

# NETWORK STATEMENT

## 2022





**Edition:**

**DIRECCIÓN GENERAL DE NEGOCIO Y OPERACIONES COMERCIALES**

**Dirección de Explotación Comercial**

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**CATALOGUE 5 / Traction Power Supply Cost Tables**

# CATALOGUE 5

## Traction Power Supply Cost Tables



# SC-2 TRACTION CURRENT SUPPLY

## 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 December 2022.

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 $rc^m$ (Wh/TKB)	Freight $rg^m$ (Wh/TKB)
Dec-22	188.95	30.04	47.40	6,16	16,93	2.20

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

Published on 26 January 2023

# SC-2 TRACTION CURRENT SUPPLY

## 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 December 2022.

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)
Dec-22	165.90	44.58	20.19	2.02	32.30	3.23	36.34	3.63	52.49	5.25

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

Published on 26 January 2023

# SC-2 TRACTION CURRENT SUPPLY

## 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 December 2022.

SC-2	Reviewed reference / Invoicing prices *		Reviewed reference / Invoicing conversión ratios			
Month of service	$TE^{ccR}$ €/MWh net**	$TATR^{ccR}$ €/MWh net**	Passengers $r_{v}^{ccR}$ (Wh/TKB)	Passengers $r_{g_{v}}^{ccR}$ (Wh/TKB)	Freight $r_{m}^{ccR}$ (Wh/TKB)	Freight $r_{g_{m}}^{ccR}$ (Wh/TKB)
Dec-22	165.37	38.04	57.76	5.78	22.22	2.22

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

Published on 26 January 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 TRACTION CURRENT SUPPLY

## 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 November 2022.

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)
Nov-22	156.67	22.43	47.69	6.20	17.03	2.21
Dec-22	151.75*	35.63*	52.15*	6.78*	18.63*	2.42*

\* Reference Prices/Ratios estimated as of 16/12/2022 are not binding to invoice. The December 2022 Energy Cost Estimate 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 20 December 2022

# SC-2 TRACTION CURRENT SUPPLY

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Monthly publication of prices and ratios that will be used to issue the corresponding invoice for the services performed in October 2022.

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 $rc^m$ (Wh/TKB)	Freight $rg^m$ (Wh/TKB)
Oct-22	181.09	18.15	46.99	6.11	16.78	2.18
Nov-22	142.69*	27.56*	52.15*	6.78*	18.63*	2.42*
Dec-22	160.02*	35.63*	52.15*	6.78*	18.63*	2.42*

\* Reference Prices/Ratios estimated as of 24/11/2022 are not binding to invoice. The energy cost estimate from November to December 2022 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 29 November 2022

# SC-2 TRACTION CURRENT SUPPLY

## 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 September 2022.

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)
Sept-22	248.97	21.31	48.44	6.30	17.30	2.25
Oct-22	141.45*	21.45*	52.15*	6.78*	18.63*	2.42*
Nov-22	151.65*	27.56*	52.15*	6.78*	18.63*	2.42*
Dec-22	152.12*	35.63*	52.15*	6.78*	18.63*	2.42*

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Published on 24 October 2022

# SC-2 TRACTION CURRENT SUPPLY

## 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 August 2022.

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)
Aug-22	306.46	21.30	50.00	6.50	17.86	2.32
Sept-22	167.48*	24.21*	52.15*	6.78*	18.63*	2.42*
Oct-22	178.17*	21.45*	52.15*	6.78*	18.63*	2.42*
Nov-22	181.32*	27.56*	52.15*	6.78*	18.63*	2.42*
Dec-22	184.46*	35.63*	52.15*	6.78*	18.63*	2.42*

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Published on 26 September 2022

# SC-2 TRACTION CURRENT SUPPLY

## 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 November 2022.

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)
Nov-22	144.46	37.91	19.46	1.95	31.14	3.11	35.03	3.50	50.60	5.06
Dec-22	143.06*	54.83*	22.17*	2.22*	35.46*	3.55*	39.90*	3.99*	57.63*	5.76*

