

Average hybrid renewable storage price per 150MW in Vietnam

Why are hydropower production costs lower in Vietnam?

The reasons for the lower production costs of hydropower in Vietnam are the natural advantages of the country in hydro, combined with the 'implicit subsidy' to hydro in that the cost of environmental impacts, such as land loss for plant reservoirs, changing river environmental conditions, and ecology, have not been taken into account.

Why are solar technologies becoming more affordable in Vietnam?

Solar technologies also are increasingly providing low-cost energy due to scale economies, technological advances, and other cost reductions (IRENA & ASEAN, 2016; IRENA, 2016a, IRENA, 2016b, IRENA, 2016c; REN21, 2018a, 2018b). Given the decline in the cost of renewables worldwide, it is expected that similar trends would be taking place in Vietnam.

Why is Hydro a major energy source in Vietnam?

Hydro is thus a major energy source and plays an important role in the structure of electricity production in Vietnam. Hydro has a low-cost advantage, with low operational costs, low emissions, and the ability to respond quickly to changes in electricity demand (Nguyen-Tien et al., 2018).

How much hydro power does Vietnam have?

According to the Government's hydro master plan (2011), the total estimated capacity of the rivers in Vietnam is approximately 300 billion kWh and installed capacity 31,000 MW. As of 2011, hydro projects in Vietnam, with a capacity of just 8075 MW, represented only 26 percent of the country's hydro potential (EVN & Phugiasec 2011).

How much does a hydro power plant cost?

Due to low O&M costs, the cost of electricity generation from hydro is low in comparison to other sources such as coal, oil, or gas, as well as non-hydro renewables. The investment cost for a hydro plant ranges from \$1 to 1.6 million, which is higher than the cost of a thermal power plant.

Is Vietnam a good country for hydropower?

According to the Renewable Global Status Report of REN21 (2018b), Vietnam is one of the countries that had substantial additions to hydropower capacity created in recent years; in fact, Vietnam ranks fifth in new hydro installations.



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