

Annual Load Factors for 2016/17 Generation TNUoS Charges

This information paper contains Annual Load Factors (ALFs) that National Grid will use in the calculation of Generation TNUoS charges from April 2016.

29 January 2016
V1.0

Disclaimer

This report is published without prejudice and whilst every effort has been made to ensure the accuracy of the Annual Load Factors, National Grid reserves the right to alter Annual Load Factors where the methodology is found to have been incorrectly applied.

Contents

1	Introduction	3
2	Changes from the Draft ALFs published 4 December 2015.....	4
3	Approach	5
4	Annual Load Factors	6
5	Generic Annual Load Factors	11
6	Next Steps	12



Any Questions?

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1 Introduction

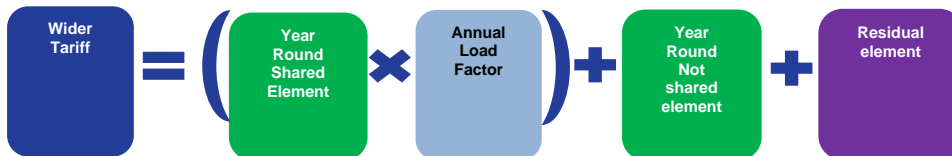
Following Project TransmiT, the Authority's significant code review of electricity transmission charging arrangements, National Grid raised CUSC Modification Proposal 213. The modification makes changes to the Transmission Network Use of System (TNUoS) charging methodology to better reflect the costs imposed by different types of generators on the electricity transmission network. The Authority directed the implementation of CMP213 Working Group Alternative 2 (WACM2) on 25 July 2014. Further details of the modification can be found on the CUSC Modifications area of National Grid's website¹.

Under the new methodology there are still 27 generation zones but each zone now has four tariffs rather than just one. A Generator's liability is dependent upon its type of generation. Generation powered by intermittent sources (e.g. wind, wave, tidal and solar) do not pay the peak security element whereas conventionally powered generation (e.g. fossil, nuclear, biomass, storage and hydro) do. Liability for each tariff component is shown below:

Conventional Generator



Intermittent Generator



Each generator has an Annual Load Factor (ALF) based on its performance over the last five years. Where new plant does not have at least three complete charging year's history then a generic ALF for the technology is used.

¹ <http://www2.nationalgrid.com/UK/Industry-information/Electricity-codes/CUSC/Modifications/CMP213/>

2 Changes from the Draft ALFs

The values in this document supersede the draft Annual Load Factors (ALF) for 2016/17 published on 4 December 2015. Gwynt Y Môr has been changed from onshore wind to offshore wind which increases its specific ALF but reduces the generic ALF for offshore wind. Consequently, the specific ALFs of offshore wind generators commissioned after April 2012 have reduced slightly.

We have also changed Ironbridge from coal to biomass which affects the generic ALFs for coal and biomass. However, we do not expect this change to impact any generators paying generator TNUoS charges in 2016/17.

Generic ALFs for wave and tidal are included based on government figures. We do not expect any generators paying generator TNUoS in 2016/17 to be affected by these but they provide an indication to future generators with these technologies.

3 Approach

ALFs have been calculated using data from 2010/11 to 2014/15, these being the five most recent complete charging years. For each charging year 2010/11 to 2014/15 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, i.e. clock change days have 46 or 50 half hour settlement periods rather than the usual 48. TEC, STTEC and LDTEC are daily products so changes occur at midnight.

The Annual Load Factor (ALF) is the average of three Yearly Load Factors. Where five complete years are available, the highest and lowest Yearly Load Factors are removed and the average is of the remaining three. Where four complete years are available only the lowest is removed. If less than three Yearly Load Factors are available, the generic ALF is used to either complete a year where a generator commissioned mid-year or to provide additional years.

ALF are calculated at station level, so where a station has multiple Balancing Mechanism Units (BMU) 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 are 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.

