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A brief analysis of household energy storage in Uzbekistan





Overview

We scrutinize the impact of household income on energy consumption in Uzbekistan. We do so because the evidence on household energy consumption in post-socialist transition economies is scarce.

Does household income affect energy consumption in Uzbekistan?

We examine the impact of household income on energy consumption in Uzbekistan. Our results show that electricity, natural gas, and fuels are equally essential. Low and high-income households spend a larger budget share on electricity and gas. Households' budget share spent on other fuels is independent of their income level.

Does education influence household energy expenditure shares in Uzbekistan?

Unlike Bangladesh, household education variables play no significant role in household energy expenditure shares in Uzbekistan (see Table 6). Next, the urban area dummy has a statistically significant and positive coefficient in models with electricity expenditure shares for heating and non-heating season as a dependent variable.

Why is the Uzbek power network important?

When operational, the transmission network will integrate the power systems of Central and South Asia and enable parallel operations, mutually increasing energy system resilience. The Uzbek power system lacks flexible generating capacity, resulting in challenges balancing supply and demand.

How much electricity does Uzbekistan import?

Its cross-border capacity is 4,150 MW, 27.6% of the country's installed capacity: 1,000 MW with Kazakhstan, 850 MW with Tajikistan, 450 MW with Afghanistan, 850 MW with Turkmenistan, and 1,000 MW with Kyrgyzstan. Historically, net electricity trade was balanced near zero, but in 2019, Uzbekistan became a net importer.



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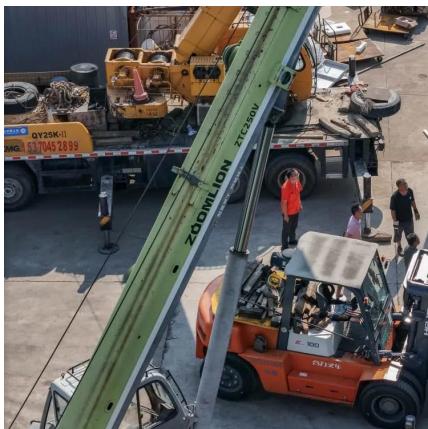


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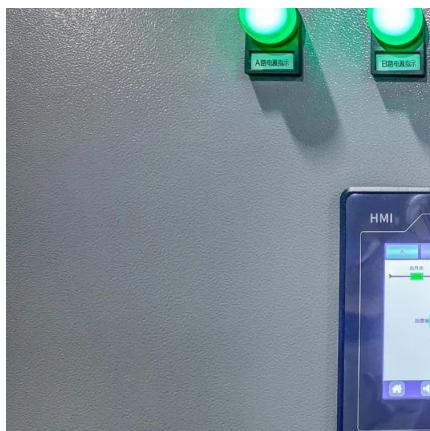
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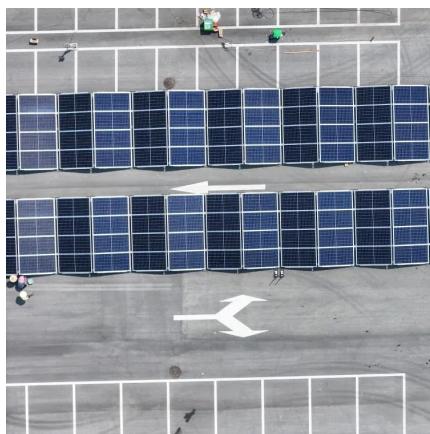
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