

## Nicaragua off-grid energy storage

13.0000° N, 85.0000° W

**Total Area (km<sup>2</sup>):** It includes a country's total area, including areas under inland bodies of water and some coastal waterways.

**Population:** It is based on the de facto definition of population, which counts all residents regardless of legal status or citizenship--except for refugees not permanently settled in the country of asylum, who are generally considered part of the population of their country of origin.

**Rural Population (% of total population):** It refers to people living in rural areas as defined by national statistical offices. It is calculated as the difference between total population and urban population.

**GDP (current US\$):** It is the sum of gross value added by all resident producers in the economy plus any product taxes and minus any subsidies not included in the value of the products. It is calculated without making deductions for depreciation of fabricated assets or for depletion and degradation of natural resources.

**GDP Per Capita (current US\$):** It is gross domestic product divided by midyear population

**Access to Electricity (% of population):** It is the percentage of population with access to electricity.

**Energy Imports Net (% of energy use):** It is estimated as energy use less production, both measured in oil equivalents. A negative value indicates that the country is a net exporter. Energy use refers to use of primary energy before transformation to other end-use fuels, which is equal to indigenous production plus imports and stock changes, minus exports and fuels supplied to ships and aircraft engaged in international transport.

**Fossil Fuel Energy Consumption (% of total):** It comprises coal, oil, petroleum, and natural gas products.

Nicaragua has one of the lowest electrification rates in Central America, approximately 65%<sup>1</sup> of the population compared to 99.2% coverage in Costa Rica<sup>2</sup>. About 68% of the rural population still lacks access to electricity<sup>3</sup>. In absolute terms, it is estimated that a total of about 340,000 dwellings (1.8 million people) in both urban and rural areas lack electricity service<sup>4</sup>.

Residential energy consumption is around 47.6% of the total energy consumption<sup>5</sup>, of which 94.4% are provided by fuel wood.

Gross electricity generation of the SIN (national interconnected grid) and isolated power stations registered in 2010 was around 3,450 GWh. These are produced by the following types of power plants<sup>6</sup>:



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