Generic ALFs are calculated from the ten most recently commissioned generators from each technology where available. Commissioning years have been taken from the Digest of United Kingdom Energy Statistics Table 5.11² but commissioning dates within the last five charging years have been checked against Metered Output and Final Physical Notification data to determine the exact date.

² <https://www.gov.uk/government/publications/electricity-chapter-5-digest-of-united-kingdom-energy-statistics-dukes>

4 Annual Load Factors

Table 1 shows Annual Load Factors (ALF) for generators operating between 2010/11 and 2014/15. New power stations should refer to Table 2 for the generic ALF for their fuel type.

Where a station is listed as a Generic Station it has been used in the calculation of the Generic Annual Load Factor for its technology.

Table 1

Power Station	Technology	Generic Station	Yearly Load Factor Source					Yearly Load Factor Value					Specific ALF
			2010	2011	2012	2013	2014	2010	2011	2012	2013	2014	
Aberthaw	Coal	Yes	Actual	Actual	Actual	Actual	Actual	42.1681%	44.5767%	74.0137%	65.5413%	59.0043%	56.3741%
An Suidhe Wind Farm	Onshore_Wind		Partial	Actual	Actual	Actual	Actual	27.7229%	34.8406%	31.6380%	41.5843%	36.9422%	37.7890%
Arcleoch	Onshore_Wind		Partial	Actual	Actual	Actual	Actual	28.4997%	35.1282%	32.4826%	33.8296%	29.7298%	33.8135%
Baglan Bay	CCGT_and_CHP	Yes	Actual	Actual	Actual	Actual	Actual	75.0152%	61.0787%	27.5756%	16.4106%	37.9194%	42.1913%
Barrow Offshore Wind Ltd	Offshore_Wind	Yes	Generic	Partial	Actual	Actual	Actual	0.0000%	50.9929%	42.8840%	54.1080%	47.0231%	48.0051%
Barry	CCGT_and_CHP		Actual	Actual	Actual	Actual	Actual	20.6262%	8.2014%	0.6999%	1.2989%	0.4003%	3.4001%
Beaully Cascade	Hydro	Yes	Actual	Actual	Actual	Actual	Actual	23.7270%	44.8523%	25.4532%	35.6683%	37.1167%	32.7461%
Black Law	Onshore_Wind	Yes	Actual	Actual	Actual	Actual	Actual	21.8248%	32.5465%	22.0683%	31.9648%	26.7881%	26.9404%
Brimstown	CCGT_and_CHP		Actual	Actual	Actual	Actual	Actual	57.0990%	39.5562%	21.8759%	18.7645%	11.1229%	26.7322%
Carraig Gheal	Onshore_Wind		Generic	Generic	Partial	Actual	Actual	0.0000%	0.0000%	31.8214%	45.2760%	48.9277%	42.0083%
Clunie Scheme	Hydro		Actual	Actual	Actual	Actual	Actual	33.6597%	50.3272%	33.4563%	45.3256%	43.2488%	40.7447%
Clyde (North)	Onshore_Wind		Generic	Generic	Actual	Actual	Actual	0.0000%	0.0000%	28.5345%	42.6598%	36.8882%	36.0275%
Clyde (South)	Onshore_Wind		Generic	Actual	Actual	Actual	Actual	0.0000%	21.1154%	31.6084%	39.8941%	29.4115%	33.6380%
Connahs Quay	CCGT_and_CHP		Actual	Actual	Actual	Actual	Actual	51.0194%	33.6741%	18.5104%	12.8233%	18.3739%	23.5195%
Conon Cascade	Hydro	Yes	Actual	Actual	Actual	Actual	Actual	42.9004%	62.1102%	47.5286%	54.2820%	55.5287%	52.4464%
Corby	CCGT_and_CHP		Actual	Actual	Actual	Actual	Actual	18.2387%	8.1854%	3.4375%	8.0834%	9.6755%	8.6481%
Coryton	CCGT_and_CHP	Yes	Actual	Actual	Actual	Actual	Actual	84.0339%	40.7480%	15.6869%	9.7852%	17.5123%	24.6490%
Cottam	Coal	Yes	Actual	Actual	Actual	Actual	Actual	59.3181%	61.2151%	65.0700%	67.3951%	51.4426%	61.8678%
Cottam Development Centre	CCGT_and_CHP		Actual	Actual	Actual	Actual	Actual	63.9771%	46.0664%	13.7361%	16.0249%	31.3132%	31.1348%
Cowes	Oil_and_OCGT	Yes	Actual	Actual	Actual	Actual	Actual	0.1267%	0.2783%	0.1743%	0.0956%	0.3135%	0.1931%

