

PIENAAR ENERGY (PTY) LTD

Comparison of Off-Grid Photovoltaic Cell Cabinets and Diesel Engine Types



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Comparative Study of Hybrid Solar Photovoltaic

A photovoltaic system and a diesel generator were incorporated as hybrid energy system, and the data gathered was processed using the HOMER software. The output of the simulation ...

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Comparison of using photovoltaic system and diesel generator ...

The economic optimisation objective presented for two energy systems scenarios (i) photovoltaic /grid and (ii) diesel /grid. The component prices and economic assumptions based on ...



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A Comparative Study of the Optimal Sizing and Management of Off-Grid

A techno-economic viability study for the multiple combinations of wind turbines, photovoltaics (PVs), and diesel generator engines has been examined in Colombia for energy ...

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Comparison between Three Off-Grid Hybrid Systems (Solar ...

Three off-grid systems have been proposed: (i) Photovoltaic (PV) systems with a diesel generator; (ii) Photovoltaic systems and battery storage; and (iii) Photovoltaic systems with diesel ...

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Technical, economic, and environmental assessment of a stand ...

Duman AC, Güler Ö (2018) Techno-economic analysis of off-grid PV/wind/fuel cell hybrid system combinations with a comparison of regularly and seasonally occupied households.

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Optimum design and scheduling strategy of an off-grid hybrid

Optimum design and scheduling strategy of an off-grid hybrid photovoltaic-wind-diesel system with an electrochemical, mechanical, chemical and thermal energy storage systems: A ...

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Optimization of an off-grid hybrid

photovoltaic/wind/diesel/fuel cell



In this study, the optimization of a multisource hybrid photovoltaic (PV)/Wind/Diesel/Fuel cell (FC) system is performed to meet three realistic loads...

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Design and Analysis of PV-DIESEL Hybrid Power System Case Study

The textbook presents a brief outline of the basic engineering in designing and analysing PV diesel hybrid power systems. The study has been taken from the point of view of introduction

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Modeling and optimum design of an off-grid PV/WT/FC/diesel

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Abstract In power systems, meeting the electricity demand of remote regions is an imperative issue. Considering economic aspects, reliability and pollution concerns, combination of ...

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Comparison of using photovoltaic system and diesel generator ...



The work in this paper presents techno-economic evolution for two energy systems (conventional and renewable) set with grid connection. The investigation was carried out by using an ...

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