Draft Forecast of TNUoS Tariffs for 2023/24 Webinar

NGESO Revenue Team

December 2022

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Agenda

Questions?
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Event code: #TNUOS

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TNUoS Tariff Forecasting & Setting Team

Nick Everitt

Forecasting, setting and billing TNUoS to recover around £3.98bn of revenue per year from generators and demand

Sarah Chleboun

- Overall tariff setting
- Offshore local tariffs
- Local substation
- Generation
- ALFs

Jo Zhou

- Long term strategy development
- TGR
- Onshore Local Circuits

Ishtyaq Hussain

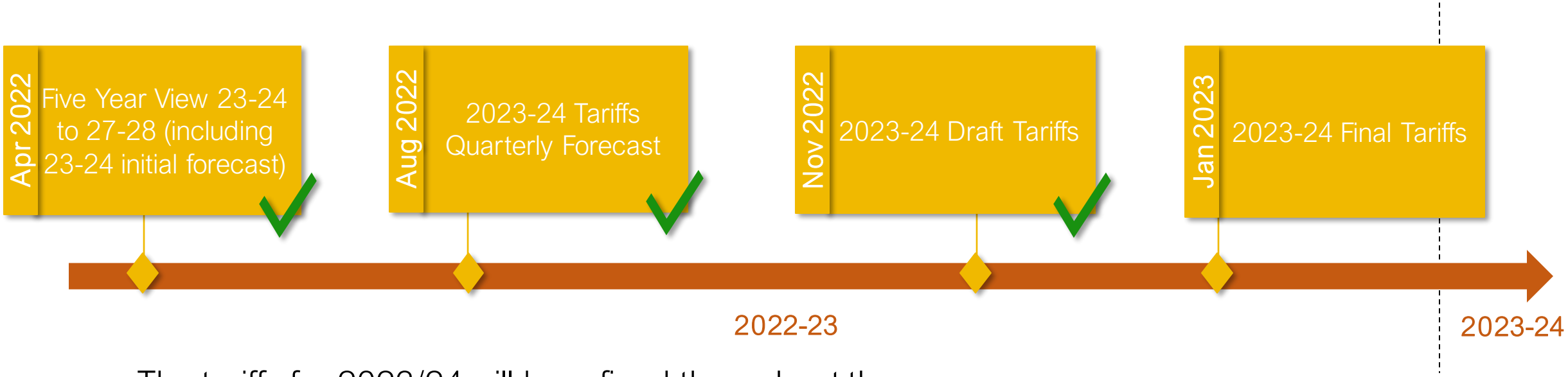
- Revenue
- Demand
- EET
- TDR

Al-Marwah Az-zahra

- New Starter!

Tariff Timetable

NGESO has a licence and CUSC obligation to publish quarterly TNUoS forecasts and a 5 year review annually, to enable market participants to make efficient operational and investment decisions.



- The tariffs for 2023/24 will be refined throughout the year.
- Final Tariffs for 2023/24 will be published by 31st January 2023 and will take effect from 1st April 2023.

TNUoS Forecast Changes & Uncertainties

This forecast incorporates CMP343 and CMP391 which have been approved for implementation. No other changes have been implemented in these tariffs.

Regulatory Uncertainties

- Commission Regulation (EU) No. 838/2010 (which is retained EU law) sets out that the annual average transmission charges paid by producers in Great Britain must fall within €0-2.50/MWh.
- There have been a number of code modifications to update the CUSC in relation to this regulation and specifically there have been legal challenges resulting from Ofgem's decision to approve CMP317/327.
- The judgement of the Court of Appeal in the appeals brought by Ofgem and SSE in relation to this matter has been published. Ofgem have also issued an open letter. We are working with Ofgem to understand the next steps. We will communicate with industry as soon as practicable.

CUSC Modifications

2023/24 tariffs will include the implementation of:

- CMP391: Definition of 'Charges for Physical Assets Required for Connection'
- CMP343: 'Transmission Demand Residual bandings and allocation'