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## FORECAST OF COSTS FOR SUPPLYING DIRECT CURRENT TO ELECTRIFIED LINES IN A CONVENTIONAL NETWORK:

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Oct-22	183.68	28.55	18.90	1.89	30.24	3.02	34.02	3.40	49.13	4.91
Nov-22	130.34*	43.81*	22.17*	2.22*	35.46*	3.55*	39.90*	3.99*	57.63*	5.76*
Dec-22	161.81*	54.83*	22.17*	2.22*	35.46*	3.55*	39.90*	3.99*	57.63*	5.76*

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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)
Sept-22	264.43	32.66	18.86	1.89	30.17	3.02	33.94	3.39	49.03	4.90
Oct-22	139.65*	26.06*	22.17*	2.22*	35.46*	3.55*	39.90*	3.99*	57.63*	5.76*
Nov-22	147.24*	43.81*	22.17*	2.22*	35.46*	3.55*	39.90*	3.99*	57.63*	5.76*
Dec-22	148.33*	54.83*	22.17*	2.22*	35.46*	3.55*	39.90*	3.99*	57.63*	5.76*

\* Reference Prices/Ratios estimated as of 20/10/2022 are not binding to invoice. The energy cost estimate from October to December 2022 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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# SC-2 TRACTION CURRENT SUPPLY

## FORECAST OF 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 August 2022.

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)
Aug-22	327.75	34.97	19.26	1.93	30.81	3.08	34.66	3.47	50.07	5.01
Sept-22	173.32*	33.41*	22.17*	2.22*	35.46*	3.55*	39.90*	3.99*	57.63*	5.76*
Oct-22	184.38*	26.06*	22.17*	2.22*	35.46*	3.55*	39.90*	3.99*	57.63*	5.76*
Nov-22	187.64*	43.81*	22.17*	2.22*	35.46*	3.55*	39.90*	3.99*	57.63*	5.76*
Dec-22	190.90*	54.83*	22.17*	2.22*	35.46*	3.55*	39.90*	3.99*	57.63*	5.76*

\* Reference Prices/Ratios estimated as of 19/09/2022 are not binding to invoice. The energy cost estimate from September to December 2022 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 September 2022

# SC-2 TRACTION CURRENT SUPPLY

## 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 November 2022.

SC-2	Reviewed reference / Invoicing prices *		Reviewed reference / Invoicing conversion ratios			
Month of service	$TE^{ccR}$ €/MWh net**	$TATR^{ccR}$ €/MWh net**	Passengers $r_{v}^{ccR}$ (Wh/TKB)	Passengers $r_{g_v}^{ccR}$ (Wh/TKB)	Freight $r_m^{ccR}$ (Wh/TKB)	Freight $r_{g_m}^{ccR}$ (Wh/TKB)
Nov-22	145.03	34.71	56.42	5.64	21.70	2.17
Dec-22	142.54*	37.01*	46.21*	4.62*	17.77*	1.78*

\* Reference Prices/Ratios estimated as of 16/12/2022 are not binding to invoice. The December 2022 Energy Cost Estimate 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 20 December 2022

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Monthly publication of prices and ratios that will be used to issue the corresponding invoice for the services performed in October 2022.

SC-2	Reviewed reference / Invoicing prices *		Reviewed reference / Invoicing conversión ratios			
	Month of service	$TE^{ccR}$ €/MWh net**	$TATR^{ccR}$ €/MWh net**	Passengers $r_v^{ccR}$ (Wh/TKB)	Passengers $r_g^{ccR}$ (Wh/TKB)	Freight $r_m^{ccR}$ (Wh/TKB)
Oct-22	182.33	28.59	52.21	5.22	20.08	2.01
Nov-22	131.34*	32.30*	46.21*	4.62*	17.77*	1.78*
Dec-22	163.28*	37.01*	46.21*	4.62*	17.77*	1.78*

