

NETWORK STATEMENT 2023





Edition:

DIRECCIÓN GENERAL DE NEGOCIO Y OPERACIONES COMERCIALES

Dirección de Explotación Comercial

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10

CATALOGUES

CATALOGUE 1 / Descriptive Leaflet Catalogue

CATALOGUE 2 / Capacity Offer at Service Facilities

CATALOGUE 3 / Sidings attached to Coordinated Stations

CATALOGUE 4 / General Interest Rail Network Capacity Restrictions

CATALOGUE 5 / Traction Power Supply Cost Tables

CATALOGUE 5

Traction Power Supply Cost Tables



SC-2_SUPPLY COSTS ON ALTERNATING CURRENT POWER LINES

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	TES^{ca} €/MWh net**	$TATRS^{ca}$ €/MWh net**	Passengers rc^{ca} (Wh/TKB)	Passengers rg^{ca} (Wh/TKB)	Freight rc^{ca} (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	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.

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

Published on 26 April 2023

SC-2_COSTS FOR SUPPLYING DIRECT CURRENT TO ELECTRIFIED LINES IN A CONVENTIONAL NETWORK:

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 conversión ratios *							
Month of service	TE_{cc}^{cc} €/MWh net**	$TATR_{cc}^{cc}$ €/MWh net**	Freight rc_m^{cc} (Wh/TKB)	Freight rg_m^{cc} (Wh/TKB)	Long distance rc_{ld}^{cc} (Wh/TKB)	Long distance rg_{ld}^{cc} (Wh/TKB)	Medium Distance rc_{md}^{cc} (Wh/TKB)	Medium Distance rg_{md}^{cc} (Wh/TKB)	Commuter rc_c^{cc} (Wh/TKB)	Commuter rg_c^{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.

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

Published on 26 April 2023

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 MARCH 2023.

SC-2	Reviewed reference / Invoicing prices *		Reviewed reference / Invoicing conversion ratios			
Month of service	TE_{ccR} €/MWh net**	$TATR_{ccR}$ €/MWh net**	Passengers rc_v^{ccR} (Wh/TKB)	Passengers rg_v^{ccR} (Wh/TKB)	Freight rc_m^{ccR} (Wh/TKB)	Freight rg_m^{ccR} (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	95.28*	31.40*	53.73*	5.37*	20.67*	2.07*
may-23	122.83*	26.72*	53.73*	5.37*	20.67*	2.07*
jun-23	133.60*	57.17*	53.73*	5.37*	20.67*	2.07*
jul-23	145.46*	91.99*	53.73*	5.37*	20.67*	2.07*
aug-23	142.99*	44.47*	53.73*	5.37*	20.67*	2.07*
sep-23	142.22*	28.60*	53.73*	5.37*	20.67*	2.07*
oct-23	159.46*	23.87*	53.73*	5.37*	20.67*	2.07*
nov-23	159.46*	35.65*	53.73*	5.37*	20.67*	2.07*
dec-23	159.46*	44.89*	53.73*	5.37*	20.67*	2.07*

* 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.

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Published on 26 April 2023

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



/ 1. GRAL.INF.

/ 2. INFRASTR.

/ 3. ACCES.COND.

/ 4. CAPACITY
ALLOCATION

/ 5. SERVICES
AND CHARGES

/ 6. OPERATIONS

/ 7. SERVICE
FACILITIES

/ 8. ANNE.

/ 9. MAPS

/ 10. CATALOG.

SC-2_SUPPLY COSTS ON ALTERNATING CURRENT POWER LINES

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	TES^{ca} €/MWh net**	$TATRS^{ca}$ €/MWh net**	Passengers rc^{ca} (Wh/TKB)	Passengers rg^{ca} (Wh/TKB)	Freight rc^{ca} (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	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.

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

Published on 24 March 2023

SC-2_SUPPLY COSTS ON ALTERNATING CURRENT POWER LINES

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	TES^{ca} €/MWh net**	$TATRS^{ca}$ €/MWh net**	Passengers rc^{ca} (Wh/TKB)	Passengers rg^{ca} (Wh/TKB)	Freight rc^{ca} (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.

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

Published on 23 February 2023

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	TES^{ca} €/MWh net**	$TATRS^{ca}$ €/MWh net**	Passengers rc^{ca} (Wh/TKB)	Passengers rg^{ca} (Wh/TKB)	Freight rc^{ca} (Wh/TKB)	Freight rg^{ca} (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.

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

Published on 28 December 2022

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	TES^{ca} €/MWh net**	$TATRS^{ca}$ €/MWh net**	Passengers rc^{ca} (Wh/TKB)	Passengers rg^{ca} (Wh/TKB)	Freight rc^{ca} (Wh/TKB)	Freight rg^{ca} (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.

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

Published on 7 December 2022

SC-2_COSTS FOR SUPPLYING DIRECT CURRENT TO ELECTRIFIED LINES IN A CONVENTIONAL NETWORK:

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 conversión ratios *							
Month of service	TE_{cc}^{cc} €/MWh net**	$TATR_{cc}^{cc}$ €/MWh net**	Freight rc_m^{cc} (Wh/TKB)	Freight rg_m^{cc} (Wh/TKB)	Long distance rc_{ld}^{cc} (Wh/TKB)	Long distance rg_{ld}^{cc} (Wh/TKB)	Medium Distance rc_{md}^{cc} (Wh/TKB)	Medium Distance rg_{md}^{cc} (Wh/TKB)	Commuter rc_c^{cc} (Wh/TKB)	Commuter rg_c^{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	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.

