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Solar Fiji, supply and install the highest quality solar power systems in the South Pacific. Based in Nasinu, Suva, we specialize in Off Grid and Grid Connect Solar Power Systems and are official distributors of world leading brands such as Victron Energy, Canadian Solar, Narada Batteries and QCells. Our parent company, GreenPowerCo, based in Melbourne Australia REC est. ...

Abstract. The demand for space cooling in Fiji is increasing rapidly due to a high infrastructure development rate in the country. Seawater air conditioning is a solution to the problem of space cooling using renewable energy. In this work, a feasibility study and design of a SWAC system for a university building is carried out. The feasibility study included the cooling ...

ASME Press Series on Renewable Energy Edited by K.R. Rao This first volume in the new ASME Press Book Series on Renewable Energy is based on updated chapters from the classic 2011 Handbook of Energy and Power Generation, also edited by Dr. Rao and published by ASME Press.The discussions in this book cover varied aspects of solar energy in use around the globe.

J. Sol. Energy Eng. | 146 | 3 | June 2024. View article titled, Experimental Study on Performance of a Solar Thermal-Driven Vapor Absorption System Integrated With Hot Thermal Energy Storage for Milk Chilling

J. Sol. Energy Eng. | 143 | 5 | October 2021. View article titled, Application of Artificial Intelligence Techniques in Prediction of Energetic Performance of a Hybrid System Consisting of an Earth-Air Heat Exchanger and a Building-Integrated Photovoltaic/Thermal System

J. Sol. Energy Eng. | 147 | 2 | April 2025. View article titled, Technological Limit of Solar Concentration Technique Applied to Hybrid Photovoltaic-Thermal Solar Collector Equipped With Thermoelectric Generator Incorporating Ternary Nanofluid

About the Journal. The Journal of Solar Energy Engineering - Including Wind Energy and Building Energy Conservation - publishes research papers that contain original work of permanent interest in all areas of solar energy, wind energy, and energy conservation, as well as discussions of policy and regulatory issues that affect renewable energy technologies and their implementation.

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This study presents a numerical optimization of a ducted wind turbine (DWT) to maximize power output. The cross section of the duct was an Eppler 423 airfoil, which is a cambered airfoil with a high lift coefficient (CL). The rotor was modeled as an actuator disk, and the Reynolds-averaged Navier-Stokes (RANS) k-? model was used to simulate the flow. The ...

This Special Issue of the ASME Journal of Solar Energy Engineering highlights the breadth and depth of research presented at the 17th Annual International Conference on Energy Sustainability, held in Washington, DC in the summer of 2023. The conference was jointly organized by the Solar Energy Division and the Advanced Energy Systems Division of the ...

Journal of Energy Resources Technology, Part B: Subsurface Energy and Carbon Capture Journal of Engineering and Science in Medical Diagnostics and Therapy Journal of Engineering for Gas Turbines and Power

Abstract. Fiji needs to invest in renewable energy sources to meet its energy needs to reduce the country"s dependence on imported fossil fuels. For investing in wind energy projects, a detailed assessment of wind energy resource is required. In this work, wind speeds were measured at 34 m and 20 m above ground level at a site in Suva for three years and the ...

Horizontal axis wind turbine (HAWT) performance is usually predicted by using wind tunnel airfoil performance data in a blade element momentum theory analysis. This analysis assumes that the rotating blade airfoils will perform as they do in the wind tunnel. However, when stall-regulated HAWT performance is measured in full-scale operation, it is common to find ...

Contributed by the Solar Energy Division of ASME for publication in the J OURNAL OF S OLAR E NERGY E NGINEERING. Manuscript received December 20, 2012; final manuscript received November 3, 2013; published online December 19, 2013. ... 23rd European Photovoltaic Solar Energy Conference and Exhibition, Valencia, Spain, September 1-5, pp. ...

For eg., the average electricity consumption in the US was 12,830 kWh/person/year in 2016. In India, most states have peak and energy deficits. In 2008-09, the average deficit was about 8.2% for energy and 12.6% for the peak. These deficits reduced in 2017-18. The average deficit now is about 0.8% for energy and 1.1% for peak power [1].

Topics: Errors, Performance evaluation, Polynomials, Solar energy, Sunlight, Irradiation (Radiation exposure), Solar radiation, Radiation (Physics), Regression analysis A Combined Computer Vision and Deep Learning Approach for Rapid Drone-Based Optical Characterization of Parabolic Troughs

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The Training in Alternative Energy Technologies (TAET) Program began in the late 1970s through the US State Dept."s Agency for International Development (US AID) to train professionals and ranking government officials from developing nations in alternative energy sources (solar thermal, biogas, photovoltaics, energy conservation, crop drying ...

The publishing on technical papers, technical brief notes & discussions on all aspects of solar derived energy combine with announcements and notes of interest in the journal of solar energy engineering by ASME. Members can SAVE up to 90%.

Fiji"s transport sector is completely dependent on fossil fuels with fuel import bill equivalent to an average 58 % of export earnings and taking up 21 % of total import bill. The smallness of Fiji and dispersed islands within Fiji group leads to many challenges to have accessible, affordable and sustainable energy supply.

J. Sol. Energy Eng. | 147 | 3 | June 2025. View article titled, Thermal Exploration of Combined Rectangular and Semi-Circular Artificial Ribs in the Flow Regime of Solar Air Heater: A Computational and Experimental Approach

Exergy Optimization of a Hybrid Multi-Evaporative Desalination Plant Powered by Solar and Geothermal Energy J. Sol. Energy Eng (June 2025) Assessment of Conical Solar Stills Empowered by N-Replicated Partially Shaded PVT-CPC Collectors: Unveiling Exergo-Enviro-Economic Dynamics, Productivity, and Cogeneration Efficiency

Exergy Optimization of a Hybrid Multi Evaporative Desalination Plant powered by Solar and Geothermal Energy J. Sol. Energy Eng Direct Normal Irradiance Prediction-Based Optimum Interval Tilt Angles for Enhancement of Energy Output, Levelized Cost of Energy, and CO 2 Emission in a Grid-Connected Photovoltaic System

Fiji"s energy services sector faces challenges unique to the nation"s geography, namely, providing energy across over 100 populated islands, the scale-related challenges of our small energy market, and an extreme susceptibility to external shocks in managing the evolution of Fiji"s energy sector to serveto energy supply.

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