\* Reference Prices/Ratios estimated as of 24/11/2022 are not binding to invoice. The energy cost estimate from November to December 2022 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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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)
Sept-22	259.33	32.48	53.21	5.32	20.46	2.05
Oct-22	140.70*	21.85*	46.21*	4.62*	17.77*	1.78*
Nov-22	148.31*	32.30*	46.21*	4.62*	17.77*	1,78.
Dec-22	149.40*	37.01*	46.21*	4.62*	17.77*	1.78*

\* Reference Prices/Ratios estimated as of 20/10/2022 are not binding to invoice. The energy cost estimate from October to December 2022 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 24 October 2022

# SC-2 TRACTION CURRENT SUPPLY

## FORECAST OF 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 August 2022.

SC-2	Reviewed reference / Invoicing prices *		Reviewed reference / Invoicing conversion ratios			
Month of service	$TE^{ccR}$ €/MWh net**	$TATR^{ccR}$ €/MWh net**	Passengers $r_v^{ccR}$ (Wh/TKB)	Passengers $r_g^{ccR}$ (Wh/TKB)	Freight $r_m^{ccR}$ (Wh/TKB)	Freight $r_g^{ccR}$ (Wh/TKB)
Aug-22	321.17	29.93	53.08	5.31	20.42	2.04
Sept-22	174.49*	25.31*	46.21*	4.62*	17.77*	1.78*
Oct-22	185.59*	21.85*	46.21*	4.62*	17.77*	1.78*
Nov-22	188.86*	32.30*	46.21*	4.62*	17.77*	1,78.
Dec-22	192.13*	37.01*	46.21*	4.62*	17.77*	1.78*

\* Reference Prices/Ratios estimated as of 19/09/2022 are not binding to invoice. The energy cost estimate from September to December 2022 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 September 2022

# SC-2 TRACTION CURRENT SUPPLY

## 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 July 2022.

SC-2	Invoicing prices			Reference prices*		Prices/Invoice Ratios		Prices/Reference Ratios*	
	Month of Service	INVOICING UNIT	ENERGY COST €/MWh	THIRD PARTY ACCESS COST €/MWh	ENERGY COST €/MWh	THIRD PARTY ACCESS COST €/MWh	CONVERSION Rc ratio (Wh/TKB)	CONVERSION Rg ratio (Wh/TKB)	CONVERSION Rc ratio (Wh/TKB)
Jan-22	MWh	221.66	30.52			52.24	6.79		
Feb-22	MWh	215.65	34.80			49.25	6.40		
March-22	MWh	266.21	30.70			49.26	6.40		
Apr-22	MWh	202.47	19.56			48.38	6.29		
May-22	MWh	198.00	20.10			47,58	6,18		
Jun-22	MWh	224.08	22.89			48.26	6.27		
Jul-22	MWh	264.79	32.70			49.50	6.44		

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## SUPPLY COSTS ON ALTERNATING CURRENT POWER LINES:

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 $rc^m$ (Wh/TKB)	Freight $rg^m$ (Wh/TKB)
Aug-22	154.66*	22.87*	52.15*	6.78*	18.63*	2.42*
Sept-22	171.35*	24.21*	52.15*	6.78*	18.63*	2.42*
Oct-22	188.43*	21.45*	52.15*	6.78*	18.63*	2.42*
Nov-22	195.07*	27.56*	52.15*	6.78*	18.63*	2.42*
Dec-22	195.08*	35.63*	52.15*	6.78*	18.63*	2.42*

\* Reference Prices/Ratios estimated as of 18/08/2022 are not binding to invoice. The energy cost estimate from August to December 2022 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 August 2022

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## SUPPLY COSTS ON ALTERNATING CURRENT POWER LINES:

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SC-2	Invoicing prices			Reference prices*		Prices/Invoice Ratios		Prices/Reference Ratios*	
	Month of Service	INVOICING UNIT	ENERGY COST €/MWh	THIRD PARTY ACCESS COST €/MWh	ENERGY COST €/MWh	THIRD PARTY ACCESS COST €/MWh	CONVERSION Rc ratio (Wh/TKB)	CONVERSION Rg ratio (Wh/TKB)	CONVERSION Rc ratio (Wh/TKB)
Jan-22	MWh	221.66	30.52			52.24	6.79		
Feb-22	MWh	215.65	34.80			49.25	6.40		
March-22	MWh	266.21	30.70			49.26	6.40		
Apr-22	MWh	202.47	19.56			48.38	6.29		
May-22	MWh	198.00	20.10			47,58	6,18		
Jun-22	MWh	224.08	22.89			48.26	6.27		
Jul-22	MWh	XXX,XX	XXX,XX	163.38	35.41	X,XX	X,XX	52.15	6.78

# SC-2 TRACTION CURRENT SUPPLY

## SUPPLY COSTS ON ALTERNATING CURRENT POWER LINES:

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)
Aug-22	163.50*	22.87*	52.15*	6.78*	18.63*	2.42*
Sept-22	165.07*	24.21*	52.15*	6.78*	18.63*	2.42*
Oct-22	161.94*	21.45*	52.15*	6.78*	18.63*	2.42*
Nov-22	163.76*	27.56*	52.15*	6.78*	18.63*	2.42*
Dec-22	167.97*	35.63*	52.15*	6.78*	18.63*	2.42*

\* Reference Prices/Ratios estimated as of 15/07/2022 are not binding to invoice. The energy cost estimate from July to December 2022 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 in the few days when the value is available (since 15/06/22), 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 July 2022

# SC-2 TRACTION CURRENT SUPPLY

## COSTS TO SUPPLY ELECTRIFIED LINES IN ALTERNATING CURRENT:

Monthly publication of prices and ratios that will serve to issue the corresponding invoice for the services performed during June 2022

SC-2	Invoicing prices			Reference prices*		Invoicing prices/ratios		Reference prices/ratios *	
Month Service	INVOICING UNIT	POWER COST €/MWh	ATR COST €/MWh	POWER COST €/MWh	ATR COST €/MWh	CONVERSION Rc ratio (Wh/TKB)	CONVERSION Rg ratio (Wh/TKB)	CONVERSION Rc ratio (Wh/TKB)	CONVERSION Rg ratio (Wh/TKB)
Jan-22	MWh	221.66	30.52			52.24	6.79		
Feb-22	MWh	215.65	34.80			49.25	6.40		
March-22	MWh	266.21	30.70			49.26	6.40		
Apr-22	MWh	202.47	19.56			48.38	6.29		
May-22	MWh	198.00	20.10			47.58	6.18		
<b>Jun-22</b>	MWh	<b>224.08</b>	<b>22.89</b>			<b>48.26</b>	<b>6.27</b>		
Jul-22	MWh			163.38	35.41			52.15	6.78
Aug-22	MWh			163.50	22.87			52.15	6.78
Sept-22	MWh			165.07	24.21			52.15	6.78
Oct-22	MWh			161.94	21.45			52.15	6.78
Nov-22	MWh			163.76	27.56			52.15	6.78
Dec-22	MWh			167.97	35.63			52.15	6.78

\*Reference Prices/Ratios are estimates as of 07/15/2022 and are not binding upon invoicing. The estimated energy costs from July to December 2022 do not include any additional cost arising from the gas cap mechanism - as set down in Royal Decree-Law 10/2022, of 13 May, on an interim system to adjust production costs to reduce the electricity price in the wholesale market. The volatility of this additional cost in the few days when the value is available (since 06/15/22), together with the large amount of uncertain figures in it, to-day hinder any limited estimate of this additional cost over said period.

