

Energy storage for load shifting abu dhabi

ABU DHABI, 25th November, 2024 (WAM) -- TRANSCO, a subsidiary of Abu Dhabi National Energy Company (TAQA), 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.

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, leading to balanced energy flows, reduced power loss, and better grid management.

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.

These projects are the first in a planned network of 29 reactive power systems slated for deployment across the Abu Dhabi grid in the next few years.

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Most recently, Emirates Water and Electricity Company (EWEC) announced its plans to bolster Abu Dhabi's energy grid with a new 400-megawatt battery energy storage system (BESS).



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