

Load shifting abu dhabi

TRANSCO, a subsidiary of Abu Dhabi National Energy Company ("TAQA"), one of the largest listed integrated utility companies in Europe, the Middle East and Africa (EMEA), has achieved four significant milestones in its commitment to the UAE's sustainable energy future.

The company has successfully activated two of the UAE's largest phase-shifting transformers in Abu Dhabi and commissioned the largest dynamic reactive power system in the country along with a utility-scale reactive power system in Al Ain.

"These projects will ensure that the network is resilient and capable of handling the changing energy mix from low-carbon sources, such as solar and nuclear," said Dr. Afif Al Yafei, CEO of TRANSCO. "As the UAE works towards its 2050 net zero target, projects like these will ensure that the energy transition is appropriately supported by a reliable, advanced and safe transmission infrastructure."

The two new phase-shifting transformers in Abu Dhabi are crucial for controlling power flow within the grid. Commissioned in May and August of this year, these phase shifters allow for enhanced flow control capability which leads to balanced energy flows, reduced power loss, and better management of the grid.

"The activation of these phase-shifting transformers is a testament to our commitment to sustainability and innovation," said Dr. Al Yafei. "This project not only enhances our grid's performance but also aligns with the UAE's vision for a sustainable future."

In a UAE first, TRANSCO commissioned the country's largest dynamic reactive power system, known as a STATCOM, in the Zakher area of Al Ain in September 2024. Earlier, in July 2024, TRANSCO commissioned a utility-scale static reactive power system (capacitor bank) in Al Ain's Towayya region.

A STATCOM (static synchronous compensator) provides real-time, continuous control of the system voltage and reactive power levels. By comparison, capacitor banks offer a fixed solution for balancing the reactive power.

These reactive power systems will ensure consistent power quality for all consumers, from large industrial facilities to individual households. This technology will be instrumental in maintaining the quality of power supply as the UAE diversifies its energy mix.

"TRANSCO's reactive power system is a critical component of the UAE's energy transition," explained Dr. Al Yafei. "It ensures that government, businesses, industries, and individuals are supported with high-quality power services as the country evolves."



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TRANSCO is the largest power and water transmission asset owner in the UAE. The company's network spans 11,000 kilometres of electricity grids and over 3,500 kilometres of water pipelines.

Effective January 2025, TRANSCO will be renamed TAQA Transmission, aligning with ongoing integration efforts across the TAQA Group. For more information see here: [TAQA Announces New Unified Customer Facing Distribution Company and Launches New Brands for its Group Companies - TAQA.](#)

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