

November 2024

Draft Annual Load Factors

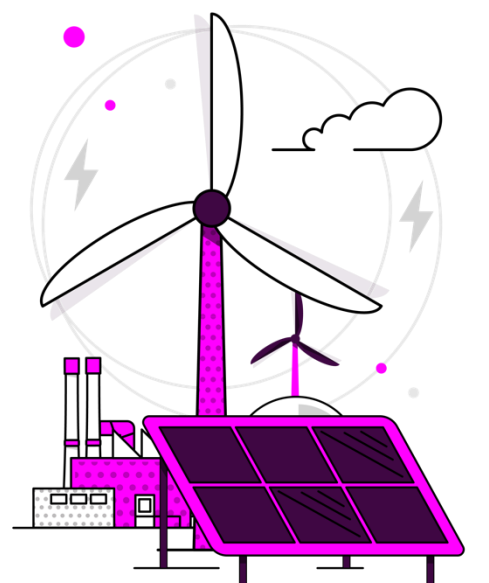
For 2025/26 TNUoS Tariffs





Contents

1. Summary of Annual Load Factors for the 2025/26 charging year	3
Executive Summary.....	4
Draft Annual Load Factors for 2025/26.....	5
Generic Annual Load Factors	11
2. How are ALFs calculated?	12
The ALFs Calculation.....	13
Five years of data	13
Four years of data	13
Three years of data	14
Fewer than three years of data	14
Calculation of partial year ALFs	15
Generic ALFs	15
Next Steps.....	16
3. Generation Charging Principles.....	17
The Wider Tariff.....	19
Generation classifications.....	19
4. Document Revision History	21



1. Summary of Annual Load Factors for the 2025/26 charging year





Executive Summary

The National Energy System Operator (NESO) is responsible for calculating, billing and collecting the Transmission Network Use of System (TNUoS) charges from generators and suppliers for use of the transmission networks. The TNUoS charges are designed to recover the cost of installing and maintaining the transmission system in England, Wales, Scotland and offshore. The methodologies for TNUoS charges are defined in the Connection and Use of System Code (CUSC). One of the key parameters for the generator TNUoS charges is Annual Load Factors (ALFs).

This document contains the draft Annual Load Factors (ALFs) to be used in the calculation of final generator TNUoS tariffs for 2025/26, effective from 1 April 2025.

We use generation data from the past five years to calculate the load factor for each generator. The draft ALFs in this document are based on generation data between 2019/20 and 2023/24.

Where historic data is not available for a new or mothballed station, we use a generic ALF corresponding to the station's generation technology type.

The ALFs for each generator at station level, and the generic ALF for each generation technology type, are published below.

We invite all generators to review their specific ALF as calculated in table 1 below. You can check your ALF against your Transmission Entry Capacity (TEC) using your output metering and your Final Physical Notifications.

Comments on the ALFs can be submitted until close of business Friday 20 December 2024. After this deadline, we will publish a revised and final version of the ALFs that will be used in the Final TNUoS tariffs for the 2025/26 charging year.

Please review the ALFs and provide your comments or feedback by:

FRIDAY 20 DECEMBER 2024

TNUoS Revenue Team

Email: TNUoS.Queries@nationalenergyso.com



Draft Annual Load Factors for 2025/26

The table below shows the draft ALFs using data from the 2019/20 to 2023/24 charging years.

Please note that where there is no data available for a station, the generic ALF for the station’s generation type is used to complete the required data, this is shown as 0% in the table as it represents their actual data for that year.

Table 1: Draft ALFs by generating station

Power Station	Technology	Yearly Load Factor Source					Yearly Load Factor Value					Specific ALF
		2019/20	2020/21	2021/22	2022/23	2023/24	2019/20	2020/21	2021/22	2022/23	2023/24	
ABERDEEN	Offshore_Wind	Actual	Actual	Actual	Actual	Actual	43.4877%	40.4600%	39.8013%	40.4739%	38.8581%	40.2451%
ACHRUACH	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	44.6235%	38.9476%	30.9230%	27.6794%	37.6321%	35.8342%
AFTON	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	54.8712%	44.9021%	31.8944%	35.1075%	35.2433%	38.4176%
AIKENGALL II	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	26.2386%	25.3400%	37.8846%	50.7794%	44.2623%	36.1285%
AN SUIDHE	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	38.0034%	36.6430%	36.4042%	32.7853%	38.5886%	37.0169%
ARECLEOCH	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	33.7507%	29.8557%	20.7179%	19.6203%	23.0845%	24.5527%
BAD A CHEO	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	44.1803%	40.2060%	38.3828%	36.3398%	39.9132%	39.5007%
BARROW	Offshore_Wind	Actual	Actual	Actual	Actual	Actual	41.0261%	36.8873%	32.7662%	36.3397%	35.2360%	36.1543%
BEATRICE	Offshore_Wind	Actual	Actual	Actual	Actual	Actual	62.4523%	47.4445%	46.4316%	48.0706%	43.1821%	47.3156%
BEAULY CASCADE	Hydro	Actual	Actual	Actual	Actual	Actual	38.3073%	33.6181%	33.8611%	31.4152%	33.6942%	33.7245%
BEECHGREEN ENERGYFARM	Solar	Generic	Generic	Generic	Generic	Partial	0.0000%	0.0000%	0.0000%	0.0000%	10.9008%	10.8336%
BEINNEUN	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	37.8757%	39.9402%	32.9284%	34.8742%	33.3239%	35.3579%
BHLARAI DH	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	38.8473%	35.5105%	32.7032%	34.0764%	30.6109%	34.0967%
BLACK LAW	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	26.1492%	18.7236%	21.7779%	23.3144%	21.9910%	22.3611%
BLACKCRAIG WINDFARM	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	50.2739%	48.9036%	42.0617%	42.0026%	39.1587%	44.3226%
BLACKLAW EXTENSION	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	35.2458%	30.8894%	19.3554%	29.2178%	24.2607%	28.1226%
BRIMSDOWN	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	48.5050%	4.9608%	63.6660%	68.0226%	50.7331%	54.3014%
BURBO BANK EXT	Offshore_Wind	Actual	Actual	Actual	Actual	Actual	49.1381%	45.9610%	38.1707%	40.6398%	43.9991%	43.5333%
BUSTLEHOLME	Battery	Generic	Generic	Generic	Partial	Actual	0.0000%	0.0000%	0.0000%	0.7199%	5.6361%	3.4148%
CAPENHURST	Battery	Generic	Generic	Generic	Partial	Actual	0.0000%	0.0000%	0.0000%	2.0430%	6.0539%	3.9951%
CARRAIG GHEAL	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	49.1331%	45.8985%	42.5664%	44.6001%	40.7771%	44.3550%
CARRINGTON	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	45.6708%	36.5051%	65.5803%	62.1030%	39.8931%	49.2223%
CLUNIE	Hydro	Actual	Actual	Actual	Actual	Actual	47.5977%	40.7445%	35.4478%	36.5998%	38.8832%	38.7425%
CLYDE (NORTH)	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	43.6042%	37.7586%	34.4795%	39.2960%	34.9469%	37.3338%

