

Keywords: Organic Rankine Cycle; Ocean Thermal Energy Conversion; experimentation; prototype; energy analysis ... Cuba 1930 Onshore Open Seawater 27 / 13 Flash evaporation 22 1.3 [30] USA 1979 Offshore Closed NH 3 26.1 / 5.7 ...

According to the International Energy Agency, about 10 % of global CO₂ emissions are generated by medium and heavy-duty trucks [1] Europe, heavy-duty vehicles account for more than 25 % of total CO₂ emissions [2] China, medium- and heavy-duty trucks account for more than 60 % of road transportation energy consumption [3] the United ...

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The VAST Power Cycle uses a gas turbine expander to meld the Brayton cycle with the Rankine cycle, eliminating the steam turbine of the combined cycle (Figure 2).

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1. Introduction. The deep ocean is a complex and unpredictable environment. Deep-sea observation can enhance our understanding of marine environments, resources, ecology, and disasters, thereby facilitating the development and utilization of deep-sea resources [1] accordance with the United Nations' 2030 Agenda for Sustainable Development, the ...

OverviewHistoryDescriptionCurrently operating OTEC plantsThermodynamic efficiencyPower cycle typesLand, shelf and floating sitesPolitical concernsAttempts to develop and refine OTEC technology started in the 1880s. In 1881, Jacques Arsene d'Arsonval, a French physicist, proposed tapping the thermal energy of the ocean. D'Arsonval's student, Georges Claude, built the first OTEC plant, in Matanzas, Cuba in 1930. The system generated 22 kW of electricity with a low-pressure turbine. The plant was later destroyed in a storm.

mal energy, solar energy, and waste heat recovery produced from engines or industrial processes. Moreover, this bibliographic review also includes an analysis of the different

in solar intensity and until all of the energy stored in the hot tank is depleted. Energy storage and dispatchability are very important for the success of solar power tower technology, and molten salt is believed to be the key to cost effective energy storage. Sunlight Figure 2. Dispatchability of molten-salt power towers.

In 1930, his student Georges Claude built the first OTEC unit in Cuba, which generated 22 kW using a low-pressure steam ... for four working fluids--R114, R134a, R600, and R600a--for both the Vapor Compression Refrigeration and Organic Rankine cycles. Various energy and exergy parameters are assessed, including net work generated, energy ...

William John Macquorn Rankine FRSE FRS (/ ' r æ n k I n /; 5 July 1820 - 24 December 1872) was a Scottish mathematician and physicist.He was a founding contributor, with Rudolf Clausius and William Thomson (Lord Kelvin), to the science of thermodynamics, particularly focusing on its First Law.He developed the Rankine scale, a Fahrenheit-based equivalent to the Celsius ...

The goal of the present work was to carry out a review of the disposal practices for the agro-industry's sugarcane residue and the trends of energy use in Cuba. The lack of an ...

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In the current research, an ocean thermal energy conversion (OTEC) assisted multi-generation process with a transcritical Rankine cycle (tRC) working with carbon dioxide ...

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Ocean Thermal Energy Conversion (OTEC) offers a promising avenue for renewable energy generation, leveraging temperature gradients in ocean water to produce electricity. Despite its potential, OTEC grapples with system efficiencies lingering between a modest 3 to 5%. This study provides an exhaustive exploration of OTEC's inherent challenges, ...

Energy Storage Systems (ESS) have been increasingly demanded due to the growth of intermittent sources on the electrical grid [1, 2].ESS can be used to store excess of electrical energy during low demand periods and generate electric energy during high demand, e.g. when wind energy systems generate energy outside peak times the surplus energy is ...

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As shown by the devastation to Cuba's energy grid caused by Hurricane Ian in 2022, increases in extreme



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weather events can reduce the supply of fossil fuels, damage generation and grid infrastructure, reduce output, and affect the security of supply. Transitioning to a cleaner and more climate-resilient system is essential if Cuba is to keep ...

Rankine Energy solutions Limited is a rapidly growing integrated Oil Marketing and Trading Company in Nigeria. Founded in 2015, and designed to redefine the meaning of petroleum ...

FENGYUN CHEN et al: THERMODYNAMIC ANALYSIS OF RANKINE CYCLE IN OCEAN THERMAL . . . DOI 10.5013/IJSSST.a.17.13.07 7.1 ISSN: 1473-804x online, 1473-8031 print ... Keywords - ocean thermal energy conversion, Rankine cycle, thermodynamic efficiency, exergy efficiency, terminal temperature difference I. INTRODUCTION

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