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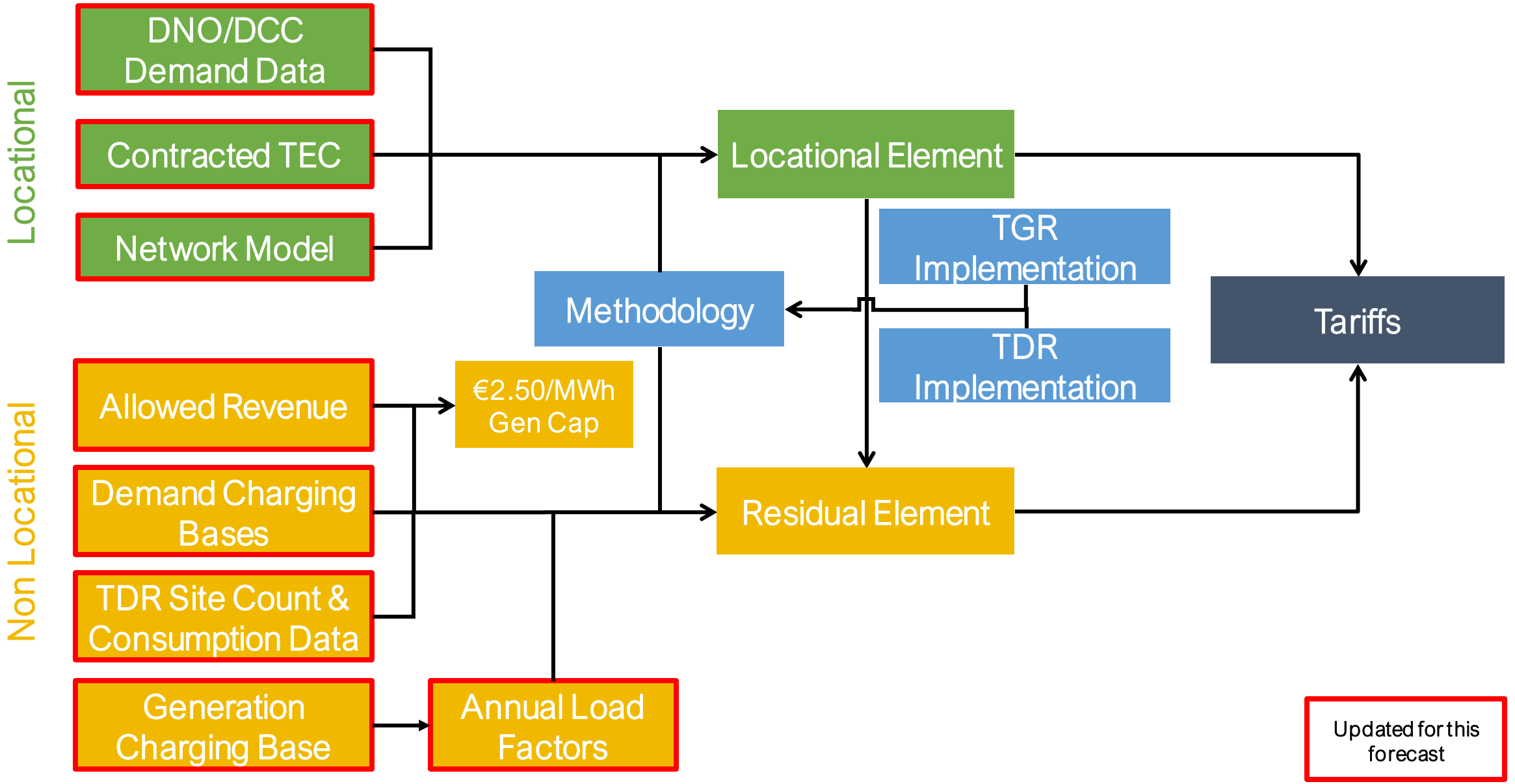
Key inputs and findings

Sarah Chleboun

Key Inputs for TNUoS Tariffs



Input changes in this tariff publication

		April 2022	August 2022	Draft Tariffs November 2022	Final Tariffs January 2023
Methodology		**Open to industry governance**			
Locational	DNO/DCC Demand Data	Initial update using previous year's data source		Week 24 updated	
	Contracted TEC	Latest TEC Register	Latest TEC Register	TEC Register Frozen at 31 October	
	Network Model	Initial update using previous year's data source (except local circuit changes which are updated quarterly)		Latest version based on ETYS	
	Inflation	Forecast	Forecast	Forecast	Actual
Residual/Adjustment	OFTO Revenue (part of allowed revenue)	Forecast	Forecast	Forecast	NGESO best view
	Allowed Revenue (non OFTO changes)	Initial update using previous year's data source	Update financial parameters	Latest TO forecasts	From TOs
	Demand Charging Bases	Initial update using previous year's data source	Revised forecast	Revised forecast	Revised by exception
	Generation Charging Base	NGESO best view	NGESO best view	NGESO best view	NGESO final best view
	Generation ALFs	Previous year's data source		Draft ALFs published	Final ALFs published
	Generation Revenue (G/D split)	Forecast	Forecast	Forecast	Generation revenue £m fixed
	TDR Site Count and Consumption Data	Initial update using previous year's data source		Prior year out-turn data provided	

- Green highlighting indicates that these parameters are fixed from that forecast onwards.

Key findings

Total Revenue

- The total TNUoS revenue is forecast at **£3.98bn** for FY23/24, a decrease of **£97.2m** from the August forecast. This is due to revisions of the TO Maximum Allowed Revenue (+£60.3m), revisions to OFTO Allowed revenue, forecast OFTO Asset Transfer Dates and Interconnector Contributions (-£135m), and updates to pass-through items (-£22.5m).

Generation

- Generation revenue is forecast to be **£930m** for FY23/24, a **£10.9m** increase since the August forecast.
- The generation charging base for FY23/24 has been forecast as **75.96GW** based on our best view, a decrease of 1.22GW since the August forecast.
- The average generation tariff is £12.24/kW, an increase of £0.33/kW due to the increase in generation revenue and decrease in charging base.

Demand

- Demand revenue is forecast to be **£3.05bn** for FY23/24, a **£108m** decrease since the August forecast. This has been driven by the reduction of total revenue to be recovered.

Consumer Bill

- The impact on the end consumer is forecast to be **£39.68** for FY23/24, a decrease of **£0.41** from the August forecast. This is due to the decrease in the demand revenue driven by an overall decrease in revenue.

