





CATALOGUES

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CATALOGUE 5

Traction Power Supply Cost Tables





MONTHLY PUBLICATION OF PRICES AND RATIOS THAT WILL BE USED TO ISSUE THE CORRESPONDING INVOICE FOR THE SERVICES PERFORMED IN SEPTEMBER 2023.

SC-2	Reviewed reference / Invoicing prices *		Reviewed reference / Invoicing conversion ratios *					
Month of Service	<i>TES</i> ^{ce} €/MWh net**	<i>TATRS</i> ^{ce} €/MWh net**	Passengers rc ^{co} (Wh/TKB)	Passengers rg ^{ca} (Wh/TKB)	Freight rc "" (Wh/TKB)	Freight rg co (Wh/TKB)		
jan-23	137.19428181	34.53217285	49.00866226	6.37112609	17.50309366	2.27540218		
feb-23	164.11947310	37.87818892	48.18288397	6.26377492	17.20817285	2.23706247		
mar-23	138.70949326	26.17228847	46.86160410	6.09200853	16.73628718	2.17571733		
apr-23	89.60993382	16.68956965	45.74209924	5.94647290	16.33646401	2.12374032		
may-23	90.67917376	17.90173523	45.16954036	5.87204025	16.13197870	2.09715723		
jun-23	112.46453884	22.04184023	44.38236622	5.76970761	15.85084508	2.06060986		
jul-23	108.51220145	34.75694683	46.11244021	5.99461723	16.46872864	2.14093472		
aug-23	114.88418100	19.24208170	46.57388236	6.05460471	16.63352942	2.16235882		
sep-23	124.67230022	19.16209732	45.53472686	5.91951449	16.26240245	2.11411232		
oct-23	117.57*	16.88*	48.28*	6.28*	17.24*	2.24*		
nov-23	125.80*	23.87*	48.28*	6.28*	17.24*	2.24*		
dec-23	134.85*	33.24*	48.28*	6.28*	17.24*	2.24*		

^{*} Reference Prices/Ratios estimated as of 10/20/2023 are not binding to invoice. The energy cost estimate from October 2023 to December 2023 does not include the effects of the cost excess generated by the gas cap mechanism. as set under Royal Decree-Law 10/2022. of 13 May. temporarily setting a mechanism to adjust production costs and reduce the price of electricity on the wholesale market. The volatility of this excess cost together with the large number of uncertain figures depending thereupon. prevent from giving a limited estimate of the value of this excess in said period.

Published on 27 October 2023



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^{**} net = consumed - compensable regenerated. considered at border point with the electricity sector.



MONTHLY PUBLICATION OF PRICES AND RATIOS THAT WILL BE USED TO ISSUE THE CORRESPONDING INVOICE FOR THE SERVICES PERFORMED IN SEPTEMBER 2023.

SC-2	Reviewed reference / Invoicing prices *		Reviewed reference / Invoicing conversión ratios *							
Month of service	<i>TE^{ccC}</i> €/MWh net**	<i>TATR</i> ^{cc¢} €/MWh net**	Freight rc" ^{cc} (Wh/TKB)	Freight rg "« (Wh/TKB)	Long distance rc_{ld}^{acc} (Wh/TKB)	Long distance rg _l ^{cc} (Wh/TKB)	Medium Distance rc _{md} ^{ccc} (Wh/TKB)	Medium Distance rg _{md} ccc (Wh/TKB)	Commuter rc ^ω (Wh/TKB)	Commuter rg ^{cc} (Wh/TKB)
jan-23	99.67034293	49.71432141	20.29957300	2.02995730	32.47931681	3.24793168	36.53923141	3.65392314	52.77888981	5.27788898
feb-23	153.40454695	51.13252109	20.31363094	2.03136309	32.50180951	3.25018095	36.56453569	3.65645357	52.81544045	5.28154404
mar-23	109.73395710	38.97547394	19.66360640	1.96636064	31.46177024	3.14617702	35.39449152	3.53944915	51.12537664	5.11253766
apr-23	95.89919883	28.22591127	19.25391818	1.92539182	30.80626909	3.08062691	34.65705272	3.46570527	50.06018727	5.00601873
may-23	96.11163925	27.62834983	19.04080026	1.90408003	30.46528041	3.04652804	34.27344046	3.42734405	49.50608067	4.95060807
jun-23	117.62878721	32.01700067	18.94797395	1.89479739	30.31675831	3.03167583	34.10635310	3.41063531	49.26473226	4.92647323
jul-23	114.28483016	46.63550214	19.59911535	1.95991154	31.35858456	3.13585846	35.27840763	3.52784076	50.95769991	5.09576999
aug-23	120.10760225	33.37337452	19.80696332	1.98069633	31.69114131	3.16911413	35.65253397	3.56525340	51.49810463	5.14981046
sep-23	129.22795901	33.47636259	19.46260817	1.94626082	31.14017308	3.11401731	35.03269471	3.50326947	50.60278125	5.06027813
oct-23	121.16*	26.60*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*
nov-23	129.69*	39.18*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*
dec-23	139.11*	47.70*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*

^{*} Reference Prices/Ratios estimated as of 10/20/2023 are not binding to invoice. The energy cost estimate from October 2023 to December 2023 does not include the effects of the cost excess generated by the gas cap mechanism. as set under Royal Decree-Law 10/2022. of 13 May. temporarily setting a mechanism to adjust production costs and reduce the price of electricity on the wholesale market. The volatility of this excess cost together with the large number of uncertain figures depending thereupon. prevent from giving a limited estimate of the value of this excess in said period.

Published on 27 October 2023



AL.INF. / 2. INFRAST

^{**} net = consumed - compensable regenerated. considered at border point with the electricity sector.



MONTHLY PUBLICATION OF PRICES AND RATIOS THAT WILL BE USED TO ISSUE THE CORRESPONDING INVOICE FOR THE SERVICES PERFORMED IN SEPTEMBER 2023.

SC-2	Reviewed r Invoicing		Reviewed reference / Invoicing conversión ratios				
Month of service	<i>TE^{ccR}</i> €/MWh net**	<i>TATR^{ccR}</i> €/MWh net**	Passengers rc, ^{cck} (Wh/TKB)	Passengers rg cck (Wh/TKB)	Freight rc _m cck (Wh/TKB)	Freight rg, ^{cck} (Wh/TKB)	
jan-23	93.49960364	37.25570386	61.06097137	6.10609714	23.48498899	2.34849890	
feb-23	151.49264829	36.92143296	60.35583444	6.03558344	23.21378248	2.32137825	
mar-23	103.26022958	32.18423939	55.29770711	5.52977071	21.26834889	2.12683489	
apr-23	93.45631478	27.43470654	53.89283061	5.38928306	20.72801177	2.07280118	
may-23	94.22793441	26.59758610	52.27281186	5.22728119	20.10492764	2.01049276	
jun-23	116.11350035	29.68456744	52.25126272	5.22512627	20.09663951	2.00966395	
jul-23	112.80057400	47.19136793	52.86298002	5.28629800	20.33191539	2.03319154	
aug-23	118.95995893	29.45692783	53.79409895	5.37940989	20.69003806	2.06900381	
sep-23	127.85556522	31.12339978	54.09862127	5.40986213	20.80716203	2.08071620	
oct-23	121.80*	23.87*	53.73*	5.37*	20.67*	2.07*	
nov-23	130.37*	35.65*	53.73*	5.37*	20.67*	2.07*	
dec-23	139.80*	44.89*	53.73*	5.37*	20.67*	2.07*	

^{*} Reference Prices/Ratios estimated as of 10/20/2023 are not binding to invoice. The energy cost estimate from October 2023 to December 2023 does not include the effects of the cost excess generated by the gas cap mechanism. as set under Royal Decree-Law 10/2022. of 13 May. temporarily setting a mechanism to adjust production costs and reduce the price of electricity on the wholesale market. The volatility of this excess cost together with the large number of uncertain figures depending thereupon. prevent from giving a limited estimate of the value of this excess in said period.

Published on 27 October 2023



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^{**} net = consumed - compensable regenerated. considered at border point with the electricity sector.

SC-2 TRACTION **CURRENT SUPPLY**

PREVIOUS MONTHLY AND ANNUAL **PUBLICATIONS OF THE FORECAST OF** THE RATES OF THE SUPPLY COSTS IN **ELECTRIFIED LINES IN ALTERNATE AND DIRECT CURRENT**





MONTHLY PUBLICATION OF PRICES AND RATIOS THAT WILL BE USED TO ISSUE THE CORRESPONDING INVOICE FOR THE SERVICES PERFORMED IN AUGUST 2023.

SC-2	Reviewed reference / Invoicing prices *		Reviewed reference / Invoicing conversion ratios *					
Month of Service	<i>TES</i> ^{ca} €/MWh net**	<i>TATRS</i> ^{ce} €/MWh net**	Passengers rc ^{co} (Wh/TKB)	Passengers rg ^{ca} (Wh/TKB)	Freight rc "" (Wh/TKB)	Freight rg_ca (Wh/TKB)		
jan-23	137.19428181	34.53217285	49.00866226	6.37112609	17.50309366	2.27540218		
feb-23	164.11947310	37.87818892	48.18288397	6.26377492	17.20817285	2.23706247		
mar-23	138.70949326	26.17228847	46.86160410	6.09200853	16.73628718	2.17571733		
apr-23	89.60993382	16.68956965	45.74209924	5.94647290	16.33646401	2.12374032		
may-23	90.67917376	17.90173523	45.16954036	5.87204025	16.13197870	2.09715723		
jun-23	112.46453884	22.04184023	44.38236622	5.76970761	15.85084508	2.06060986		
jul-23	108.51220145	34.75694683	46.11244021	5.99461723	16.46872864	2.14093472		
aug-23	114.88418100	19.24208170	46.57388236	6.05460471	16.63352942	2.16235882		
sep-23	120.19*	20.36*	48.28*	6.28*	17.24*	2.24*		
oct-23	120.11*	16.88*	48.28*	6.28*	17.24*	2.24*		
nov-23	131.81*	23.87*	48.28*	6.28*	17.24*	2.24*		
dec-23	137.95*	33.24*	48.28*	6.28*	17.24*	2.24*		

^{*} Reference Prices/Ratios estimated as of 09/20/2023 are not binding to invoice. The energy cost estimate from September 2023 to December 2023 does not include the effects of the cost excess generated by the gas cap mechanism. as set under Royal Decree-Law 10/2022. of 13 May. temporarily setting a mechanism to adjust production costs and reduce the price of electricity on the wholesale market. The volatility of this excess cost together with the large number of uncertain figures depending thereupon. prevent from giving a limited estimate of the value of this excess in said period.

Published on 27 September 2023



. GRAL.INF. $\,\,/\,$ 2. INFRAST

^{**} net = consumed - compensable regenerated. considered at border point with the electricity sector.



