

Corrigenda

to

ACER/CEER ANNUAL REPORT ON THE RESULTS OF MONITORING THE INTERNAL ELECTRICITY AND NATURAL GAS MARKETS IN 2019

Electricity Wholesale Markets Volume

Document history

Version	Comment	Date
1	Original version.	21 October 2020
1.1	Corrigendum.	26 November 2020
	The corrigendum rectifies:	
	• the label and source of Figure ii on page 13,	
	• the y-axis in Figure 5 on page 21,	
	• the values corresponding to "Moderate price convergence (1- 10 euros/MWh diff.)" and "Low price convergence (>10 euros/MWh diff.)" in Figure 8 on page 24,	
	• the y-axis in Figure 17 on page 37,	
	• the values corresponding to Belgium in Table 4 on page 60,	
	• the caption and label of Figure 42 on page 63,	
	• the caption of Figure 48 on page 71.	
	All changes are set out below.	
1.2	Corrigendum. Revised version 1.2 of the Report is available at: <u>https://www.acer.europa.eu/Official_documents/Acts_of_the_Agenc</u> <u>y/Publication/ACER% 20Market% 20Monitoring% 20Report% 202019</u> <u>% 20-% 20Electricity% 20Wholesale% 20Markets% 20Volume.pdf</u>	12 February 2021
	This corrigendum rectifies:	
	• footnote 14 on page 12,	
	• the colour corresponding to Croatia in Figure 1 on page 19,	
	• the y-axis name and the caption of Figures 31 and 32 on page 52,	
	• the text corresponding to GB and SEM in Figure 36 on page 57,	





• the note applying to Figure 37 and Figure 38 on page 58,
• the values corresponding to Denmark in Table 4 on page 60,
• the part of the note corresponding to Denmark under Table 4 on page 60,
• the last two values in the fifth and six columns and the last value in the seventh column in Table 7 on page 67, and
• adds a note under Figure 13 on page 31.
In addition, several minor changes in wording and document structure are included.
All changes are set out below.

Changes from Original to Corrigendum version (February 2021)

The change (indicated in *italics*) introduced vis-à-vis version 1 is presented below by heading number and title of version 1. Some changes are shown by presenting directly the figures and tables.

Foreword

The third subheading on page 6 has been changed as follows:

Version 1	Corrigendum 1.2
	"Electricity prices for household and industrial consumers throughout Europe increased in 2019"

Executive Summary

Paragraph 16 on page 9 has been changed as follows:

Version 1	Corrigendum 1.2
"More room for improvement remains in balancing timeframe, with a level of efficiency of 23% in 2019. ACER recently approved a large number of decisions that set out the rules for integrating EU balancing markets and enable transmission system operators (TSOs) to move to the implementation phase of various balancing market integration projects."	"More room for improvement remains in <i>the</i> balancing timeframe, with a level of efficiency of 23% in 2019. ACER recently approved a large number of decisions that set out the rules for integrating EU balancing markets and enable transmission system operators (TSOs) to move to the implementation phase of various <i>pan-EU</i> balancing platform projects."



The third sentence in paragraph 36 on page 12 has been changed as follows:

Version 1	Corrigendum 1.2
	"ACER plays a crucial role in this respect, as it <i>approves</i> the methodologies underlying this assessment and <i>monitors</i> correct implementation."

Paragraph 37 on page 12 has been changed as follows:

Version 1	Corrigendum 1.2
"While ensuring security of supply is a national competence and capacity mechanisms (CMs) may contribute to ensuring such security, the CEP stipulates that CMs should only be implemented following a robust and realistic adequacy assessment and as a measure of last- resort."	CEP stipulates that CMs should only be implemented following a robust and realistic

Footnote 14 on page 12 has been changed as follows:

Version 1	Corrigendum 1.2
"ACER shall approve the methodologies submitted by ENTSO-E for the European resource adequacy assessment and for calculating the value of lost load, the cost of new entry and the reliability standard before the end of 2020."	

The label and source of Figure ii on page 13 have been changed as follows:

Version 1	Corrigendum 1.1
"CM operational – no national adequacy issues in MAF"	"CM <i>adopted</i> – no national adequacy issues in MAF"
"Source: ACER."	"Source: ACER based on ENTSO-E's 2019 MAF."

