



СИСТЕМНЫЙ ОПЕРАТОР
ЕДИНОЙ ЭНЕРГЕТИЧЕСКОЙ СИСТЕМЫ
RUSSIAN POWER SYSTEM OPERATOR

JSC “SYSTEM OPERATOR OF THE UNITED POWER SYSTEM OF RUSSIA”





COMPANY OVERVIEW

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JOINT STOCK COMPANY
“**SYSTEM OPERATOR OF
THE UNITED POWER SYSTEM**”
(SO UPS, JSC)



SO UPS as a specialized infrastructural organization is entitled to solely provide centralized dispatch control of the UPS of Russia and isolated power systems

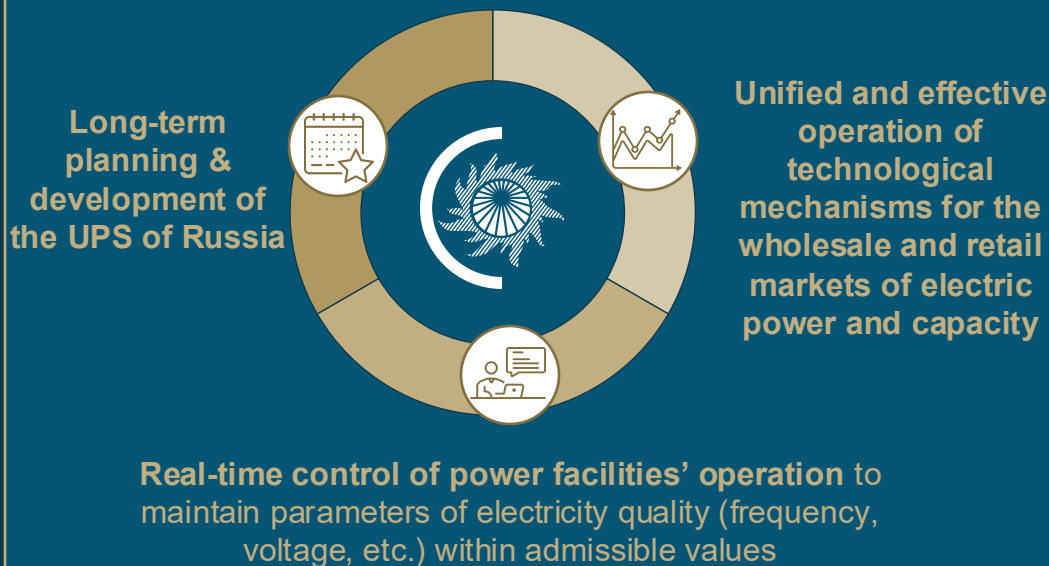


SO UPS was founded on the 17th of June 2002 due to unbundling of RAO UESR.



SO UPS is 100% state-owned and in the list of key strategic Russian companies

MAIN ACTIVITIES OF SO UPS





CURRENT DISPATCH CONTROL SYSTEM OF THE POWER SYSTEM OF RUSSIA





COMPANY STRUCTURE.

UNIFIED THREE-LEVEL MANAGEMENT VERTICAL

Hierarchy of operational dispatch control defines the structure of the SO UPS – a single three-level vertical with rigid separation of authority

CENTRAL DISPATCH OFFICE

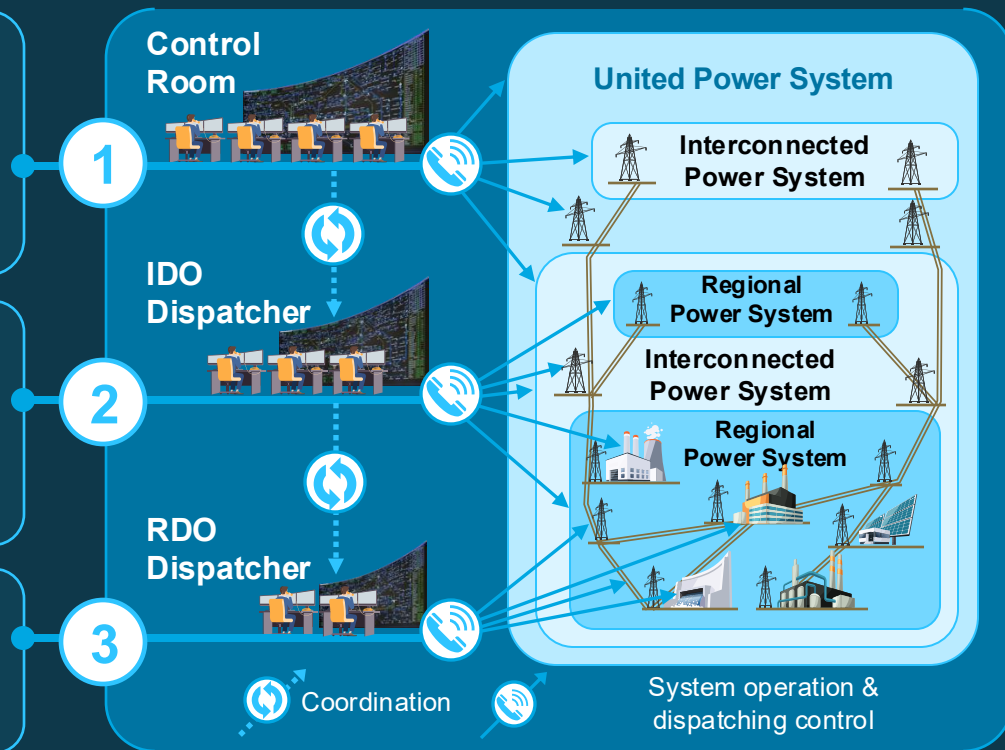
Main task – 24-hour control of the UPS operation and electricity quality parameters, coordination of the IPS synchronous operation, and synchronous operation with foreign systems

