

EDF (Electricit  de France), in partnership with the Government of Laos, has taken a major step towards Southeast Asia's decarbonisation by signing a memorandum of understanding (MoU) to conduct feasibility studies for the Nam Theun 2 Pumped Storage Hydropower project. The project, which will have an installed capacity of up to 2,000 ...

Laos has a number of new railways that are planned for the future, one of which being the Vientiane - Vung Ang railway project. Vung Ang is in Ha Tinh Province in the North Central Coast region of Vietnam. It's the closest seaport to Laos, so building a railway there would efficiently connect landlocked Laos to a shipping port.

This paper studies the energy management problem of a seaport integrated energy system under the polymorphic network. Firstly, with the diversity of energy devices, a seaport integrated energy system based on the polymorphic network is established to ensure information exchange and energy interaction between heterogeneous devices, including the ...

The seaport integrated energy system also incorporates Combined Cooling, Heat, and Power (CCHP) systems, renewable energy power generation and energy storage equipment. With the objective of reducing the supplying cost of the seaport, the optimal dispatch problem of energy supply units and the mooring decision of vessels is established.

The Department of Energy's Office of Electricity created the Port Electrification Handbook to aid maritime ports in their clean energy transition. Open Decarbonizing port activities (e.g., vessels, port infrastructure, shore-side transportation) is necessary to achieve the International Maritime Organization's (IMO) goal of carbon neutrality ...

This paper aims to design a hybrid system of seaport microgrid with optimally sized component. The selected case study is the Port of Aalborg, Denmark. The proposed grid-connected structure consists of renewable energy sources (photovoltaic system and wind turbines), an energy storage system and cold ironing as seaport loads.

the energy consumption of the oil-fueled apparatus in seaport energy systems is harmful to the environment via greenhouse gas emissions, the integration of a variety of clean energy sources into

Besides the integrated thermal network for cold-chain supply, the future seaport can be viewed as a transportation integrated energy system, and the coordination between the shipside and portside ...

The carbon exhaust of a seaport is restrained by integrated carbon capture/storage devices. A fully distributed

energy management strategy with dynamic-weighted coefficients is proposed to acquire ...

The joint venture introduced their 100-hectare oil refinery plant in Laos and urged Quang Tri province to assist it in determining a suitable location for fuel storage. Besides, Dong asked the Southeastern Quang Tri Economic Zone and adjacent seaport areas to help investors with the survey.

Savannakhet Port (port code: LASAV / LASA3) is Lao's first dry port. It is strategically positioned along the Greater Mekong Subregion East-West Economic Corridor, at the mid-point between the nearest Vietnamese seaport of Danang, and Thai ports in Bangkok and Laem Chabang.

Explores seaport integrated energy systems targeting on port electrification and low-carbon operation; Establishes framework for optimal planning, and applications of integrated energy ...

To decrease fuel-based energy consumption, it is important to investigate the optimal energy management problem for the seaport integrated energy system in a fully distributed manner. A multi-objective energy ...

In this strategic geographical location, the country's first Dry Port/Inland Container Depot is now connecting Laos to the world by linking with the East-West Economic Corridor (EWEC) between Myanmar, Thailand and Vietnam, mid-way between the nearest Vietnamese seaport of Danang and Thai ports in Bangkok and Laem Chabang.

This strategy aims to develop new renewable energy resources which are not yet widely explored in Lao PDR to replace resources that will be exhausted in the future, also known as "non-renewable energy" (fossil fuels, coal, natural gas etc). These renewable energy resources comprise biomass energy (biofuels, biogas, ...); solar energy; wind; small hydropower.

Lao PDR's total primary energy supply (TPES) increased from 1.62 Mtoe in 2000 to 6.3 Mtoe in 2019, an AAGR of 7.4%. This growth is expected to decrease steadily at a rate of 0.1% per ...

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