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Revenue

Ishtyaq Hussain

TO Revenue

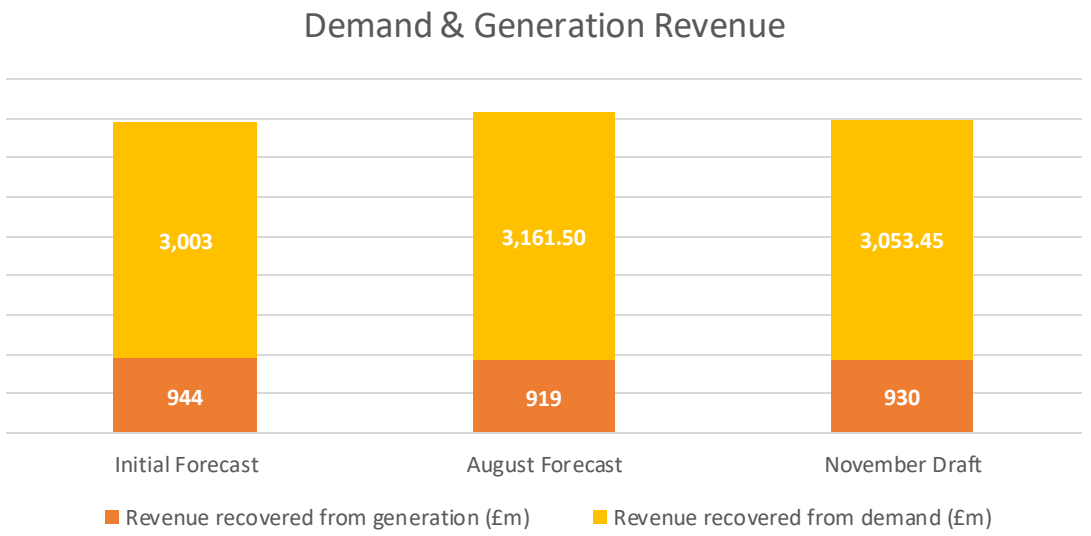
£m Nominal	2023/24 TNUoS Revenue			
	Initial Forecast	August Forecast	November Draft	January Final
TO Income from TNUoS				
National Grid Electricity Transmission	1,991.6	2,097.3	2,141.3	
Scottish Power Transmission	421.2	443.6	498.2	
SHE Transmission	712.4	750.2	711.9	
Total TO Income from TNUoS	**3,125.2**	**3,291.1**	**3,351.4**	
Other Income from TNUoS				
Other Pass-through from TNUoS	87.0	38.3	15.8	
Offshore (plus interconnector contribution / allowance)	735.2	751.2	616.2	
Total Other Income from TNUoS	**822.2**	**789.5**	**632.0**	
Total to Collect from TNUoS	**3,947.3**	**4,080.6**	**3,983.4**	

- Total revenue is forecast to be £3.98bn in 2023/24 a decrease of £97.2m from the August forecast. This is due to revisions of the TO Maximum Allowed Revenue (+£60.3m), revisions to OFTO Allowed revenue, forecast OFTO Asset Transfer Dates and Interconnector Contributions (-£135m), and updates to pass-through items (-£22.5m).
- The above figures remain indicative with the next onshore and offshore TO forecasts expected in the January Final Tariffs forecast.

Summary of revenue to be recovered

Revenue	2023/24 Tariffs			
	Initial Forecast	August Forecast	November Draft	January Final
Total Revenue (£m)	3,947.0	4,080.6	3,983.4	
Generation Output (TWh)	194.9	199.8	199.8	
% of revenue from generation	23.92%	22.52%	23.35%	
% of revenue from demand	76.08%	77.48%	76.65%	
Revenue recovered from generation (£m)	944.2	919.1	930.0	
Revenue recovered from demand (£m)	3,002.8	3,161.5	3,053.4	

- The generation output is set to stay at the same level as the August. The % of revenue recovered from generation is set to increase by 0.82% meaning revenue will increase by £10.9m.
- Demand revenue is set to reduce by £108m since the August forecast as overall revenue and % of revenue recovered from demand has reduced.



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Generation Tariffs

Sarah Chleboun

Contracted, Modelled & Chargeable Generation Capacity

- The generation charging base for 2023/24 is forecast at **75.96GW**
- This is a **decrease of 1.22GW** since the August forecast
- Contracted TEC has increased since the August forecast, whereas revisions to our best view have resulted in a decrease
- The forecast is based on the TEC registers as of 31st October and the contracted TEC will not be updated for the Final tariffs
- Our best view and chargeable TEC will be updated ahead of the Final tariffs.

	2023/24 Tariffs		
Generation (GW)	Initial	August	Draft
Contracted TEC	90.96	88.69	89.77
Modelled Best View TEC	85.11	87.4	89.77
Chargeable TEC	74.89	77.18	75.96

- CONTRACTED:
  - Full TEC register used
- MODELLED:
  - Reduction in TEC in line with internal best view – contracted TEC is used in Draft, this is shown here.
- CHARGEABLE:
  - Modelled TEC minus interconnector capacity

Generation Tariffs

- The Limiting Regulation requires the total TNUoS recovery from generators to be within the range of €0-2.50/MWh on average.
- All local onshore and local offshore tariffs are excluded in the Limiting Regulation €2.50/MWh cap for generator transmission charges, except for TNUoS local charges associated with pre-existing assets following the approval of CMP391.
- The adjustment tariff was introduced to ensure compliance with the €2.50/MWh cap. It is forecast to increase by £0.64/kW to become less negative.

Generation Tariffs (£/kW)	2023/24 August	2023/24 November	Change since last forecast
Adjustment	-1.548377	-0.905944	0.642433
Average Generation Tariff*	11.909194	12.242807	0.333613

- *The average generation tariff is calculated by dividing the total revenue payable by generation over the generation charging base in GW. It includes local charges*

- The average generation tariff is £12.24/kW, an increase of £0.33/kW due to the increase in generation revenue and decrease in charging base.

Generation TNUoS Tariffs – Wider tariffs

The generation TNUoS wider tariffs are made of the four elements below:

Peak Security

Year Round Shared

Year Round Not Shared

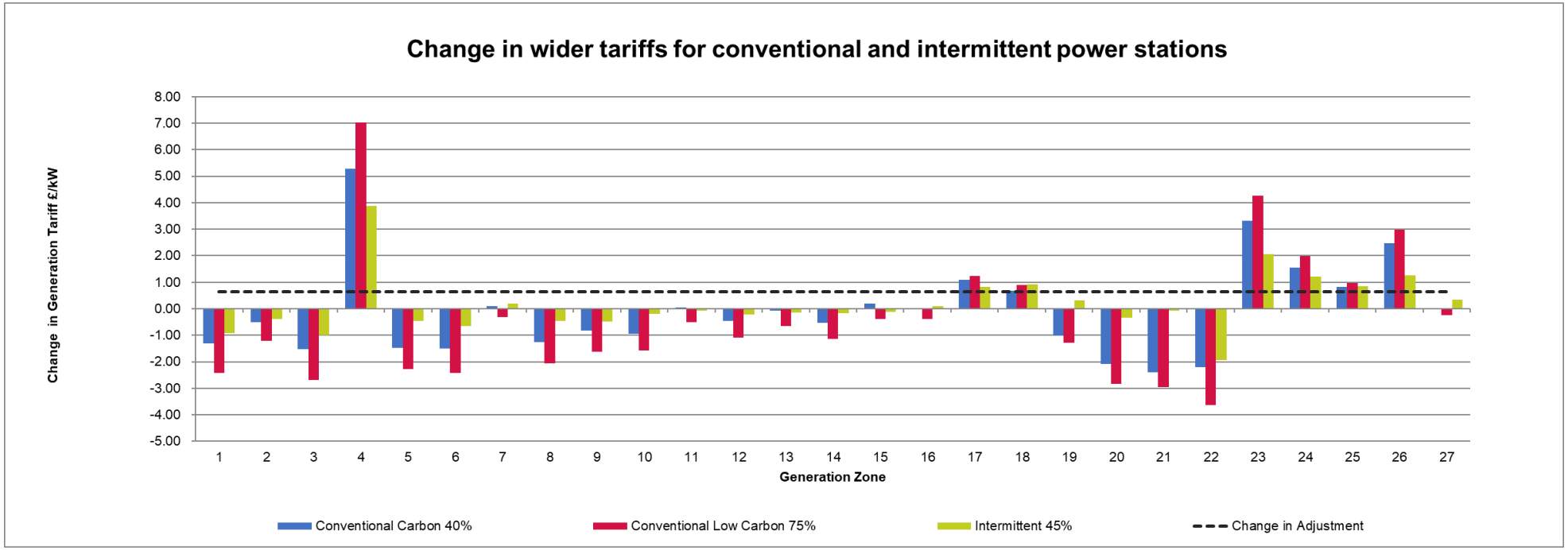
Generator Adjustment

Year Round Shared and Year Round Not Shared elements are multiplied by Annual Load Factors (ALFs) dependent on generation type

We publish examples for each generation type calculation using example ALFs:

Conventional Carbon 40%	Conventional Low Carbon 75%	Intermittent 45%
Biomass	Nuclear	Offshore wind
CCGT/CHP	Hydro	Onshore wind
Coal		Solar PV
OCGT/Oil		Tidal
Pumped storage		
Battery storage		
Reactive Compensation		

Generation Tariffs



- Changes in the locational tariffs are due to our revisions to the contractual TEC and nodal demand and the network model.
- The change in flows has resulted in a large increase in zone 4, which is often sensitive to small changes.
- Overall, the North-South tariff divide has decreased (with the exception of zones 19 – 22 which are affected more by the east – south flows).

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Local Tariffs

Jo Zhou/Sarah Chleboun

Onshore Local Substation Tariffs

- Onshore local substation tariffs are inflated annually, in line with the increase of May-Oct CPIH
- The local substation tariffs for 2023/24 have been "locked down" and will remain unchanged in the final tariffs in January

Local substation tariffs for 2023/24

2023/24 Local Substation Tariff (£/kW)				
Substation Rating	Connection Type	132kV	275kV	400kV
<1320 MW	No redundancy	0.163811	0.081909	0.056497
<1320 MW	Redundancy	0.345168	0.175316	0.124485
>=1320 MW	No redundancy	-	0.240647	0.171334
>=1320 MW	Redundancy	-	0.362133	0.260462

Onshore Local Circuits Tariffs

- Local circuits models for 2023/24 have been updated, in line with the refreshed ETYS network data.
- We list the local circuit tariffs for non-MITS sites that are forecast to have directly-connected generators in the specific charging year.
- Tariffs can be positive or negative, depending on the "incremental" impact on the local networks.

Substation Name	(£/kW)	Substation Name	(£/kW)	Substation Name	(£/kW)
Aberdeen Bay	2.902034	Dumnaglass	0.968386	Langage	-0.375074
Achruach	4.779480	Dunhill	1.594208	Lochay	0.416560
Aigas	0.744492	Dunlaw Extension	1.685580	Luichart	0.641683
An Suidhe	-1.068738	Edinbane	7.793870	Marchwood	0.425506
Arecleoch	2.645559	Enoch Hill	1.669108	Mark Hill	0.996676
Beinneun Wind Farm	1.499498	Ewe Hill	1.692970	Middle Muir	2.615649
Bhlaraidh Wind Farm	0.734958	Fallago	-0.073578	Middleton	0.167453
Black Hill	1.728519	Farr	3.968392	Millennium Wind	1.868744
Black Law	1.989073	Fernoch	5.007516	Mossford	3.208094
BlackCraig Wind Farm	6.615841	Ffestiniogg	0.281594	Nant	2.857146
BlackLaw Extension	4.218087	Finlarig	0.364490	Necton	-0.425691
Broken Cross	1.214600	Foyers	0.326024	Rhigos	0.117344
Clyde (North)	0.124836	Galawhistle	1.162128	Rocksavage	0.020105

For full details of this table see Table 11 in the report / published tables file

Tariffs associated with Pre-existing Assets

- Following CMP391, and for the purpose of assessing compliance with the “gen cap”, local charges (local substation/circuit charges) associated with pre-existing assets, are moved from the “Connection Exclusion pot” to “eligible gen charge pot”.
- For each user, the local tariffs and charges are not affected by CMP391. Only the Adjustment Tariff is affected (due to the way to calculate “eligible gen charge”).

