

Should Transnistria buy electricity?

"The elites in Transnistria acknowledge already that we buy electricity from the region not because we have to but because the alternative is to throw the region into a humanitarian crisis," Moldovan Energy Minister Victor Parlicov said in an interview. Still, officials are unequivocal: It's time to end the multi-generational deadlock.

Why are energy storage trams important?

The modern tram system is an essential part of urban public transportation, and it has been developed considerably worldwide in recent years. With the advantages of safety, low cost, and friendliness to the urban landscape, energy storage trams have gradually become an important method to relieve the pressure of public transportation.

Why are lithium batteries used in energy storage trams?

Compared with the traditional overhead contact grid or third-rail power supply, energy storage trams equipped with lithium batteries have been developed rapidly because of their advantages of flexible railway laying and high regenerative braking energy utilization.

Should Transnistria end its energy monopoly?

Undercutting the breakaway region's cash flow by ending its energy monopoly offers a chance to heal the country's divisions and join the bloc as one nation. "Solving the energy issue with Transnistria would be a major step forward," said Viola von Cramon-Taubadel, a German MEP and member of the European Parliament's foreign affairs committee.

Should rail vehicles have onboard energy storage systems?

However, the last decade saw an increasing interest in rail vehicles with onboard energy storage systems (OESSs) for improved energy efficiency and potential catenary-free operation. These vehicles can minimize costs by reducing maintenance and installation requirements of the electrified infrastructure.

How many Russian troops are in Transnistria?

Wearing camouflage uniforms, they huddle together against the rain at a checkpoint emblazoned with the Soviet hammer and sickle. These are just a few of the 1,500 Russian troops keeping Transnistria under Moscow's thumb, more than 30 years after Moldova gained independence from the USSR.

Tiraspol is the capital of the de-facto state of Transnistria (or Pridnestrovie) which is a breakaway region of Moldova. ... A Hybrid Energy Management Strategy based on Line Prediction and ...

A hybrid energy storage system (HESS) of tram composed of different energy storage elements (ESEs) is gradually being adopted, leveraging the advantages of each ESE. The optimal sizing ...

This paper investigates an ESS based on supercapacitors for trams as a reliable technical solution with considerable energy saving potential and proposes a position-based ...

Since a shared electric grid is suffering from power superimposition when several trams charge at the same time, we propose to install stationary energy storage systems (SESSs) for power ...

This article focuses on the optimization of energy management strategy (EMS) for the tram equipped with on-board battery-supercapacitor hybrid energy storage system. The purposes of ...

The face-off has been tense, but maintained by a powerful connection: Moldova gets cut-rate Russian energy via Transnistria, which gets hundreds of millions of euros a year in return. The link allowed Russia to ...

Wayside energy storage installation can be a more efficient and cost-effective solution for off-board braking energy recuperation. They can reduce the energy provided by the AC grid and stabilize the DC grid voltage through ...

2nd-life for automotive battery systems: Stationary energy storage from Mercedes-Benz Energy GmbH (example). In the G UW + project, a stationary energy storage system is being build based on battery systems that were ...

In recent years, the development of energy storage trams has attracted considerable attention. Our current research focuses on a new type of tram power supply system that combines ...

A tram with on-board hybrid energy storage systems based on batteries and supercapacitors is a new option for the urban traffic system. This configuration enables the tram to operate in both ...

Before Russia's full-scale invasion of Ukraine, Moldova was one of Europe's most dependent countries on Russian energy. But over the last year, Moldova has managed to achieve full independence from Russian gas, ...

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