

How secure is Uzbekistan's energy supply?

Uzbekistan's fuel/energy source security is becoming fragile, as the demand for the country's natural gas resources, the main energy source for electricity, is growing fast in other sectors, too. The plans to diversify into solar and wind power generation, possibly also nuclear power, appear well-founded also from the security of supply angle.

Why is Uzbekistan's energy security so fragile?

It should also include indicators to measure progress. Uzbekistan's fuel/energy source security is becoming fragile, as the demand for the country's natural gas resources, the main energy source for electricity, is growing fast in other sectors, too.

How much energy does Uzbekistan use?

Energy consumption per capita is low in Uzbekistan, around one-quarter below the world average. At the same time, the country's economy remains one of the most energy-intensive in the world, with energy consumption per unit of GDP more than 50% above the world average.

What is Uzbekistan's primary energy source?

As the data on primary energy resources production in Table 1.1 and Figure 1.1 show, natural gas is the Republic of Uzbekistan's main source of primary energy, constituting nearly 85% of the total amount of energy it produces. Oil and natural gas condensate make up about 13% of the country's primary energy production.

Does Uzbekistan have a solar power plant?

In Uzbekistan, HPP generation is counted as electricity produced from renewable energy sources (RESs). Despite the country's considerable solar energy potential, it has no industrial-scale solar power plants. Furthermore, as wind potential has not been studied sufficiently, there are also no industrial-scale wind farms.

How can Uzbekistan improve its energy supply and use?

Uzbekistan has major potential to increase the efficiency and diversity of its domestic energy supply and use. Key to realising this potential is a gradual transition to competitive markets with significant private-sector participation and energy prices that reflect the full cost of supply.

Uzbekistan has adopted the Concept of Providing the Republic of Uzbekistan with Electricity for 2020-2030, which aims to: Increase generating capacity from 12.9 GW to 29.3 GW by 2030. Raise electricity production from 63.6 billion kWh to 120.8 billion kWh. Reduce natural gas consumption from 16.5 bcm to 12.1 bcm.

Using these data, one can calculate Uzbekistan's total domestic energy consumption as being 49 to 50 million t.o.e (Box 1.1). At present, hydropower is the only renewable energy source with a significant share in

Uzbekistan's energy balance. The other kinds of renewable energy - solar, wind and biomass - are used so little

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Uzbekistan's energy use decreased by 14% from 2010 to 2020 to reach 33 million tonnes of oil equivalent (Mtoe). By sector, total final energy consumption (TFC) grew only in transport, by one-quarter.

Uzbekistan: Many of us want an overview of how much energy our country consumes, where it comes from, and if we're making progress on decarbonizing our energy mix. This page provides the data for your chosen country across all of the key metrics on this topic.

Uzbekistan's broad economic reforms were expanded to cover energy in 2019 when the government launched a multiphase transition from the state-owned and -operated and subsidised energy sector model to competitive gas, oil and electricity markets with significant private-sector participation and cost-covering energy prices. The reform plans to ...

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Uzbekistan remains one of the most energy-intensive economies in the world. Energy use is largely based on fossil fuels, although the country has significant RE potential in solar and wind. Natural gas makes up to 83 percent of total primary energy consumption and more than 80 percent of the electricity mix.

Uzbekistan is making strides in renewable energy, aiming to exceed 18,000 MW of solar and wind capacity by 2030, which will enable the country to generate 40% of its electricity from sustainable sources, save billions of cubic meters of natural gas, and reduce harmful emissions.

Uzbekistan relied on fossil fuels for 93% of its electricity in 2022. Its emissions per capita were above the global average. Uzbekistan's largest source of clean electricity is hydro (6%). Its share of wind and solar is less than 1% and is below the global average (13%) as well as its neighbour Kazakhstan (5% in 2023).

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