

400kV INSULATORS TO COVER MORE THAN 500 KM OF NEW OHL IN THE UAE



BONOMI FOR TRANSCO

BONOMI IN THE UAE

Bonomi's insulators to cover more than 500 km of high voltage OHL

Transco (Abu Dhabi Transmission and Despatch Company) is a wholly government owned part of the Abu Dhabi Water and Electricity Authority (ADWEA). Transco's core business is the planning, construction and operation of water and electricity transmission network within Abu Dhabi and the UAE.

Bonomi has been working with Transco in the construction and development of new electricity lines in the UAE since different years, becoming a **reliable partner for MV and HV composite insulators supply**.

Among the last and most important projects we are working on there's for sure the **development of more than 500 km of high voltage OHL**.



SUPPORTING THE UAE ELECTRICITY 7-YEARS PLAN



Almost 7.000 400 kV composite insulators supplied to Transco between 2018 and 2019.

kN

Part of this supplying has a special mechanical load:
260 kN



Special attention has been paid to the design, in order to avoid any possible problems that can occur in desert areas



Type test led by certified labs with Mosdorfer's special components



We show the standard

Since the very beginning, Bonomi's production units are specialized in the **engineering and production of components for electrical conductivity also dedicated to large infrastructures.**

We work every day **to set the standards in a context of continuous growth** and we are committed to overseeing the entire supply chain.

PROJECT DETAILS

This project is part of 2017 Electricity Seven Year Planning Statement for transmission within the Emirate of Abu Dhabi and some other nearby areas.

Major 400kV transmission capacity reinforcement works have been planned in the Western region and across West-East corridor to enable power evacuation from the new combined cycle fossil fuel power plant at Mirfa and nuclear power plants at Barakah site in the Western region.

This project will lead to a sufficient transfer capability across the West-East corridor and will strengthen the overall 400kV transmission system.



The current major investments are focused on:

- Barakah nuclear power plant integration and associated 400kV transmission reinforcement works across West-East corridor;
- 400kV cable works across Abu Dhabi-Sadiyat-Bahia corridor and across Mussafah-Mahawi-Sas Al Nakheel corridor;
- 400kV transmission reinforcement works across Shamkha-Shahama-Sweihan corridor.

Bonomi's supply actually covers over 500km of transmission lines on these specific routes:

- Shamkha – Sweihan
- Tane – Bahia
- Barakah – Bab



Tailor-made project

In order to satisfy all Transco's technical requests, Bonomi Energy R&D department worked on specific and customized features.

To give a longer life time to the insulator, **we improved the weathershed design and reduce the intensity of the electrical field: in this way we were able to minimize the leakage current.**



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