Recommendations

Item 7 in paragraph 45 on page 15 has been changed as follows:

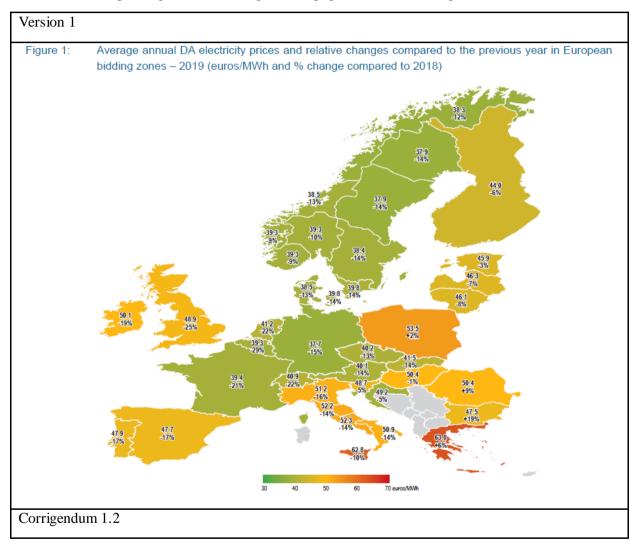
Version 1	Corrigendum 1.2



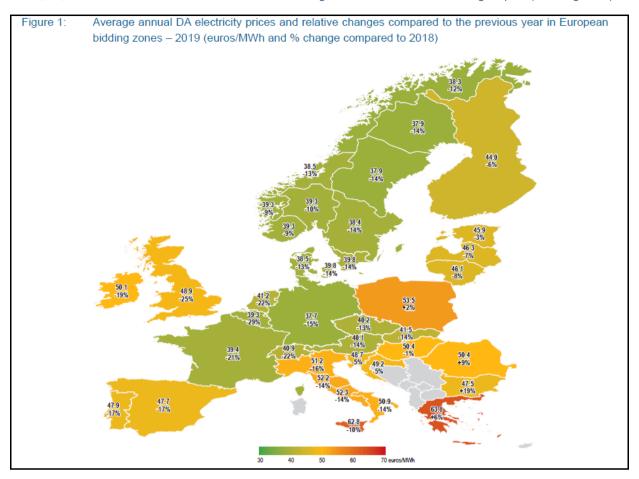
"Implement pan-European intraday auctions for	"Implement pan-European intraday auctions for
pricing cross-zonal capacity in line with the	pricing cross-zonal capacity in line with ACER's
ACER's decision 01/2019, in order to ensure a	decision 01/2019, in order to ensure a more
more efficient use and the pricing of cross-zonal	efficient use and pricing of cross-zonal capacity
capacity closer to real time."	closer to real time."

2.1 Evolution of prices

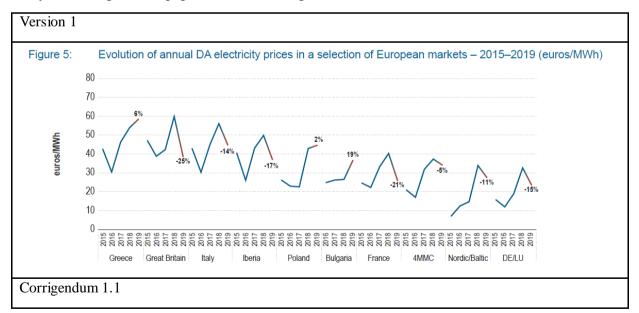
The colour corresponding to Croatia in Figure 1 on page 19 has been changed as follows:





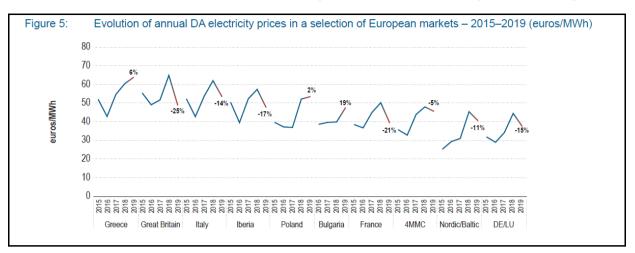


The y-axis of Figure 5 on page 21 has been changed as follows:



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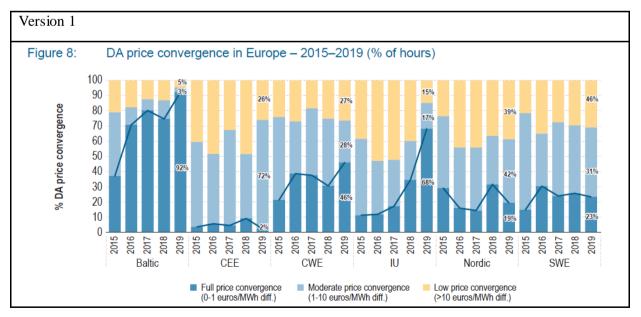


2.3 Price convergence

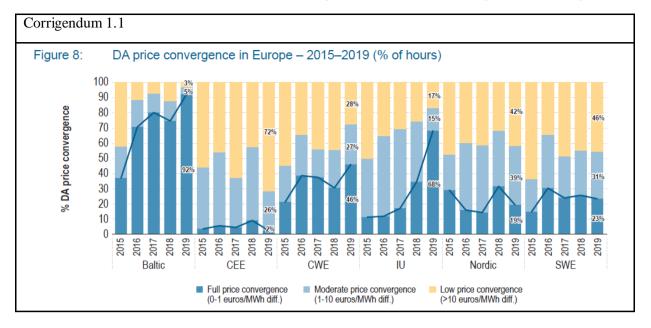
Footnote 45 on page 23 has been changed as follows:

Version 1	Corrigendum 1.2
	interested in paying a certain amount of money for producing, as long as this amount is lower
than the subsidy."	than the subsidy <i>that they receive</i> ."

