



Oman energy storage for demand response

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The planning and Project Development (PPD) department is responsible for developing plans that assure adequate power generation and water desalination resources to meet demand, and for developing methods and policies to assure economic resource procurement.

The PE department prepares a number of forecasts that support planning and operations, such as demand forecasts, budget forecasts, and gas requirements forecasts. The PE department also prepares the annual 7-Year Statement, and Bulk Supply Tariffs for Electricity and Water.

PWP determines Bulk Supply Tariffs for Electricity and Water annually, following the principles set forth in its license and as approved by the Authority for Public Services Regulations, Sultanate of Oman.

The 7-Year Statement provides a 7-year outlook of the demand for electricity and desalinated water, the power generation and desalination resources required to meet those demands, procurement activities, and fuel requirements. The 7-Year Statement focuses on PWP supply areas including the Main Interconnected System, Dhofar Power System, Musandam and Duqm.

The Resource Options Study is intended to (1) update resource specifications currently used for medium-term planning (4-8 years), and (2) enable analysis of long-term (9-25 years) capacity expansion options for the Oman power system. The Study identifies and specifies a comprehensive set of electricity supply options, and all associated parameters, which NPWP will subsequently use as candidate resource inputs to its power system simulation model for supply planning and analysis.

The overall objective of the study is to evaluate the potential role of energy storage technologies in the Sultanate of Oman's power system over the period 2025 to 2040, with a particular focus on the role of technologies in supporting the transition from today's predominantly gas-based system with a high Renewable Energy share consistent with Oman's 2040 Vision policy.

Sultanate of Oman's interest in the deployment of solar electricity generation began approximately in 2008 when a first study¹ on renewable energy resources in the Sultanate of Oman was published by the Authority for Public Services Regulations (formerly: the Authority for Electricity Regulation). The study concluded that the solar resources in the Sultanate of Oman are among the highest in the world. Further, it was stated that the total solar energy resources in the Sultanate of Oman are huge and could theoretically cover all energy demands while also providing for export.

The Project is expected to assist the PWP to evaluate the feasibility of developing a Demand Response (DR) Program to contribute to future capacity requirements alongside the current practice of procuring



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capacity through I(W)PPs, trades with neighbouring power systems, and the wholesale spot market.

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