Power Station	Technology	Generic Station	Yearly Load Factor Source					Yearly Load Factor Value					Specific ALF
			2010	2011	2012	2013	2014	2010	2011	2012	2013	2014	
Cruachan	Pumped_Storage	Yes	Actual	Actual	Actual	Actual	Actual	11.2970%	8.9462%	8.4281%	9.6969%	9.0516%	9.2315%
Crystal Rig II	Onshore_Wind	Yes	Actual	Actual	Actual	Actual	Actual	27.9128%	49.3600%	40.6845%	50.2549%	47.5958%	45.8801%
Damhead Creek	CCGT_and_CHP		Actual	Actual	Actual	Actual	Actual	86.5589%	77.3504%	45.0617%	77.1783%	67.4641%	73.9976%
Deeside	CCGT_and_CHP		Actual	Actual	Actual	Actual	Actual	55.6058%	35.4538%	19.7551%	17.3035%	13.9018%	24.1708%
Didcot B	CCGT_and_CHP		Actual	Actual	Actual	Actual	Actual	73.4424%	56.8079%	49.0134%	18.6624%	25.5345%	43.7853%
Didcot GTs	Oil_and_OCGT	Yes	Actual	Actual	Actual	Actual	Actual	0.0072%	0.1401%	0.0720%	0.0902%	0.2843%	0.1008%
Dinorwig	Pumped_Storage	Yes	Actual	Actual	Actual	Actual	Actual	15.3082%	15.0985%	15.0990%	15.0898%	15.0650%	15.0958%
Drax	Coal	Yes	Actual	Actual	Actual	Actual	Actual	82.0455%	81.1523%	82.4774%	80.5151%	82.2149%	81.8042%
Dungeness B	Nuclear	Yes	Actual	Actual	Actual	Actual	Actual	39.6373%	11.6712%	59.8295%	61.0068%	54.6917%	51.3862%
Dunlaw extension	Onshore_Wind	Yes	Actual	Actual	Actual	Actual	Actual	34.6421%	37.7664%	32.3771%	34.8226%	30.0797%	33.9472%
Edinbane Wind	Onshore_Wind	Yes	Actual	Actual	Actual	Actual	Actual	29.0483%	52.8496%	29.3933%	39.4785%	31.2458%	33.3725%
Eggborough	Coal	Yes	Actual	Actual	Actual	Actual	Actual	25.4194%	41.4851%	72.6884%	72.1843%	45.7421%	53.1372%
Errochty	Hydro	Yes	Actual	Actual	Actual	Actual	Actual	17.0180%	25.1643%	14.5869%	28.2628%	25.3585%	22.5136%
Fallago	Onshore_Wind		Generic	Generic	Partial	Actual	Actual	0.0000%	0.0000%	34.8914%	54.8683%	44.7267%	44.8288%
Farr Windfarm Tomatin	Onshore_Wind	Yes	Actual	Actual	Actual	Actual	Actual	30.4445%	43.3953%	34.0149%	44.7212%	38.5712%	38.6604%
Fasnakyle G1 & G3	Hydro	Yes	Actual	Actual	Actual	Actual	Actual	19.7278%	39.9896%	22.1176%	35.3695%	57.4834%	32.4922%
Fawley	Oil_and_OCGT	Yes	Actual	Actual	Actual	Actual	Actual	0.3133%	0.2192%	0.2024%	0.0821%	0.0400%	0.1679%
Fawley CHP	CCGT_and_CHP		Actual	Actual	Actual	Actual	Actual	69.0226%	71.5686%	61.1362%	63.3619%	72.8484%	67.9844%
Ferrybridge B	Coal	Yes	Actual	Actual	Actual	Actual	Actual	36.5904%	50.2631%	59.1851%	48.8918%	25.1499%	45.2484%
Ffestiniog	Pumped_Storage	Yes	Actual	Actual	Actual	Actual	Actual	3.0731%	3.3676%	2.9286%	5.4631%	4.3251%	3.5886%
Fiddlers Ferry	Coal	Yes	Actual	Actual	Actual	Actual	Actual	46.7146%	52.0973%	61.6386%	49.0374%	45.2435%	49.2831%
Finlarig	Hydro	Yes	Actual	Actual	Actual	Actual	Actual	50.0484%	67.9805%	40.2952%	59.9142%	59.4092%	56.4573%
Foyers	Pumped_Storage	Yes	Actual	Actual	Actual	Actual	Actual	17.9834%	18.9885%	13.4800%	14.7097%	12.3048%	15.3910%
Garry Cascade	Hydro	Yes	Actual	Actual	Actual	Actual	Actual	32.5155%	70.4039%	48.5993%	55.9308%	64.3828%	56.3043%
Glandford Brigg	CCGT_and_CHP		Actual	Actual	Actual	Actual	Actual	11.3147%	0.9617%	0.3336%	1.5673%	0.5401%	1.0230%
Glendoe	Hydro	Yes	Actual	Actual	Actual	Actual	Actual	0.0000%	0.0000%	17.3350%	36.3802%	32.3494%	16.5615%
Glenmoriston	Hydro	Yes	Actual	Actual	Actual	Actual	Actual	28.3321%	58.0412%	36.3045%	44.4594%	48.7487%	43.1709%
Gordonbush	Onshore_Wind		Generic	Partial	Actual	Actual	Actual	0.0000%	32.9384%	37.8930%	46.5594%	47.7981%	44.0835%
Grain	CCGT_and_CHP	Yes	Actual	Actual	Actual	Actual	Actual	18.2091%	29.4910%	25.4580%	41.3833%	44.0031%	32.1108%

