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Honduras grid-connected wind power generation system



Overview

In Honduras, there is an important potential of untapped indigenous resources. Due to the variability of high oil prices and declining renewable infrastructure costs, such resources could be developed at competitive prices. Currently hydropower, solar and biomass are used on a large scale for electricity.

What is the potential for wind energy in Honduras?

Solar photovoltaic (PV) energy followed at 18.9%, with wind power at 12.9%, and geothermal energy at 5.8%. Due to the diversity of the Honduran landscape, the potential for wind development varies considerably.

Does Honduras have a power grid?

Honduras's power grid is extensively developed in all departments except the easternmost department, Gracias a Dios. Honduras has granted distribution concessions to 7 utilities nationwide, with the state-owned Empresa Nacional de Energía Eléctrica (ENEE) managing nearly 99% of the electricity grid. lowest electricity access rates.

How many hydro power plants are there in Honduras?

There has been an intensive use of small- and medium-scale hydro energy, with 14 out of 16 existing hydro plants with capacity below 30 MW. Two large plants (El Cajón Dam (Honduras) and Rio Lindo) account, however, for more than 70% of the total capacity. In Honduras, there is a large potential for electricity generation based on hydropower.

How did Honduras respond to the energy crisis?

In 1994, Honduras faced a severe energy crisis, which the government responded to by passing the Framework Law of the Electricity Subsector, permitting the private sector to participate in electricity generation. In 2013, Decree 138 was passed to promote investment in solar PV plants by providing preferential pricing.

What challenges does Honduras face in extending the grid?

Complex terrain: Honduras's geography, including mountainous regions and isolated communities like those in the Mosquitia, poses significant challenges for extending the grid. Transportation of materials is costly and logistically difficult, with some areas only accessible by boat or air.

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