Publication date: Jul 20, 2022



# SC-2 TRACTION CURRENT SUPPLY

## COSTS TO SUPPLY ELECTRIFIED LINES IN ALTERNATING CURRENT:

Monthly publication of prices and ratios that will serve to issue the corresponding invoice for the services performed during May 2022

SC-2	Invoicing prices			Reference prices*		Invoicing prices/ratios		Reference prices/ratios *	
Month Service	INVOICING UNIT	POWER COST €/MWh	ATR COST €/MWh	POWER COST €/MWh	ATR COST €/MWh	CONVERSION Rc ratio (Wh/TKB)	CONVERSION Rg ratio (Wh/TKB)	CONVERSION Rc ratio (Wh/TKB)	CONVERSION Rg ratio (Wh/TKB)
Jan-22	MWh	221.66	30.52			52.24	6.79		
Feb-22	MWh	215.65	34.80			49.25	6.40		
March-22	MWh	266.21	30.70			49.26	6.40		
Apr-22	MWh	202.47	19.56			48.38	6.29		
<b>May-22</b>	<b>MWh</b>	<b>198.00</b>	<b>20.10</b>			<b>47.58</b>	<b>6.18</b>		
Jun-22	MWh			189.46	24.20			52.15	6.78
Jul-22	MWh			178.69	35.41			52.15	6.78
Aug-22	MWh			175.04	22.87			52.15	6.78
Sept-22	MWh			177.64	24.21			52.15	6.78
Oct-22	MWh			164.76	21.45			52.15	6.78
Nov-22	MWh			166.58	27.56			52.15	6.78
Dec-22	MWh			171.73	35.63			52.15	6.78

\*Reference Prices/Ratios are estimates as of 06/23/2022 and are not binding upon invoicing. The estimated energy costs from June to December 2022 do not include any additional cost arising from the gas cap mechanism - as set down in Royal Decree-Law 10/2022, of 13 May, on an interim system to adjust production costs to reduce the electricity price in the wholesale market. The volatility of this additional cost in the few days when the value is available (since 06/15/22), together with the large amount of uncertain figures in it, to-day hinder any limited estimate of this additional cost over said period.

Publication date: Jun 23, 2022

NETWORK STATEMENT 2022\_ADIF-AV\_V0 (ED 28/07/2022)



# SC-2 TRACTION CURRENT SUPPLY

## COSTS TO SUPPLY ELECTRIFIED LINES IN ALTERNATING CURRENT:

Monthly publication of prices and ratios that will serve to issue the corresponding invoice for the services performed during April 2022

SC-2	Invoicing prices			Reference prices*	
Month Service	INVOICING UNIT	POWER COST €/MWh	ATR COST €/MWh	POWER COST €/MWh	ATR COST €/MWh
Jan-22	MWh	221.66	30.52		
Feb-22	MWh	215.65	34.80		
March-22	MWh	266.21	30.70		
<b>Apr-22</b>	<b>MWh</b>	<b>202.47</b>	<b>19.56</b>		
May-22	MWh			200.90	22.03
Jun-22	MWh			178.30	24.20
Jul-22	MWh			154.08	35.37
Aug-22	MWh			149.89	22.83
Sept-22	MWh			155.20	24.23
Oct-22	MWh			149.89	21.44
Nov-22	MWh			149.90	27.58
Dec-22	MWh			149.90	35.68

Invoicing prices/ratios		Reference prices/ratios *	
CONVERSION Rc ratio (Wh/TKB)	CONVERSION Rg ratio (Wh/TKB)	CONVERSION Rc ratio (Wh/TKB)	CONVERSION Rg ratio (Wh/TKB)
52.24	6.79		
49.25	6.40		
49.26	6.40		
<b>48.38</b>	<b>6.29</b>		
		52.15	6.78
		52.15	6.78
		52.15	6.78
		52.15	6.78
		52.15	6.78
		52.15	6.78
		52.15	6.78

\*Reference Prices/Ratios They are calculated on 05/26/2022 and are not binding for invoicing.