Project Name	Pre-existing local circuit tariff (£/kW)	Aggregated pre-existing TEC (MW)
Aigas (part of the Beauly Cascade)	0.744492	
Aikengall IIa Wind Farm	0.387343	
An Suidhe Wind Farm - Argyll (SRO)	- 1.068738	
Blackcraig Wind Farm	6.615841	
Broken Cross Wind Farm	1.214600	
Corriemoillie Wind Farm	1.855154	
Culligran (part of the Beauly Cascade)	1.972922	
Cumberhead	0.795543	
Dalquhandy Wind Farm	0.795543	
Deanie (part of the Beauly Cascade)	3.241230	
Edinbane Windfarm	7.793870	
Farr Wind Farm - Tomatin	3.968392	
Ffestiniog	0.281594	
Finlarig	0.364490	

Project Name	Pre-existing substation Tariff (£/kW)	Aggregated pre-existing TEC (MW)
Pogbie Wind Farm	0.345168	41.7
Toddleburn Wind Farm	0.345168	
Keith Hill Wind Farm	-	

For full details of this table see Tables 19-20 in the report / published tables file

Offshore Local Tariffs

- Tariffs are set at asset transfer, or the beginning of a price control, and are indexed in line with the OFTO licence.
- Most tariffs have increased slightly, due to updates to the inflation forecast.
- Offshore tariffs for any generators where the relevant OFTO's inflation term is linked to September RPI are now finalised. The remaining tariffs will be finalised in January, using updated inflation data.
- Projects expected to asset transfer during 2022/23 onwards will have tariffs calculated once asset transfer has taken place.

Offshore Generator	2023/24 November Tariff Component (£/kW)		
	Substation	Circuit	ETUoS
Barrow	10.232463	54.057574	1.342324
Beatrice	8.398974	23.028560	-
Burbo Bank	13.045517	25.212986	-
Dudgeon	19.081129	29.938585	-
Galloper	19.532116	30.892051	-
Greater Gabbard	19.065204	44.118799	-
Gunfleet	22.268014	20.535104	3.838129
Gwynt y mor	24.497892	24.220627	-
Hornsea 1A	8.719458	30.850803	-
Hornsea 1B	8.719458	30.850803	-
Hornsea 1C	8.719458	30.850803	-
Humber Gateway	14.417146	33.077894	-
Lincs	20.014443	78.709959	-
London Array	13.582228	46.568255	-
Ormonde	31.460381	58.806272	0.468637
Race Bank	11.555007	32.093562	-
Rampion	9.439328	24.692880	-
Robin Rigg	- 0.690516	39.195090	12.557858
Robin Rigg West	- 0.690516	39.195090	12.557858
Sheringham Shoal	29.433630	34.665665	0.753530
Thanet	22.476275	42.109352	1.013720
Walney 1	27.172261	54.324258	-
Walney 2	25.279803	51.446918	-
Walney 3	11.869367	24.046627	-
Walney 4	11.869367	24.046627	-
West of Duddon Sands	10.615060	52.914686	-
Westermost Rough	21.583947	36.733135	-

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Demand Forecasts

Ishtyaq Hussain

System Peak, HH/NHH demand & Chargeable Export Forecast

	2023/24 Tariffs			
	Initial	August	Draft	Change
Average System demand at Triad (GW)	49.72	50.67	50.95	0.28
Average HH Metered Demand Triad (GW)	19.48	19.75	19.76	0.01
Chargeable Export Volume (GW)	7.38	7.64	7.64	0.00
NHH Annual Energy demand between (4pm-7pm TWh)	24.54	24.86	24.97	0.11

- There has been a slight increase of 0.28GW in the overall system demand forecast since the August forecast.
- Chargeable Export Volume forecast remains the same as the August forecast.
- NHH forecast has increased to 24.97GW in line with current out-turn trends
- Minimal change in HH forecast, increase of 0.01GW to 19.76GW.

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Demand Tariffs

Ishtyaq Hussain

Demand Tariffs

- Forecast demand tariffs for 2023/24 includes the implementation of CMP343: 'Transmission Demand Residual bandings and allocation' which will take effect from 1st April 2023

- Demand revenue in our current forecast reduced by £108m compared to our August forecast. The increase to the average HH and NHH tariffs is due to increase in locational demand revenue.

Non-locational Banded Tariffs	2023/24 August	2023/24 November	Change
Average (£/site/annum)	97.687198	92.746325	- 4.940873
Unmetered (p/kWh/annum)	1.1660356	1.0930032	- 0.0730324
Demand Residual (£m)	3,074.4	2,968.6	- 105.9

HH Tariffs (Locational)	2023/24 August	2023/24 November	Change
Average Tariff (£/kW)	5.281208	5.328366	0.047158
Residual (£/kW)	-	0.000000	0.000000

EET	2023/24 August	2023/24 November	Change
Average Tariff (£/kW)	2.252783	2.667967	0.415183
Phased residual (£/kW)	-	-	-
AGIC (£/kW)	2.540292	2.547308	0.007016
Embedded Export Volume (GW)	7.643273	7.641359	- 0.001914
Total Credit (£m)	17.218637	20.386890	3.168253

NHH Tariffs (locational)	2023/24 August	2023/24 November	Change
Average (p/kWh)	0.250808	0.256769	0.005961

Zone	Zone Name	HH Demand Tariff (£/kW)	NHH Demand Tariff (p/kWh)	Embedded Export Tariff (£/kW)
1	Northern Scotland	-	-	-
2	Southern Scotland	-	-	-
3	Northern	-	-	-
4	North West	-	-	-
5	Yorkshire	-	-	-
6	N Wales & Mersey	-	-	0.410283
7	East Midlands	-	-	2.051847
8	Midlands	3.046892	0.383934	5.594200
9	Eastern	0.272515	0.036455	2.819823
10	South Wales	6.689801	0.761901	9.237109
11	South East	2.928529	0.387454	5.475837
12	London	4.374542	0.452197	6.921850
13	Southern	5.290615	0.674743	7.837923
14	South Western	7.645707	1.050876	10.193015

Residual charge for demand:	-

TDR Banded Charges

- Changes in demand residual banded tariffs are impacted by;
  - Changes in overall demand revenue
  - Changes in demand residual revenue - *Proportion of demand revenue not attributed to the locational element of demand tariffs*
  - *Prior year site counts and consumptions as per band thresholds. i.e. 2023/24 final tariffs will be based on 2021/22 final site counts and consumptions across each band*
- As per the CMP343 decision, locational demand tariffs are floored with 4 T-connected bands
- Site counts and consumptions have been updated since the previous Draft forecast. We are expecting CMP389 'Change in percentile's for transmission bands' to be concluded in time for Final tariffs.