The values corresponding to "Moderate price convergence (1-10 euros/MWh diff.)" and "Low price convergence (>10 euros/MWh diff.)" in Figure 8 on page 24 have been changed as follows:







The second sentence in paragraph 83 on page 24 has been changed as follows:

Version 1	Corrigendum 1.2
especially in the CEE region, where the	"However, there is still room for improvement, especially in the CEE region, where the implementation of market coupling is still pending."

3.2 Evolution of capacity on borders where flow-based capacity calculation applies (CWE region)

A note has been added under Figure 13 on page 31:

Version 1	Corrigendum 1.2
	"Note: The dashed lines mark 20% (minimum RAM requirement as of April 2018) and 70% (minimum MACZT requirement as of January 2020)."

3.3 Remedial actions

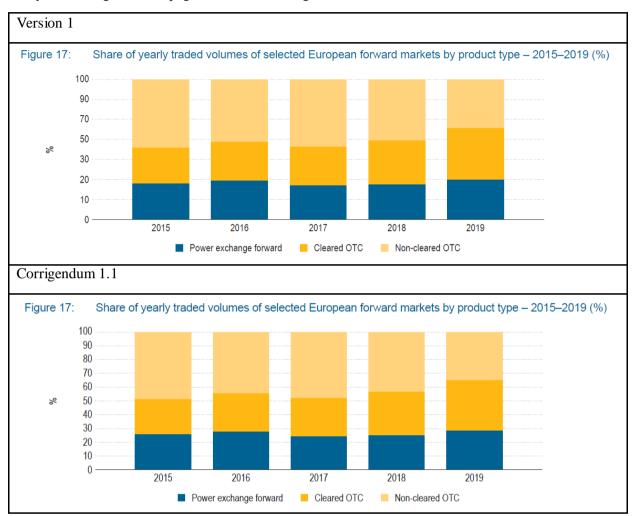
Paragraph 112 on page 32 has been changed as follows:

Version 1	Corrigendum 1.2
	"In relative terms, the highest costs per unit of demand were observed in Lithuania (5.67 euros/MWh), Austria (2.36 euros/MWh),

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Austria (2.36 euros/MWh), Germany (2.32	Germany (2.32 euros/MWh) and in GB (1.89
euros/MWh) and in GB (1.89 euros/MWh)."	euros/MWh)."



The y-axis of Figure 17 on page 37 has been changed as follows:

4.3 Intraday markets

The second and third sentence in paragraph 129 on page 39 have been changed as follows:

Version 1	Corrigendum 1.2
SIDC allows for continuous cross-border	SIDC allows for continuous cross-border
intraday electricity trading between all	intraday electricity trading between all integrated
integrating bidding zones based on the	bidding zones based on the continuous allocation
continuous allocation of cross-border capacities.	of cross-border capacities. Because Switzerland
Because Switzerland – and the Swiss TSO,	- and the Swiss TSO, Swissgrid - does not
Swissgrid – does not participate in SIDC and the	participate in SIDC and the system that had
system that had previously enabled implicit ID	previously enabled implicit ID trading at the



trading at the Swiss borders with Germany and	Swiss borders with Germany and France, the
France, the Flexible Intraday Trading Scheme	Flexible Intraday Trading Scheme, was
(FITS), was withdrawn, ID trades with	withdrawn, ID trades with Switzerland now
Switzerland now require cross-border capacity to	require cross-border capacity to be procured
be procured separately, with the exception of the	separately, with the exception of the Switzerland
Switzerland – Italy North border since mid-April	- Italy North border since mid-April 2019.
2019.	•

5.2 Intraday markets

The note under Figure 27 on page 47 has been changed as follows:

Version 1	Corrigendum 1.2
Note: This figure contains data for all involved European bidding zones.	Note: This figure contains data for all European bidding zones with ID markets.

5.3.1 Balancing (capacity and energy)

The third sentence in paragraph 161 on page 50 has been changed as follows:

Version 1	Corrigendum 1.2
There were only a few increases in balancing capacity procurement costs observed: for FCRs in the Nordic area, and for frequency restoration reserves (FFRs) in Germany (due to higher prices) and the Netherlands (due to an increased volume procured).	There were only a few increases in balancing capacity procurement costs observed: for FCRs in the Nordic area, and for frequency restoration reserves (<i>FRRs</i>) in Germany (due to higher prices) and the Netherlands (due to an increased volume procured).

