

Why do we need Brazil's energy data?

By providing the first publicly available, spatially explicit, harmonized, and English version of Brazil's energy data, we enable researchers to replicate the Brazilian energy system and/or to improve the integration into global energy models starting from a common basis.

What datasets should be used to model the Brazilian energy system?

An important dataset for modelling the Brazilian energy system is published in the context of Brazil's National Ten-Year Expansion Plan<sup>6</sup>. It contains the input data for the corresponding investment model<sup>7</sup>. However, modellers, who would like to use this dataset, must have Portuguese language skills and modelling experience.

Where do the national data from the Brazilian energy review come from?

The national data from the Brazilian Energy Review come, for the most part, from the compilations that the Energy Research Company - EPE carries out to construct the Brazilian Energy Balance. Various sector agents participate in these works, such as ANP, ANEEL, ANM, ONS, CCEE, Petrobras and Eletrobras.

What is the purpose of the Brazilian Energy Board (Beb)?

The purpose of the BEB is to present the accounting for the supply and consumption of energy in Brazil, covering the activities of extraction of primary energy resources, their conversion into secondary forms, import and export, distribution and end use of energy.

What is Brazil's energy mix?

Brazil's energy mix is diverse; hydropower, fossil fuels, biofuels, wind energy, and solar power all make significant contributions (Table 1). Brazil's total energy production increased by an average annual growth rate of 1.5% from 2011 to 2021.

Which sectors use the most energy in Brazil?

In Brazil, the industrial and transportation sectors use most of the energy. Crude oil and other petroleum liquids production contributes significantly to Brazil's total energy production, accounting for 54.0% of total energy production and 44.2% of total energy consumption in 2021 (Table 1).

The Brazilian Energy Review is an annual publication of the Ministry of Mines and Energy. It presents an overview of the Brazilian energy sector in the previous year, with the aim of reviewing and documenting the evolution of energy supply and demand, infrastructure and several complementary data.

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Strong growth in renewable electricity and bioenergy leads the decarbonization of Brazil's energy system. Wind and hydropower become the major sources of energy in all scenarios by 2050 . 1. Primary energy consumption grows to 2050 in New Momentum but remains broadly stable at around late 2020's levels in Net Zero 2.

Energy cost estimates are highly dependent on these assumptions so published cost figures can differ substantially. The presence of wind energy, even when subsidized, can reduce costs for consumers (EUR5 billion/yr in Germany) by reducing the marginal price, by minimizing the use of expensive peaking power plants. [93]

publishes the Brazilian Energy Balance (BEB) annually, maintaining a tradition initiated by the Ministry of Mines and Energy (MME). The purpose of the BEB is to present the accounting for the supply and consumption of energy in Brazil, covering the activities of extraction of

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The current energy distribution system in Brazil was planned and developed during the middle of the 1990's, and only updated during 2004. Similarly to the sector of telecommunications, the national energy system underwent a restructuring process during the end of the 20th century with the goals of establishing a regulated yet efficient ...

In 2020, the MME, EPE and Brazil's National Grid Operator (ONS) published a pilot study on new mechanisms to integrate an increasing amount of intermittent renewable energy into the energy system. Modelled based on security of supply of the Brazilian energy system, the study demonstrates measures to

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