1. Summary of Annual Load Factors for the 2025/26 charging year



Power Station	Technology	Yearly Load Factor Source					Yearly Load Factor Value					Specific ALF
		2019/20	2020/21	2021/22	2022/23	2023/24	2019/20	2020/21	2021/22	2022/23	2023/24	
CLYDE (SOUTH)	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	26.6271%	36.3028%	30.9274%	34.1761%	31.4982%	32.2006%
CONNAHS QUAY	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	14.7379%	19.8650%	20.5616%	30.0815%	14.3242%	18.3882%
CONON CASCADE	Hydro	Actual	Actual	Actual	Actual	Actual	57.4034%	54.2900%	50.3881%	41.8695%	50.6617%	51.7799%
CORBY	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	0.3397%	0.3494%	1.2397%	0.7447%	0.3247%	0.4779%
CORRIEGARTH	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	46.1902%	50.5594%	44.1801%	46.8636%	42.3666%	45.7447%
CORRIEMOILLIE	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	36.3718%	32.9303%	29.6203%	29.6355%	30.1505%	30.9054%
CORYTON	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	39.0899%	31.1732%	19.1165%	16.3333%	9.6019%	22.2077%
COTTAM DEVELOPMENT CENTRE	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	55.5832%	59.6052%	60.2601%	46.2399%	56.1928%	57.1270%
COUR	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	57.8770%	55.7018%	47.6677%	47.3158%	47.5254%	50.2983%
COVENTRY	Battery	Generic	Generic	Generic	Generic	Partial	0.0000%	0.0000%	0.0000%	0.0000%	5.4231%	4.4000%
COWES	Gas_Oil	Actual	Actual	Actual	Actual	Actual	0.0884%	0.0740%	0.2156%	0.1557%	0.1059%	0.1167%
COWLEY	Battery	Generic	Partial	Actual	Actual	Actual	0.0000%	3.3029%	1.9502%	2.8427%	3.7569%	2.8499%
CREAG RIABHACH WIND FARM	Onshore_Wind	Generic	Generic	Generic	Partial	Actual	0.0000%	0.0000%	0.0000%	30.8369%	36.8737%	36.4072%
CROSSDYKES	Onshore_Wind	Generic	Partial	Actual	Actual	Actual	0.0000%	32.3587%	29.9792%	39.6955%	36.2843%	35.3197%
CRUACHAN	Pumped_Storage	Actual	Actual	Actual	Actual	Actual	8.0284%	8.2655%	5.8915%	13.2868%	15.0722%	9.8602%
CRYSTAL RIG II	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	49.7918%	48.4995%	45.9008%	40.0808%	37.6103%	44.8271%
CRYSTAL RIG III	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	53.8704%	52.9482%	48.4103%	48.2998%	46.3490%	49.8861%
CUMBERHEAD WIND FARM	Onshore_Wind	Generic	Generic	Generic	Partial	Actual	0.0000%	0.0000%	0.0000%	19.7963%	31.3952%	30.9009%
DALQUHANDY WIND FARM	Onshore_Wind	Generic	Generic	Generic	Partial	Actual	0.0000%	0.0000%	0.0000%	26.9893%	38.8625%	35.7876%
DAMHEAD CREEK	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	30.0390%	24.5035%	30.2402%	37.3939%	21.2682%	28.2609%
DERSALLOCH	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	37.1058%	32.3152%	30.7585%	33.9248%	33.0849%	33.1083%
DIDCOT B	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	50.2420%	41.8806%	54.9314%	55.4508%	37.1145%	49.0180%
DIDCOT GTS	Gas_Oil	Actual	Actual	Actual	Actual	Actual	0.5130%	0.0737%	0.1578%	0.1083%	0.0397%	0.1133%
DINORWIG	Pumped_Storage	Actual	Actual	Actual	Actual	Actual	8.2963%	7.3817%	10.1178%	9.1530%	6.3238%	8.2770%
DOGGER BANK PROJECT A	Offshore_Wind	Generic	Generic	Generic	Generic	Partial	0.0000%	0.0000%	0.0000%	0.0000%	8.0554%	34.8302%
DORENEILL	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	54.8990%	50.4355%	45.9927%	42.5678%	39.3668%	46.3320%
DOUGLAS WEST	Onshore_Wind	Generic	Generic	Partial	Actual	Actual	0.0000%	0.0000%	40.8897%	46.9573%	35.8987%	41.2485%
DRAX	Coal	Actual	Actual	Actual	Actual	Actual	46.7591%	47.3862%	44.2811%	37.9458%	35.6532%	42.9953%
DUDGEON	Offshore_Wind	Actual	Actual	Actual	Actual	Actual	54.1115%	50.4436%	48.3572%	47.0348%	49.7948%	49.5318%
DUNGENESS B	Nuclear	Actual	Actual	Actual	Actual	Actual	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%
DUNLAW EXTENSION	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	29.8704%	26.5288%	24.8042%	25.1612%	23.8068%	25.4981%
DUNMAGLASS	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	50.4246%	41.6275%	40.9001%	47.1722%	40.4671%	43.2333%
EAST ANGLIA 1	Offshore_Wind	Partial	Actual	Actual	Actual	Actual	29.9679%	49.0266%	50.5934%	48.8347%	55.5467%	51.7222%
EDINBANE WIND	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	32.6744%	30.1338%	30.9158%	31.5036%	28.7508%	30.8511%