5.3.2 Lead time for the procurement of balancing capacity

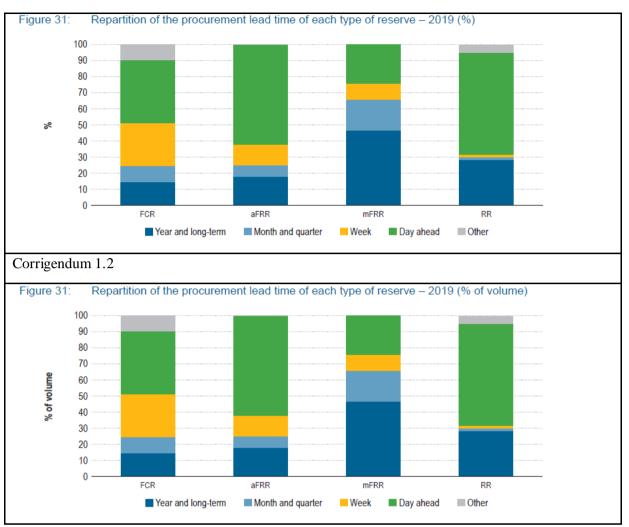
The y-axis name and the caption of Figure 31 on page 52 have been changed.

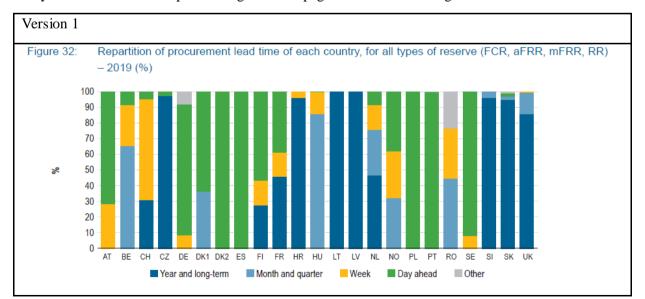
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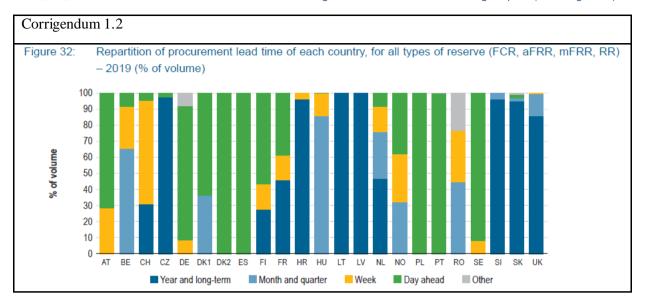




The y-axis name and the caption of Figure 32 on page 52 have been changed.

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5.3.3 Cross-zonal exchange of balancing services

The fourth sentence in paragraph 168 on page 53 has been changed as follows:

Version 1	Corrigendum 1.2
The level exchange of balancing capacity (Figure 34) has significantly increased for the Netherlands, Belgium, and Western Denmark, all members of the FCR cooperation project.	(Figure 34) has significantly increased for the

The fifth sentence in paragraph 173 on page 54 has been changed as follows:

Version 1	Corrigendum 1.2
Between 2020 and 2023, the TSOs will gradually implement the changes in operational processes (in particular the single price model and the 15- minute imbalance settlement period), with a view to being merged with first with MARI and later with PICASSO.	Between 2020 and 2023, the TSOs will gradually implement the changes in operational processes (in particular the single <i>imbalance</i> price model and the 15-minute imbalance settlement period), with a view to being merged first with the <i>Manually Activated Reserves Initiative</i> (MARI) and later with PICASSO.

The second sentence in paragraph 174 on page 55 has been changed as follows:

Version 1	Corrigendum 1.2
The platform is part of the Manually Activated	
Reserves Initiative (MARI initiative), which was	launched in April 2017 with the signing of a
launched in April 2017 with the signing of a	



memorandum of understanding by 19 European	memorandum of understanding by 19 European
TSOs.	TSOs.

6 Capacity mechanisms and generation adequacy

The first sentence in paragraph 178 on page 56 has been changed as follows:

Version 1	Corrigendum 1.2
framework for the assessing mid-term resource	The recast Electricity Regulation sets the framework for assessing mid-term resource adequacy and provides general principles and design rules for CMs.

6.1 Status of capacity mechanisms

The text in the second and third rectangle corresponding to Figure 36 on page 57 have been changed as follows:

Version 1	Corrigendum 1.2
Capacity auction Re-approved as of October 2019.	<i>GB:</i> Capacity auction Re-approved as of October 2019.
Capacity Auctions for reliability options initiated in 2018.	<i>SEM:</i> Capacity auctions for reliability options initiated in 2018.