INTERREGIONAL DISPATCH OFFICE

Main task – 24-hour control of the Interregional Power System (IPS) operation and generating and network facilities, which affect the IPS significantly, and coordination of low level branches' activities

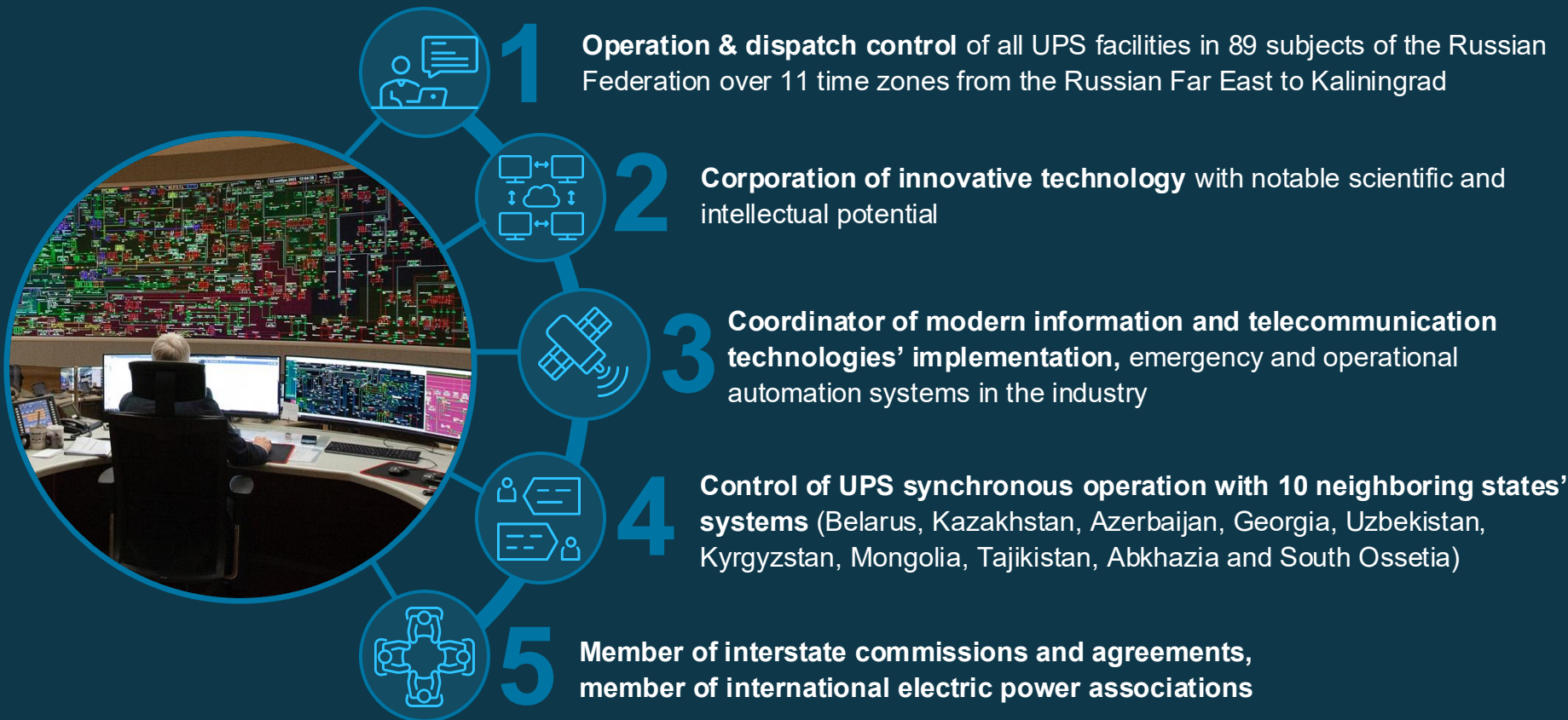
REGIONAL DISPATCH OFFICE

Main task – 24-hour control of the Regional Power System and coordinated operation of all connected facilities





