

Consultation on discounts, multipliers, and seasonal factors

on the basis of Article 28 of Commission Regulation (EU) 2017/460 of 16 March 2017 establishing a network code on harmonised transmission tariff structures for gas

Annex 1

Determination of seasonal factors

Consultation document

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Determination of seasonal factors in line with Article 15 of Commission Regulation (EU) 2017/460

of 16 March 2017 establishing a network code on harmonised transmission tariff structures for gas

Calculation parameters

	Values
Multipliers for quarterly standard capacity products	1.4
Multipliers for monthly standard capacity products (max 1.5)	1.5
Multipliers for daily standard capacity products (max 3)	3
Multipliers for the within-day standard capacity products (max 3)	3
Power E ($0 \leq E \leq 2$)	1.5

Average hourly allocation for each month [kWh]

Gas month	Year				
	2014	2015	2016	2017	2018*
January	2,486,863	2,821,680	3,500,363	4,116,952	1,938,809
February	2,342,932	2,938,984	3,117,740	3,555,490	2,422,655
March	1,906,810	2,377,780	3,048,178	2,784,432	2,145,703
April	1,889,696	1,836,990	2,431,678	2,454,215	1,284,763
May	1,656,323	1,730,780	1,956,985	2,236,618	1,117,768
June	1,800,782	1,715,589	2,078,140	2,374,954	1,045,506
July	1,869,861	1,822,829	1,355,157	2,511,864	953,024
August	1,878,408	1,349,329	1,943,557	2,643,421	941,551
September	2,102,434	1,806,583	2,331,035	2,421,504	1,051,705
October	2,415,251	2,572,761	2,935,682	1,819,173	1,223,645
November	2,708,024	2,925,144	3,327,375	1,938,760	1,568,610
December	2,955,219	3,614,890	3,577,382	2,435,288	1,775,923
Average	2,167,717	2,292,778	2,633,606	2,607,723	1,455,805

* part of data for 2018 determined on the basis of forecasted flows.

The prescribed calculation procedure in line with Article 15 (paragraph from 2 to 5)

Note: The procedure for calculating seasonal factors for monthly standard capacity products for firm capacity for 2019 is based on the forecasted flows

Article 15 (3) points a & b

- (a) "the average data on the forecasted flows or the forecasted contracted capacity,
where the seasonal factors are calculated for some or all of the interconnection points"
- (b) the resulting values referred to in point (a) shall be summed up"

Gas month	Forecasted average hourly gas flow in 2019 [kWh]
January	2,093,914
February	2,083,484
March	2,038,418
April	1,284,763
May	1,101,002
June	1,029,824
July	938,729
August	927,427
September	1,035,929
October	1,223,645
November	1,607,825
December	1,989,033
Sum	17,353,994

Article 15 (3) point c

"the usage rate shall be calculated by dividing each of the resulting values referred to in point (a) by the resulting value referred to in point (b);

Gas month	The usage rate	Correction of the usage rate In case the value is 0
January	0.121	0.121
February	0.120	0.120
March	0.117	0.117
April	0.074	0.074
May	0.063	0.063
June	0.059	0.059
July	0.054	0.054
August	0.053	0.053
September	0.060	0.060
October	0.071	0.071
November	0.093	0.093
December	0.115	0.115

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Article 15(3) point d

"each of the resulting values referred to in point (c) shall be multiplied by 12. Where the resulting values are equal to 0, these values shall be adjusted to whichever of the following is the lower: 0,1 or the lowest of the resulting values other than 0"

Gas month	The usage rate x 12
January	1.448
February	1.441
March	1.410
April	0.888
May	0.761
June	0.712
July	0.649
August	0.641
September	0.716
October	0.846
November	1.112
December	1.375

Article 15(3) point e

"the initial level of the respective seasonal factors shall be calculated by raising each of the resulting values referred to in point (d) to the same power which is no less than 0 and no more than 2"

Gas month	Seasonal factor
January	1.742
February	1.729
March	1.673
April	0.837
May	0.664
June	0.601
July	0.523
August	0.514
September	0.606
October	0.778
November	1.172
December	1.613