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

Published on 24 March 2023

SC-2_COSTS FOR SUPPLYING DIRECT CURRENT TO ELECTRIFIED LINES IN A CONVENTIONAL NETWORK:

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 conversión ratios *							
Month of service	TE^{ccC} €/MWh net**	$TATR^{ccC}$ €/MWh net**	Freight rc_m^{ccC} (Wh/TKB)	Freight rg_m^{ccC} (Wh/TKB)	Long distance rc_{ld}^{ccC} (Wh/TKB)	Long distance rg_{ld}^{ccC} (Wh/TKB)	Medium Distance rc_{md}^{ccC} (Wh/TKB)	Medium Distance rg_{md}^{ccC} (Wh/TKB)	Commuter rc_c^{ccC} (Wh/TKB)	Commuter rg_c^{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	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.

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

Published on 23 February 2023

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	Reviewed reference / Invoicing prices *		Reviewed reference / Invoicing conversión ratios *							
Month of service	TE^{ccC} €/MWh net**	$TATR^{ccC}$ €/MWh net**	Freight rc_m^{ccC} (Wh/TKB)	Freight rg_m^{ccC} (Wh/TKB)	Long distance rc_{ld}^{ccC} (Wh/TKB)	Long distance rg_{ld}^{ccC} (Wh/TKB)	Medium Distance rc_{md}^{ccC} (Wh/TKB)	Medium Distance rg_{md}^{ccC} (Wh/TKB)	Commuter rc_c^{ccC} (Wh/TKB)	Commuter rg_c^{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.

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

Published on 28 December 2022

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	Reviewed reference / Invoicing prices *		Reviewed reference / Invoicing conversión ratios *							
Month of service	TE^{ccC} €/MWh net**	$TATR^{ccC}$ €/MWh net**	Freight rc_m^{ccC} (Wh/TKB)	Freight rg_m^{ccC} (Wh/TKB)	Long distance rc_{ld}^{ccC} (Wh/TKB)	Long distance rg_{ld}^{ccC} (Wh/TKB)	Medium Distance rc_{md}^{ccC} (Wh/TKB)	Medium Distance rg_{md}^{ccC} (Wh/TKB)	Commuter rc_c^{ccC} (Wh/TKB)	Commuter rg_c^{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.

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

Published on 7 December 2022

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 / Invoicing prices *		Reviewed reference / Invoicing conversión ratios			
Month of service	TE_{ccR} €/MWh net**	$TATR_{ccR}$ €/MWh net**	Passengers rc_v^{ccR} (Wh/TKB)	Passengers rg_v^{ccR} (Wh/TKB)	Freight rc_m^{ccR} (Wh/TKB)	Freight rg_m^{ccR} (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	112.91*	32.55*	53.73*	5.37*	20.67*	2.07*
apr-23	117.44*	31.40*	53.73*	5.37*	20.67*	2.07*
may-23	133.96*	26.72*	53.73*	5.37*	20.67*	2.07*
jun-23	141.23*	57.17*	53.73*	5.37*	20.67*	2.07*
jul-23	144.81*	91.99*	53.73*	5.37*	20.67*	2.07*
aug-23	141.04*	44.47*	53.73*	5.37*	20.67*	2.07*
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*
nov-23	153.00*	35.65*	53.73*	5.37*	20.67*	2.07*
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.

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

Published on 24 March 2023

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 JANUARY 2023.

SC-2	Reviewed reference / Invoicing prices *		Reviewed reference / Invoicing conversión ratios			
Month of service	TE_{ccR} €/MWh net**	$TATR_{ccR}$ €/MWh net**	Passengers rc_v^{ccR} (Wh/TKB)	Passengers rg_v^{ccR} (Wh/TKB)	Freight rc_m^{ccR} (Wh/TKB)	Freight rg_m^{ccR} (Wh/TKB)
jan-23	93.49960364	37.25570386	61.06097137	6.10609714	23.48498899	2.34849890
feb-23	150.06*	37.26*	53.73*	5.37*	20.67*	2.07*
mar-23	120.21*	39.40*	53.73*	5.37*	20.67*	2.07*
apr-23	129.17*	31.40*	53.73*	5.37*	20.67*	2.07*
may-23	145.88*	26.72*	53.73*	5.37*	20.67*	2.07*
jun-23	156.51*	57.17*	53.73*	5.37*	20.67*	2.07*
jul-23	161.12*	91.99*	53.73*	5.37*	20.67*	2.07*
aug-23	161.12*	44.47*	53.73*	5.37*	20.67*	2.07*
sep-23	161.12*	28.60*	53.73*	5.37*	20.67*	2.07*
oct-23	170.81*	23.87*	53.73*	5.37*	20.67*	2.07*
nov-23	170.81*	35.65*	53.73*	5.37*	20.67*	2.07*
dec-23	170.81*	44.89*	53.73*	5.37*	20.67*	2.07*

* 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.

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

Published on 23 February 2023

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

SC-2	Reviewed reference / Invoicing prices *		Reviewed reference / Invoicing conversión ratios			
Month of service	TE_{ccR} €/MWh net**	$TATR_{ccR}$ €/MWh net**	Passengers rc_v^{ccR} (Wh/TKB)	Passengers rg_v^{ccR} (Wh/TKB)	Freight rc_m^{ccR} (Wh/TKB)	Freight rg_m^{ccR} (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.

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

Published on 28 December 2022

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

SC-2	Reviewed reference / Invoicing prices *		Reviewed reference / Invoicing conversión ratios			
Month of service	TE^{ccR} €/MWh net**	$TATR^{ccR}$ €/MWh net**	Passengers rc_v^{ccR} (Wh/TKB)	Passengers rg_v^{ccR} (Wh/TKB)	Freight rc_m^{ccR} (Wh/TKB)	Freight rg_m^{ccR} (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.

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

Published on 7 December 2022