MONTHLY PUBLICATION OF PRICES AND RATIOS THAT WILL BE USED TO ISSUE THE CORRESPONDING INVOICE FOR THE SERVICES PERFORMED IN JULY 2023.

SC-2	Reviewed reference / Invoicing prices *		Reviewed reference / Invoicing conversion ratios *					
Month of Service	<i>TES</i> ^{cc} €/MWh net**	<i>TATRS</i> ^{ca} €/MWh net**	Passengers rc [@] (Wh/TKB)	Passengers rg ^{ca} (Wh/TKB)	Freight rc "" (Wh/TKB)	Freight rg co (Wh/TKB)		
jan-23	137.19428181	34.53217285	49.00866226	6.37112609	17.50309366	2.27540218		
feb-23	164.11947310	37.87818892	48.18288397	6.26377492	17.20817285	2.23706247		
mar-23	138.70949326	26.17228847	46.86160410	6.09200853	16.73628718	2.17571733		
apr-23	89.60993382	16.68956965	45.74209924	5.94647290	16.33646401	2.12374032		
may-23	90.67917376	17.90173523	45.16954036	5.87204025	16.13197870	2.09715723		
jun-23	112.46453884	22.04184023	44.38236622	5.76970761	15.85084508	2.06060986		
jul-23	108.51220145	34.75694683	46.11244021	5.99461723	16.46872864	2.14093472		
aug-23	115.73*	21.00*	48.28*	6.28*	17.24*	2.24*		
sep-23	115.46*	20.36*	48.28*	6.28*	17.24*	2.24*		
oct-23	120.87*	16.88*	48.28*	6.28*	17.24*	2.24*		
nov-23	139.84*	23.87*	48.28*	6.28*	17.24*	2.24*		
dec-23	145.49*	33.24*	48.28*	6.28*	17.24*	2.24*		

^{*} Reference Prices/Ratios estimated as of 08/24/2023 are not binding to invoice. The energy cost estimate from August 2023 to December 2023 does not include the effects of the cost excess generated by the gas cap mechanism. as set under Royal Decree-Law 10/2022. of 13 May. temporarily setting a mechanism to adjust production costs and reduce the price of electricity on the wholesale market. The volatility of this excess cost together with the large number of uncertain figures depending thereupon. prevent from giving a limited estimate of the value of this excess in said period.

Published on 28 August 2023



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^{**} net = consumed - compensable regenerated. considered at border point with the electricity sector.



MONTHLY PUBLICATION OF PRICES AND RATIOS THAT WILL BE USED TO ISSUE THE CORRESPONDING INVOICE FOR THE SERVICES PERFORMED IN JUNE 2023.

SC-2	Reviewed reference / Invoicing prices *		Reviewed reference / Invoicing conversion ratios *					
Month of Service	<i>TES</i> ^{ca} €/MWh net**	<i>TATRS</i> ^{ce} €/MWh net**	Passengers rc ^{co} (Wh/TKB)	Passengers rg ^{ca} (Wh/TKB)	Freight rc "" (Wh/TKB)	Freight rg m (Wh/TKB)		
jan-23	137.19428181	34.53217285	49.00866226	6.37112609	17.50309366	2.27540218		
feb-23	164.11947310	37.87818892	48.18288397	6.26377492	17.20817285	2.23706247		
mar-23	138.70949326	26.17228847	46.86160410	6.09200853	16.73628718	2.17571733		
apr-23	89.60993382	16.68956965	45.74209924	5.94647290	16.33646401	2.12374032		
may-23	90.67917376	17.90173523	45.16954036	5.87204025	16.13197870	2.09715723		
jun-23	112.46453884	22.04184023	44.38236622	5.76970761	15.85084508	2.06060986		
jul-23	110.39*	33.49*	48.28*	6.28*	17.24*	2.24*		
aug-23	112.36*	21.00*	48.28*	6.28*	17.24*	2.24*		
sep-23	114.17*	20.36*	48.28*	6.28*	17.24*	2.24*		
oct-23	122.69*	16.88*	48.28*	6.28*	17.24*	2.24*		
nov-23	146.45*	23.87*	48.28*	6.28*	17.24*	2.24*		
dec-23	157.98*	33.24*	48.28*	6.28*	17.24*	2.24*		

^{*} Reference Prices/Ratios estimated as of 07/24/2023 are not binding to invoice. The energy cost estimate from July to December 2023 does not include the effects of the cost excess generated by the gas cap mechanism. as set under Royal Decree-Law 10/2022. of 13 May. temporarily setting a mechanism to adjust production costs and reduce the price of electricity on the wholesale market. The volatility of this excess cost together with the large number of uncertain figures depending thereupon. prevent from giving a limited estimate of the value of this excess in said period.

Published on 27 July 2023



. GRAL.INF. / 2. INFRAST

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^{**} net = consumed - compensable regenerated. considered at border point with the electricity sector.



MONTHLY PUBLICATION OF PRICES AND RATIOS THAT WILL BE USED TO ISSUE THE CORRESPONDING INVOICE FOR THE SERVICES PERFORMED IN MAY 2023.

SC-2	Reviewed reference / Invoicing prices *		Reviewed reference / Invoicing conversion ratios *					
Month of Service	<i>TES</i> ^{ca} €/MWh net**	<i>TATRS</i> ^{ce} €/MWh net**	Passengers rc ^{co} (Wh/TKB)	Passengers rg ^{ca} (Wh/TKB)	Freight rc "" (Wh/TKB)	Freight rg " (Wh/TKB)		
jan-23	137.19428181	34.53217285	49.00866226	6.37112609	17.50309366	2.27540218		
feb-23	164.11947310	37.87818892	48.18288397	6.26377492	17.20817285	2.23706247		
mar-23	138.70949326	26.17228847	46.86160410	6.09200853	16.73628718	2.17571733		
apr-23	89.60993382	16.68956965	45.74209924	5.94647290	16.33646401	2.12374032		
may-23	90.67917376	17.90173523	45.16954036	5.87204025	16.13197870	2.09715723		
jun-23	115.47*	19.90*	48.28*	6.28*	17.24*	2.24*		
jul-23	131.47*	33.49*	48.28*	6.28*	17.24*	2.24*		
aug-23	129.40*	21.00*	48.28*	6.28*	17.24*	2.24*		
sep-23	133.61*	20.36*	48.28*	6.28*	17.24*	2.24*		
oct-23	134.05*	16.88*	48.28*	6.28*	17.24*	2.24*		
nov-23	146.45*	23.87*	48.28*	6.28*	17.24*	2.24*		
dec-23	157.34*	33.24*	48.28*	6.28*	17.24*	2.24*		

^{*} Reference Prices/Ratios estimated as of 06/21/2023 are not binding to invoice. The energy cost estimate from June to December 2023 does not include the effects of the cost excess generated by the gas cap mechanism. as set under Royal Decree-Law 10/2022. of 13 May. temporarily setting a mechanism to adjust production costs and reduce the price of electricity on the wholesale market. The volatility of this excess cost together with the large number of uncertain figures depending thereupon. prevent from giving a limited estimate of the value of this excess in said period.

Published on 26 June 2023



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^{**} net = consumed - compensable regenerated. considered at border point with the electricity sector.



MONTHLY PUBLICATION OF PRICES AND RATIOS THAT WILL BE USED TO ISSUE THE CORRESPONDING INVOICE FOR THE SERVICES PERFORMED IN APRIL 2023.

SC-2	Reviewed reference / Invoicing prices *		Reviewed reference / Invoicing conversion ratios *					
Month of Service	<i>TES</i> ^{ca} €/MWh net**	<i>TATRS</i> ^{ca} €/MWh net**	Passengers rc ^{ca} (Wh/TKB)	Passengers rg ^{ca} (Wh/TKB)	Freight rc ar (Wh/TKB)	Freight rg co (Wh/TKB)		
jan-23	137.19428181	34.53217285	49.00866226	6.37112609	17.50309366	2.27540218		
feb-23	164.11947310	37.87818892	48.18288397	6.26377492	17.20817285	2.23706247		
mar-23	138.70949326	26.17228847	46.86160410	6.09200853	16.73628718	2.17571733		
apr-23	89.60993382	16.68956965	45.74209924	5.94647290	16.33646401	2.12374032		
may-23	91.41*	18.45*	48.28*	6.28*	17.24*	2.24*		
jun-23	101.48*	20.56*	48.28*	6.28*	17.24*	2.24*		
jul-23	103.03*	34.89*	48.28*	6.28*	17.24*	2.24*		
aug-23	106.33*	21.47*	48.28*	6.28*	17.24*	2.24*		
sep-23	113.87*	21.13*	48.28*	6.28*	17.24*	2.24*		
oct-23	130.91*	17.50*	48.28*	6.28*	17.24*	2.24*		
nov-23	130.92*	25.27*	48.28*	6.28*	17.24*	2.24*		
dec-23	130.93*	35.00*	48.28*	6.28*	17.24*	2.24*		

^{*} Reference Prices/Ratios estimated as of 05/24/2023 are not binding to invoice. The energy cost estimate from May to December 2023 does not include the effects of the cost excess generated by the gas cap mechanism. as set under Royal Decree-Law 10/2022. of 13 May. temporarily setting a mechanism to adjust production costs and reduce the price of electricity on the wholesale market. The volatility of this excess cost together with the large number of uncertain figures depending thereupon. prevent from giving a limited estimate of the value of this excess in said period.

Published on 30 May 2023



. GRAL.INF. / 2. INFRAST

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^{**} net = consumed - compensable regenerated. considered at border point with the electricity sector.



MONTHLY PUBLICATION OF PRICES AND RATIOS THAT WILL BE USED TO ISSUE THE CORRESPONDING INVOICE FOR THE SERVICES PERFORMED IN MARCH 2023.

SC-2	Reviewed reference / Invoicing prices *		Reviewed reference / Invoicing conversion ratios *					
Month of Service	<i>TES</i> ^{ca} €/MWh net**	<i>TATRS</i> ^{ca} €/MWh net**	Passengers rc (Wh/TKB)	Passengers rg ^{ca} (Wh/TKB)	Freight rc ar (Wh/TKB)	Freight rg co (Wh/TKB)		
jan-23	137.19428181	34.53217285	49.00866226	6.37112609	17.50309366	2.27540218		
feb-23	164.11947310	37.87818892	48.18288397	6.26377492	17.20817285	2.23706247		
mar-23	138.70949326	26.17228847	46.86160410	6.09200853	16.73628718	2.17571733		
apr-23	92.13*	17.17*	48.28*	6.28*	17.24*	2.24*		
may-23	118.52*	18.45*	48.28*	6.28*	17.24*	2.24*		
jun-23	128.84*	20.56*	48.28*	6.28*	17.24*	2.24*		
jul-23	140.20*	34.89*	48.28*	6.28*	17.24*	2.24*		
aug-23	137.84*	21.47*	48.28*	6.28*	17.24*	2.24*		
sep-23	137.10*	21.13*	48.28*	6.28*	17.24*	2.24*		
oct-23	153.62*	17.50*	48.28*	6.28*	17.24*	2.24*		
nov-23	153.63*	25.27*	48.28*	6.28*	17.24*	2.24*		
dec-23	153.65*	35.00*	48.28*	6.28*	17.24*	2.24*		

^{*} Reference Prices/Ratios estimated as of 04/24/2023 are not binding to invoice. The energy cost estimate from April to May 2023 does not include the effects of the cost excess generated by the gas cap mechanism. as set under Royal Decree-Law 10/2022. of 13 May. temporarily setting a mechanism to adjust production costs and reduce the price of electricity on the wholesale market. The volatility of this excess cost together with the large number of uncertain figures depending thereupon. prevent from giving a limited estimate of the value of this excess in said period.

