

Abdelhady, S., Borello, D., Santori, S. **Economic feasibility of small wind turbines for domestic consumers in Egypt based on the new Feed-in Tariff.** in International Conference on Applied Energy - ICAE2015. Abu Dhabi, UAE.

ABSTRACT

This paper provides an overview of the wind power potential at different regions in Egypt, along the Mediterranean and Red Sea, and the Western desert. A further technical and economic assessment is conducted for the electricity generation with 8 different small wind turbines at 17 locations. The annual electricity generation from selected wind turbines is evaluated. The obtained data are presented and discussed investigating the net present value and the payback period analyzing the profitability of selected wind turbines. The dependence of the turbine profitability from the feed-in tariff is specifically addressed.