Article 15(3) point f

"the arithmetic mean of the products of the resulting values referred to in point (e) and the multiplier for monthly standard capacity products shall be calculated"

Gas month	The initial level of a seasonal factor x multiplier		
	Monthly	Daily	Within-day
January	2.613	5.227	5.227
February	2.594	5.188	5.188
March	2.510	5.020	5.020
April	1.256	2.512	2.512
May	0.996	1.993	1.993
June	0.901	1.803	1.803
July	0.784	1.569	1.569
August	0.770	1.541	1.541
September	0.909	1.819	1.819
October	1.167	2.335	2.335
November	1.758	3.517	3.517
December	2.420	4.839	4.839
Average	1.557	3.113	3.113

Article 15(3) point g

"the resulting value referred to in point (f) shall be compared with the range referred to in Article 13(1), as follows:

(i) if this value falls within this range then the level of seasonal factors shall be equal to with the respective resulting values referred to in point (e); (ii) if this value falls outside of this range then point (h) shall apply"

Article 15(3) point h

"the level of seasonal factors shall be calculated as the product of the respective resulting values referred to in point (e) and the correction factor calculated as follows:

i) where the resulting value referred to in point (f) is more than 1.5, the correction factor shall be calculated as 1.5 divided by this value; ii) where the resulting value referred to in point (f) is less than 1, the correction factor shall be calculated as 1 divided by this value."

	Monthly	Daily	Within-day
Correction factor	0.964	0.964	0.964

Gas month	Seasonal factor		
	Monthly	Daily	Within-day
January	1.679	1.679	1.679
February	1.666	1.666	1.666
March	1.612	1.612	1.612
April	0.807	0.807	0.807
May	0.640	0.640	0.640
June	0.579	0.579	0.579
July	0.504	0.504	0.504
August	0.495	0.495	0.495
September	0.584	0.584	0.584
October	0.750	0.750	0.750
November	1.130	1.130	1.130
December	1.554	1.554	1.554

Article 15(4)

"For daily standard capacity products for firm capacity and within-day standard capacity products for firm capacity, the seasonal factors shall be calculated by carrying out the steps set out in paragraph 3(f) to (h), mutatis mutandis."

**Determination of seasonal factors in line with Article 15
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Article 15(5)

“For quarterly standard capacity products for firm capacity, the seasonal factors shall be calculated in sequential steps as follows:

(a) the initial level of the respective seasonal factors shall be calculated as either of the following:

(i) equal to the arithmetic mean of the respective seasonal factors applicable for the three relevant months;

(ii) (ii) no less than the lowest and no more than the highest level of the respective seasonal factors applicable for the three relevant months.”

“(b) the steps set out in paragraph 3(f) to (h) shall be carried out, using the resulting values referred to in point (a), mutatis mutandis.”

(i) Arithmetic mean

(ii) Minimum \leq seasonal factor \leq maximum

Gas quarter	Seasonal factor	Seasonal factor _{minimum}	Seasonal factor _{maximum}
Q2	1.652	1.612	1.679
Q3	0.675	0.579	0.807
Q4	0.528	0.495	0.584
Q1	1.145	0.750	1.554

Article 15(6)

“For all non-yearly standard capacity products for firm capacity, the values resulting from the calculation referred to in paragraphs 3 to 5 may be rounded up or down.”

Gas month	Forecasted average hourly gas flow in 2019 [kWh]	Seasonal factor			
		Quarterly	Monthly	Daily	Within-day
January	2,093,914	1.652	1.679	1.679	1.679
February	2,083,484	1.652	1.666	1.666	1.666
March	2,038,418	1.652	1.612	1.612	1.612
April	1,284,763	0.675	0.807	0.807	0.807
May	1,101,002	0.675	0.640	0.640	0.640
June	1,029,824	0.675	0.579	0.579	0.579
July	938,729	0.528	0.504	0.504	0.504
August	927,427	0.528	0.495	0.495	0.495
September	1,035,929	0.528	0.584	0.584	0.584
October	1,223,645	1.145	0.750	0.750	0.750
November	1,607,825	1.145	1.130	1.130	1.130
December	1,989,033	1.145	1.554	1.554	1.554