Published on 26 April 2023



. GRAL.INF. $\,\,/\,$ 2. INFRAST

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^{**} net = consumed - compensable regenerated. considered at border point with the electricity sector.



MONTHLY PUBLICATION OF PRICES AND RATIOS THAT WILL BE USED TO ISSUE THE CORRESPONDING INVOICE FOR THE SERVICES PERFORMED IN FEBRUARY 2023.

SC-2	Reviewed reference / Invoicing prices *		Reviewed reference / Invoicing conversion ratios *					
Month of Service	<i>TES</i> ^{co} €/MWh net**	<i>TATRS</i> ^{ca} €/MWh net**	Passengers rc ^{co} (Wh/TKB)	Passengers rg ^{ca} (Wh/TKB)	Freight rc ar (Wh/TKB)	Freight rg acc (Wh/TKB)		
jan-23	137.19428181	34.53217285	49.00866226	6.37112609	17.50309366	2.27540218		
feb-23	164.11947310	37.87818892	48.18288397	6.26377492	17.20817285	2.23706247		
mar-23	139.89*	25.69*	48.28*	6.28*	17.24*	2.24*		
apr-23	113.36*	17.17*	48.28*	6.28*	17.24*	2.24*		
may-23	129.18*	18.45*	48.28*	6.28*	17.24*	2.24*		
jun-23	136.15*	20.56*	48.28*	6.28*	17.24*	2.24*		
jul-23	139.58*	34.89*	48.28*	6.28*	17.24*	2.24*		
aug-23	135.97*	21.47*	48.28*	6.28*	17.24*	2.24*		
sep-23	135.71*	21.13*	48.28*	6.28*	17.24*	2.24*		
oct-23	147.43*	17.50*	48.28*	6.28*	17.24*	2.24*		
nov-23	147.44*	25.27*	48.28*	6.28*	17.24*	2.24*		
dec-23	147.45*	35.00*	48.28*	6.28*	17.24*	2.24*		

^{*} Reference Prices/Ratios estimated as of 03/22/2023 are not binding to invoice. The energy cost estimate from March to May 2023 does not include the effects of the cost excess generated by the gas cap mechanism. as set under Royal Decree-Law 10/2022. of 13 May. temporarily setting a mechanism to adjust production costs and reduce the price of electricity on the wholesale market. The volatility of this excess cost together with the large number of uncertain figures depending thereupon. prevent from giving a limited estimate of the value of this excess in said period.

Published on 24 March 2023



. GRAL.INF. $\,\,/\,$ 2. INFRAST

^{**} net = consumed - compensable regenerated. considered at border point with the electricity sector.



MONTHLY PUBLICATION OF PRICES AND RATIOS THAT WILL BE USED TO ISSUE THE CORRESPONDING INVOICE FOR THE SERVICES PERFORMED IN JANUARY 2023.

SC-2	Reviewed reference / Invoicing prices *		Reviewed reference / Invoicing conversion ratios *					
Month of Service	<i>TES</i> ^{co} €/MWh net**	<i>TATRS</i> ^{ca} €/MWh net**	Passengers rc ^{co} (Wh/TKB)	Passengers rg ^{ca} (Wh/TKB)	Freight rc co (Wh/TKB)	Freight rg ca (Wh/TKB)		
jan-23	137.19428181	34.53217285	49.00866226	6.37112609	17.50309366	2.27540218		
feb-23	160.84*	30.47*	48.28*	6.28*	17.24*	2.24*		
mar-23	144.04*	25.69*	48.28*	6.28*	17.24*	2.24*		
apr-23	124.62*	16.72*	48.28*	6.28*	17.24*	2.24*		
may-23	140.63*	17.79*	48.28*	6.28*	17.24*	2.24*		
jun-23	150.82*	19.90*	48.28*	6.28*	17.24*	2.24*		
jul-23	155.23*	33.49*	48.28*	6.28*	17.24*	2.24*		
aug-23	155.23*	21.00*	48.28*	6.28*	17.24*	2.24*		
sep-23	155.24*	20.36*	48.28*	6.28*	17.24*	2.24*		
oct-23	164.53*	16.88*	48.28*	6.28*	17.24*	2.24*		
nov-23	164.54*	23.87*	48.28*	6.28*	17.24*	2.24*		
dec-23	164.55*	33.24*	48.28*	6.28*	17.24*	2.24*		

^{*} Reference Prices/Ratios estimated as of 02/20/2023 are not binding to invoice. The energy cost estimate from February to May 2023 does not include the effects of the cost excess generated by the gas cap mechanism. as set under Royal Decree-Law 10/2022. of 13 May. temporarily setting a mechanism to adjust production costs and reduce the price of electricity on the wholesale market. The volatility of this excess cost together with the large number of uncertain figures depending thereupon. prevent from giving a limited estimate of the value of this excess in said period.

Published on 23 February 2023



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^{**} net = consumed - compensable regenerated. considered at border point with the electricity sector.



SC-2_ANNUAL PUBLICATION OF THE FORECAST (*) OF THE SUPPLY COST RATES FOR ELECTRIFIED LINES IN ALTERNATING CURRENT FOR 2023:

SC-2	Reviewed reference / Invoicing prices *		Reviewed reference / Invoicing conversion ratios *					
Month of Service	<i>TES</i> ^{cr} €/MWh net**	<i>TATRS</i> ^{ca} €/MWh net**	Passengers rc ^{cc} (Wh/TKB)	Passengers rg ^{ca} (Wh/TKB)	Freight rc ca (Wh/TKB)	Freight ^{rg} " (Wh/TKB)		
jan-23	176.88*	31.53*	48.28*	6.28*	17.24*	2.24*		
feb-23	181.31*	36.31*	48.28*	6.28*	17.24*	2.24*		
mar-23	184.91*	32.57*	48.28*	6.28*	17.24*	2.24*		
apr-23	178.01*	29.51*	48.28*	6.28*	17.24*	2.24*		
may-23	205.78*	28.18*	48.28*	6.28*	17.24*	2.24*		
jun-23	214.21*	27.17*	48.28*	6.28*	17.24*	2.24*		
jul-23	233.70*	38.32*	48.28*	6.28*	17.24*	2.24*		
aug-23	233.70*	25.69*	48.28*	6.28*	17.24*	2.24*		
sep-23	233.70*	26.15*	48.28*	6.28*	17.24*	2.24*		
oct-23	255.65*	23.71*	48.28*	6.28*	17.24*	2.24*		
nov-23	255.66*	28.09*	48.28*	6.28*	17.24*	2.24*		
dec-23	255.66*	36.79*	48.28*	6.28*	17.24*	2.24*		

^{*} Reference Prices/Ratios estimated as of 16/12/2022 are not binding to invoice. The energy cost estimate from January to May 2023 does not include the effects of the cost excess generated by the gas cap mechanism. as set under Royal Decree-Law 10/2022. of 13 May. temporarily setting a mechanism to adjust production costs and reduce the price of electricity on the wholesale market. The volatility of this excess cost together with the large number of uncertain figures depending thereupon. prevent from giving a limited estimate of the value of this excess in said period.

Published on 28 December 2022



I. GRAL.INF. / 2. INFRASTI

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^{**} net = consumed - compensable regenerated. considered at border point with the electricity sector.



SC-2_ANNUAL PUBLICATION OF THE FORECAST (*) OF THE SUPPLY COST RATES FOR ELECTRIFIED LINES IN ALTERNATING CURRENT FOR 2023:

SC-2	Reviewed reference	e / Invoicing prices *	Revi	ewed reference / Invo	oicing conversion rat	ios *
Month of Service	<i>TES™</i> €/MWh net**	<i>TATRS</i> ^{cr} €/MWh net**	Passengers rc ^{cc} (Wh/TKB)	Passengers rg ^a (Wh/TKB)	Freight rc co (Wh/TKB)	Freight rg " (Wh/TKB)
jan-23	192.85*	36.51*	52.15*	6.78*	18.63*	2.42*
feb-23	192.85*	41.33*	52.15*	6.78*	18.63*	2.42*
mar-23	192.85*	37.57*	52.15*	6.78*	18.63*	2.42*
apr-23	244.16*	34.50*	52.15*	6.78*	18.63*	2.42*
may-23	244.16*	33.16*	52.15*	6.78*	18.63*	2.42*
jun-23	244.16*	32.16*	52.15*	6.78*	18.63*	2.42*
jul-23	253.23*	43.36*	52.15*	6.78*	18.63*	2.42*
aug-23	253.23*	30.69*	52.15*	6.78*	18.63*	2.42*
sep-23	253.23*	31.16*	52.15*	6.78*	18.63*	2.42*
oct-23	264.63*	28.72*	52.15*	6.78*	18.63*	2.42*
nov-23	264.64*	33.08*	52.15*	6.78*	18.63*	2.42*
dec-23	264.64*	41.76*	52.15*	6.78*	18.63*	2.42*

^{*} Reference Prices/Ratios estimated as of 05/09/2022 are not binding to invoice. The energy cost estimate from January to May 2023 does not include the effects of the cost excess generated by the gas cap mechanism. as set under Royal Decree-Law 10/2022. of 13 May. temporarily setting a mechanism to adjust production costs and reduce the price of electricity on the wholesale market. The volatility of this excess cost together with the large number of uncertain figures depending thereupon. prevent from giving a limited estimate of the value of this excess in said period.

Published on 7 December 2022



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9. MAP

^{**} net = consumed - compensable regenerated. considered at border point with the electricity sector.



MONTHLY PUBLICATION OF PRICES AND RATIOS THAT WILL BE USED TO ISSUE THE CORRESPONDING INVOICE FOR THE SERVICES PERFORMED IN AUGUST 2023.