Band		2023/24 August	2023/24 Draft		Change
Domestic	Tariff - £/Site/Day	0.11	0.10	-	0.00
LV_NoMIC_1		0.04	0.05		0.01
LV_NoMIC_2		0.25	0.24	-	0.00
LV_NoMIC_3		0.60	0.58	-	0.03
LV_NoMIC_4		1.91	1.80	-	0.11
LV1		3.05	2.90	-	0.14
LV2		5.72	5.33	-	0.39
LV3		9.30	8.68	-	0.62
LV4		21.13	19.55	-	1.58
HV1		14.10	15.13		1.03
HV2		51.05	48.70	-	2.35
HV3		99.74	95.62	-	4.12
HV4		256.96	242.69	-	14.28
EHV1		160.24	114.52	-	45.73
EHV2		620.65	563.07	-	57.58
EHV3		1,312.55	1,135.33	-	177.22
EHV4		3,394.62	3,091.83	-	302.79
T-Demand1		388.88	435.08		46.20
T-Demand2		1,391.71	1,342.07	-	49.63
T-Demand3		3,037.19	3,115.11		77.92
T-Demand4		8,894.52	8,000.77	-	893.75
Unmetered demand		**p/kWh**	**p/kWh**		
Unmetered		0.00319	0.00299	-	0.00020
Demand Residual (£m)		**2,968.6**	**3,074.4**	-	**105.9**

TDR Banded Charges

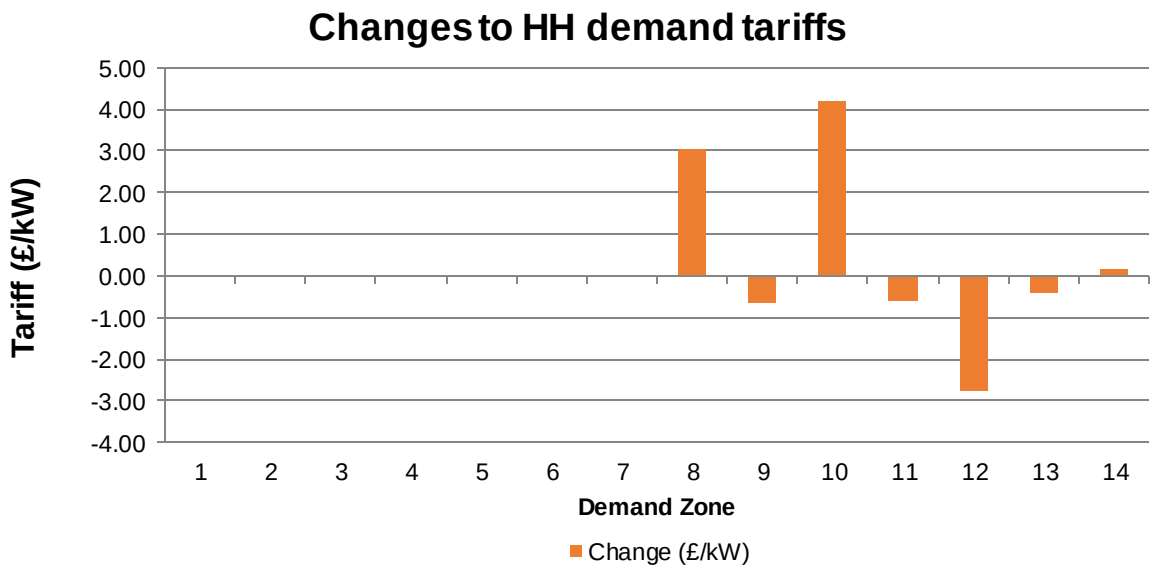
	Band	Tariff	Percentile	Threshold (kWh/MWh or kVA)		Consumption (GWh)	Consumption Proportion %	Site Count
				Lower	Upper			
	Domestic	£/Site per Annum				103,177	37.99%	29,486,717
kWh	LV_NoMIC_1		<= 40%	-	<= 3,571	1,631	0.60%	912,728
	LV_NoMIC_2		40 - 70%	> 3,571	<= 12,553	5,647	2.08%	694,427
	LV_NoMIC_3		70 - 85%	> 12,553	<= 25,279	6,733	2.48%	347,206
	LV_NoMIC_4		> 85%	> 25,279	∞	20,450	7.53%	339,634
kVA	LV1		<= 40%	-	<= 80	7,935	2.92%	81,573
	LV2		40 - 70%	> 80	<= 150	11,785	4.34%	65,990
	LV3		70 - 85%	> 150	<= 231	7,305	2.69%	25,134
	LV4		> 85%	> 231	∞	19,707	7.26%	30,099
	HV1		<= 40%	-	<= 422	4,301	1.58%	8,490
	HV2		40 - 70%	> 422	<= 1,000	12,616	4.65%	7,736
	HV3		70 - 85%	> 1,000	<= 1,800	9,733	3.58%	3,040
	HV4		> 85%	> 1,800	∞	27,313	10.06%	3,361
	EHV1		<= 40%	-	<= 5,000	1,879	0.69%	490
	EHV2		40 - 70%	> 5,000	<= 12,000	4,827	1.78%	256
	EHV3		70 - 85%	> 12,000	<= 21,500	5,132	1.89%	135
	EHV4		> 85%	> 21,500	∞	14,287	5.26%	138
MWh	T-Demand1		<= 40%	-	<= 23,800	379	0.14%	26
	T-Demand2		40 - 70%	> 23,800	<= 68,099	899	0.33%	20
	T-Demand3		70 - 85%	> 68,099	<= 128,292	1,043	0.38%	10
	T-Demand4		> 85%	> 128,292	∞	2,411	0.89%	9
Unmetered demand								
	Unmetered	p/kWh				2,404	0.89%	

- Site counts and consumption data has been updated the since the August forecast
- The transmission connected out-turn demand data 2021/22 has been used to update the draft tariffs for 2023/24.
- Transmission banding thresholds may still be subject to change with CMP389 delayed until 12th January. The impact of this change has been communicated to the affected customers.