Publication date: May 26, 2022

# SC-2 TRACTION CURRENT SUPPLY

## COSTS TO SUPPLY ELECTRIFIED LINES IN ALTERNATING CURRENT:

Monthly publication of prices and ratios that will serve to issue the corresponding invoice for the services performed during March 2022

SC-2	Invoicing prices			Reference prices*		Invoicing prices/ratios		Reference prices/ratios *	
Month Service	INVOICING UNIT	POWER COST €/MWh	ATR COST €/MWh	POWER COST €/MWh	ATR COST €/MWh	CONVERSION Rc ratio (Wh/TKB)	CONVERSION Rg ratio (Wh/TKB)	CONVERSION Rc ratio (Wh/TKB)	CONVERSION Rg ratio (Wh/TKB)
Jan-22	MWh	221.66	30.52			52.24	6.79		
Feb-22	MWh	215.65	34.80			49.25	6.40		
<b>March-22</b>	<b>MWh</b>	<b>266.21</b>	<b>30.70</b>			<b>49.26</b>	<b>6.40</b>		
Apr-22	MWh			206.81	29.26			52.15	6.78
May-22	MWh			203.29	27.22			52.15	6.78
Jun-22	MWh			200.67	26.96			52.15	6.78
Jul-22	MWh			204.34	36.56			52.15	6.78
Aug-22	MWh			200.27	24.86			52.15	6.78
Sept-22	MWh			208.55	25.82			52.15	6.78
Oct-22	MWh			212.19	22.99			52.15	6.78
Nov-22	MWh			212.20	27.58			52.15	6.78
Dec-22	MWh			212.20	35.68			52.15	6.78

\*Reference Prices/Ratios They are calculated on 04/28/2022 and are not binding for invoicing.

Publication date: April 28, 2022

# SC-2 TRACTION POWER SUPPLY

## SUPPLY COSTS FOR LINES' TRACTION POWER IN ALTERNATING CURRENT:

Monthly publication of prices and ratios that will serve to issue the corresponding invoice for the services performed during February 2022

SC-2	Invoicing prices			Reference prices*	
Month Service	INVOICING UNIT	POWER COST €/MWh	ATR COST €/MWh	POWER COST €/MWh	ATR COST €/MWh
Jan-22	MWh	221.66	30.52		
<b>Feb-22</b>	<b>MWh</b>	<b>215.65</b>	<b>34.80</b>		
March-22	MWh			265.91	35.77
Apr-22	MWh			247.26	29.04
May-22	MWh			244.81	27.57
Jun-22	MWh			252.98	26.90
Jul-22	MWh			265.40	37.61
Aug-22	MWh			242.79	25.41
Sept-22	MWh			242.79	25.80
Oct-22	MWh			222.15	23.44
Nov-22	MWh			222.15	27.73
Dec-22	MWh			222.14	36.58

Invoicing prices/ratios		Reference prices/ratios *	
CONVERSION Rc ratio (Wh/TKB)	CONVERSION Rg ratio (Wh/TKB)	CONVERSION Rc ratio (Wh/TKB)	CONVERSION Rg ratio (Wh/TKB)
52.24	6.79		
<b>49.25</b>	<b>6.40</b>		
		52.15	6.78
		52.15	6.78
		52.15	6.78
		52.15	6.78
		52.15	6.78
		52.15	6.78
		52.15	6.78
		52.15	6.78

\*Reference Prices/Ratios They are calculated on 03/24/2022 and are not binding for invoicing.