A sentence has been added to the note applying to Figure 37 and Figure 38 on page 58:

Version 1	Corrigendum 1.2
	Values marked with the label 'IE' refer to 'SEM'.

6.3 Capacity mechanisms and resource adequacy concerns

Quotation marks in the third sentence in paragraph 187 on page 60 have been changed as follows:

Version 1	Corrigendum 1.2
Moreover, according to Article 25 of the recast	Moreover, according to Article 25 of the recast
Electricity Regulation "When applying capacity	Electricity Regulation "When applying capacity
mechanisms Member States shall have a	mechanisms Member States shall have a
reliability standard in place." and this reliability	reliability standard in place." and this reliability
standard "shall be calculated using at least the	standard "shall be calculated using at least the
value of lost load and the cost of new entry over	value of lost load and the cost of new entry over
a given timeframe and shall be expressed as	a given timeframe and shall be expressed as



"expected energy not served" (EENS) and "loss	'expected energy not served' (EENS) and 'loss
of load expectation" (LOLE).	of load expectation' (LOLE)."

The values corresponding to Belgium in Table 4 on page 60 have been changed as follows:

Version 1				
able 4:	Reliability standards used in the EU – 2019			
Member State	Type of reliability standard	Value	Binding (B)/Non-binding (NB)	
BE	LOLE	3 hours/year	В	
BG	SAI = 1 - LOLP	0.99815	В	
СҮ	Reserve margin	189 MW	В	
DE	LOLE	5 hours/year	NB	
DK Outage minutes		20 minutes	В	
FR	LOLE	3 hours/year	NB	
GR	LOLE	3 hours/year	NB	
IE	LOLE	8 hours/year	В	
IT	LOLE	3 hours/year	В	
LT	LOLE	8 hours/year	NB	
NL	LOLE	4 hours/year	NB	
PL	LOLE	3 hours/year	NB	
ES	Reserve margin/LOLE	(see note)	NB	
	Reserve margin/EOEE	(See Hole)	IND	
UK (GB)	LOLE	3 hours/year	B	
UK (GB) Corrigendu	LOLE	· /		
UK (GB) Corrigendu	LOLE um 1.1 Reliability standards used in the EU – 2019 Type of reliability standard	3 hours/year Value		
UK (GB) Corrigendu Table 4: Member State	LOLE um 1.1 Reliability standards used in the EU – 2019 Type of reliability standard LOLE	3 hours/year Value 3 hours/year	B Binding (B)/Non-binding (NB) B	
UK (GB) Corrigendu Table 4: Member State BE	LOLE um 1.1 Reliability standards used in the EU – 2019 Type of reliability standard LOLE LOLE (P95)	3 hours/year Value 3 hours/year 20 hours/year	B Binding (B)/Non-binding (NB) B B B	
UK (GB) Corrigendu Table 4: Member State BE BG	LOLE um 1.1 Reliability standards used in the EU – 2019 Type of reliability standard LOLE LOLE (P95) SAI = 1 - LOLP	3 hours/year Value 3 hours/year 20 hours/year 0.99815	B Binding (B)/Non-binding (NB) B B B B B	
UK (GB) Corrigendu Table 4: Member State BE BG CY	LOLE um 1.1 Reliability standards used in the EU – 2019 Type of reliability standard LOLE LOLE (P95) SAI = 1 - LOLP Reserve margin	3 hours/year Value 3 hours/year 20 hours/year 0.99815 189 MW	B Binding (B)/Non-binding (NB) B B B B B B B B B B	
UK (GB) Corrigendu Table 4: Member State BE BG CY DE	LOLE um 1.1 Reliability standards used in the EU – 2019 Type of reliability standard LOLE LOLE (P95) SAI = 1 - LOLP Reserve margin LOLE	Value 3 hours/year 3 hours/year 20 hours/year 0.99815 189 MW 5 hours/year	B Binding (B)/Non-binding (NB) B B B B B B NB	
UK (GB) Corrigendu Table 4: Member State BE BG CY DE DK	LOLE LOLE LOLE Reliability standards used in the EU – 2019 Type of reliability standard LOLE LOLE (P95) SAI = 1 - LOLP Reserve margin LOLE Outage minutes	Value 3 hours/year 3 hours/year 20 hours/year 0.99815 189 MW 5 hours/year 20 minutes	B Binding (B)/Non-binding (NB) B B B B B B B NB B B B B B B B B B B	
