

Electricity demand in Saudi Arabia is undergoing unprecedented changes following the implementation of efficiency measures and energy price reforms. These changes raise uncertainties ...

This study estimates the EV load profiles in Saudi Arabia based on real survey data conducted in five different regions. Additionally, data from all commercially available EV models (up ...

Dive into the research topics of "Thermal energy storage application for load shifting and electrical demand management in Saudi Arabia". Together they form a unique fingerprint.

This study estimates the financial implications of load shifting in the Saudi industrial sector. We use a national Saudi power system dispatch optimization model to simulate three scenarios.

One way to adjust demand is load shifting, in which industries transfer some of their electricity use from peak to off-peak times. The team simulated the effects of load shifting across ...

As part of its OPEC+ membership, Saudi Arabia agreed to 0.5 million barrels per day (b/d) in additional crude oil production cuts that began in May 2023. In June 2024, OPEC+ extended these ...

Cross-seasonal Fuel savings from load shifting in the Saudi industrial sector : insights using a power system model

Based on our findings, we recommend three policy actions to unlock the potential gains from industrial load-shifting in Saudi Arabia. First, we recommend conducting pilot experiments at the ...

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