



SolarTech Power Solutions

Kazakhstan household energy storage system



Overview

With Kazakhstan targeting 15% renewable energy by 2030, storage solutions could unlock \$7.2 billion in private investments. The key?

Developing localized BESS (Battery Energy Storage Systems) that withstand temperature extremes while maintaining 95%+ availability. It's not all smooth sailing. What is Kazakhstan's energy-use roadmap?

The purpose of this roadmap is to help Kazakhstan formulate a policy framework and conditions to enable a household energy-use transition. It is intended to support and guide key government authorities as well as other stakeholders.

How much energy does Kazakhstan use?

In 2018, Kazakhstan's energy consumption (measured by total primary energy supply) was 76 Mtoe, comparable to consumption in the Netherlands (73 Mtoe). Among EU4Energy focus countries, Kazakhstan is the second-largest energy consumer after Ukraine.

Which sector consumes the most energy in Kazakhstan?

In 2018, the residential sector was responsible for 30% of Kazakhstan's total final energy consumption – the second-largest consumer after industry (IEA, 2020). On average, buildings in Kazakhstan consume two to three times more energy per surface area than those in northern parts of Western Europe (UNDP, 2013).

Does Kazakhstan have a gas network?

Although Kazakhstan has enlarged gas network access in some of its regions in recent years, network gas is still unavailable in many areas. Carefully targeted and co-ordinated policy actions that focus on rural and remote areas could certainly speed Kazakhstan's energy transition.

How many solar power plants are there in Kazakhstan?

In its analysis of small-scale renewable facilities with a capacity of 1 kW to 1 000 kW, the project estimated that Kazakhstan has 5 907 such facilities with total electrical capacity of 17.8 megawatts (MW) and heat capacity of 54.1 MW. Most (96%) were installed by individual enterprises, and 97.5% are solar power stations.

Can rural and remote areas speed Kazakhstan's Energy Transition?

Carefully targeted and co-ordinated policy actions that focus on rural and remote areas could certainly speed Kazakhstan's energy transition. This study's primary aim is to explore ways to reduce heating-related residential sector emissions using a scenario analysis approach as the basis of a roadmap for Kazakhstan.

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