Power Station	Technology	Generic Station	Yearly Load Factor Source					Yearly Load Factor Value					Specific ALF
			2010	2011	2012	2013	2014	2010	2011	2012	2013	2014	
Grangemouth	CCGT_and_CHP	Yes	Actual	Actual	Actual	Actual	Actual	66.2697%	67.5783%	52.8594%	55.9047%	62.6168%	61.5971%
Great Yarmouth	CCGT_and_CHP	Yes	Actual	Actual	Actual	Actual	Actual	76.2183%	45.0785%	19.0270%	20.7409%	18.6633%	28.2821%
Greater Gabbard Offshore Wind Farm	Offshore_Wind	Yes	Partial	Actual	Actual	Actual	Actual	35.1899%	17.8601%	40.1778%	48.3038%	42.1327%	43.5381%
Griffin Wind	Onshore_Wind		Generic	Partial	Actual	Actual	Actual	0.0000%	13.9399%	17.9885%	31.9566%	31.3152%	27.0867%
Gunfleet Sands I	Offshore_Wind	Yes	Actual	Actual	Actual	Actual	Actual	38.1775%	43.7552%	50.1496%	56.6472%	47.0132%	46.9727%
Gunfleet Sands II	Offshore_Wind	Yes	Actual	Actual	Actual	Actual	Actual	41.0784%	41.4244%	45.0132%	52.2361%	44.7211%	43.7196%
Gwynt y Mor	Offshore_Wind	Yes	Generic	Generic	Partial	Actual	Actual	0.0000%	0.0000%	17.8843%	8.0036%	61.6185%	29.1688%
Hadyard Hill	Onshore_Wind	Yes	Actual	Actual	Actual	Actual	Actual	23.8131%	38.9802%	27.6927%	31.9488%	27.7635%	29.1350%
Harestanes	Onshore_Wind		Generic	Generic	Generic	Partial	Actual	0.0000%	0.0000%	0.0000%	23.3480%	28.6355%	29.5726%
Hartlepool	Nuclear	Yes	Actual	Actual	Actual	Actual	Actual	79.3759%	71.1712%	80.2632%	73.7557%	56.2803%	74.7676%
Heysham	Nuclear	Yes	Actual	Actual	Actual	Actual	Actual	58.1497%	83.7012%	83.3828%	73.3628%	68.8252%	75.1903%
Hinkley Point B	Nuclear	Yes	Actual	Actual	Actual	Actual	Actual	65.3580%	56.9291%	61.7582%	68.8664%	70.1411%	65.3275%
Hunterston	Nuclear	Yes	Actual	Actual	Actual	Actual	Actual	73.4059%	75.3474%	73.5984%	84.7953%	79.1368%	76.0275%
Immingham	CCGT_and_CHP	Yes	Actual	Actual	Actual	Actual	Actual	55.5560%	73.3041%	50.1793%	37.8219%	56.8316%	54.1890%
