



CFR NETWORK STATEMENT - 2023

**ANNEX 23.c** **METHODOLOGY OF CALCULATING THE RATE FOR THE SERVICE  
"ELECTRIC POWER FOR TRACTION"**

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COMPANIA NATIONALA DE CAI FERATE CFR SA

## METHODOLOGY OF CALCULATING THE RATE FOR THE SERVICE "ELECTRIC POWER FOR TRACTION"

The delivery price is determined by the provider according to Annex no. 5 – "Determination of the delivery price and electric energy counter value" to the „Standard model of the Contract on supplying traction electric power"- Annex no. 19 of the CFR Network Statement The methodology of calculating the rate for the service "electric power for traction" provided in Annex no. II of Law no. 202/2016, is:

No.	Component of the rate		Modality of calculating	Unit of measurement	Component elements
1.	Delivery price for the electricity	$P_L$	$P_L = P_A + P_E + P_P + P_R + P_F$	Lei/MWh	
a)	Electric energy purchase price	$P_A$	$P_A = \sum F_i / \sum C_i$	Lei/MWh	the counter value of the quantities of electric energy purchased on the regulated markets (PCCB-LE-flex, PZU, Pi, PND) related to the total quantity.
b)	Price for energy balancing	$P_E$	$P_E = E / \sum C_{1-8}$	Lei/MWh	the costs discounted with the part responsible for balancing related to the consumption of active electric energy of the railway traction network.
c)	Price for energy markets	$P_P$	$P_P = P / \sum C_{1-8}$	Lei/MWh	-costs for carrying out the activity on the markets (PCCB-LE-flex, PZU, PCV, etc.); -costs for energy transactions and green certificates; -costs for obtaining railway traffic data;  -the amount of these costs is related to the consumption of active electric energy of the railway traction network
d)	Price of the reactive energy	$P_R$	$P_R = \sum R_{1-8} / \sum C_{1-8}$	Lei/MWh	the counter value of the reactive electric energy invoiced by the concessionaire distributors in relation to the consumption of active electric energy of the railway traction network.
e)	Price supply activity	$P_F$	$P_F = C_F + C_{PR}$	Lei/MWh	$C_F$ – the estimated counter value of the expenses with the employees involved in the activity of electricity supply to which are added the direct material costs, the operating and overhead expenses for these employees. This is related to the estimated energy consumption of the railway traction network. $C_{PR}$ – estimated counter value of the profit of the supply activity related to the estimated electricity consumption of the railway traction network. The amount ( $C_F + C_{PR}$ ) is negotiated with the railway transport operators and is constantly applied for the calendar year. The negotiated value for 2023 is 23,62 lei / MWh.

No.	Component of the rate		Modality of calculating	Unit of measurement	Component elements
<b>2.</b>	<b>Counter value of regulated components</b>			Lei	
a)	Tariff for introducing the energy into the transport network	$V_G$	$C_j * T_G$	Lei	$C_j$ – the amount of electricity billed to the consumer in the month of consumption; $T_G$ – tariff for introducing the energy into the transport network.
b)	Tariff for the electricity distribution	$V_D$	$C_j * T_{medD}$	Lei	$T_{medD}$ – average distribution tariff to the railway traction network
c)	Tariff for transportenergy extraction	$V_T$	$C_j * T_{medT}$	Lei	$T_{medT}$ – average transport tariff to the railway traction network
d)	Tariff for national system services	$V_S$	$C_j * T_S$	Lei	$T_S$ – regulated tariff for national system services
e)	Contribution to high efficiency cogeneration	$V_C$	$C_j * T_C$	Lei	$T_C$ – regulated tariff for contribution to high efficiency cogeneration.
f)	Green certificates	$V_V$	$C_j * K_{CV} * P_{CV}$	Lei	$K_{CV}$ – mandatory estimated share of green certificates for the month of consumption; $P_{CV}$ – purchase price for the certificates set according to regulations.
g)	Electricity excise	$V_A$	$C_j * K_a$	Lei	$K_a$ – Electricity excise used for commercial purposes regulated by the Fiscal Code.

NOTE - According to the legislation in force, the regulated tariffs are mentioned separately on the invoice.