Abstract

This paper presents the potential impact of various energy generation utilizing wind turbines, photovoltaic cell, fuel cell and diesel generation for AL-Arish, Sinai, Egypt. In addition to investigating the feasibility for each combination where they are simulated using Hybrid Optimization Modeling for Energy Renewable (HOMER) software to find the optimum size for each unit and its corresponding economics.

References

- El Badawe & M. Iqal T George M, (2011) "Optimal sizing and modeling of a hybrid energy system for a remote telecommunication facility" presented at IEEE 21
NECEC conference St ohn’s NF.

**Index Terms**

Computer Science

Energy Applications

**Keywords**

HOMER Software Wind Turbine PV Battery Diesel Generator Fuel Cell.