

2021-2025 and the energy and renewable energy plans reveals a nearly singular focus on electricity (Government of Lao PDR, 2011; MEM, 2021). Other energy sources have received limited attention in energy planning, despite biomass, oil, gas, and petroleum derivatives making up the majority of total

Notably, wind and solar are virtually absent in the Laotian electricity mix. By facilitating effective e-mobility and renewable energy integration, Laos can unlock the potential resource from wind and solar and further diversify its electricity mix, thereby increasing the resilience of its low-carbon transition.

Given the rising domestic energy demands and the urgent need to combat climate change, Laos must shift toward a more sustainable energy framework. Recent research highlights the critical importance of establishing a comprehensive policy framework that incorporates diverse renewable energy sources with the goal of enhancing sustainability and ...

Together with the Government of Laos, EDF signed a memorandum of understanding to undertake the feasibility studies for a Pumped Storage Hydropower project located nearby Nam Theun 2, with an installed capacity up to 2,000 MW and 30 GWh of storage, which would rank it among the top 10 largest pumped hydro energy storage systems in the world!

The move has allowed countries like Laos to increase its renewable power generation capacity. According to reports, Singapore, whose primary source of energy is natural gas (95 percent), is trying to make a shift towards importing 30 percent of its energy supply from 4 gigawatts of low-carbon electricity by 2035.

Large-scale storage technologies for energy time-shifting, including grid-scale batteries [5], concentrated solar power [12] and power-to-gas (e.g. hydrogen [15] and synthetic ...

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affordability of energy supply are the most fundamental requirements for Lao PDR with respect to the energy security and sustainable development. Lao PDR's high potential renewable energy resources, such as hydro, solar, wind, and biomass, could be utilised at optimum levels to accelerate the share of renewables in the energy mix. These renewable

1. What is the impact of energy transition policies on social equity in Lao PDR? 2. What are the key barriers and facilitators for promoting social equity in energy projects and policies, and how can these be addressed? 3. What frameworks and methodologies are most effective for incorporating local knowledge

Laos' 2011 Renewable Energy Development Strategy aims to achieve a renewable energy share of 30% in total energy consumption by 2025. The policy encourages investment in renewables and small power development for self-sufficiency and grid connection.

Large-scale storage technologies for energy time-shifting, including grid-scale batteries [5], concentrated solar power [12] and power-to-gas (e.g. hydrogen [15] and synthetic natural gas [5]). Short-term, diurnal energy storage is often required in the regions with low seasonal variations in renewable energy resources e.g. the Sunbelt, while ...

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