1. Summary of Annual Load Factors for the 2025/26 charging year



Power Station	Technology	Yearly Load Factor Source					Yearly Load Factor Value					Specific ALF
		2019/20	2020/21	2021/22	2022/23	2023/24	2019/20	2020/21	2021/22	2022/23	2023/24	
ERROCHTY	Hydro	Actual	Actual	Actual	Actual	Actual	26.5126%	19.3928%	24.2338%	23.1601%	26.8538%	24.6355%
EWE HILL	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	36.6313%	29.5980%	27.8813%	32.2466%	30.5543%	30.7996%
FALLAGO	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	51.8467%	50.9745%	44.0807%	43.3643%	39.0658%	46.1398%
FARR WINDFARM	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	40.9761%	38.1431%	39.7780%	49.9325%	36.6619%	39.6324%
FASNAKYLE G1 & G3	Hydro	Actual	Actual	Actual	Actual	Actual	54.6486%	49.1345%	41.0037%	43.5656%	48.4869%	47.0624%
FAWLEY CHP	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	65.6292%	70.0968%	64.7543%	58.0886%	69.4029%	66.5955%
FFESTINIOG	Pumped_Storage	Actual	Actual	Actual	Actual	Actual	2.1464%	3.6192%	4.2564%	5.2797%	5.5701%	4.3851%
FINLARIG	Hydro	Actual	Actual	Actual	Actual	Actual	69.5043%	61.4982%	54.8479%	59.1878%	65.6241%	62.1034%
FOYERS	Pumped_Storage	Actual	Actual	Actual	Actual	Actual	7.6086%	12.5348%	11.5561%	22.2811%	23.1039%	15.4573%
FREASDAIL	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	42.0718%	38.5290%	35.8249%	40.1250%	39.7067%	39.4536%
GALAWHISTLE	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	50.0137%	49.1133%	35.7352%	36.4122%	36.7675%	40.7644%
GALLOPER	Offshore_Wind	Actual	Actual	Actual	Actual	Actual	54.2416%	51.7484%	51.7748%	49.4099%	56.0353%	52.5883%
GARRY CASCADE	Hydro	Actual	Actual	Actual	Actual	Actual	57.0471%	63.4954%	53.0632%	55.6830%	49.9692%	55.2644%
GLANDFORD BRIGG	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	0.6378%	0.1233%	0.0000%	0.0000%	0.0000%	0.0411%
GLEN APP	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	26.2184%	25.5772%	18.9414%	16.1433%	17.8030%	20.7739%
GLEN KYLLACHY WIND FARM	Onshore_Wind	Generic	Generic	Actual	Actual	Actual	0.0000%	0.0000%	40.2426%	37.5392%	33.0874%	36.9564%
GLENDOE	Hydro	Actual	Actual	Actual	Actual	Actual	36.0951%	33.8791%	33.5063%	29.4133%	34.1279%	33.8377%
GLENMORISTON	Hydro	Actual	Actual	Actual	Actual	Actual	45.1829%	42.7433%	0.0279%	0.0316%	0.0379%	14.2709%
GORDONBUSH	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	41.4003%	31.2278%	37.8413%	40.6492%	38.8661%	39.1189%
GRAIN	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	49.2656%	46.8759%	45.5408%	37.8457%	45.2623%	45.8930%
GRANGEMOUTH	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	62.3434%	54.9758%	47.7542%	47.0719%	41.2757%	49.9340%
GREAT YARMOUTH	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	53.4446%	37.8027%	54.4555%	39.8262%	34.2804%	43.6912%
GREATER GABBARD	Offshore_Wind	Actual	Actual	Actual	Actual	Actual	47.3707%	44.6564%	40.4104%	35.9032%	45.1336%	43.4002%
GRIFFIN WIND	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	27.5826%	24.2980%	23.3292%	24.0860%	23.7756%	24.0532%
GUNFLEET SANDS I	Offshore_Wind	Actual	Actual	Actual	Actual	Actual	45.4945%	42.0515%	37.1512%	38.7166%	44.6944%	41.8209%
GUNFLEET SANDS II	Offshore_Wind	Actual	Actual	Actual	Actual	Actual	45.0419%	41.8400%	38.0427%	37.5132%	43.4464%	41.1097%
GWYNT Y MOR	Offshore_Wind	Actual	Actual	Actual	Actual	Actual	45.3165%	41.7255%	35.5432%	37.6200%	36.8875%	38.7443%
HADYARD HILL	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	33.5312%	29.9285%	28.5335%	31.7926%	29.2248%	30.3153%
HALSARY WIND FARM	Onshore_Wind	Generic	Partial	Actual	Actual	Actual	0.0000%	37.6438%	51.6171%	49.6943%	45.5719%	48.9611%
HARESTANES	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	29.0205%	27.9253%	24.1662%	25.9778%	26.6304%	26.8445%
HARTING RIG WIND FARM	Onshore_Wind	Generic	Generic	Generic	Partial	Actual	0.0000%	0.0000%	0.0000%	20.3148%	31.4490%	31.0916%
HARTLEPOOL	Nuclear	Actual	Actual	Actual	Actual	Actual	78.3650%	82.6796%	55.8166%	77.8362%	54.8996%	70.6726%
HEYSHAM	Nuclear	Actual	Actual	Actual	Actual	Actual	81.9479%	72.3488%	59.6539%	71.3767%	62.5100%	68.7452%
HINKLEY POINT B	Nuclear	Actual	Actual	Actual	Actual	Actual	72.3339%	8.5019%	73.6931%	26.1853%	0.0005%	35.6737%

