connection Type Indicator	Current Measurement Class (non-MHHS)	Charging Arrangement Pre- MHHS Transition	Charging Arrangements post MHHS Transition
Domestic (T)	W (Whole Current);	A	Chargeable Energy Capacity	Chargeable Energy Capacity
	L (LV with Current Transformer);	F	Chargeable Energy Capacity	Chargeable Energy Capacity
	H (HV with Current Transformer) or	C	Chargeable Demand Locational Capacity	Chargeable Energy Capacity
	E (EHV with Current Transformer)			
	U (Unmetered)	B *	Chargeable Energy Capacity	Chargeable Demand Locational Capacity
Non-Domestic (F)	W (Whole Current)	G	Chargeable Energy Capacity	Chargeable Energy Capacity
		A	Chargeable Energy Capacity	Chargeable Energy Capacity
	L (LV with Current Transformer)	C	Chargeable Demand Locational Capacity	Chargeable Demand Locational Capacity
		E	Chargeable Demand Locational Capacity	Chargeable Demand Locational Capacity
		A	Chargeable Energy Capacity	Chargeable Demand Locational Capacity
	H (HV with Current Transformer)	C	Chargeable Demand Locational Capacity	Chargeable Demand Locational Capacity
		E	Chargeable Demand Locational Capacity	Chargeable Demand Locational Capacity
		A	Chargeable Energy Capacity	Chargeable Demand Locational Capacity
	E (EHV with Current Transformer)	C	Chargeable Demand Locational Capacity	Chargeable Demand Locational Capacity
		E	Chargeable Demand Locational Capacity	Chargeable Demand Locational Capacity
	U (Unmetered)	D	Chargeable Demand Locational Capacity	Chargeable Demand Locational Capacity

Chargeable Demand Locational Capacity = Triad
Chargeable Energy Capacity = 4pm – 7pm

