

Brazil systems off grid

Does Brazil have a power grid?

Brazil's small northern and larger southern electrical grids were joined in January 1999 into one grid that serves 98% of the country. Brazil's domestic supply is augmented by imports from neighboring Argentina. Renewable energy likely will continue to play an important role in Brazil's electrification plans.

Are renewables cost effective in Brazilian isolated systems?

Diesel is the main source for electricity generation in Brazilian isolated systems. Many studies suggest that renewables are already cost effective in these systems. Six public policies are proposed to promote renewables in isolated systems. An MCDM model (AHP-fuzzy-TOPSIS) is developed to evaluate the policies.

How does Brazil's energy system affect the environment?

As discussed, the majority of isolated systems in Brazil are located inside the Amazon forest and the electricity generation on these places is mostly based on burning fossil fuel, leading not only to greenhouse gas emissions and pollution in a sensitive area, but also to expensive costs.

Assuming those projections materialize, solutions pile on in the interim for delivering low-cost electricity to off-the-grid households. Now, with this potential for power, there is opportunity to create things to plug in, and to make those things more useful.

We analyze the model for rural electrification in Brazil. The uniqueness of the Amazon justifies the use of renewable, off-grid technologies. Rural electrification in the Amazon needs to be focused on local needs and potential. Off-grid solutions imply adapted institutions and rethinking of funding channels.

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This paper presents suggestions of public policies to stimulate the use of environmentally friendly energy sources at off-grid places in Brazil and discusses the probable reasons why this transition has not been driven yet, including barriers related to subsidies, energy tariffs and tax rules.

The interest in off-grid systems is justified by the need to employ feasible solutions to supply remote or isolated rural communities in Brazil, especially in the Amazon region and islands,...

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