Indian Queens	Oil_and_OCGT	Yes	Actual	Actual	Actual	Actual	Actual	0.7122%	1.3382%	0.3423%	0.2321%	0.0876%	0.4289%
Keadby	CCGT_and_CHP		Actual	Actual	Actual	Actual	Generic	60.4703%	49.8412%	4.6125%	0.0001%	0.0000%	38.3080%
Kilbraur	Onshore_Wind	Yes	Actual	Actual	Actual	Actual	Actual	35.3544%	45.1817%	45.2306%	51.3777%	54.3550%	47.2633%
Killin Cascade	Hydro	Yes	Actual	Actual	Actual	Actual	Actual	25.4645%	53.0410%	32.3429%	45.5356%	44.8205%	40.8997%
Killingholme (NP)	CCGT_and_CHP		Actual	Actual	Actual	Actual	Actual	16.0550%	10.3057%	10.6552%	7.4217%	11.6191%	10.8600%
Killingholme (Powergen)	CCGT_and_CHP		Actual	Actual	Actual	Actual	Actual	23.7875%	7.2577%	3.0933%	1.7383%	3.7863%	4.7124%
Kings Lynn A	CCGT_and_CHP		Actual	Actual	Actual	Actual	Actual	34.3620%	15.6080%	0.0003%	0.0000%	0.0000%	5.2027%
Langage	CCGT_and_CHP	Yes	Actual	Actual	Actual	Actual	Actual	74.0119%	60.7905%	41.9115%	40.8749%	34.8629%	47.8589%
Lincs Wind Farm	Offshore_Wind	Yes	Generic	Generic	Partial	Actual	Actual	0.0000%	0.0000%	19.4667%	46.5987%	43.8178%	36.6277%
Little Barford	CCGT_and_CHP		Actual	Actual	Actual	Actual	Actual	84.4222%	11.8210%	16.3807%	33.6286%	49.6644%	33.2246%
Littlebrook D	Oil_and_OCGT	Yes	Actual	Actual	Actual	Actual	Actual	0.3282%	0.1055%	0.0588%	0.0201%	0.1394%	0.1013%
Lochluichart	Onshore_Wind		Generic	Generic	Generic	Partial	Actual	0.0000%	0.0000%	0.0000%	26.5290%	20.2103%	27.8246%
London Array	Offshore_Wind	Yes	Generic	Generic	Partial	Actual	Actual	0.0000%	0.0000%	37.5157%	51.2703%	64.0880%	50.9580%
Longannet	Coal	Yes	Actual	Actual	Actual	Actual	Actual	56.2206%	47.9712%	52.1025%	56.8761%	56.4764%	54.9332%
Marchwood	CCGT_and_CHP	Yes	Actual	Actual	Actual	Actual	Actual	84.3291%	66.1953%	43.3537%	48.6845%	66.4021%	60.4273%

