

Application of Renewable Energy through Costs-From-Savings

Project Description

The Public Authority for Water (PAW) formerly known as Public Authority of Electricity & Water (PAEW) is a governmental institution and the regulator for the water sector in Oman. PAW is also a direct water service provider, responsible for supplying potable water to homes and businesses except in few governorates. It operates around 1800 assets including reverse osmosis plants, pumping stations, booster pumping stations, wells/well fields as well as tanker filling stations and buildings throughout the country.

The energy costs for the operation of these assets represent a huge annual operational expenditure and is likely to increase as water demand is increasing country wide. Furthermore, the electricity bills are expected to increase significantly particularly during the summer peak load duration on account of the Cost Reflective Tariff (CRT) regulation issued by the Authority for Electricity Regulation (AER) in January 2017 and revised thereafter every year which are imposed on PAW's assets consuming more than 150 MWh/year.

PAW was interested in investigating the application of Renewable Energy (RE) through cost-from-savings by replacing high CRT and diesel costs in its energy-intensive assets.

Project Details

- Project duration: May 2018 to March 2019
- Project location: Oman

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Our Role

Based on the terms of reference, ITP India along with ITPE UK and SIE Oman was responsible, amongst others, for:

- Review of international experiences on RE applications and costs-from-savings
- Prioritization of sites, site visits to 18 PAW assets and selection of 10 sites for feasibility studies
- Development of methodology and accordingly conducting detailed technical and financial feasibility studies for 10 selected sites which included grid and off-grid solar PV grid plants.
- Development of implementation plan and bidding documents
- Organisation of knowledge transfer sessions in India and final workshop in Muscat, Oman
- Recommendations to PAW based on final workshop outcomes

The assignment delivered ten (10) reports and documents.

Client

Public Authority of Water (PAW), Oman

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