Yellow highlight shows change in TNUoS charging as a result of CMP430

Terms of Reference

Teri Puddefoot – NESO Code
Administrator

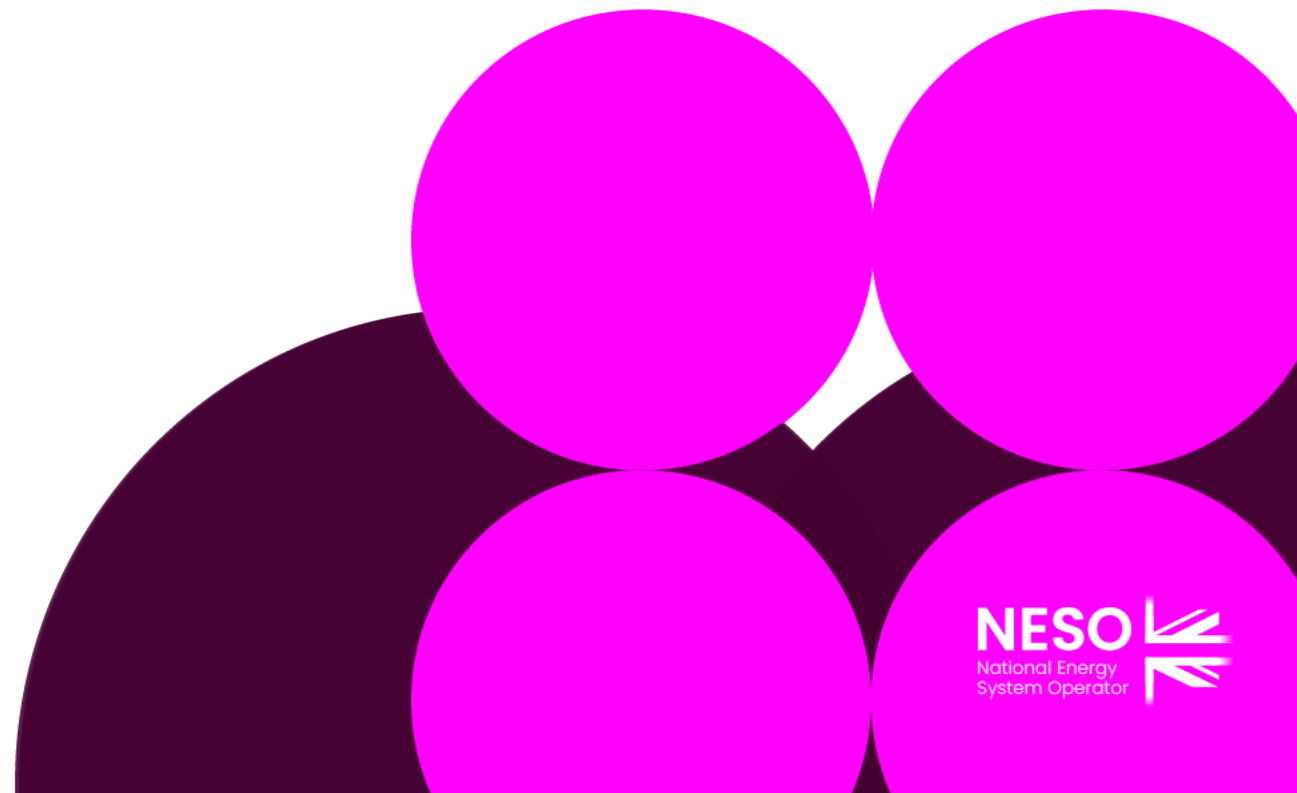


Terms of Reference

Workgroup Term of Reference	Location in Workgroup Report (to be completed at Workgroup Report stage)
a) Consider EBR implications	
b) Consider whether the peak charge should apply to winter or all year?	
c) Consider whether the Year-Round charge should apply all day or just 4-7pm?	
d) Consider whether positive and negative demand charges should be charged differently i.e. keep the existing methodology for positive demand charges?	
e) Consider what the methodology should be for conversion from £/kW to p/kWh? (Inclusive of any practical impact on the design choices)	

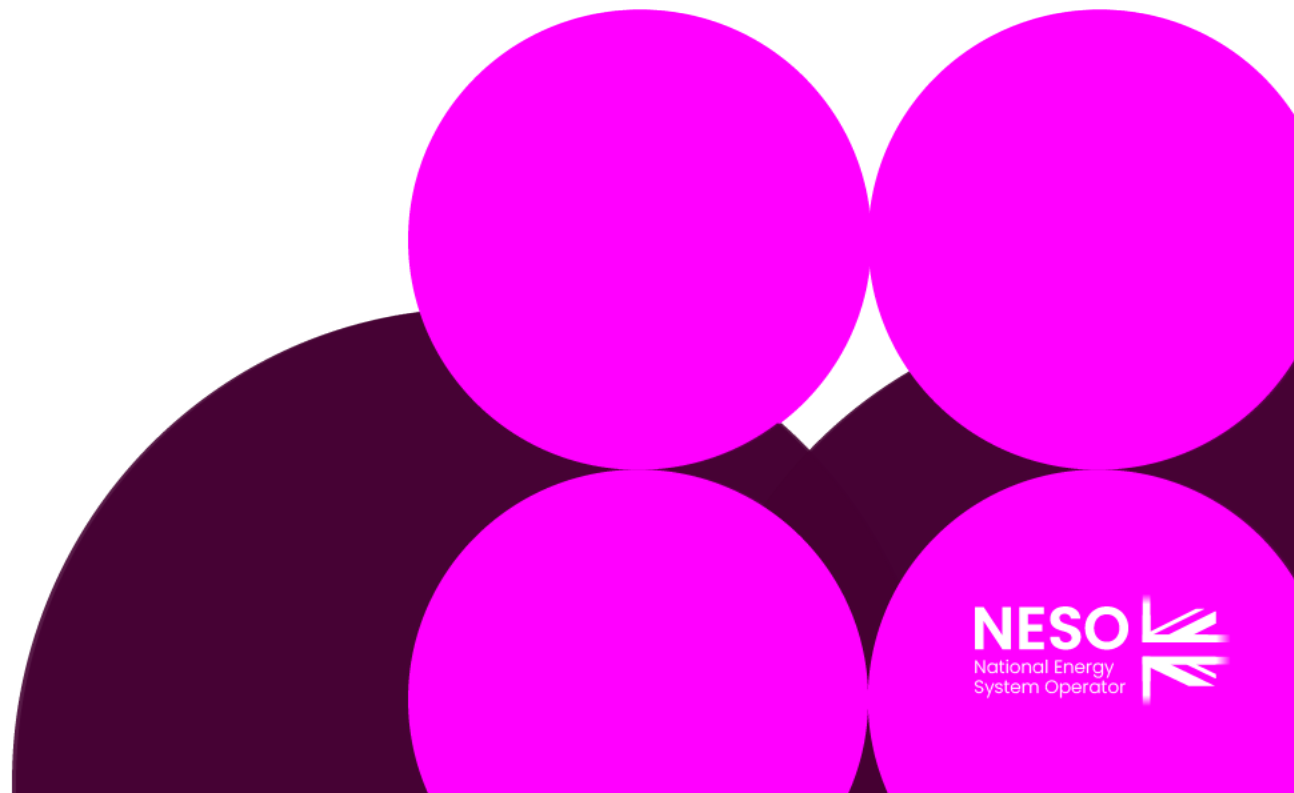
Review Workgroup Consultation

Teri Puddefoot – NESO Code
Administrator



Next Steps

Teri Puddefoot – NESO Code Administrator



Any Other Business

Teri Puddefoot – NESO Code
Administrator