Power Station	Technology	Generic Station	Yearly Load Factor Source					Yearly Load Factor Value					Specific ALF
			2010	2011	2012	2013	2014	2010	2011	2012	2013	2014	
Mark Hill	Onshore_Wind		Generic	Actual	Actual	Actual	Actual	0.0000%	26.3795%	30.1675%	30.2863%	26.7942%	29.0827%
Medway	CCGT_and_CHP		Actual	Actual	Actual	Actual	Actual	67.0026%	42.4273%	1.0718%	14.5545%	28.0962%	28.3594%
Millennium	Onshore_Wind	Yes	Actual	Actual	Actual	Actual	Actual	32.8403%	47.2065%	42.1318%	52.6618%	53.2636%	47.3334%
Nant	Hydro	Yes	Actual	Actual	Actual	Actual	Actual	22.6503%	42.4480%	20.8965%	35.5883%	36.4040%	31.5476%
Ormonde	Offshore_Wind	Yes	Generic	Generic	Partial	Actual	Actual	0.0000%	0.0000%	48.1433%	49.6561%	42.8711%	46.8902%
Pembroke	CCGT_and_CHP		Generic	Generic	Actual	Actual	Actual	0.0000%	0.0000%	61.5434%	60.3928%	67.5346%	63.1569%
Peterborough	CCGT_and_CHP		Actual	Actual	Actual	Actual	Actual	19.5921%	3.4546%	0.9506%	1.8311%	1.0929%	2.1262%
Peterhead	CCGT_and_CHP		Actual	Actual	Actual	Actual	Actual	52.3771%	66.1917%	31.3766%	41.8811%	0.4858%	41.8783%
Ratcliffe-on-Soar	Coal	Yes	Actual	Actual	Actual	Actual	Actual	53.1708%	53.5677%	66.7461%	71.7403%	56.1767%	58.8302%
Robin Rigg East	Offshore_Wind	Yes	Partial	Actual	Actual	Actual	Actual	45.6091%	41.4118%	37.4157%	46.7562%	55.3209%	47.8296%
Robin Rigg West	Offshore_Wind	Yes	Partial	Actual	Actual	Actual	Actual	45.7112%	44.4918%	38.2254%	48.0629%	53.4150%	48.6565%
Rocksavage	CCGT_and_CHP		Actual	Actual	Actual	Actual	Actual	55.9818%	47.7376%	41.4820%	2.6155%	4.4252%	31.2149%
Roosecote	CCGT_and_CHP		Actual	Actual	Actual	Actual	Actual	21.2259%	9.3939%	0.0121%	0.0000%	0.0000%	3.1353%
Rugeley B	Coal	Yes	Actual	Actual	Actual	Actual	Actual	50.2059%	53.2455%	68.6109%	82.6505%	59.4472%	60.4345%
Rye House	CCGT_and_CHP		Actual	Actual	Actual	Actual	Actual	40.3688%	20.4253%	10.7188%	7.4695%	5.3701%	12.8712%
Saltend	CCGT_and_CHP		Actual	Actual	Actual	Actual	Actual	89.0335%	90.6801%	81.5834%	69.0062%	67.9518%	79.8744%
Seabank	CCGT_and_CHP		Actual	Actual	Actual	Actual	Actual	72.4476%	34.5669%	15.2311%	18.2781%	25.6956%	26.1802%
Sellafield	CCGT_and_CHP		Actual	Actual	Actual	Actual	Actual	18.9905%	4.1046%	14.0549%	25.0221%	18.9719%	17.3391%
Severn Power	CCGT_and_CHP		Partial	Actual	Actual	Actual	Actual	53.7190%	32.2421%	27.7976%	32.4163%	24.6354%	30.8187%
Sheringham Shoal	Offshore_Wind	Yes	Generic	Partial	Actual	Actual	Actual	0.0000%	18.9161%	36.6431%	49.3517%	46.2286%	44.0744%
Shoreham	CCGT_and_CHP		Actual	Actual	Actual	Actual	Actual	70.9592%	65.7100%	0.0000%	20.7501%	10.2239%	32.2280%
Sizewell B	Nuclear	Yes	Actual	Actual	Actual	Actual	Actual	49.0352%	77.3818%	96.7260%	82.5051%	84.7924%	81.5598%
Sloy G2 & G3	Hydro		Actual	Actual	Actual	Actual	Actual	9.0965%	15.0995%	9.1252%	14.3471%	15.5941%	12.8573%
South Humber Bank	CCGT_and_CHP		Actual	Actual	Actual	Actual	Actual	70.2595%	33.8760%	27.9763%	24.3373%	34.4673%	32.1065%
Spalding	CCGT_and_CHP	Yes	Actual	Actual	Actual	Actual	Actual	63.5046%	65.1849%	34.6976%	33.4800%	39.3092%	45.8371%
Staythorpe	CCGT_and_CHP	Yes	Actual	Actual	Actual	Actual	Actual	51.3069%	58.4594%	54.4117%	37.6216%	56.6148%	54.1112%
Sutton Bridge	CCGT_and_CHP		Actual	Actual	Actual	Actual	Actual	34.5042%	64.8794%	20.1652%	9.4124%	17.2025%	23.9573%
Taylors Lane	Oil_and_OCGT	Yes	Actual	Actual	Actual	Actual	Actual	0.3131%	0.1048%	0.2037%	0.0483%	0.0640%	0.1242%
Thanet Offshore Wind Farm	Offshore_Wind	Yes	Partial	Actual	Actual	Actual	Actual	32.7499%	32.4868%	41.1093%	39.7489%	35.5935%	38.8172%