SYSTEM OPERATOR AT A GLANCE



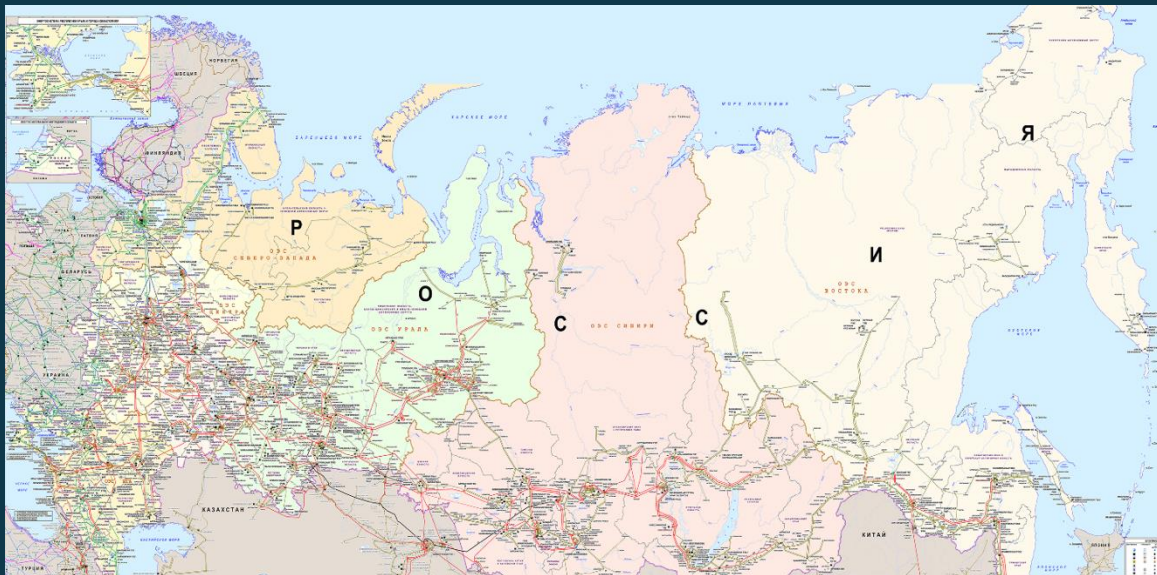


UPS OF RUSSIA AND ISOLATED POWER SYSTEMS UNDER CONTROL

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UPS OF RUSSIA: STRUCTURE

75	Regional Power Systems	} UPS of Russia	5	Isolated Power Systems
7	Interconnected Power Systems: East, Siberia, Urals, Middle Volga, South, Center and North-West			



(as of 1 January 2025)



POWER FACILITIES

1 174

power plants

269,1
GW

total installed capacity



NETWORK FACILITIES

10 500+

substations

17 000+

transmission lines
110–750 kV
with the length of

554 700 km



UPS GENERATION UNITS

7



269 139,3 MW

Power plants' total installed capacity (as of 01.01.2025)