SC-2	Reviewed i	reference / g prices *		R	eviewed refe	erence / Inv	oicing conve	ersión ratios	; *	
Month of service	<i>TE^{ccC}</i> €/MWh net**	TATR ^{ccC} €/MWh net**	Freight rc" ^{cc} (Wh/TKB)	Freight rg "" (Wh/TKB)	Long distance rc _{li} ^{cc} (Wh/TKB)	Long distance rg៉ូ ^{cc} (Wh/TKB)	Medium Distance rc _{md} ^{cc} (Wh/TKB)	Medium Distance rg _{md} ccc (Wh/TKB)	Commuter rc ^{cc} (Wh/TKB)	Commuter rg (^{(C} (Wh/TKB)
jan-23	99.67034293	49.71432141	20.29957300	2.02995730	32.47931681	3.24793168	36.53923141	3.65392314	52.77888981	5.27788898
feb-23	153.40454695	51.13252109	20.31363094	2.03136309	32.50180951	3.25018095	36.56453569	3.65645357	52.81544045	5.28154404
mar-23	109.73395710	38.97547394	19.66360640	1.96636064	31.46177024	3.14617702	35.39449152	3.53944915	51.12537664	5.11253766
apr-23	95.89919883	28.22591127	19.25391818	1.92539182	30.80626909	3.08062691	34.65705272	3.46570527	50.06018727	5.00601873
may-23	96.11163925	27.62834983	19.04080026	1.90408003	30.46528041	3.04652804	34.27344046	3.42734405	49.50608067	4.95060807
jun-23	117.62878721	32.01700067	18.94797395	1.89479739	30.31675831	3.03167583	34.10635310	3.41063531	49.26473226	4.92647323
jul-23	114.28483016	46.63550214	19.59911535	1.95991154	31.35858456	3.13585846	35.27840763	3.52784076	50.95769991	5.09576999
aug-23	120.10760225	33.37337452	19.80696332	1.98069633	31.69114131	3.16911413	35.65253397	3.56525340	51.49810463	5.14981046
sep-23	123.88*	31.86*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*
oct-23	123.79*	26.60*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*
nov-23	135.94*	39.18*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*
dec-23	142.33*	47.70*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*

^{*} Reference Prices/Ratios estimated as of 09/20/2023 are not binding to invoice. The energy cost estimate from September 2023 to December 2023 does not include the effects of the cost excess generated by the gas cap mechanism. as set under Royal Decree-Law 10/2022. of 13 May. temporarily setting a mechanism to adjust production costs and reduce the price of electricity on the wholesale market. The volatility of this excess cost together with the large number of uncertain figures depending thereupon. prevent from giving a limited estimate of the value of this excess in said period.

Published on 27 September 2023



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^{**} net = consumed - compensable regenerated. considered at border point with the electricity sector.



MONTHLY PUBLICATION OF PRICES AND RATIOS THAT WILL BE USED TO ISSUE THE CORRESPONDING INVOICE FOR THE SERVICES PERFORMED IN JULY 2023.

SC-2	Reviewed I	reference / g prices *		R	eviewed refe	erence / Inv	oicing conve	ersión ratios	; *	
Month of service	<i>TE^{ccC}</i> €/MWh net**	TATR ^{ccC} €/MWh net**	Freight rc" ^{cc} (Wh/TKB)	Freight rg (Wh/TKB)	Long distance $rc_{ld}^{\ acc}$ (Wh/TKB)	Long distance rg៉ ^{ແc} (Wh/TKB)	Medium Distance rc _{md} ^{cc} (Wh/TKB)	Medium Distance rg _{md} ccc (Wh/TKB)	Commuter rc _ε ^{ες} (Wh/TKB)	Commuter rg ^{cc} (Wh/TKB)
jan-23	99.67034293	49.71432141	20.29957300	2.02995730	32.47931681	3.24793168	36.53923141	3.65392314	52.77888981	5.27788898
feb-23	153.40454695	51.13252109	20.31363094	2.03136309	32.50180951	3.25018095	36.56453569	3.65645357	52.81544045	5.28154404
mar-23	109.73395710	38.97547394	19.66360640	1.96636064	31.46177024	3.14617702	35.39449152	3.53944915	51.12537664	5.11253766
apr-23	95.89919883	28.22591127	19.25391818	1.92539182	30.80626909	3.08062691	34.65705272	3.46570527	50.06018727	5.00601873
may-23	96.11163925	27.62834983	19.04080026	1.90408003	30.46528041	3.04652804	34.27344046	3.42734405	49.50608067	4.95060807
jun-23	117.62878721	32.01700067	18.94797395	1.89479739	30.31675831	3.03167583	34.10635310	3.41063531	49.26473226	4.92647323
jul-23	114.28483016	46.63550214	19.59911535	1.95991154	31.35858456	3.13585846	35.27840763	3.52784076	50.95769991	5.09576999
aug-23	119.24*	32.03*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*
sep-23	118.96*	31.86*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*
oct-23	124.59*	26.60*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*
nov-23	144.29*	39.18*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*
dec-23	150.18*	47.70*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*

^{*} Reference Prices/Ratios estimated as of 08/24/2023 are not binding to invoice. The energy cost estimate from August 2023 to December 2023 does not include the effects of the cost excess generated by the gas cap mechanism. as set under Royal Decree-Law 10/2022. of 13 May. temporarily setting a mechanism to adjust production costs and reduce the price of electricity on the wholesale market. The volatility of this excess cost together with the large number of uncertain figures depending thereupon. prevent from giving a limited estimate of the value of this excess in said period.

Published on 28 August 2023



I. GRAL.INF. $\, \, / \,$ 2. INF

^{**} net = consumed - compensable regenerated. considered at border point with the electricity sector.



MONTHLY PUBLICATION OF PRICES AND RATIOS THAT WILL BE USED TO ISSUE THE CORRESPONDING INVOICE FOR THE SERVICES PERFORMED IN JUNE 2023.

SC-2		reference / g prices *		R	eviewed refe	erence / Inv	oicing conve	ersión ratios	; *	
Month of service	<i>TE^{ccC}</i> €/MWh net**	<i>TATR</i> ^{cc¢} €/MWh net**	Freight rc _m cc (Wh/TKB)	Freight rg "« (Wh/TKB)	Long distance rc _{ld} ^{cc} (Wh/TKB)	Long distance rg, ^{cc} (Wh/TKB)	Medium Distance rc _{md} ^{ccc} (Wh/TKB)	Medium Distance rg _{md} ccc (Wh/TKB)	Commuter rc ^ω (Wh/TKB)	Commuter rg; ^{cc} (Wh/TKB)
jan-23	99.67034293	49.71432141	20.29957300	2.02995730	32.47931681	3.24793168	36.53923141	3.65392314	52.77888981	5.27788898
feb-23	153.40454695	51.13252109	20.31363094	2.03136309	32.50180951	3.25018095	36.56453569	3.65645357	52.81544045	5.28154404
mar-23	109.73395710	38.97547394	19.66360640	1.96636064	31.46177024	3.14617702	35.39449152	3.53944915	51.12537664	5.11253766
apr-23	95.89919883	28.22591127	19.25391818	1.92539182	30.80626909	3.08062691	34.65705272	3.46570527	50.06018727	5.00601873
may-23	96.11163925	27.62834983	19.04080026	1.90408003	30.46528041	3.04652804	34.27344046	3.42734405	49.50608067	4.95060807
jun-23	117.62878721	32.01700067	18.94797395	1.89479739	30.31675831	3.03167583	34.10635310	3.41063531	49.26473226	4.92647323
jul-23	113.69*	48.56*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*
aug-23	115.74*	32.03*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*
sep-23	117.62*	31.86*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*
oct-23	126.48*	26.60*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*
nov-23	151.16*	39.18*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*
dec-23	163.16*	47.70*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*

^{*} Reference Prices/Ratios estimated as of 07/24/2023 are not binding to invoice. The energy cost estimate from July to December 2023 does not include the effects of the cost excess generated by the gas cap mechanism. as set under Royal Decree-Law 10/2022. of 13 May. temporarily setting a mechanism to adjust production costs and reduce the price of electricity on the wholesale market. The volatility of this excess cost together with the large number of uncertain figures depending thereupon. prevent from giving a limited estimate of the value of this excess in said period.

Published on 27 July 2023



I. GRAL.INF. / 2. IN

^{**} net = consumed - compensable regenerated. considered at border point with the electricity sector.



MONTHLY PUBLICATION OF PRICES AND RATIOS THAT WILL BE USED TO ISSUE THE CORRESPONDING INVOICE FOR THE SERVICES PERFORMED IN MAY 2023.

SC-2		reference / g prices *	Reviewed reference / Invoicing conversión ratios *									
Month of service	<i>TE</i> ^{ccc} €/MWh net**	<i>TATR</i> ^{ccc} €/MWh net**	Freight rc _m ^{ccc} (Wh/TKB)	Freight rg cc (Wh/TKB)	Long distance rc _i ^{cc} (Wh/TKB)	Long distance rg ^{cc} (Wh/TKB)	Medium Distance rc_{md}^{ccc} (Wh/TKB)	Medium Distance rg _m ^{ccc} (Wh/TKB)	Commuter رر ^{دد} (Wh/TKB)	Commuter rg ccc (Wh/TKB)		
jan-23	99.67034293	49.71432141	20.29957300	2.02995730	32.47931681	3.24793168	36.53923141	3.65392314	52.77888981	5.27788898		
feb-23	153.40454695	51.13252109	20.31363094	2.03136309	32.50180951	3.25018095	36.56453569	3.65645357	52.81544045	5.28154404		
mar-23	109.73395710	38.97547394	19.66360640	1.96636064	31.46177024	3.14617702	35.39449152	3.53944915	51.12537664	5.11253766		
apr-23	95.89919883	28.22591127	19.25391818	1.92539182	30.80626909	3.08062691	34.65705272	3.46570527	50.06018727	5.00601873		
may-23	96.11163925	27.62834983	19.04080026	1.90408003	30.46528041	3.04652804	34.27344046	3.42734405	49.50608067	4.95060807		
jun-23	118.97*	32.00*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
jul-23	135.60*	48.56*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
aug-23	133.46*	32.03*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
sep-23	137.83*	31.86*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
oct-23	138.29*	26.60*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
nov-23	151.16*	39.18*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
dec-23	162.50*	47.70*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		

^{*} Reference Prices/Ratios estimated as of 06/21/2023 are not binding to invoice. The energy cost estimate from June to December 2023 does not include the effects of the cost excess generated by the gas cap mechanism. as set under Royal Decree-Law 10/2022. of 13 May. temporarily setting a mechanism to adjust production costs and reduce the price of electricity on the wholesale market. The volatility of this excess cost together with the large number of uncertain figures depending thereupon. prevent from giving a limited estimate of the value of this excess in said period.

Published on 26 June 2023



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9. MAP

/ 10. Catalog

^{**} net = consumed - compensable regenerated. considered at border point with the electricity sector.



MONTHLY PUBLICATION OF PRICES AND RATIOS THAT WILL BE USED TO ISSUE THE CORRESPONDING INVOICE FOR THE SERVICES PERFORMED IN APRIL 2023.