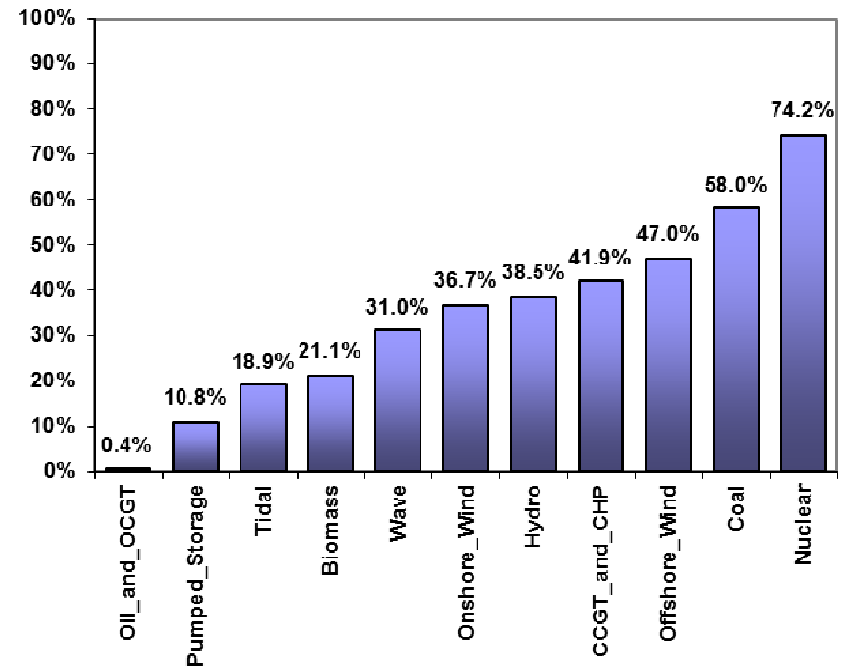
Power Station	Technology	Generic Station	Yearly Load Factor Source					Yearly Load Factor Value					Specific ALF
			2010	2011	2012	2013	2014	2010	2011	2012	2013	2014	
Toddleburn	Onshore_Wind	Yes	Actual	Actual	Actual	Actual	Actual	28.9787%	38.1923%	32.7175%	39.5374%	33.7211%	34.8770%
Torness	Nuclear	Yes	Actual	Actual	Actual	Actual	Actual	76.6401%	90.0662%	84.8669%	86.4669%	91.4945%	87.1333%
Uskmouth	COAL		Actual	Actual	Actual	Actual	Partial	12.6458%	19.2655%	45.1938%	38.9899%	46.9429%	34.4831%
Walney I	Offshore_Wind	Yes	Generic	Actual	Actual	Actual	Actual	0.0000%	45.6003%	44.2799%	57.7046%	52.0555%	51.7868%
Walney II	Offshore_Wind	Yes	Generic	Generic	Partial	Actual	Actual	0.0000%	0.0000%	53.4937%	61.9219%	58.2355%	57.8837%
West Burton	Coal	Yes	Actual	Actual	Actual	Actual	Actual	38.2764%	44.5447%	70.5868%	68.9176%	61.5364%	58.3329%
West Burton B	CCGT_and_CHP		Generic	Generic	Partial	Actual	Actual	0.0000%	0.0000%	21.1178%	30.3021%	46.8421%	32.7540%
West of Duddon Sands Offshore Wind Farm	Offshore_Wind		Generic	Generic	Generic	Partial	Actual	0.0000%	0.0000%	0.0000%	38.4711%	40.0506%	41.8272%
Westermost Rough	Offshore_Wind		Generic	Generic	Generic	Generic	Partial	0.0000%	0.0000%	0.0000%	0.0000%	26.2899%	40.0700%
Whitelee	Onshore_Wind	Yes	Actual	Actual	Actual	Actual	Actual	24.7528%	31.7670%	28.2265%	35.1074%	29.8105%	29.9346%