1. Summary of Annual Load Factors for the 2025/26 charging year



Power Station	Technology	Yearly Load Factor Source					Yearly Load Factor Value					Specific ALF
		2019/20	2020/21	2021/22	2022/23	2023/24	2019/20	2020/21	2021/22	2022/23	2023/24	
HORNSEA 1A	Offshore_Wind	Partial	Actual	Actual	Actual	Actual	35.6194%	50.0278%	49.5545%	52.2254%	47.6730%	50.6026%
HORNSEA 1B	Offshore_Wind	Actual	Actual	Actual	Actual	Actual	56.1660%	52.5372%	49.8309%	52.0226%	44.5295%	51.4636%
HORNSEA 1C	Offshore_Wind	Partial	Actual	Actual	Actual	Actual	45.1677%	50.9526%	49.4558%	52.5005%	44.7922%	50.9696%
HORNSEA 2A	Offshore_Wind	Generic	Generic	Partial	Actual	Actual	0.0000%	0.0000%	3.9661%	41.4360%	48.8789%	31.4270%
HORNSEA 2B	Offshore_Wind	Generic	Generic	Partial	Actual	Actual	0.0000%	0.0000%	16.1176%	39.8762%	49.7309%	35.2416%
HORNSEA 2C	Offshore_Wind	Generic	Generic	Partial	Actual	Actual	0.0000%	0.0000%	29.2773%	49.6073%	48.5372%	42.4739%
HUMBER GATEWAY	Offshore_Wind	Actual	Actual	Actual	Actual	Actual	50.3072%	47.4682%	44.0755%	46.5691%	44.0972%	46.0448%
IMMINGHAM	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	69.2946%	69.7413%	46.2767%	46.3097%	40.4999%	53.9603%
INDIAN QUEENS	Gas_Oil	Actual	Actual	Actual	Actual	Actual	0.1789%	0.0430%	0.5132%	0.4828%	0.0607%	0.2408%
IRON ACTON	Solar	Generic	Generic	Generic	Generic	Partial	0.0000%	0.0000%	0.0000%	0.0000%	12.3947%	11.3316%
J G PEARS	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	43.5479%	45.1644%	42.1169%	39.2792%	40.4338%	42.0329%
KEADBY	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	27.3173%	29.3689%	14.9634%	35.0215%	19.1752%	25.2871%
KEADBY II CCGT POWER STATION	CCGT_CHP	Generic	Generic	Partial	Actual	Actual	0.0000%	0.0000%	30.2350%	19.2568%	41.0896%	30.1938%
KEITH HILL	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	24.7990%	22.2586%	19.7960%	21.2221%	21.2443%	21.5750%
KEMSLEY	Battery	Generic	Partial	Actual	Actual	Actual	0.0000%	3.1112%	1.6915%	2.9802%	6.0728%	3.5815%
KENNOXHEAD WIND FARM EXTENSION	Onshore_Wind	Generic	Generic	Partial	Actual	Actual	0.0000%	0.0000%	24.2243%	29.5302%	40.3156%	31.3567%
KILBRAUR	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	44.2180%	41.2281%	42.2555%	42.4742%	41.2705%	42.0001%
KILGALLIOCH	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	46.4978%	43.4111%	38.7621%	38.8750%	34.3731%	40.3494%
KILLIN CASCADE	Hydro	Actual	Actual	Actual	Actual	Actual	43.1565%	42.0620%	34.9296%	39.0446%	40.4974%	40.5347%
KILLINGHOLME (POWERGEN)	Gas_Oil	Actual	Actual	Actual	Actual	Actual	1.2782%	1.6444%	1.2381%	2.4900%	0.4792%	1.3869%
KINGS LYNN A	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	20.9575%	51.7706%	55.5285%	51.4320%	29.4260%	44.2096%
KYPE MUIR	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	42.8204%	35.5513%	32.0539%	35.0616%	31.3585%	34.2223%
LANGAGE	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	28.9836%	25.4374%	54.5199%	36.8012%	25.9267%	30.5705%
LINCS WIND FARM	Offshore_Wind	Actual	Actual	Actual	Actual	Actual	50.8056%	48.3981%	44.2258%	43.7300%	46.4470%	46.3570%
LITTLE BARFORD	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	38.4787%	38.3298%	28.9830%	37.7184%	39.6680%	38.1756%
LOCHLUICHART	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	34.1454%	30.2399%	29.0049%	30.5907%	28.3874%	29.9452%
LONDON ARRAY	Offshore_Wind	Actual	Actual	Actual	Actual	Actual	45.8936%	46.8827%	41.9931%	41.8038%	47.8784%	44.9231%
LYNEMOUTH	Biomass	Actual	Actual	Actual	Actual	Actual	90.7180%	87.1228%	90.7966%	16.3568%	37.4686%	71.7698%
MARCHWOOD	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	45.8482%	63.6469%	73.2378%	72.8363%	38.5181%	60.7771%
MARK HILL	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	31.8364%	27.8354%	26.2231%	25.2694%	26.6498%	26.9028%
MEDWAY	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	21.3610%	35.5113%	9.7881%	27.2468%	18.0583%	22.2220%
MIDDLE MUIR	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	50.1156%	37.3334%	26.6592%	32.6697%	29.8624%	33.2885%
MILLENNIUM	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	54.8443%	45.2370%	40.3105%	42.6228%	37.0894%	42.7235%
MINNYGAP	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	34.1156%	32.2366%	28.8148%	31.1874%	31.3350%	31.5863%