SC-2		reference / g prices *		R	eviewed refe	erence / Inv	oicing conve	ersión ratios	5 *	
Month of service	<i>TE^{ccC}</i> €/MWh net**	TATR ^{ccC} €/MWh net**	Freight rc" ^{cc} (Wh/TKB)	Freight rg "" (Wh/TKB)	Long distance $rc_{ld}^{\ acc}$ (Wh/TKB)	Long distance rg៉ ^{ແc} (Wh/TKB)	Medium Distance rc _{md} ^{cc} (Wh/TKB)	Medium Distance rg _{md} ccc (Wh/TKB)	Commuter rc ^{,«c} (Wh/TKB)	Commuter rgॣ ^{cc} (Wh/TKB)
jan-23	99.67034293	49.71432141	20.29957300	2.02995730	32.47931681	3.24793168	36.53923141	3.65392314	52.77888981	5.27788898
feb-23	153.40454695	51.13252109	20.31363094	2.03136309	32.50180951	3.25018095	36.56453569	3.65645357	52.81544045	5.28154404
mar-23	109.73395710	38.97547394	19.66360640	1.96636064	31.46177024	3.14617702	35.39449152	3.53944915	51.12537664	5.11253766
apr-23	95.89919883	28.22591127	19.25391818	1.92539182	30.80626909	3.08062691	34.65705272	3.46570527	50.06018727	5.00601873
may-23	93.99*	27.64*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*
jun-23	104.47*	32.00*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*
jul-23	106.08*	48.56*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*
aug-23	109.50*	32.03*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*
sep-23	117.35*	31.86*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*
oct-23	135.07*	26.60*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*
nov-23	135.06*	39.18*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*
dec-23	135.09*	47.70*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*

^{*} Reference Prices/Ratios estimated as of 05/24/2023 are not binding to invoice. The energy cost estimate from May to December 2023 does not include the effects of the cost excess generated by the gas cap mechanism. as set under Royal Decree-Law 10/2022. of 13 May. temporarily setting a mechanism to adjust production costs and reduce the price of electricity on the wholesale market. The volatility of this excess cost together with the large number of uncertain figures depending thereupon. prevent from giving a limited estimate of the value of this excess in said period.

Published on 30 May 2023



1. GRAL.INF. / 2. IN

/ 3. AC

3. ACCES.COND

4. CAPACITY ALLOCATION 5. SERVICES AND CHARGE 6. OPERATION

7. SERVICE

/ 8. ANN

/9. MAPS

/ 10. Catalog

^{**} net = consumed - compensable regenerated. considered at border point with the electricity sector.



MONTHLY PUBLICATION OF PRICES AND RATIOS THAT WILL BE USED TO ISSUE THE CORRESPONDING INVOICE FOR THE SERVICES PERFORMED IN MARCH 2023.

SC-2		reference / g prices *		R	eviewed refe	erence / Inv	oicing conve	ersión ratios	; *	
Month of service	<i>TE^{ccC}</i> €/MWh net**	TATR ^{ccC} €/MWh net**	Freight rc" ^{««} (Wh/TKB)	Freight rg "" (Wh/TKB)	Long distance rc _{id} ^{cc} (Wh/TKB)	Long distance rgູ່ ^{ແc} (Wh/TKB)	Medium Distance rc _m ^{ccc} (Wh/TKB)	Medium Distance rg _{md} ccc (Wh/TKB)	Commuter rc ^{cc} (Wh/TKB)	Commuter rg (^{cc} (Wh/TKB)
jan-23	99.67034293	49.71432141	20.29957300	2.02995730	32.47931681	3.24793168	36.53923141	3.65392314	52.77888981	5.27788898
feb-23	153.40454695	51.13252109	20.31363094	2.03136309	32.50180951	3.25018095	36.56453569	3.65645357	52.81544045	5.28154404
mar-23	109.73395710	38.97547394	19.66360640	1.96636064	31.46177024	3.14617702	35.39449152	3.53944915	51.12537664	5.11253766
apr-23	94.73*	31.27*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*
may-23	122.18*	27.64*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*
jun-23	132.92*	32.00*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*
jul-23	144.73*	48.56*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*
aug-23	142.27*	32.03*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*
sep-23	141.51*	31.86*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*
oct-23	158.69*	26.60*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*
nov-23	158.68*	39.18*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*
dec-23	158.71*	47.70*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*

^{*} Reference Prices/Ratios estimated as of 04/24/2023 are not binding to invoice. The energy cost estimate from April to May 2023 does not include the effects of the cost excess generated by the gas cap mechanism. as set under Royal Decree-Law 10/2022. of 13 May. temporarily setting a mechanism to adjust production costs and reduce the price of electricity on the wholesale market. The volatility of this excess cost together with the large number of uncertain figures depending thereupon. prevent from giving a limited estimate of the value of this excess in said period.

Published on 26 April 2023



1. GRAL.INF. $\, / \,$ 2. INFF

^{**} net = consumed - compensable regenerated. considered at border point with the electricity sector.



MONTHLY PUBLICATION OF PRICES AND RATIOS THAT WILL BE USED TO ISSUE THE CORRESPONDING INVOICE FOR THE SERVICES PERFORMED IN FEBRUARY 2023.

SC-2		reference / g prices *	Reviewed reference / Invoicing conversión ratios *									
Month of service	<i>TE</i> ^{ccc} €/MWh net**	TATR ^{ccc} €/MWh net**	Freight rc_m ^{cc} (Wh/TKB)	Freight rgg (CC (Wh/TKB)	Long distance rc _i ^{cc} (Wh/TKB)	Long distance rg ^{cc} (Wh/TKB)	Medium Distance rc _m ccc (Wh/TKB)	Medium Distance rg _m ^{ccc} (Wh/TKB)	Commuter κ ^{(cc} (Wh/TKB)	Commuter rg ccc (Wh/TKB)		
jan-23	99.67034293	49.71432141	20.29957300	2.02995730	32.47931681	3.24793168	36.53923141	3.65392314	52.77888981	5.27788898		
feb-23	153.40454695	51.13252109	20.31363094	2.03136309	32.50180951	3.25018095	36.56453569	3.65645357	52.81544045	5.28154404		
mar-23	118.60*	53.38*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
apr-23	116.82*	31.27*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
may-23	133.27*	27.64*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
jun-23	140.52*	32.00*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
jul-23	144.08*	48.56*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
aug-23	140.33*	32.03*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
sep-23	140.06*	31.86*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
oct-23	152.24*	26.60*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
nov-23	152.24*	39.18*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
dec-23	152.26*	47.70*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		

^{*} Reference Prices/Ratios estimated as of 03/22/2023 are not binding to invoice. The energy cost estimate from March to May 2023 does not include the effects of the cost excess generated by the gas cap mechanism. as set under Royal Decree-Law 10/2022. of 13 May. temporarily setting a mechanism to adjust production costs and reduce the price of electricity on the wholesale market. The volatility of this excess cost together with the large number of uncertain figures depending thereupon. prevent from giving a limited estimate of the value of this excess in said period.

Published on 24 March 2023



. GRAL.INF. / 2. INFRA

^{**} net = consumed - compensable regenerated. considered at border point with the electricity sector.



MONTHLY PUBLICATION OF PRICES AND RATIOS THAT WILL BE USED TO ISSUE THE CORRESPONDING INVOICE FOR THE SERVICES PERFORMED IN JANUARY 2023.

SC-2		reference ng prices *	Reviewed reference / Invoicing conversión ratios *									
Month of service	<i>TE</i> ^{ccc} €/MWh net**	TATR ^{ccc} €/MWh net**	Freight rc" ^{«C} (Wh/TKB)	Freight rgg (CC (Wh/TKB)	Long distance rc _i ^{cc} (Wh/TKB)	Long distance rg, ^{cc} (Wh/TKB)	Medium Distance rc _m ^{ccc} (Wh/TKB)	Medium Distance $rg_{md}^{\ \ cc}$ (Wh/TKB)	Commuter κ ^{(«} (Wh/TKB)	Commuter rg; ^{cc} (Wh/TKB)		
jan-23	99.67034293	49.71432141	20.29957300	2.02995730	32.47931681	3.24793168	36.53923141	3.65392314	52.77888981	5.27788898		
feb-23	151.92*	69.44*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
mar-23	125.16*	53.38*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
apr-23	128.51*	31.27*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
may-23	145.15*	27.64*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
jun-23	155.74*	32.00*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
jul-23	160.33*	48.56*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
aug-23	160.33*	32.03*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
sep-23	160.33*	31.86*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
oct-23	170.00*	26.60*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
nov-23	169.99*	39.18*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
dec-23	170.02*	47.70*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		

^{*} Reference Prices/Ratios estimated as of 02/20/2023 are not binding to invoice. The energy cost estimate from February to May 2023 does not include the effects of the cost excess generated by the gas cap mechanism. as set under Royal Decree-Law 10/2022. of 13 May. temporarily setting a mechanism to adjust production costs and reduce the price of electricity on the wholesale market. The volatility of this excess cost together with the large number of uncertain figures depending thereupon. prevent from giving a limited estimate of the value of this excess in said period.

Published on 23 February 2023



. GRAL.INF. / 2. INFR.

^{**} net = consumed - compensable regenerated. considered at border point with the electricity sector.





SC-2_ANNUAL PUBLICATION OF THE FORECAST (*) OF THE SUPPLY COST RATES FOR ELECTRIFIED LINES IN DIRECT CURRENT IN THE CONVENTIONAL NETWORK FOR 2023:

SC-2		d reference ng prices *										
Month of service	<i>TE</i> ^{cc} €/MWh net**	<i>TATR</i> ^{ccc} €/MWh net**	Freight rc"" (Wh/TKB)	Freight rg mc (Wh/TKB)	Long distance rc _i ^{cc} (Wh/TKB)	Long distance rg ^{cc} (Wh/TKB)	Medium Distance rc _{md} ccc (Wh/TKB)	Medium Distance rg _{md} cc (Wh/TKB)	Commuter rc (C) (Wh/TKB)	Commuter rg ccc (Wh/TKB)		
jan-23	177.03*	57.84*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
feb-23	184.21*	61.02*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
mar-23	189.78*	47.67*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
apr-23	184.19*	30.12*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
may-23	212.95*	29.99*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
jun-23	221.68*	37.84*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
jul-23	241.86*	60.55*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
aug-23	241.86*	38.99*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
sep-23	241.86*	37.37*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
oct-23	264.61*	31.33*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
nov-23	264.60*	47.31*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		
dec-23	264.62*	59.85*	19.12*	1.92*	30.59*	3.06*	34.41*	3.44*	49.71*	4.97*		

^{*} Reference Prices/Ratios estimated as of 16/12/2022 are not binding to invoice. The energy cost estimate from January to May 2023 does not include the effects of the cost excess generated by the gas cap mechanism. as set under Royal Decree-Law 10/2022. of 13 May. temporarily setting a mechanism to adjust production costs and reduce the price of electricity on the wholesale market. The volatility of this excess cost together with the large number of uncertain figures depending thereupon. prevent from giving a limited estimate of the value of this excess in said period.