UK (GB) Corrigendu Table 4: Member State BE BG CY DE DK FR	LOLE LOLE LOLE Reliability standards used in the EU – 2019 Type of reliability standard LOLE LOLE (P95) SAI = 1 - LOLP Reserve margin LOLE Outage minutes LOLE	Value 3 hours/year 20 hours/year 0.99815 189 MW 5 hours/year 20 minutes 3 hours/year	B Binding (B)/Non-binding (NB) B B B B B B B NB B NB B NB	
UK (GB) Corrigendu Table 4: Member State BE BG CY DE DK FR GR	LOLE LOLE LOLE Reliability standards used in the EU – 2019 Type of reliability standard LOLE LOLE (P95) SAI = 1 - LOLP Reserve margin LOLE Outage minutes LOLE LOLE	Value 3 hours/year 20 hours/year 20 hours/year 0.99815 189 MW 5 hours/year 20 minutes 3 hours/year 3 hours/year	B Binding (B)/Non-binding (NB) B B B B B B NB B NB NB NB NB NB	
UK (GB) Corrigendu Table 4: Member State BE BG CY DE DK FR GR IE	LOLE LOLE LOLE Reliability standards used in the EU – 2019 Type of reliability standard LOLE LOLE (P95) SAI = 1 - LOLP Reserve margin LOLE Outage minutes LOLE LOLE LOLE LOLE	Value 3 hours/year 20 hours/year 20 hours/year 0.99815 189 MW 5 hours/year 20 minutes 3 hours/year 3 hours/year 8 hours/year 8 hours/year	B Binding (B)/Non-binding (NB) B B B B B B NB B NB NB NB NB NB B B NB N	
UK (GB) Corrigendu Table 4: Member State BE BG CY DE DK FR GR IE IT	LOLE Im 1.1 Reliability standards used in the EU – 2019 Type of reliability standard LOLE LOLE (P95) SAI = 1 - LOLP Reserve margin LOLE Outage minutes LOLE LOLE LOLE LOLE LOLE	Value 3 hours/year 20 hours/year 20 hours/year 0.99815 189 MW 5 hours/year 20 minutes 3 hours/year	B Binding (B)/Non-binding (NB) B B B B B B NB B NB B NB NB NB B B B	
UK (GB) Corrigendu Table 4: Member State BE BG CY DE DK FR GR IE IT LT	LOLE Im 1.1 Reliability standards used in the EU – 2019 Type of reliability standard LOLE LOLE (P95) SAI = 1 - LOLP Reserve margin LOLE Outage minutes LOLE LOLE LOLE LOLE LOLE LOLE LOLE	Value 3 hours/year 20 hours/year 0.99815 189 MW 5 hours/year 20 minutes 3 hours/year 8 hours/year 3 hours/year 8 hours/year 8 hours/year 8 hours/year	B Binding (B)/Non-binding (NB) B B B B B B NB B NB NB NB B NB B B NB B B NB N	
UK (GB) Corrigendu Table 4: Member State BE BG CY DE DK FR GR IE IT LT NL	LOLE Im 1.1 Reliability standards used in the EU – 2019 Type of reliability standard LOLE LOLE (P95) SAI = 1 - LOLP Reserve margin LOLE Outage minutes LOLE LOLE LOLE LOLE LOLE LOLE LOLE	Value 3 hours/year 20 hours/year 20 hours/year 0.99815 189 MW 5 hours/year 20 minutes 3 hours/year 3 hours/year 3 hours/year 3 hours/year 3 hours/year 8 hours/year 8 hours/year 8 hours/year 4 hours/year	B Binding (B)/Non-binding (NB) B B B B B NB B NB B NB NB B B NB B B NB N	
UK (GB) Corrigendu Table 4: Member State BE BG CY DE DK FR GR IE IT LT NL PL	LOLE Im 1.1 Reliability standards used in the EU – 2019 Type of reliability standard LOLE LOLE (P95) SAI = 1 - LOLP Reserve margin LOLE Outage minutes LOLE LOLE LOLE LOLE LOLE LOLE LOLE LOLE LOLE	Value 3 hours/year 20 hours/year 20 hours/year 0.99815 189 MW 5 hours/year 20 minutes 3 hours/year 3 hours/year 3 hours/year 3 hours/year 8 hours/year 8 hours/year 8 hours/year 3 hours/year	B Binding (B)/Non-binding (NB) B B B B NB B NB NB B B NB B B NB NB NB	
UK (GB) Corrigendu Table 4: Member State BE BG CY DE DK FR GR IE IT LT NL	LOLE Im 1.1 Reliability standards used in the EU – 2019 Type of reliability standard LOLE LOLE (P95) SAI = 1 - LOLP Reserve margin LOLE Outage minutes LOLE LOLE LOLE LOLE LOLE LOLE LOLE	Value 3 hours/year 20 hours/year 20 hours/year 0.99815 189 MW 5 hours/year 20 minutes 3 hours/year 3 hours/year 3 hours/year 3 hours/year 3 hours/year 8 hours/year 8 hours/year 8 hours/year 4 hours/year	B Binding (B)/Non-binding (NB) B B B B B NB B NB B NB NB B B NB B B NB N	

The values corresponding to Denmark in Table 4 on page 60 have been changed as follows:

Version 1



of Energy Regulators

Corrigenda: Ninth Market Monitoring Report (covering 2019)

Table 4:	able 4: Reliability standards used in the EU – 2019		
Member State	Type of reliability standard	Value	Binding (B)/Non-binding (NB)
BE	LOLE	3 hours/year	В
BG	SAI = 1 - LOLP	0.99815	В
CY	Reserve margin	189 MW	В
DE	LOLE	5 hours/year	NB
DK	Outage minutes	20 minutes	В
FR	LOLE	3 hours/year	NB
GR	LOLE	3 hours/year	NB
IE	LOLE	8 hours/year	В
IT	LOLE	3 hours/year	В
LT	LOLE	8 hours/year	NB
NL	LOLE	4 hours/year	NB
PL	LOLE	3 hours/year	NB
ES	Reserve margin/LOLE	(see note)	NB
UK (GB)	LOLE	3 hours/year	В

Corrigendum 1.2

Table 4:	Reliability standards used in the EU – 2019		
Member State	Type of reliability standard	Value	Binding (B)/Non-binding (NB)
BE	LOLE	3 hours/year	В
DL	LOLE (P95)	20 hours/year	В
BG	SAI = 1 - LOLP	0.99815	В
CY	Reserve margin	189 MW	В
DE	LOLE	5 hours/year	NB
DK	Outage minutes	7 minutes	В
FR	LOLE	3 hours/year	NB
GR	LOLE	3 hours/year	NB
IE	LOLE	8 hours/year	В
IT	LOLE	3 hours/year	В
LT	LOLE	8 hours/year	NB
NL	LOLE	4 hours/year	NB
PL	LOLE	3 hours/year	NB
ES	Reserve margin/LOLE	(see note)	NB
UK (GB)	LOLE	3 hours/year	В

The part of the note corresponding to Denmark under Table 4 on page 60 has been changed as follows:

Version 1	Corrigendum 1.2
"In Denmark the reliability standard is set in 'outage minutes (OM)' defined as OM = 8760 * 60 * EUE / Demand, where Demand is the annual load and EUE is the expected unserved energy i.e. the EENS adjusted to account for the fact that real load shedding occurs at predefined blocks of energy."	In Denmark the reliability standard is set in 'outage minutes (OM)' defined as OM = 8760 * 60 * EUE / Demand, where Demand is the annual load and EUE is the expected unserved energy i.e. the EENS adjusted to account for the fact that real load shedding occurs at predefined blocks of energy. The uniform 7 minutes target refers to outages related to either resource adequacy (5 minutes), transmission adequacy (1 minute) or system operation incidents (1 minute).



The caption and label of Figure 42 on page 63 have been changed as follows:

Version 1	Corrigendum 1.1
"Figure 42: Perceived need for adequacy issues based on 2019 MAF results"	"Figure 42: Perceived need for <i>CMs based on the</i> 2019 MAF results – 2019"
"CM operational – no national adequacy issues in MAF"	"CM <i>adopted</i> – no national adequacy issues in MAF"

The last two values in the fifth and sixth columns and the last value in the seventh column of Table 7 on page 67 have been changed as follows:

Table 7:	Number of active ca	pacity constraints	and shadow prices	s by element type	e in the Core (CM	(E) region – 201
TSO	Element type	Number (2018)	Number (2019)	Difference	Total of shadow prices 2019 (euros/MW)	Average shadow price 2019 (euros/MW)
AT	Internal line	117	233	99%	22,252	96
BE	Internal line	1,109	1,126	2%	29,966	27
DE	Allocation constraint	457	0	-100%	-	
DE-Amprion	Internal line	927	374	-60%	39,568	100
DE-TenneT	Internal line	301	251	-17%	29,517	118
DE-TransnetBW	Internal line	80	16	-80%	2,149	134
FR	Allocation constraint	0	0	-	-	
FR	Internal line	1	9	800%	429	48
NL	Allocation constraint	190	0	-100%	-	
NL	Internal line	1,452	455	-69%	30,279	6
Cross-border line		2,897	2,431	19%	-16%	9
Total		7531	4895	54%	-35%	
orrigendum	1.2 Number of active cap				e in the Core (CW	/E) region – 20
orrigendum able 7: N						/E) region – 20
orrigendum able 7: N	Number of active cap	pacity constraints	and shadow price:	s by element type	e in the Core (CW Total of shadow prices 2019	/E) region — 20 ⁻ Average shadow price 2019 (euros/MW)
orrigendum able 7: N so	Number of active cap Element type	pacity constraints Number (2018)	and shadow price: Number (2019)	s by element type Difference	e in the Core (CW Total of shadow prices 2019 (euros/MW)	/E) region – 20 Average shadow price 2019 (euros/MW) 9
orrigendum able 7: N so T E	Number of active cap Element type Internal line	Dacity constraints Number (2018) 117	and shadow prices Number (2019) 233	s by element type Difference 99%	e in the Core (CW Total of shadow prices 2019 (euros/MW) 22,252	/E) region – 20 Average shadow price 2019 (euros/MW) 9
orrigendum able 7: N rso M JE JE	Number of active cap Element type Internal line Internal line	Dacity constraints Number (2018) 117 1,109	and shadow prices Number (2019) 233 1,126	s by element type Difference 99% 2%	e in the Core (CW Total of shadow prices 2019 (euros/MW) 22,252	/E) region — 20' Average shadow price 2019 (euros/MW) 9 2
orrigendum able 7: N SO AT BE DE E-Amprion	Number of active cap Element type Internal line Internal line Allocation constraint	Dacity constraints Number (2018) 117 1,109 457	and shadow price: Number (2019) 233 1,126 0	5 by element type Difference 99% 2% -100%	e in the Core (CW Total of shadow prices 2019 (euros/MW) 22,252 29,966	/E) region – 207 Average shadow price 2019 (euros/MW) 9 2
orrigendum able 7: N So NT BE DE DE-Amprion DE-TenneT	Element type Internal line Internal line Allocation constraint Internal line	Number (2018) 117 1,109 457 927	and shadow price: Number (2019) 233 1,126 0 374	5 by element type Difference 99% 2% -100% -60%	e in the Core (CW Total of shadow prices 2019 (euros/MW) 22,252 29,966 - 39,568	/E) region – 201 Average shadow price 2019 (euros/MW) 9 2 10 10
orrigendum able 7: N SO NT BE DE-Amprion DE-TenneT DE-TransnetBW	Element type Internal line Internal line Allocation constraint Internal line Internal line	Number (2018) 117 1,109 457 927 301	and shadow prices Number (2019) 233 1,126 0 374 251	5 by element type Difference 99% 2% -100% -60% -17%	e in the Core (CW Total of shadow prices 2019 (euros/MW) 22,252 29,966 	/E) region – 201 Average shadow price 2019 (euros/MW) 9 2 10 10
orrigendum able 7: N SO SE DE-Amprion DE-TenneT DE-TransnetBW R	Element type Internal line Internal line Allocation constraint Internal line	Number (2018) 117 1,109 457 927 301 80	and shadow prices Number (2019) 233 1,126 0 374 251 16	5 by element type Difference 99% 2% -100% -60% -17%	e in the Core (CW Total of shadow prices 2019 (euros/MW) 22,252 29,966 	/E) region – 201 Average shadow price 2019 (euros/MW) 9 2 2 10 11 13
orrigendum able 7: N SO SE DE-Amprion DE-TenneT DE-TransnetBW R R	Element type Internal line Internal line Allocation constraint Internal line	Number (2018) 117 1,109 457 927 301 80 0	and shadow prices Number (2019) 233 1,126 0 374 251 16 0	5 by element type Difference 99% 2% -100% -60% -17% -80%	e in the Core (CW Total of shadow prices 2019 (euros/MW) 22,252 29,966 	/E) region – 201 Average shadow price 2019 (euros/MW) 9 2 2 10 11 13
orrigendum able 7: N so ST SE DE-Amprion DE-TenneT DE-TransnetBW R R R R IL	Element type Internal line Internal line Allocation constraint Internal line	Number (2018) 117 1,109 457 927 301 80 0 1	and shadow prices Number (2019) 233 1,126 0 374 251 16 0 9	5 by element type Difference 99% 2% -100% -60% -17% -80% - 800%	e in the Core (CW Total of shadow prices 2019 (euros/MW) 22,252 29,966 	/E) region – 201 Average shadow price 2019 (euros/MW) 2 2 10 11 13 4
orrigendum	Element type Internal line Internal line Allocation constraint Internal line Allocation constraint Internal line Allocation constraint Internal line Allocation constraint	Number (2018) 117 1,109 457 927 301 80 0 1 190	and shadow prices Number (2019) 233 1,126 0 374 251 16 0 9 0 0	Difference 99% 2% -100% -60% -17% -80% -100%	e in the Core (CW Total of shadow prices 2019 (euros/MW) 22,252 29,966 - - - - - - - - - - - - -	Average shadow price 2019

Annex 2: Impact of the COVID-19 pandemic on electricity markets (first half of 2020)



The caption of Figure 48 on page 71 has been changed as follows:

Version 1	Corrigendum 1.1
"Figure 48: Share of continuous ID-traded volumes according to intra-zonal vs. cross-zonal nature of trades in Europe and yearly continuous ID-traded volumes – H1-2017–H1-2019 (% and TWh)"	volumes according to intra-zonal vs. cross-zonal

Annex 5: List of acronyms

The line "FITS Flexible Intraday Trading Scheme" on page 77 has been removed.