1. Summary of Annual Load Factors for the 2025/26 charging year



Power Station	Technology	Yearly Load Factor Source					Yearly Load Factor Value					Specific ALF
		2019/20	2020/21	2021/22	2022/23	2023/24	2019/20	2020/21	2021/22	2022/23	2023/24	
MORAY EAST POWER STATIONS	Offshore_Wind	Generic	Generic	Partial	Actual	Actual	0.0000%	0.0000%	34.1086%	47.7258%	31.1616%	37.6653%
NANT	Hydro	Actual	Actual	Actual	Actual	Actual	38.0822%	31.3490%	33.8403%	31.9802%	35.2212%	33.6806%
NURSILING TERTIARY	Battery	Generic	Partial	Actual	Actual	Actual	0.0000%	3.8777%	0.0756%	0.2406%	3.6465%	1.3209%
ORMONDE	Offshore_Wind	Actual	Actual	Actual	Actual	Actual	42.8854%	39.5996%	27.8130%	30.9133%	30.2938%	33.6022%
PEMBROKE	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	63.4003%	60.9615%	77.4265%	77.9907%	58.7479%	67.2627%
PEN Y CYMOEDD	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	38.5408%	36.6615%	31.6591%	33.7183%	37.5455%	35.9751%
PETERBOROUGH	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	0.5500%	0.7858%	2.4456%	0.7895%	0.2021%	0.7084%
PETERHEAD	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	50.7405%	45.1695%	27.1070%	55.1618%	21.9868%	41.0056%
POGBIE	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	32.0583%	28.6354%	27.6012%	28.2439%	32.5216%	29.6459%
RACE BANK	Offshore_Wind	Actual	Actual	Actual	Actual	Actual	51.5222%	48.5914%	45.0760%	46.9553%	45.4177%	46.9881%
RAMPION	Offshore_Wind	Actual	Actual	Actual	Actual	Actual	35.3948%	46.9187%	42.1023%	43.6169%	50.3732%	44.2126%
RATCLIFFE-ON-SOAR	Coal	Actual	Actual	Actual	Actual	Actual	1.1881%	8.6794%	27.4231%	19.5997%	17.0866%	15.1219%
RICHBOROUGH 1	Battery	Generic	Generic	Generic	Generic	Partial	0.0000%	0.0000%	0.0000%	0.0000%	3.8372%	3.8713%
RICHBOROUGH 2	Battery	Generic	Generic	Generic	Generic	Partial	0.0000%	0.0000%	0.0000%	0.0000%	3.0662%	3.6143%
ROBIN RIGG EAST	Offshore_Wind	Actual	Actual	Actual	Actual	Actual	40.0541%	40.1533%	34.3910%	38.8582%	38.4959%	39.1360%
ROBIN RIGG WEST	Offshore_Wind	Actual	Actual	Actual	Actual	Actual	41.9934%	41.3967%	35.9395%	40.6587%	39.3759%	40.4771%
ROCKSAVAGE	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	34.7678%	28.4727%	28.3526%	15.0415%	19.0520%	25.2924%
RYE HOUSE	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	7.0222%	8.1726%	9.2983%	19.9986%	4.6824%	8.1644%
SALTEND	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	74.0812%	74.1271%	64.4094%	58.3750%	39.0297%	65.6219%
SANDY KNOWE WIND FARM	Onshore_Wind	Generic	Generic	Generic	Partial	Actual	0.0000%	0.0000%	0.0000%	19.3541%	35.8352%	32.2335%
SANQUHAR	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	57.9841%	52.5076%	47.6727%	56.6589%	50.1787%	53.1150%
SEABANK	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	22.3590%	27.1891%	28.1000%	48.0019%	37.6465%	30.9786%
SEAGREEN 1	Offshore_Wind	Generic	Generic	Generic	Actual	Actual	0.0000%	0.0000%	0.0000%	14.4362%	42.2964%	34.9834%
SELLAFIELD	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	3.2368%	2.0667%	0.4333%	0.6887%	1.0970%	1.2841%
SEVERN POWER	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	26.2481%	9.2566%	0.0000%	0.0000%	2.1098%	3.7888%
SHERINGHAM SHOAL	Offshore_Wind	Actual	Actual	Actual	Actual	Actual	49.0236%	45.7952%	39.2167%	39.4031%	42.2786%	42.4923%
SHOREHAM	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	7.2596%	26.1252%	34.5515%	49.7670%	54.5671%	36.8146%
SIZEWELL B	Nuclear	Actual	Actual	Actual	Actual	Actual	79.9515%	79.7295%	62.9812%	85.0139%	84.4014%	81.3608%
SLOY G2 & G3	Hydro	Actual	Actual	Actual	Actual	Actual	17.5169%	14.3504%	11.3156%	13.2415%	14.0477%	13.8799%
SOUTH HUMBER BANK	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	55.5443%	78.9930%	35.8557%	38.7863%	28.2424%	43.3955%
SOUTH KYLE WIND FARM	Onshore_Wind	Generic	Generic	Generic	Actual	Actual	0.0000%	0.0000%	0.0000%	4.9623%	29.0860%	25.1865%
SPALDING	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	55.8932%	47.0122%	41.3400%	48.7848%	45.5843%	47.1271%
SPALDING ENERGY EXPANSION	Gas_Oil	Partial	Actual	Actual	Actual	Actual	5.4076%	3.5577%	3.2713%	1.6750%	1.0823%	2.8347%
STAYTHORPE	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	56.1406%	41.6716%	57.3049%	60.2292%	44.7440%	52.7299%