Publication date: March 24, 2022

# SC-2 TRACTION POWER SUPPLY

## SUPPLY COSTS FOR LINES' TRACTION POWER IN ALTERNATING CURRENT:

Monthly publication of prices and ratios that will serve to issue the corresponding invoice for the services performed during January 2022

SC-2	Invoicing prices			Reference prices*		Invoicing prices/ratios		Reference prices/ratios *	
Month Service	INVOICING UNIT	POWER COST €/MWh	ATR COST €/MWh	POWER COST €/MWh	ATR COST €/MWh	CONVERSION Rc ratio (Wh/TKB)	CONVERSION Rg ratio (Wh/TKB)	CONVERSION Rc ratio (Wh/TKB)	CONVERSION Rg ratio (Wh/TKB)
<b>Jan-22</b>	<b>MWh</b>	<b>221.66</b>	<b>30.52</b>			<b>52.24</b>	<b>6.79</b>		
Feb-22	MWh			204.94	49.90			52.15	6.78
March-22	MWh			194.86	35.77			52.15	6.78
Apr-22	MWh			197.08	29.04			52.15	6.78
May-22	MWh			198.55	27.57			52.15	6.78
Jun-22	MWh			204.88	26.90			52.15	6.78
Jul-22	MWh			202.25	37.61			52.15	6.78
Aug-22	MWh			202.25	25.41			52.15	6.78
Sept-22	MWh			202.25	25.80			52.15	6.78
Oct-22	MWh			199.11	23.44			52.15	6.78
Nov-22	MWh			199.11	27.73			52.15	6.78
Dec-22	MWh			199.11	36.58			52.15	6.78

\*Reference Prices/Ratios They are calculated on 02/21/2022 and are not binding for invoicing.

Publication date: February 24, 2022

# SC-2 TRACTION POWER SUPPLY

## YEARLY PUBLICATION OF THE FEE FORECAST (\*) TO SUPPLY ALTERNATING CURRENT POWER LINES:

SC-2 Month Service	Invoicing prices		Reference ratios*	
	TES (€/MWh net**)	TATR (€/MWh net**)	rc (Wh/TKB)	rg (Wh/TKB)
Jan-22	201.15	38.26	52.15	6.78
Feb-22	195.72	40.38	52.15	6.78
March-22	170.46	32.36	52.15	6.78
Apr-22	113.52	28.18	52.15	6.78
May-22	113.52	27.41	52.15	6.78
Jun-22	113.51	31.37	52.15	6.78
Jul-22	112.26	40.16	52.15	6.78
Aug-22	112.25	26.08	52.15	6.78
Sept-22	112.26	27.94	52.15	6.78
Oct-22	112.71	26.35	52.15	6.78
Nov-22	112.71	33.39	52.15	6.78
Dec-22	112.70	39.20	52.15	6.78

Estimated values on the date of Network Statement publication. Not binding for invoicing.

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

Publication date: December 2, 2021

# SC-2 TRACTION CURRENT SUPPLY

## FORECAST OF COSTS FOR SUPPLYING DIRECT CURRENT TO ELECTRIFIED LINES IN A CONVENTIONAL NETWORK

SC-2	Reviewed reference / Invoicing prices *		Reviewed reference / Invoicing conversión ratios *							
Month of service	$TES^{ccC}$ €/MWh net**	$TATRS^{ccC}$ €/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)
Aug-22	160.04*	33.02*	22.17*	2.22*	35.46*	3.55*	39.90*	3.99*	57.63*	5.76*
Sept-22	177.34*	33.41*	22.17*	2.22*	35.46*	3.55*	39.90*	3.99*	57.63*	5.76*
Oct-22	195.01*	26.06*	22.17*	2.22*	35.46*	3.55*	39.90*	3.99*	57.63*	5.76*
Nov-22	201.89*	43.81*	22.17*	2.22*	35.46*	3.55*	39.90*	3.99*	57.63*	5.76*
Dec-22	201.90*	54.83*	22.17*	2.22*	35.46*	3.55*	39.90*	3.99*	57.63*	5.76*

\* Reference Prices/Ratios estimated as of 18/08/2022 are not binding to invoice. The energy cost estimate from August to December 2022 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 August 2022