Published on 28 December 2022



^{**} net = consumed - compensable regenerated. considered at border point with the electricity sector.





SC-2_ANNUAL PUBLICATION OF THE FORECAST (*) OF THE SUPPLY COST RATES FOR ELECTRIFIED LINES IN DIRECT CURRENT IN THE CONVENTIONAL NETWORK FOR 2023:

SC-2		d reference ng prices *	Reviewed reference / Invoicing conversión ratios *									
Month of service	<i>TE</i> ^{ccc} €/MWh net**	<i>TATR</i> ^{ccc} €/MWh net**	Freight rc, "C" (Wh/TKB)	Freight rg mc (Wh/TKB)	Long distance rc _i ^{cc} (Wh/TKB)	Long distance rg ^{cc} (Wh/TKB)	Medium Distance rc _{md} ccc (Wh/TKB)	Medium Distance rg _{md} cc (Wh/TKB)	Commuter rc (C) (Wh/TKB)	Commuter rg ccc (Wh/TKB)		
jan-23	199.56*	62.84*	22.17*	2.22*	35.46*	3.55*	39.90*	3.99*	57.63*	5.76*		
feb-23	199.56*	66.02*	22.17*	2.22*	35.46*	3.55*	39.90*	3.99*	57.63*	5.76*		
mar-23	199.57*	52.67*	22.17*	2.22*	35.46*	3.55*	39.90*	3.99*	57.63*	5.76*		
apr-23	252.71*	35.12*	22.17*	2.22*	35.46*	3.55*	39.90*	3.99*	57.63*	5.76*		
may-23	252.71*	34.99*	22.17*	2.22*	35.46*	3.55*	39.90*	3.99*	57.63*	5.76*		
jun-23	252.71*	42.84*	22.17*	2.22*	35.46*	3.55*	39.90*	3.99*	57.63*	5.76*		
jul-23	262.10*	65.55*	22.17*	2.22*	35.46*	3.55*	39.90*	3.99*	57.63*	5.76*		
aug-23	262.10*	43.99*	22.17*	2.22*	35.46*	3.55*	39.90*	3.99*	57.63*	5.76*		
sep-23	262.10*	42.37*	22.17*	2.22*	35.46*	3.55*	39.90*	3.99*	57.63*	5.76*		
oct-23	273.91*	36.33*	22.17*	2.22*	35.46*	3.55*	39.90*	3.99*	57.63*	5.76*		
nov-23	273.91*	52.31*	22.17*	2.22*	35.46*	3.55*	39.90*	3.99*	57.63*	5.76*		
dec-23	273.92*	64.85*	22.17*	2.22*	35.46*	3.55*	39.90*	3.99*	57.63*	5.76*		

^{*} Reference Prices/Ratios estimated as of 05/09/2022 are not binding to invoice. The energy cost estimate from January to May 2023 does not include the effects of the cost excess generated by the gas cap mechanism. as set under Royal Decree-Law 10/2022. of 13 May. temporarily setting a mechanism to adjust production costs and reduce the price of electricity on the wholesale market. The volatility of this excess cost together with the large number of uncertain figures depending thereupon. prevent from giving a limited estimate of the value of this excess in said period.

Published on 7 December 2022



I. GRAL.INF. / 2. INFR.

₹. / :

3. ACCES.COND

4. CAPACITY

5. SERVICES

6. OPERATION

7. SERVICE

/ 8. ANN

/9. MAPS

^{**} net = consumed - compensable regenerated. considered at border point with the electricity sector.



MONTHLY PUBLICATION OF PRICES AND RATIOS THAT WILL BE USED TO ISSUE THE CORRESPONDING INVOICE FOR THE SERVICES PERFORMED IN AUGUST 2023.

SC-2	Reviewed r Invoicing		Reviewed		Invoicing co	onversión
Month of service	<i>TE^{ccR}</i> €/MWh net**	<i>TATR^{ccR}</i> €/MWh net**	Passengers rc, ^{cck} (Wh/TKB)	Passengers $rg_{_{_{V}}}^{_{_{_{\mathrm{CR}}}}}$ (Wh/TKB)	Freight rc _m cck (Wh/TKB)	Freight rg, ^{cck} (Wh/TKB)
jan-23	93.49960364	37.25570386	61.06097137	6.10609714	23.48498899	2.34849890
feb-23	151.49264829	36.92143296	60.35583444	6.03558344	23.21378248	2.32137825
mar-23	103.26022958	32.18423939	55.29770711	5.52977071	21.26834889	2.12683489
apr-23	93.45631478	27.43470654	53.89283061	5.38928306	20.72801177	2.07280118
may-23	94.22793441	26.59758610	52.27281186	5.22728119	20.10492764	2.01049276
jun-23	116.11350035	29.68456744	52.25126272	5.22512627	20.09663951	2.00966395
jul-23	112.80057400	47.19136793	52.86298002	5.28629800	20.33191539	2.03319154
aug-23	118.95995893	29.45692783	53.79409895	5.37940989	20.69003806	2.06900381
sep-23	124.53*	28.60*	53.73*	5.37*	20.67*	2.07*
oct-23	124.45*	23.87*	53.73*	5.37*	20.67*	2.07*
nov-23	136.64*	35.65*	53.73*	5.37*	20.67*	2.07*
dec-23	143.03*	44.89*	53.73*	5.37*	20.67*	2.07*

^{*} Reference Prices/Ratios estimated as of 09/20/2023 are not binding to invoice. The energy cost estimate from September 2023 to December 2023 does not include the effects of the cost excess generated by the gas cap mechanism. as set under Royal Decree-Law 10/2022. of 13 May. temporarily setting a mechanism to adjust production costs and reduce the price of electricity on the wholesale market. The volatility of this excess cost together with the large number of uncertain figures depending thereupon. prevent from giving a limited estimate of the value of this excess in said period.

Published on 27 September 2023



GRAL.INF. / 2. INFRAS

^{**} net = consumed - compensable regenerated. considered at border point with the electricity sector.



MONTHLY PUBLICATION OF PRICES AND RATIOS THAT WILL BE USED TO ISSUE THE CORRESPONDING INVOICE FOR THE SERVICES PERFORMED IN JULY 2023.

SC-2	Reviewed r Invoicing		Reviewed		Invoicing co	onversión
Month of service	<i>TE^{ccR}</i> €/MWh net**	TATR ^{ccR} €/MWh net**	Passengers rc_v^{cd} (Wh/TKB)	Passengers $rg_{_{_{V}}}^{_{_{_{\mathrm{CR}}}}}}$ (Wh/TKB)	Freight rc, cck (Wh/TKB)	Freight rg, ^{cck} (Wh/TKB)
jan-23	93.49960364	37.25570386	61.06097137	6.10609714	23.48498899	2.34849890
feb-23	151.49264829	36.92143296	60.35583444	6.03558344	23.21378248	2.32137825
mar-23	103.26022958	32.18423939	55.29770711	5.52977071	21.26834889	2.12683489
apr-23	93.45631478	27.43470654	53.89283061	5.38928306	20.72801177	2.07280118
may-23	94.22793441	26.59758610	52.27281186	5.22728119	20.10492764	2.01049276
jun-23	116.11350035	29.68456744	52.25126272	5.22512627	20.09663951	2.00966395
jul-23	112.80057400	47.19136793	52.86298002	5.28629800	20.33191539	2.03319154
aug-23	119.88*	44.47*	53.73*	5.37*	20.67*	2.07*
sep-23	119.60*	28.60*	53.73*	5.37*	20.67*	2.07*
oct-23	125.24*	23.87*	53.73*	5.37*	20.67*	2.07*
nov-23	145.02*	35.65*	53.73*	5.37*	20.67*	2.07*
dec-23	150.91*	44.89*	53.73*	5.37*	20.67*	2.07*

^{*} Reference Prices/Ratios estimated as of 08/24/2023 are not binding to invoice. The energy cost estimate from August 2023 to December 2023 does not include the effects of the cost excess generated by the gas cap mechanism. as set under Royal Decree-Law 10/2022. of 13 May. temporarily setting a mechanism to adjust production costs and reduce the price of electricity on the wholesale market. The volatility of this excess cost together with the large number of uncertain figures depending thereupon. prevent from giving a limited estimate of the value of this excess in said period.

Published on 28 August 2023



1. GRAL.INF. / 2

STR.

3. ACCES.CON

4. CAPACIT' ALLOCATIOI 5. SERVICES

6. OPERATIONS

7. SERVICE

/ 8. ANN

9. MAPS

^{**} net = consumed - compensable regenerated. considered at border point with the electricity sector.



MONTHLY PUBLICATION OF PRICES AND RATIOS THAT WILL BE USED TO ISSUE THE CORRESPONDING INVOICE FOR THE SERVICES PERFORMED IN JUNE 2023.

		Reviewed			onversión
<i>TE^{ccR}</i> €/MWh net**	<i>TATR^{ccR}</i> €/MWh net**	Passengers rc, ^{cck} (Wh/TKB)	Passengers $rg_{_{_{V}}}^{cck}$ (Wh/TKB)	Freight rc _m cck (Wh/TKB)	Freight rg, ^{cce} (Wh/TKB)
93.49960364	37.25570386	61.06097137	6.10609714	23.48498899	2.34849890
151.49264829	36.92143296	60.35583444	6.03558344	23.21378248	2.32137825
103.26022958	32.18423939	55.29770711	5.52977071	21.26834889	2.12683489
93.45631478	27.43470654	53.89283061	5.38928306	20.72801177	2.07280118
94.22793441	26.59758610	52.27281186	5.22728119	20.10492764	2.01049276
116.11350035	29.68456744	52.25126272	5.22512627	20.09663951	2.00966395
114.31*	91.99*	53.73*	5.37*	20.67*	2.07*
116.37*	44.47*	53.73*	5.37*	20.67*	2.07*
118.25*	28.60*	53.73*	5.37*	20.67*	2.07*
127.14*	23.87*	53.73*	5.37*	20.67*	2.07*
151.92*	35.65*	53.73*	5.37*	20.67*	2.07*
163.93*	44.89*	53.73*	5.37*	20.67*	2.07*
	TE ^{ccR} €/MWh net** 93.49960364 151.49264829 103.26022958 93.45631478 94.22793441 116.11350035 114.31* 116.37* 118.25* 127.14* 151.92*	€/MWh net**€/MWh net**93.4996036437.25570386151.4926482936.92143296103.2602295832.1842393993.4563147827.4347065494.2279344126.59758610116.1135003529.68456744114.31*91.99*116.37*44.47*118.25*28.60*127.14*23.87*151.92*35.65*	Invoicing prices * TECCR	Invoicing prices * rate TEccR	Invoicing prices * Freight regards (Wh/TKB) Freight regards (Wh/TKB) Freight regards (Wh/TKB) 93.49960364 37.25570386 61.06097137 6.10609714 23.48498899 151.49264829 36.92143296 60.35583444 6.03558344 23.21378248 103.26022958 32.18423939 55.29770711 5.52977071 21.26834889 93.45631478 27.43470654 53.89283061 5.38928306 20.72801177 94.22793441 26.59758610 52.27281186 5.22728119 20.10492764 116.31350035 29.68456744 52.25126272 5.22512627 20.09663951 114.31* 91.99* 53.73* 5.37* 20.67* 118.25* 28.60* 53.73* 5.37* 20.67* 127.14* 23.87* 53.73* 5.37* 20.67* 151.92* 35.65* 53.73* 5.37* 20.67*

^{*} Reference Prices/Ratios estimated as of 07/24/2023 are not binding to invoice. The energy cost estimate from July to December 2023 does not include the effects of the cost excess generated by the gas cap mechanism. as set under Royal Decree-Law 10/2022. of 13 May. temporarily setting a mechanism to adjust production costs and reduce the price of electricity on the wholesale market. The volatility of this excess cost together with the large number of uncertain figures depending thereupon. prevent from giving a limited estimate of the value of this excess in said period.