1. Summary of Annual Load Factors for the 2025/26 charging year



Power Station	Technology	Yearly Load Factor Source					Yearly Load Factor Value					Specific ALF
		2019/20	2020/21	2021/22	2022/23	2023/24	2019/20	2020/21	2021/22	2022/23	2023/24	
STRATHY NORTH & SOUTH	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	38.3054%	34.4987%	35.0703%	35.8570%	35.8338%	35.5870%
STRONELAIRG	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	47.6741%	33.0353%	39.7871%	42.9007%	38.2628%	40.3168%
SUTTON BRIDGE	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	26.4852%	4.0643%	0.0000%	0.0000%	1.9614%	2.0086%
TAYLORS LANE	Gas_Oil	Actual	Actual	Actual	Actual	Actual	0.0960%	0.3699%	0.5212%	0.3103%	0.0777%	0.2587%
TEES RENEWABLE	Biomass	Generic	Actual	Actual	Actual	Actual	0.0000%	0.0000%	0.0000%	9.8997%	32.7122%	14.2040%
THANET	Offshore_Wind	Actual	Actual	Actual	Actual	Actual	41.2821%	39.0315%	35.4464%	35.4673%	41.6488%	38.5936%
TODDLBURN	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	37.2691%	34.7073%	30.5257%	32.2613%	30.6902%	32.5529%
TORNESS	Nuclear	Actual	Actual	Actual	Actual	Actual	96.5546%	83.6090%	68.7405%	68.3285%	80.6473%	77.6656%
TRALORG	Onshore_Wind	Generic	Partial	Actual	Actual	Actual	0.0000%	28.4944%	29.6661%	87.9149%	90.0745%	69.2185%
TRITON KNOLL OFFSHORE WIND FARM	Offshore_Wind	Generic	Partial	Actual	Actual	Actual	0.0000%	8.5862%	41.4188%	58.9126%	49.1342%	49.8218%
TWENTYSHILLING WIND FARM	Onshore_Wind	Generic	Generic	Partial	Actual	Actual	0.0000%	0.0000%	21.3637%	49.1043%	43.6277%	38.0319%
WALNEY 4	Offshore_Wind	Actual	Actual	Actual	Actual	Actual	56.1017%	50.4266%	41.8824%	49.5450%	49.1716%	49.7144%
WALNEY I	Offshore_Wind	Actual	Actual	Actual	Actual	Actual	46.5322%	44.2968%	35.3784%	40.4092%	41.0519%	41.9193%
WALNEY II	Offshore_Wind	Actual	Actual	Actual	Actual	Actual	54.7220%	49.7557%	42.6198%	47.8576%	47.0542%	48.2225%
WALNEY III	Offshore_Wind	Actual	Actual	Actual	Actual	Actual	56.2050%	53.1360%	43.1102%	49.7948%	46.1023%	49.6777%
WEST BURTON B	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	53.4863%	40.1276%	50.1360%	58.9481%	50.0631%	51.2284%
WEST OF DUDDON SANDS	Offshore_Wind	Actual	Actual	Actual	Actual	Actual	50.7437%	50.6867%	43.4545%	48.8273%	49.1612%	49.5584%
WESTERMOST ROUGH	Offshore_Wind	Actual	Actual	Actual	Actual	Actual	56.1661%	53.1495%	48.2304%	49.4807%	48.6872%	50.4391%
WHITELEE	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	31.3487%	28.2256%	25.0306%	28.3630%	26.9947%	27.8611%
WHITELEE EXTENSION	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	28.4492%	27.0979%	23.9659%	24.3578%	24.0165%	25.1574%
WHITESIDE HILL	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	60.3399%	56.3037%	53.1403%	57.8233%	53.7222%	55.9497%
WILTON	CCGT_CHP	Actual	Actual	Actual	Actual	Actual	17.1525%	28.2414%	22.7866%	18.6264%	12.7920%	19.5219%
WINDY RIG WIND FARM	Onshore_Wind	Generic	Generic	Actual	Actual	Actual	0.0000%	0.0000%	23.7254%	53.1949%	49.5385%	42.1530%
WINDY STANDARD II	Onshore_Wind	Actual	Actual	Actual	Actual	Actual	53.4476%	52.5437%	44.5141%	49.6262%	45.2934%	49.1544%
WISHAW ENERGY STORAGE FACILITY	Battery	Generic	Generic	Generic	Generic	Partial	0.0000%	0.0000%	0.0000%	0.0000%	5.4489%	4.4086%



Generic Annual Load Factors

Generic ALFs are used to fill in the gaps for a generator if it does not have a full three years' worth of generation history.

Table 2: Draft Generic ALFs for 2025/26

Technology	Generic ALF
Battery	3.8884%
Biomass	42.9869%
CCGT_CHP	42.3027%
Coal	29.0586%
Gas_Oil	0.8252%
Hydro	39.6894%
Nuclear	55.6863%
Offshore_Wind	48.2176%
Onshore_Wind	41.5111%
Pumped_Storage	9.4949%
Reactive_Compensation	0.0000%
Solar	10.8000%
Tidal	13.2000%
Wave	2.9000%

Since there is insufficient actual data available, the Generic ALF values for Wave, Tidal and Solar technologies are taken from the Department of Energy Security & Net Zero publication 'Calculating the level of the Renewables Obligation for 2025 to 2026'¹.

In 2022, we revised our technology categories to include "Reactive Compensation" since it had actual data to include in the calculations. However, there is no active site in the 2023/24 data, so we have kept the previous value which was stable over the last two years. This will remain under review, in particular in the event of any further decision from Ofgem on their current review of the treatment of Synchronous Condensers².

¹ <https://www.gov.uk/government/publications/renewables-obligation-level-calculations-2025-to-2026/calculating-the-level-of-the-renewables-obligation-for-2025-to-2026>

² <https://www.ofgem.gov.uk/publications/call-evidence-correct-regulatory-treatment-assets-dedication-provision-ancillary-services>

2. How are ALFs calculated?





The ALFs Calculation

For each charging year 2019/20 to 2023/24 a Yearly Load Factor has been calculated using the higher of Metered Output (MO), Final Physical Notification (FPN) or zero in each half hour settlement period, divided by the sum of Transmission Entry Capacity (TEC), Short Term TEC (STTEC) and Limited Duration TEC (LDTEC) applicable in the same half hour.

All calculations are in local time, meaning that clock change days have 46 or 50 half hour settlement periods rather than the usual 48. STTEC and LDTEC are daily products, so changes occur at midnight.

ALFs are calculated at station level, so where a station has multiple Balancing Mechanism Units (BMUs) representing generating units, station demand or trading site demand, the MO and FPN will be the aggregate of these.

For cascade hydro schemes, the ALF is calculated at scheme level, so the MO and FPN will be the aggregate of the BMU associated with the scheme. The scheme ALF is applied to each station in the scheme.

We have presented examples below with different scenarios that show how we calculate ALFs based on the number of years of generation data available for that station.

Five years of data

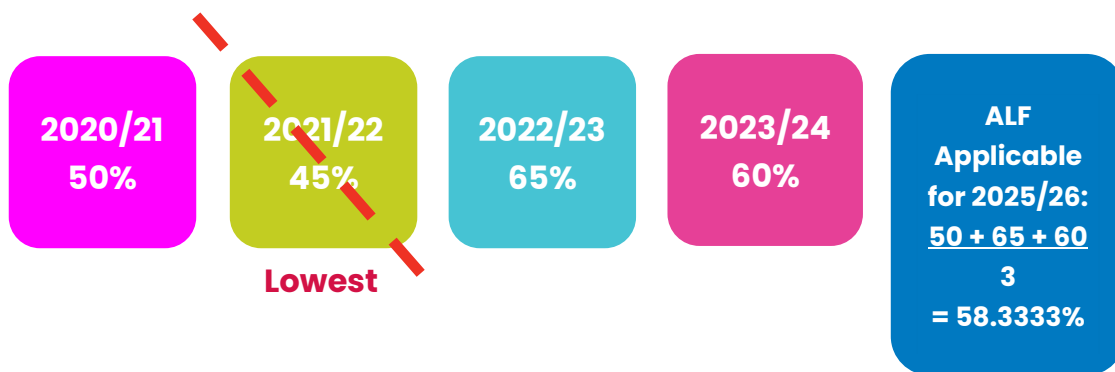
If your station has full ALF data over the past five years, then the highest and lowest years are discounted. Your ALF is then calculated by averaging the output from the remaining three years.