# SC-2 TRACTION CURRENT SUPPLY

## YEARLY PUBLICATION OF THE FEE FORECAST (\*) TO SUPPLY DIRECT CURRENT POWER LINES ON CONVENTIONAL NETWORK

SC-2	Reviewed reference / Invoicing prices *		Reviewed reference / Invoicing conversión ratios *							
Month of service	$TES^{ccC}$ €/MWh net**	$TATRS^{ccC}$ €/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)
Aug-22	169.20*	34.52*	22.17*	2.22*	35.46*	3.55*	39.90*	3.99*	57.63*	5.76*
Sept-22	170.83*	34.91*	22.17*	2.22*	35.46*	3.55*	39.90*	3.99*	57.63*	5.76*
Oct-22	167.57*	27.56*	22.17*	2.22*	35.46*	3.55*	39.90*	3.99*	57.63*	5.76*
Nov-22	169.45*	45.31*	22.17*	2.22*	35.46*	3.55*	39.90*	3.99*	57.63*	5.76*
Dec-22	173.82*	56.33*	22.17*	2.22*	35.46*	3.55*	39.90*	3.99*	57.63*	5.76*

\* Reference Prices/Ratios estimated as of 18/08/2022 are not binding to invoice. The energy cost estimate from July to December 2022 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 in the few days when the value is available (since 15/06/22), 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 July 2022

# SC-2 TRACTION CURRENT SUPPLY

## FORECAST OF COSTS FOR SUPPLYING DIRECT CURRENT TO ELECTRIFIED LINES ON RAM:

SC-2	Reviewed reference / Invoicing prices *		Reviewed reference / Invoicing conversión ratios			
Month of service	$TES^{ccc}$ €/MWh net**	$TATRS^{ccc}$ €/MWh net**	Passengers $r_v^{ccR}$ (Wh/TKB)	Passengers $r_g^{ccR}$ (Wh/TKB)	Freight $r_m^{ccR}$ (Wh/TKB)	Freight $r_g^{ccR}$ (Wh/TKB)
Aug-22	161.15*	25.04*	46.21*	4.62*	17.77*	1.78*
Sept-22	178.52*	25.31*	46.21*	4.62*	17.77*	1.78*
Oct-22	196.26*	21.85*	46.21*	4.62*	17.77*	1.78*
Nov-22	203.16*	32.30*	46.21*	4.62*	17.77*	1.78*
Dec-22	203.16*	37.01*	46.21*	4.62*	17.77*	1.78*

\* Reference Prices/Ratios estimated as of 18/08/2022 are not binding to invoice. The energy cost estimate from August to December 2022 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 August 2022

# SC-2 TRACTION CURRENT SUPPLY

## YEARLY PUBLICATION OF THE FEE FORECAST (\*) TO SUPPLY DIRECT CURRENT ON RAM:

SC-2	Reviewed reference / Invoicing prices *		Reviewed reference / Invoicing conversión ratios			
Month of service	$TES^{ccc}$ €/MWh net**	$TATRS^{ccc}$ €/MWh net**	Passengers $r_{v}^{ccR}$ (Wh/TKB)	Passengers $r_{v}^{ccR}$ (Wh/TKB)	Freight $r_{m}^{ccR}$ (Wh/TKB)	Freight $r_{m}^{ccR}$ (Wh/TKB)
Aug-22	170.35*	26.54*	46.21*	4.62*	17.77*	1.78*
Sept-22	171.99*	26.81*	46.21*	4.62*	17.77*	1.78*
Oct-22	168.72*	23.35*	46.21*	4.62*	17.77*	1.78*
Nov-22	170.60*	33.80*	46.21*	4.62*	17.77*	1.78*
Dec-22	174.98*	38.51*	46.21*	4.62*	17.77*	1.78*

\* Reference Prices/Ratios estimated as of 18/08/2022 are not binding to invoice. The energy cost estimate from July to December 2022 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 in the few days when the value is available (since 15/06/22), 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 July 2022