Published on 27 July 2023



^{**} net = consumed - compensable regenerated. considered at border point with the electricity sector.



MONTHLY PUBLICATION OF PRICES AND RATIOS THAT WILL BE USED TO ISSUE THE CORRESPONDING INVOICE FOR THE SERVICES PERFORMED IN MAY 2023.

SC-2	Reviewed r Invoicing		Reviewed		Invoicing co	onversión
Month of service	<i>TE^{ccR}</i> €/MWh net**	<i>TATR^{ccR}</i> €/MWh net**	Passengers rc, ^{cck} (Wh/TKB)	Passengers $rg_{_{_{V}}}^{_{_{_{\mathrm{CR}}}}}$ (Wh/TKB)	Freight rc _m cck (Wh/TKB)	Freight rg, ^{cck} (Wh/TKB)
jan-23	93.49960364	37.25570386	61.06097137	6.10609714	23.48498899	2.34849890
feb-23	151.49264829	36.92143296	60.35583444	6.03558344	23.21378248	2.32137825
mar-23	103.26022958	32.18423939	55.29770711	5.52977071	21.26834889	2.12683489
apr-23	93.45631478	27.43470654	53.89283061	5.38928306	20.72801177	2.07280118
may-23	94.22793441	26.59758610	52.27281186	5.22728119	20.10492764	2.01049276
jun-23	119.60*	57.17*	53.73*	5.37*	20.67*	2.07*
jul-23	136.30*	91.99*	53.73*	5.37*	20.67*	2.07*
aug-23	134.14*	44.47*	53.73*	5.37*	20.67*	2.07*
sep-23	138.53*	28.60*	53.73*	5.37*	20.67*	2.07*
oct-23	138.99*	23.87*	53.73*	5.37*	20.67*	2.07*
nov-23	151.92*	35.65*	53.73*	5.37*	20.67*	2.07*
dec-23	163.26*	44.89*	53.73*	5.37*	20.67*	2.07*

^{*} Reference Prices/Ratios estimated as of 06/21/2023 are not binding to invoice. The energy cost estimate from June to December 2023 does not include the effects of the cost excess generated by the gas cap mechanism. as set under Royal Decree-Law 10/2022. of 13 May. temporarily setting a mechanism to adjust production costs and reduce the price of electricity on the wholesale market. The volatility of this excess cost together with the large number of uncertain figures depending thereupon. prevent from giving a limited estimate of the value of this excess in said period.

Published on 26 June 2023



^{**} net = consumed - compensable regenerated. considered at border point with the electricity sector.



MONTHLY PUBLICATION OF PRICES AND RATIOS THAT WILL BE USED TO ISSUE THE CORRESPONDING INVOICE FOR THE SERVICES PERFORMED IN APRIL 2023.

		Reviewed			onversión
<i>TE^{ccR}</i> €/MWh net**	<i>TATR^{ccR}</i> €/MWh net**	Passengers rc, ^{cck} (Wh/TKB)	Passengers $rg_{_{_{V}}}^{_{_{\mathrm{CR}}}}$ (Wh/TKB)	Freight rc _m cck (Wh/TKB)	Freight rg, ^{cck} (Wh/TKB)
93.49960364	37.25570386	61.06097137	6.10609714	23.48498899	2.34849890
151.49264829	36.92143296	60.35583444	6.03558344	23.21378248	2.32137825
103.26022958	32.18423939	55.29770711	5.52977071	21.26834889	2.12683489
93.45631478	27.43470654	53.89283061	5.38928306	20.72801177	2.07280118
94.54*	26.72*	53.73*	5.37*	20.67*	2.07*
105.05*	57.17*	53.73*	5.37*	20.67*	2.07*
106.67*	91.99*	53.73*	5.37*	20.67*	2.07*
110.11*	44.47*	53.73*	5.37*	20.67*	2.07*
117.98*	28.60*	53.73*	5.37*	20.67*	2.07*
135.76*	23.87*	53.73*	5.37*	20.67*	2.07*
135.76*	35.65*	53.73*	5.37*	20.67*	2.07*
135.76*	44.89*	53.73*	5.37*	20.67*	2.07*
	Invoicing TE ^{ccR} €/MWh net** 93.49960364 151.49264829 103.26022958 93.45631478 94.54* 105.05* 106.67* 110.11* 117.98* 135.76* 135.76*	€/MWh net**€/MWh net**93.4996036437.25570386151.4926482936.92143296103.2602295832.1842393993.4563147827.4347065494.54*26.72*105.05*57.17*106.67*91.99*110.11*44.47*117.98*28.60*135.76*23.87*135.76*35.65*	Invoicing prices * TECCR	Invoicing prices * rate TEccR	Invoicing prices * ratios TEccR €/MWh net** TATRccR €/MWh net** Passengers (Wh/TKB) Passengers (Wh/TKB) Freight rc cR (Wh/TKB) 93.49960364 37.25570386 61.06097137 6.10609714 23.48498899 151.49264829 36.92143296 60.35583444 6.03558344 23.21378248 103.26022958 32.18423939 55.29770711 5.52977071 21.26834889 93.45631478 27.43470654 53.89283061 5.38928306 20.72801177 94.54* 26.72* 53.73* 5.37* 20.67* 105.05* 57.17* 53.73* 5.37* 20.67* 106.67* 91.99* 53.73* 5.37* 20.67* 117.98* 28.60* 53.73* 5.37* 20.67* 135.76* 23.87* 53.73* 5.37* 20.67* 135.76* 35.65* 53.73* 5.37* 20.67*

^{*} Reference Prices/Ratios estimated as of 05/24/2023 are not binding to invoice. The energy cost estimate from May to December 2023 does not include the effects of the cost excess generated by the gas cap mechanism. as set under Royal Decree-Law 10/2022. of 13 May. temporarily setting a mechanism to adjust production costs and reduce the price of electricity on the wholesale market. The volatility of this excess cost together with the large number of uncertain figures depending thereupon. prevent from giving a limited estimate of the value of this excess in said period.

Published on 30 May 2023



[/] 1. GRAL.INF. /

/ 3. AC

3. ACCES.CONI

4. CAPACIT

5. SERVICES

6. OPERATION

7. SERVICE

/ 8. ANN

9. MAPS

10. CATALO

^{**} net = consumed - compensable regenerated. considered at border point with the electricity sector.



MONTHLY PUBLICATION OF PRICES AND RATIOS THAT WILL BE USED TO ISSUE THE CORRESPONDING INVOICE FOR THE SERVICES PERFORMED IN MARCH 2023.

		Reviewed			onversión
<i>TE^{ccR}</i> €/MWh net**	<i>TATR^{ccR}</i> €/MWh net**	Passengers rc, ^{cck} (Wh/TKB)	Passengers $rg_{_{_{V}}}^{_{_{\mathrm{CR}}}}$ (Wh/TKB)	Freight rc, cct (Wh/TKB)	Freight rg _m ^{cck} (Wh/TKB)
93.49960364	37.25570386	61.06097137	6.10609714	23.48498899	2.34849890
151.49264829	36.92143296	60.35583444	6.03558344	23.21378248	2.32137825
103.26022958	32.18423939	55.29770711	5.52977071	21.26834889	2.12683489
95.28*	31.40*	53.73*	5.37*	20.67*	2.07*
122.83*	26.72*	53.73*	5.37*	20.67*	2.07*
133.60*	57.17*	53.73*	5.37*	20.67*	2.07*
145.46*	91.99*	53.73*	5.37*	20.67*	2.07*
142.99*	44.47*	53.73*	5.37*	20.67*	2.07*
142.22*	28.60*	53.73*	5.37*	20.67*	2.07*
159.46*	23.87*	53.73*	5.37*	20.67*	2.07*
159.46*	35.65*	53.73*	5.37*	20.67*	2.07*
159.46*	44.89*	53.73*	5.37*	20.67*	2.07*
	TE ^{ccR} €/MWh net** 93.49960364 151.49264829 103.26022958 95.28* 122.83* 133.60* 145.46* 142.99* 142.22* 159.46* 159.46*	€/MWh net**€/MWh net**93.4996036437.25570386151.4926482936.92143296103.2602295832.1842393995.28*31.40*122.83*26.72*133.60*57.17*145.46*91.99*142.99*44.47*142.22*28.60*159.46*23.87*159.46*35.65*	Invoicing prices * TECCR	Invoicing prices * rate TECCR	Invoicing prices * Freight regards (Wh/TKB) Freight regards (Wh/TKB) TEccR €/MWh net** TATRccR €/MWh net** Passengers (Wh/TKB) Preight regards (Wh/TKB) Freight regards (Wh/TKB) 93.49960364 37.25570386 61.06097137 6.10609714 23.48498899 151.49264829 36.92143296 60.35583444 6.03558344 23.21378248 103.26022958 32.18423939 55.29770711 5.52977071 21.26834889 95.28* 31.40* 53.73* 5.37* 20.67* 122.83* 26.72* 53.73* 5.37* 20.67* 133.60* 57.17* 53.73* 5.37* 20.67* 142.99* 44.47* 53.73* 5.37* 20.67* 142.22* 28.60* 53.73* 5.37* 20.67* 159.46* 23.87* 53.73* 5.37* 20.67* 159.46* 35.65* 53.73* 5.37* 20.67*

^{*} Reference Prices/Ratios estimated as of 04/24/2023 are not binding to invoice. The energy cost estimate from April to May 2023 does not include the effects of the cost excess generated by the gas cap mechanism. as set under Royal Decree-Law 10/2022. of 13 May. temporarily setting a mechanism to adjust production costs and reduce the price of electricity on the wholesale market. The volatility of this excess cost together with the large number of uncertain figures depending thereupon. prevent from giving a limited estimate of the value of this excess in said period.