Four years of data

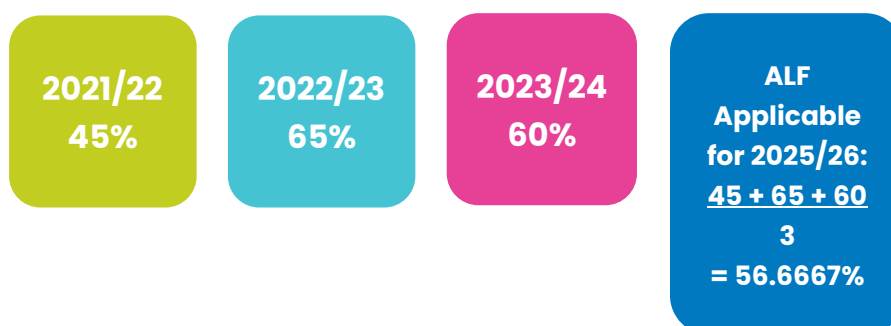
If your station has full ALF data over the past four years, then the lowest year is discounted. Your ALF is then calculated by averaging the output from the remaining three years. If you have four full years and one partial year, the partial year is ignored.

2. How are ALFs calculated?



Three years of data

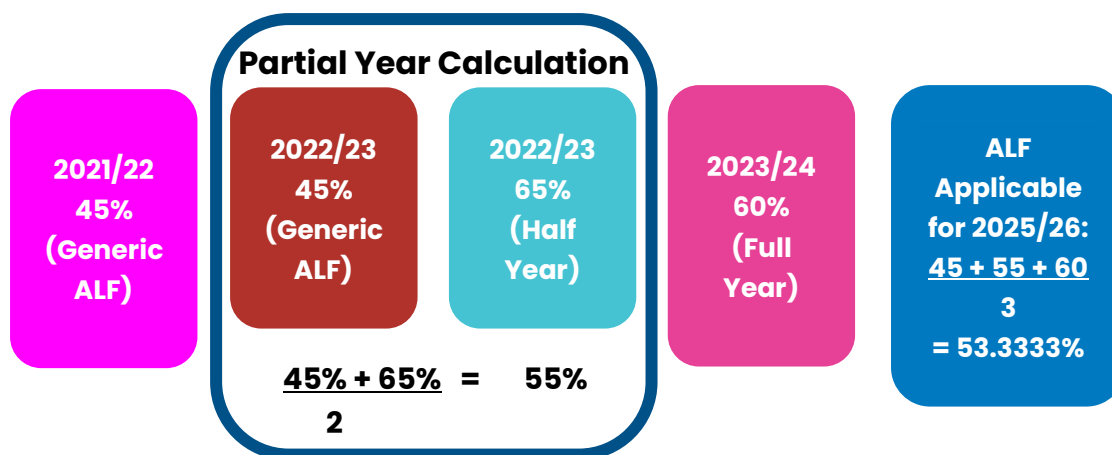
If your station has full ALF data over the past three years, then your ALF is the average of these three years. If you have three full years and one partial year, the partial year is ignored.



Fewer than three years of data

If your station has fewer than three full years of ALF data available, then any full years are used. Any gaps in the generation data from partial years are filled in using the generic ALF for the station's generation type.

In the example below it is assumed that there is half a year of generation data available from 2022/23.



Any years with no data at all are filled in full by the generic ALF until there are at least three years of data available.

Calculation of partial year ALFs

Each partial year ALF is calculated using a combination of actual station data and the generic ALF for the relevant year. This means that the partial year ALF will remain the same for each year that it is used, rather than being updated each year using the most recently calculated ALF.

For new generators, the station specific load factor is calculated from the earliest date on which TEC is held. The generic ALF is used for the period prior to TEC being held to form a 'partial' year of ALF data for that power station.

Commissioning years are determined by referring to Transmission Entry Capacity effective dates, Metered Output and Final Physical Notification data.

Generic ALFs

For a generator with no output data history, the generic ALF for that generation technology type will be used.

Generic ALFs are calculated from the ten most recently commissioned generators from each technology (where available).

2. How are ALFs calculated?



Next Steps

If you have any comments or questions on these ALFs, please get in touch using the contact details below.

Please submit your comments by Friday 20 December. We will publish the final ALFs in January which will then be used in the calculation of TNUoS tariffs for 2025/26.

TNUoS Revenue Team

Email: TNUoS.Queries@nationalenergyso.com

3. Generation Charging Principles





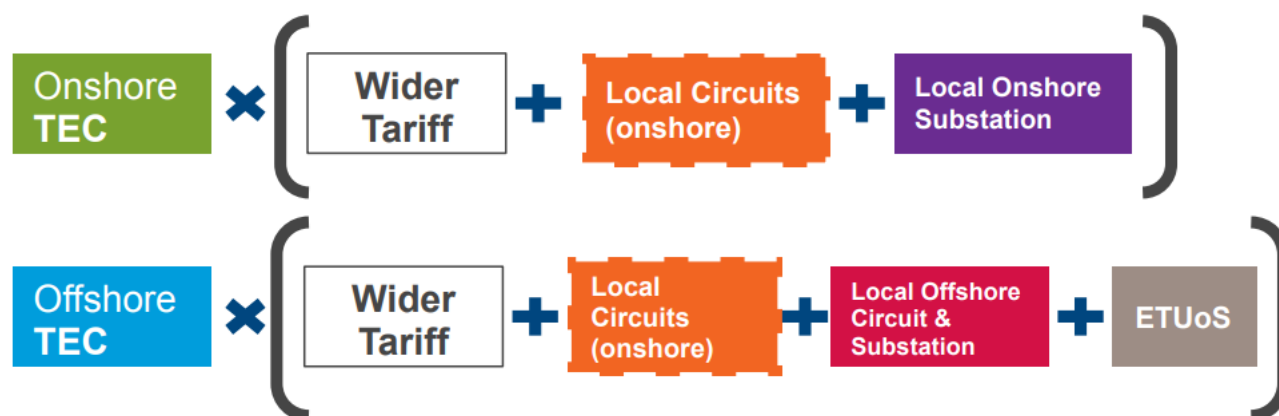
Generation Charging Principles

Transmission Network Use of System Charges (TNUoS) recover the money that GB Transmission Owners (TOs) spend on building, owning and maintaining transmission assets. Generators and suppliers are set charges which differ depending on where in the country they are located, and also by how they use the transmission network. TNUoS tariffs are calculated, set and billed by the National Energy System Operator (NESO), who recover revenue from generators and suppliers and pay it to the TOs.