HH Demand Tariffs

- The fluctuations in tariffs for zones 8 through to 14 tariffs are due to a combination of an increase in the forecast Expansion Constant (EC) an increase of £0.2 £/MWkm since August tariffs, increase in forecast inflation and changes in the charging base (changes in forecast Gross and HH demand across zones) have also had an impact on locational tariffs which make up the HH tariff.
- Demand locational (Week 24 data) has been updated. Updates to the locational signal due to changes in generation, has created fluctuations in the demand locational element of demand charges
- The forecast level of gross HH chargeable demand has increased slightly by 0.01GW in comparison with the August tariffs and is currently forecast at 19.76GW.

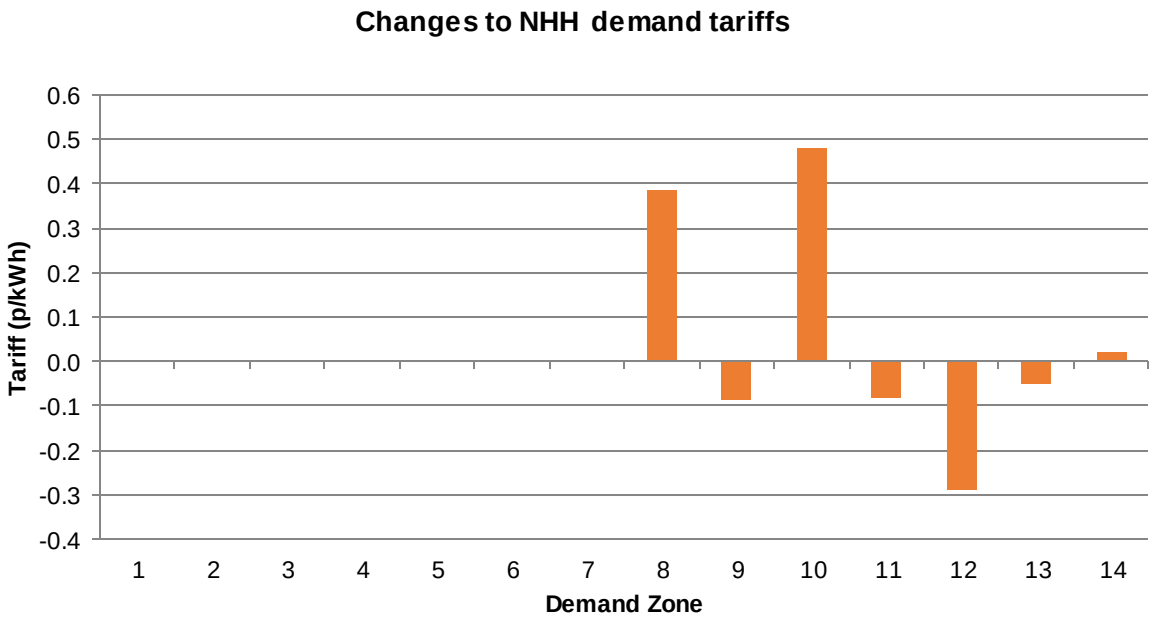
Zone	Zone Name	2023/24 August (£/kW)	2023/24 November (£/kW)	Change (£/kW)
1	Northern Scotland	-	-	-
2	Southern Scotland	-	-	-
3	Northern	-	-	-
4	North West	-	-	-
5	Yorkshire	-	-	-
6	N Wales & Mersey	-	-	-
7	East Midlands	-	-	-
8	Midlands	-	3.046892	3.046892
9	Eastern	0.933038	0.272515	- 0.660523
10	South Wales	2.493406	6.689801	4.196395
11	South East	3.520830	2.928529	- 0.592301
12	London	7.145918	4.374542	- 2.771376
13	Southern	5.712609	5.290615	- 0.421994
14	South Western	7.499372	7.645707	0.146335



NHH Tariffs

- The average NHH tariff for 2023/24 Final tariffs is set at 0.26p/kWh, a 0.005p/kWh increase compared to August tariffs
- Fluctuations in zonal tariffs can be attributed to:
  - Increase in the forecast of EC
  - Increase in overall demand revenue
  - The change in the locational demand tariffs
  - Changes in the HH and NHH charging bases (overall and zonal changes) and the proportion of demand revenue to be recovered across each, respectively.