Published on 26 April 2023



^{**} net = consumed - compensable regenerated. considered at border point with the electricity sector.



SC-2_COSTS FOR SUPPLYING DIRECT CURRENT TO ELECTRIFIED LINES ON RAM:

MONTHLY PUBLICATION OF PRICES AND RATIOS THAT WILL BE USED TO ISSUE THE CORRESPONDING INVOICE FOR THE SERVICES PERFORMED IN FEBRUARY 2023.

	SC-2	Reviewed reference / Reviewed reference / Invoicing conversión ratios					onversión
	lonth of ervice	€/MWh net**	€/MWh net**	Passengers (Wh/TKB)	Passengers (Wh/TKB)	Freight (Wh/TKB)	Freight (Wh/TKB)
j	an-23	93.49960364	37.25570386	61.06097137	6.10609714	23.48498899	2.34849890
f	eb-23	151.49264829	36.92143296	60.35583444	6.03558344	23.21378248	2.32137825
n	nar-23	112.91*	32.55*	53.73*	5.37*	20.67*	2.07*
ā	apr-23	117.44*	31.40*	53.73*	5.37*	20.67*	2.07*
n	nay-23	133.96*	26.72*	53.73*	5.37*	20.67*	2.07*
j	un-23	141.23*	57.17*	53.73*	5.37*	20.67*	2.07*
j	jul-23	144.81*	91.99*	53.73*	5.37*	20.67*	2.07*
а	aug-23	141.04*	44.47*	53.73*	5.37*	20.67*	2.07*
S	sep-23	140.77*	28.60*	53.73*	5.37*	20.67*	2.07*
(oct-23	153.00*	23.87*	53.73*	5.37*	20.67*	2.07*
r	nov-23	153.00*	35.65*	53.73*	5.37*	20.67*	2.07*
C	dec-23	153.00*	44.89*	53.73*	5.37*	20.67*	2.07*

^{*}Reference Prices/Ratios estimated as of 03/22/2023 are not binding to invoice. The energy cost estimate from March to May 2023 does not include the effects of the cost excess generated by the gas cap mechanism. as set under Royal Decree-Law 10/2022. of 13 May. temporarily setting a mechanism to adjust production costs and reduce the price of electricity on the wholesale market. The volatility of this excess cost together with the large number of uncertain figures depending thereupon. prevent from giving a limited estimate of the value of this excess in said period.

Published on 24 March 2023



. GRAL.INF. / 2. INFRA

^{**} net = consumed - compensable regenerated. considered at border point with the electricity sector.



MONTHLY PUBLICATION OF PRICES AND RATIOS THAT WILL BE USED TO ISSUE THE CORRESPONDING INVOICE FOR THE SERVICES PERFORMED IN JANUARY 2023.

Reviewed reference / Reviewed reference / Invoicing conversions Reviewed reference / Invoicing prices * ratios					onversión
<i>TE^{ccR}</i> €/MWh net**	<i>TATR^{ccR}</i> €/MWh net**	Passengers rc, ^{cck} (Wh/TKB)	Passengers $rg_{_{_{\!$	Freight rc, ^{cck} (Wh/TKB)	Freight rg _m ccR (Wh/TKB)
93.49960364	37.25570386	61.06097137	6.10609714	23.48498899	2.34849890
150.06*	37.26*	53.73*	5.37*	20.67*	2.07*
120.21*	39.40*	53.73*	5.37*	20.67*	2.07*
129.17*	31.40*	53.73*	5.37*	20.67*	2.07*
145.88*	26.72*	53.73*	5.37*	20.67*	2.07*
156.51*	57.17*	53.73*	5.37*	20.67*	2.07*
161.12*	91.99*	53.73*	5.37*	20.67*	2.07*
161.12*	44.47*	53.73*	5.37*	20.67*	2.07*
161.12*	28.60*	53.73*	5.37*	20.67*	2.07*
170.81*	23.87*	53.73*	5.37*	20.67*	2.07*
170.81*	35.65*	53.73*	5.37*	20.67*	2.07*
170.81*	44.89*	53.73*	5.37*	20.67*	2.07*
	Invoicing TE ^{CCR} €/MWh net** 93.49960364 150.06* 120.21* 129.17* 145.88* 156.51* 161.12* 161.12* 170.81* 170.81*	Invoicing prices * TEccR	Invoicing prices * TEccR	Invoicing prices * rate TEccR	Invoicing prices * Passengers rcycal (Wh/TKB) Passengers rgycal (Wh/TKB) Freight rcycal (Wh/TKB) 93.49960364 37.25570386 61.06097137 6.10609714 23.48498899 150.06* 37.26* 53.73* 5.37* 20.67* 120.21* 39.40* 53.73* 5.37* 20.67* 129.17* 31.40* 53.73* 5.37* 20.67* 145.88* 26.72* 53.73* 5.37* 20.67* 156.51* 57.17* 53.73* 5.37* 20.67* 161.12* 91.99* 53.73* 5.37* 20.67* 161.12* 44.47* 53.73* 5.37* 20.67* 161.12* 28.60* 53.73* 5.37* 20.67* 170.81* 23.87* 53.73* 5.37* 20.67* 170.81* 35.65* 53.73* 5.37* 20.67*

^{*} Reference Prices/Ratios estimated as of 02/20/2023 are not binding to invoice. The energy cost estimate from February to May 2023 does not include the effects of the cost excess generated by the gas cap mechanism. as set under Royal Decree-Law 10/2022. of 13 May. temporarily setting a mechanism to adjust production costs and reduce the price of electricity on the wholesale market. The volatility of this excess cost together with the large number of uncertain figures depending thereupon. prevent from giving a limited estimate of the value of this excess in said period.

Published on 23 February 2023



^{**} net = consumed - compensable regenerated. considered at border point with the electricity sector.





SC-2_ANNUAL PUBLICATION OF THE FORECAST (*) OF THE SUPPLY COST RATES FOR DIRECT CURRENT ELECTRIFIED LINES IN RAM FOR 2023:

SC-2	SC-2 Reviewed reference / Reviewed reference / Invoicing corrections			onversión		
Month of service	<i>TE^{ccR}</i> €/MWh net**	<i>TATR^{ccR}</i> €/MWh net**	Passengers rc, ^{cck} (Wh/TKB)	Passengers rg, ^{cck} (Wh/TKB)	Freight rc_{m}^{ccR} (Wh/TKB)	Freight rg mck (Wh/TKB)
jan-23	177.97*	42.60*	53.73*	5.37*	20.67*	2.07*
feb-23	185.93*	41.41*	53.73*	5.37*	20.67*	2.07*
mar-23	192.13*	34.93*	53.73*	5.37*	20.67*	2.07*
apr-23	185.40*	26.49*	53.73*	5.37*	20.67*	2.07*
may-23	214.27*	26.73*	53.73*	5.37*	20.67*	2.07*
jun-23	223.03*	30.64*	53.73*	5.37*	20.67*	2.07*
jul-23	243.29*	46.17*	53.73*	5.37*	20.67*	2.07*
aug-23	243.29*	29.90*	53.73*	5.37*	20.67*	2.07*
sep-23	243.29*	30.17*	53.73*	5.37*	20.67*	2.07*
oct-23	266.12*	26.53*	53.73*	5.37*	20.67*	2.07*
nov-23	266.12*	36.32*	53.73*	5.37*	20.67*	2.07*
dec-23	266.12*	42.48*	53.73*	5.37*	20.67*	2.07*

^{*} Reference Prices/Ratios estimated as of 16/12/2022 are not binding to invoice. The energy cost estimate from January to May 2023 does not include the effects of the cost excess generated by the gas cap mechanism. as set under Royal Decree-Law 10/2022. of 13 May. temporarily setting a mechanism to adjust production costs and reduce the price of electricity on the wholesale market. The volatility of this excess cost together with the large number of uncertain figures depending thereupon. prevent from giving a limited estimate of the value of this excess in said period.

Published on 28 December 2022



1. GRAL.INF. / 2. IN

ASTR. /

3. ACCES.CON

4. CAPACIT

5. SERVICES

6. OPERATIONS

7. SERVICE

/8. ANN

9. MAPS

^{**} net = consumed - compensable regenerated. considered at border point with the electricity sector.





SC-2_ANNUAL PUBLICATION OF THE FORECAST (*) OF THE SUPPLY COST RATES FOR DIRECT CURRENT ELECTRIFIED LINES IN RAM FOR 2023:

			Reviewed reference / Reviewed reference / Invoicing converse / Invoicing prices *				
Month of service	<i>TE^{ccR}</i> €/MWh net**	<i>TATR</i> ^{ccR} €/MWh net**	Passengers rc, ^{ccR} (Wh/TKB)	Passengers rg, ^{cck} (Wh/TKB)	Freight rc_m^{ccR} (Wh/TKB)	Freight rgm ^{cck} (Wh/TKB)	
jan-23	200.83*	47.60*	46.21*	4.62*	17.77*	1.78*	
feb-23	200.83*	46.41*	46.21*	4.62*	17.77*	1.78*	
mar-23	20.83*	39.93*	46.21*	4.62*	17.77*	1.78*	
apr-23	254.18*	31.49*	46.21*	4.62*	17.77*	1.78*	
may-23	254.18*	31.73*	46.21*	4.62*	17.77*	1.78*	
jun-23	254.18*	35.64*	46.21*	4.62*	17.77*	1.78*	
jul-23	263.60*	51.17*	46.21*	4.62*	17.77*	1.78*	
aug-23	263.60*	34.90*	46.21*	4.62*	17.77*	1.78*	
sep-23	263.60*	35.17*	46.21*	4.62*	17.77*	1.78*	
oct-23	275.46*	31.53*	46.21*	4.62*	17.77*	1.78*	
nov-23	275.46*	41.32*	46.21*	4.62*	17.77*	1.78*	
dec-23	275.46*	47.48*	46.21*	4.62*	17.77*	1.78*	

^{*} Reference Prices/Ratios estimated as of 05/09/2022 are not binding to invoice. The energy cost estimate from January to May 2023 does not include the effects of the cost excess generated by the gas cap mechanism. as set under Royal Decree-Law 10/2022. of 13 May. temporarily setting a mechanism to adjust production costs and reduce the price of electricity on the wholesale market. The volatility of this excess cost together with the large number of uncertain figures depending thereupon. prevent from giving a limited estimate of the value of this excess in said period.

Published on 7 December 2022



1. GRAL.INF. / 2. INF

ASTR.

3. ACCES.CON

4. CAPACIT ALLOCATIO 5. SERVICES

6. OPERATION

7. SERVICE

/ 8. ANN

9. MAPS

^{**} net = consumed - compensable regenerated. considered at border point with the electricity sector.