1 196,9 bln kWh

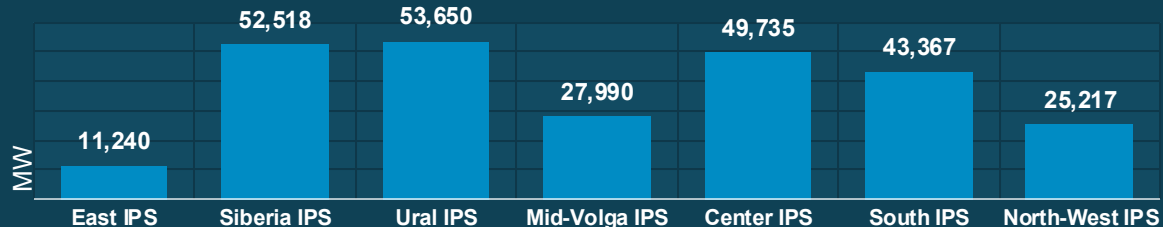
Generation in 2024



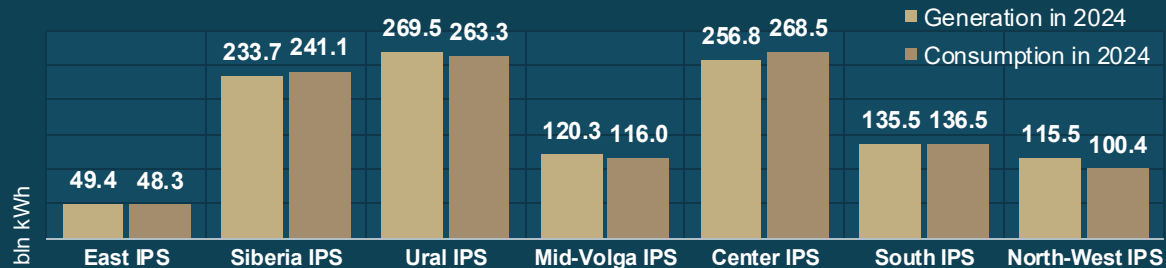
1 190,2 bln kWh

Consumption in 2024

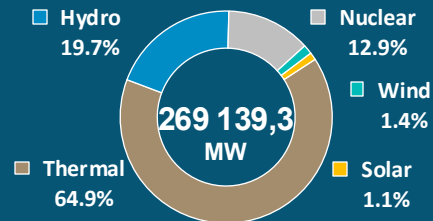
INSTALLED CAPACITY IN IPS AS OF 01.01.2025



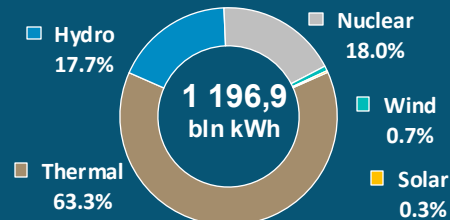
GENERATION & CONSUMPTION IN IPS



UPS OF RUSSIA: INSTALLED CAPACITY (AS OF 01.01.2025)



UPS OF RUSSIA: GENERATION (AS OF 01.01.2025)

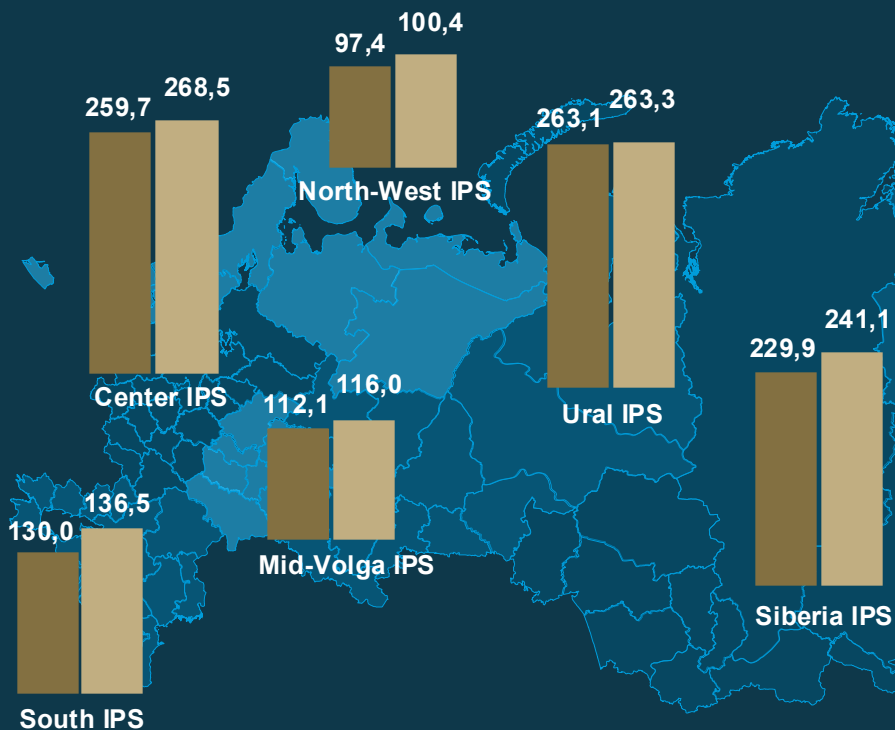




ELECTRICITY BALANCES IN UPS OF RUSSIA (2024)

8

CONSUMPTION IN IPS 2023–2024 (bln kWh)



1 180,7 bln kWh
(2,9 % higher than in 2024)

**Generation in
2024**



1 174,1 bln kWh
(3,1 % higher than in 2023)

**Consumption in
2024**

 Consumption in 2023
 Consumption in 2024