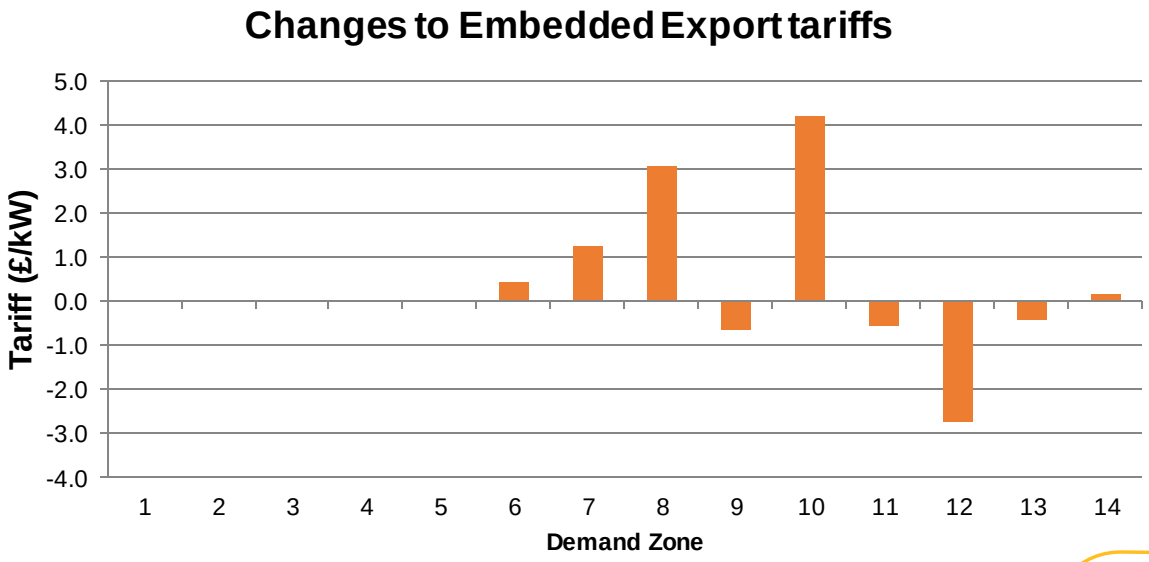
Zone	Zone Name	2023/24 August (p/kWh)	2023/24 November (p/kWh)	Change (p/kWh)
1	Northern Scotland	-	-	-
2	Southern Scotland	-	-	-
3	Northern	-	-	-
4	North West	-	-	-
5	Yorkshire	-	-	-
6	N Wales & Mersey	-	-	-
7	East Midlands	-	-	-
8	Midlands	-	0.383934	0.383934
9	Eastern	0.124251	0.036455	-0.087796
10	South Wales	0.281869	0.761901	0.480032
11	South East	0.467587	0.387454	-0.080133
12	London	0.741324	0.452197	-0.289127
13	Southern	0.726061	0.674743	-0.051318
14	South Western	1.027589	1.050876	0.023287



Embedded Export

- In this tariff update there has been noticeable change to the average EET versus the August forecast. This is primarily due to a change in locational demand and a change in forecast Embedded Export Volumes.
- Overall Embedded Export volume has remained the same as our August forecast.
- There has been a slight increase to the avoided GSP Infrastructure Costs (AGIC) of £0.007/kW to £2.55/kW due to an increase in inflation for 2023/24.
- The overall impact of these changes has increased the average EET by £0.42/kW to £2.67/kW

Zone	Zone Name	2023/24 August (£/kW)	2023/24 November (£/kW)	Change (£/kW)
1	Northern Scotland	-	-	-
2	Southern Scotland	-	-	-
3	Northern	-	-	-
4	North West	-	-	-
5	Yorkshire	-	-	-
6	N Wales & Mersey	-	0.410283	0.410283
7	East Midlands	0.812237	2.051847	1.239610
8	Midlands	2.505729	5.594200	3.088471
9	Eastern	3.473330	2.819823	- 0.653507
10	South Wales	5.033698	9.237109	4.203411
11	South East	6.061122	5.475837	- 0.585285
12	London	9.686210	6.921850	- 2.764360
13	Southern	8.252901	7.837923	- 0.414978
14	South Western	10.039664	10.193015	0.153351



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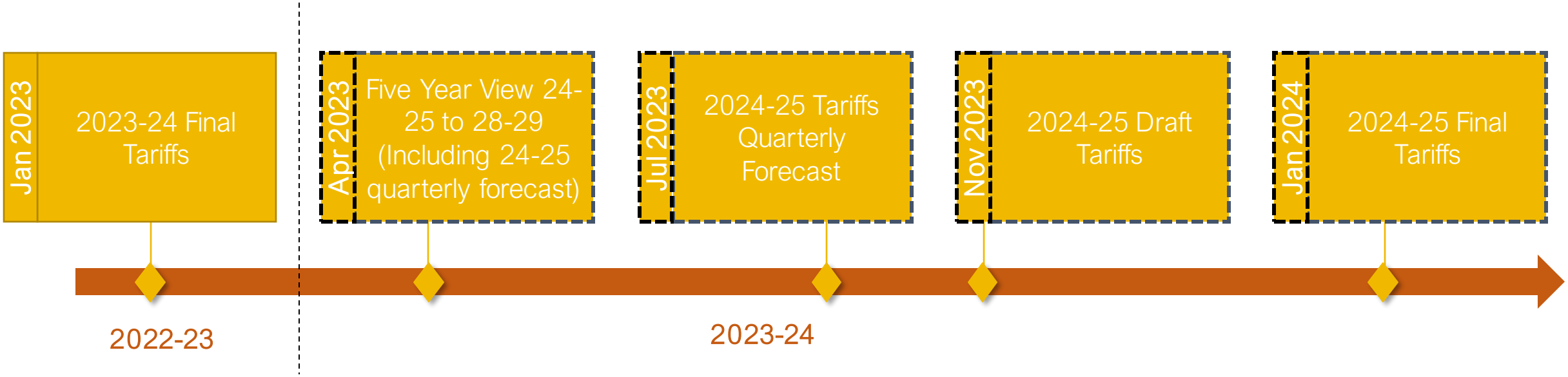
Next Steps

Nick Everitt

Tariff Timetable



- The next publication will be the Final tariffs for 2023/24 which will be published in January 2023 and will apply from April 2023.
- The TNUoS forecast timetable for 2024/25 will be published end of January 2023.

Getting involved

Transmission Charging Methodology Forum (TCMF)

- We will continue to engage with you on our TNUoS forecast via the monthly TCMF meetings.
- Interested? Further details can be found on the NGESO website

Charging Future Forum

- One place to learn, contribute and shape the reform of GB's electricity network access and charging arrangements
- Interested? Further information can be found on the Charging Futures Website or sign up to receive more information here.

Transport and Tariff Model Training

- We plan on running more Transport and Tariff Model training sessions, which will be scheduled soon.
- Please provide suggestions and register your interest via TNUoS.queries@nationalgrideso.com

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