Whitelee Extension	Onshore_Wind		Generic	Generic	Actual	Actual	Actual	0.0000%	0.0000%	12.4146%	27.0102%	27.7787%	22.4011%
Wilton	CCGT_and_CHP	Yes	Actual	Actual	Actual	Actual	Actual	11.7767%	12.6949%	3.4258%	4.4941%	21.5867%	9.6552%
Wylfa	Nuclear	Yes	Actual	Actual	Actual	Actual	Actual	84.7281%	79.4968%	60.0463%	84.4883%	83.5566%	82.5139%

5 Generic Annual Load Factors

Table 2 shows Generic ALFs for each generation technology. Generic ALFs are used to calculate Yearly Load Factors of power stations with less than three complete charging years of data and Annual Load Factors of generators commissioning during 2015/16 or 2016/17.

Table 2

Technology	Generic ALF	Intermittent/ Conventional	Carbon/ Low Carbon
Oil_and_OCGT	0.3854%	Conventional	Carbon
Pumped_Storage	10.8267%	Conventional	Carbon
Tidal	18.9000%	Intermittent	Low Carbon
Biomass	21.1387%	Conventional	Carbon
Wave	31.0000%	Intermittent	Low Carbon
Onshore_Wind	36.7344%	Intermittent	Low Carbon
Hydro	38.5139%	Conventional	Low Carbon
CCGT_and_CHP	41.9008%	Conventional	Carbon
Offshore_Wind	46.9601%	Intermittent	Low Carbon
Coal	58.0245%	Conventional	Carbon
Nuclear	74.2383%	Conventional	Low Carbon



6 Next Steps

The ALFs in this document will be included in the annual Statement of Use of System Charges effective 1 April 2016. If you have queries on how they were calculated please contact either Stuart Boyle or Paul Wakeley using the contact details on page two.