

This article explores operational projects, emerging trends, and how innovations like grid-scale batteries are stabilizing power supply while reducing carbon emissions. Discover key data, case studies, and ...

By enhancing transmission capacity and increasing reliability, the project will create a more robust and flexible power system capable of meeting future energy needs of households and ...

Sector investment and economic impact The total value of production and services in Azerbaijan's electricity, gas, and steam sectors reached \$1.9954 billion during January-July 2025, ...

The water quality of the Caspian Sea is continuously monitored by a network of marine drones and satellite-linked sensors. In 2040, Baku stands not only as a smart city--but as a symbol ...

While major powers stumbled through prolonged conflicts and economic turmoil, Azerbaijan quietly expanded exports, invested heavily in refining capacity, diversified its supply lines, ...

The launch of construction on the Zangezur high-voltage transmission line and parallel political signals from Baku, Yerevan, and Ankara suggest that trans-regional energy connectivity may ...

This research aims to fill these gaps by providing a detailed examination of the operational, economic, and strategic facets of microgrids, thus offering valuable insights for optimizing energy ...

Baku has been discussing the need to move away from hydrocarbon reliance since the early 2000s, but the first concrete proposals to develop Azerbaijan's broader economy were ...

Introduces a novel two-stage robust optimization framework for scheduling carbon-free microgrids with decision-dependent uncertainties (DDUs). Proposes dynamically adaptive polyhedral ...

While Azerbaijan has begun to diversify its economy, for example by investing in the development of renewable energy, Baku also remains committed to hydrocarbon production.

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