

ASIA CLEAN ENERGY FORUM 2025

Empowering the Future: Clean Energy Innovations, Regional Cooperation and Integration, and Financing Solutions

2–6 June | ADB Headquarters



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Development of renewable energy and their integration into the energy system in Uzbekistan.

5 June 2025 | 11 am. (GMT+8)



Electricity System of Republic of Uzbekistan



TPPs - 18 Of which, **PPP - 7**



capacity - 17,4 GW





HPP - 77

capacity - 2,3 GW

capacity - 1,5 GW **WPP - 3**







capacity - 2,6 GW





Block station - 3

capacity - 223 MW



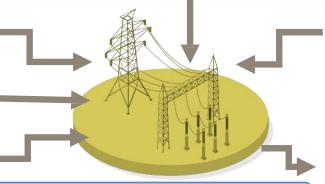
Purchase and sale:

Import

3.5 billion kWh

Export

4,6 billion kWh



By republic: capacity - 23,9 GW;

By the end of 2025, electricity consumption in the country is forecast to reach 86.5 billion kWh

JSC National Electric Grid of Uzbekistan





Electric transmission lines

500 kV - 9 substations 220 kV - 73 substations, 220-500 kV - **11.2** thousand km 110 kV - 5 substations Total **91** substations

According to Resolution No. 844 of the Cabinet of Ministers, from June 1, 2025, **1,842** substations and **29,124** km of power transmission lines 35-110 kV have been transferred to JSC "National Electric Grids of Uzbekistan"



JSC Regional Electric Networks







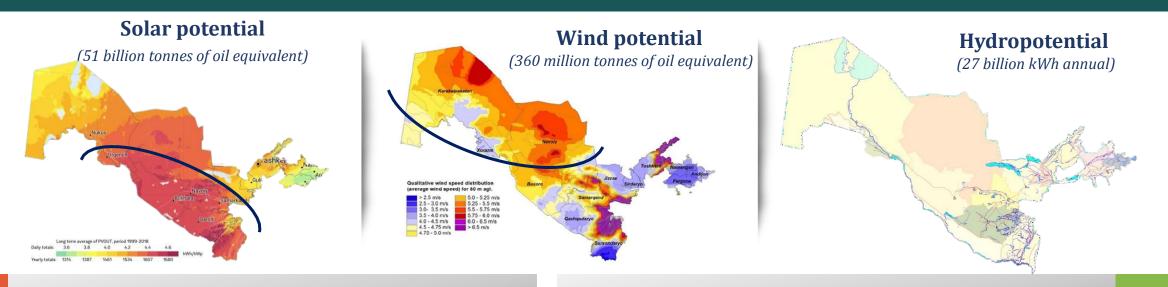
0.4-10 kV - **251,100** km of line

ΤΠ 97 003

Consumers and their consumption of electricity:

Total: 8,1 mln 68,7 billion kWh **21,2** billion kWh **7,5** mln Population: Wholesale: 550 thousand **47.5** billion kWh

RENEWABLE ENERGY POTENTIAL





Priority of RES in the dispatch schedule of the system operator compared to fossil-fuelled gene

 No requirements for RES participation in peak load regulation and localisation during



construction of RES facilities



Non-discriminatory and transparent power connection mechanism

State Support

No fees for connection of RES facilities to the power grid





Property and land tax exemption for 10 year



Guaranteed purchase of electricity for 25 years on a take-or-pay basis



Commissioned and upcoming renewable energy capacities

As of December 2024



Total 3467 MW

Of which:



WPP 900 MW



PVPP 2567 MW



BATTERY 300 MW

Result:



Generation **4,86** billion kWh



1,5 billion m3 **Gas saving**



3.3 billion USD **Investment**

In 2025



Total 3515 MW

Of which:



WPP 752 MW



PVPP 2763 MW



BATTERY 1782 MW

Result:



Generation 10,56 billion kWh



Gas saving

2,6 billion m3



Investment

5,8 billion USD

Results as of the end of 2025



Total 6982 MW

Of which:



WPP 1652 MW



PVPP 5330 MW



BATTERY

2082 MW

Results as of the end of 2030



Total

25,4 GW

Of which:



WPP

11,5 GW



PVPP

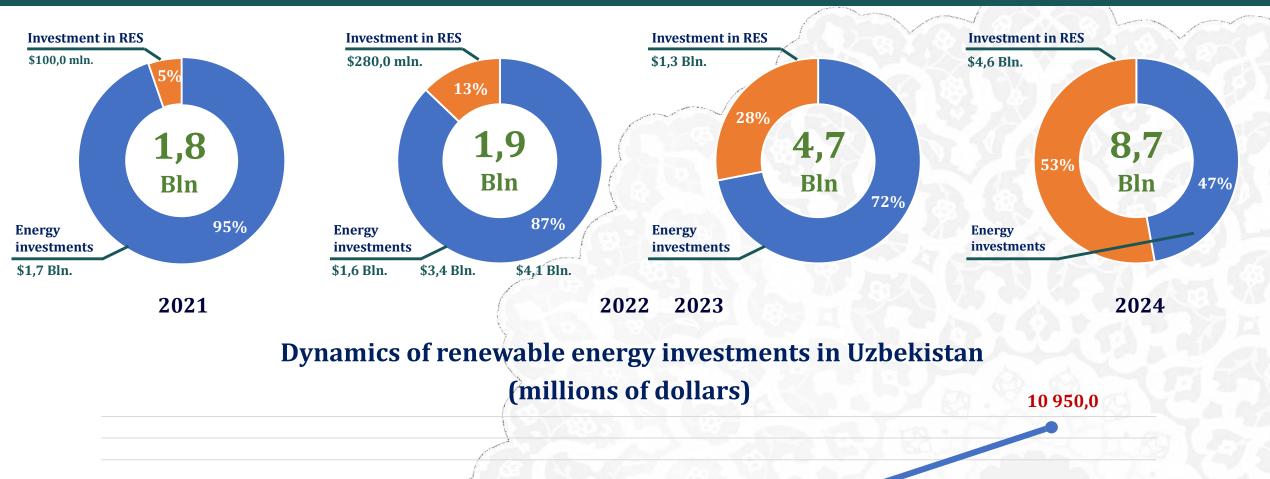
9,4 GW



BATTERY

4,5 GW

Investments in the energy sector





Projects for the Development of Main Electric Networks by 2030

19 projects value
924 million USD are
being implemented with
the participation of IFI
loan funds.

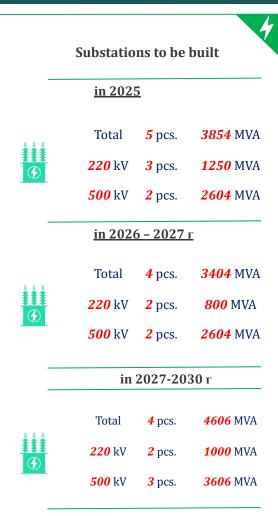
By 2030, it is planned to implement 119 investment projects with a total value of 4,1 billion USD aimed at the development of main power transmission lines and substations, as well as the integration of new power plants into the energy system.

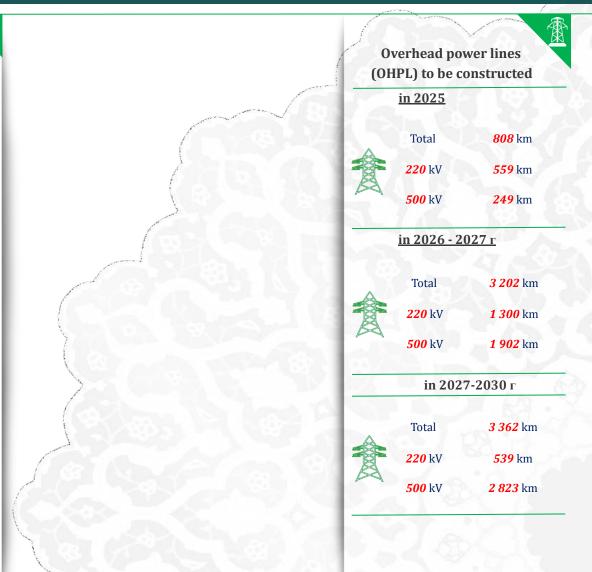
Within the framework of public-private partnership (PPP) projects, **45** projects value **1,7 billion USD** are being implemented by investors.

27 projects value271 million USD are being financed from own funds.

28 projects value
1,2 billion USD
require identification of a financing source.

Uzbekistan Electricity System Development Plan for 2030





COOPERATION RELATIONS WITH NEIGHBORING COUNTRIES

Uzbekistan is also part of the Central Asian Power System (CAPS) and is interconnected (working in parallel) with the neighboring countries of CAPS. The interconnection with Tajikistan was switched off in 2009 and in 2024

specific

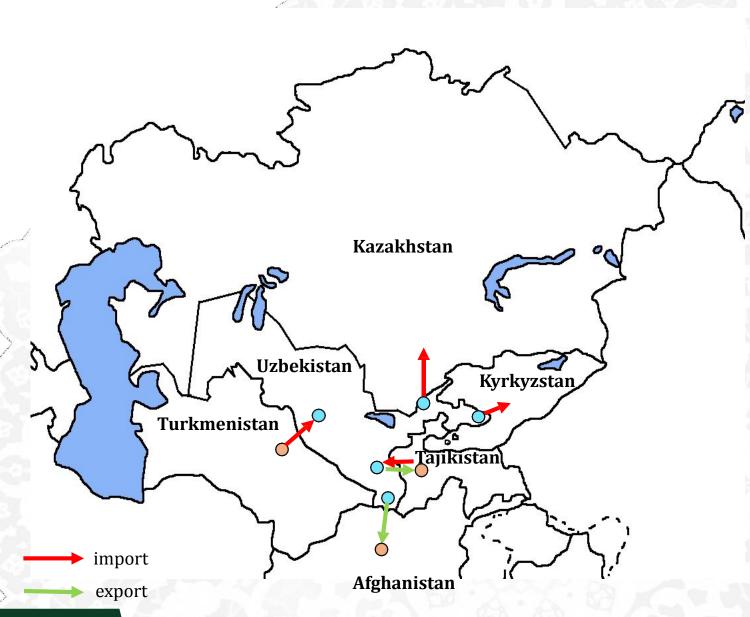
seasonal

reconnected.

Uzbekistan employed a

neighboring countries is provided.

connection arrangement that imports energy from Turkmenistan and Tajikistan Uzbekistan also supplies the Afghan Northeast system by exporting electricity. Uzbekistan and Afghanistan are currently constructing a 500 kV line (Surkhan–Puli-Khumri) increase Uzbekistan's electricity export levels. Power system interconnection map with



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