Generators which pay generation TNUoS will be charged several components, depending on their characteristics. The wider tariff applies differently depending on several factors, and the local elements differ according to the specific arrangements by which the generator is connected to the transmission network.

Different charges may apply to onshore generators compared to offshore generators.

The wider and local components are shown below



All components of TNUoS tariffs are multiplied by the TEC of the generator to calculate the annual TNUoS liability.

There are four factors that affect what charges apply to each generator:

- **TEC:** the amount of capacity (in kW) that the generator can use to connect to the transmission system according to their connection agreement
- **Geographic location:** currently there are 27 generation zones in Great Britain; this determines the wider tariff that applies to the generator.
- **Generator fuel type:** whether a generator is gas-fired, or wind powered, for example, will determine how the wider tariff applies to them. Where a generator is new or recently commissioned and has limited or no data available, a generic ALF is used (dictated by the fuel type).
- **Connection voltage:** generators connecting at 400 kV and 275 kV in England and Wales, or at 400 kV, 275 kV and 132 kV in Scotland are directly connected to the electricity transmission system, and so will be charged TNUoS. Generators connected at lower voltages are embedded, and will pay TNUoS if they have 100 MW or more TEC.



The Wider Tariff

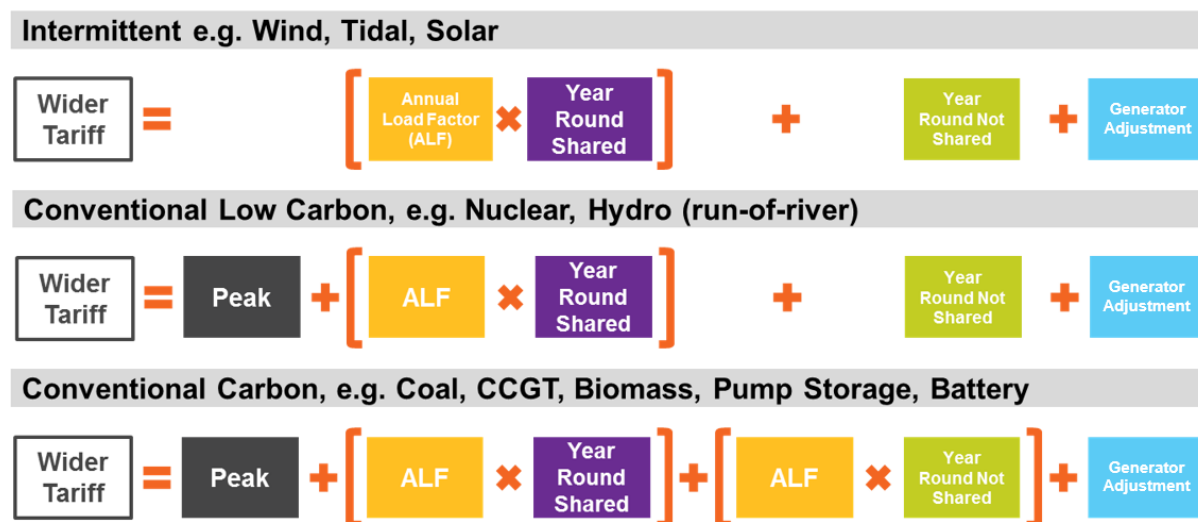
The wider tariff is made up of several parts to reflect the cost of different generator types connecting to the transmission system in different parts of the country.

There are four parts that make up the wider tariff: The **Peak**, **Year Round Shared**, **Year Round Not Shared**, and the **Adjustment**. These apply differently to each generator, depending on the type of generator.

The Peak element is paid only by generators which are designed to run at Peak times. The Year Round Elements are paid by all generators to reflect year round system usage. Depending on the generator classification, some of the Year Round elements are multiplied by the **Annual Load Factor (ALF)** of the generator.

The Adjustment is a non-locational element and so is the same in every zone.

How these components apply to different generators is represented in the diagram below.



Generation classifications

All generators are classified according to how they use the transmission system:

- **Intermittent:** these generators are unable to control when they run, instead they run when their fuel is available. They are unlikely to be near full capacity at peak times.
- **Conventional Low Carbon:** these generators are conventional generators which are designed to be run as baseload, but they are less controllable than other types of generator. This could be because their fuel type dictates when they must run, or because they are very difficult to switch off. They are very likely to be generating at peak times.
- **Conventional Carbon:** these generators are more easily controllable than other generators and can be instructed to increase or decrease their output easily. They will

3. Generation Charging Principles



almost certainly be running at peak times as their flexibility means they can run at times when electricity prices are highest.

Reactive Compensation is currently treated as Storage³, and so is considered to be a Conventional Carbon generator.

Solar, Wave and Tidal would be considered as Intermittent generators.

For more in depth guidance on TNUoS Charging, please visit the NESO [website](#).

³ Pending the conclusion of Ofgem's review of the treatment of Synchronous Condensers:
<https://www.ofgem.gov.uk/publications/call-evidence-correct-regulatory-treatment-assets-dedication-provision-ancillary-services>

4. Document Revision History





Document Revision History

Version Number	Date of Issue	Notes
1.0	29 November 2024	Publication of Draft Annual Load Factors for 2025/26 TNUoS Tariffs

National Energy System Operator
Faraday House
Warwick Technology Park
Gallows Hill
Warwick
CV34 6DA

TNUoS.Queries@nationalenergyso.com

www.neso.energy

