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Paraguay generates 100% of its electricity from renewable sources, with the vast majority coming from the Itaipu, Yacyretá, and Acaray hydroelectric projects. Since turning to hydropower, Paraguay no longer relies on oil and diesel imports for electrical generation.

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In a world where clean and renewable energy is key to a sustainable future, Penguin Solar emerges within Penguin Group as a visionary project aimed at spearheading the transformation of Paraguay's electric energy matrix.

Paraguay is blessed with ample low-cost hydropower that is able to meet nearly all its current electricity needs. The current demand is dominated by building loads, that peak during times

The main source of energy produced in Paraguay is thus the least used in the country. Paraguay has ratified the Paris Agreement in 2016, the 2017 National Climate Change Law, and the Nationally Determined Contribution, updated under the Paris Agreement and presented in July 2021.

production divided by total primary energy supply. Energy trade includes all commodities in Chapter 27 of the Harmonised System (HS). Capacity utilisation is calculated as annual generation divided by year-end capacity x 8,760h/year. Avoided emissions from renewable power is calculated as renewable generation divided by fossil

While scarcely existent today, Paraguay hopes to develop more solar and wind power projects in the future. The country also has a sizable biofuels industry that produces about 7% of its road transport energy needs in the form of ethanol and biodiesel.

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