



# Urban energy system Bahamas

How will the Bahamas reform its energy sector?

The Government of the Bahamas has discussed plans to reform its energy sector through a partial-privatization of BEC and by introducing regulation-by-contract principles to meet the capacity for future growth, implementing more economically viable renewable energy sources, and modernizing the energy sector.

Will the Bahamas have a solar water heating system?

In the next decade, the Bahamas aims to have solar water heating systems on 20% to 30% of all households, which has the potential of adding 200 GWh of heat for water per year. According to preliminary assessments, wind and solar resources offer the greatest potential for renewable energy development in the Bahamas.

What is the energy efficiency initiative in the Bahamas?

With energy-related costs estimated at 15% to 20% of annual operating budgets for small- and medium-sized hotels in the Bahamas, the Bahamian hotel industry launched a significant energy efficiency initiative in 2013 in partnership with the Government of the Bahamas to reduce energy-related costs.

How much power does the Bahamas have?

The Bahamas Electricity Corporation (BEC) controls 438 megawatts (MW) of generation capacity, while Grand Bahama Power Corporation (GBPC) controls the remaining 98 MW. Generation is currently fueled by all imported petroleum with a mix of diesel (56.5%) and heavy fuel oil (43.5%), totaling 1,930 gigawatt-hours (GWh) for the entire country.

Does the Bahamas rely on fossil fuels?

Like many island nations, the Bahamas is almost 100% reliant on imported fossil fuels, leaving it vulnerable to global price fluctuations that directly impact the cost of electricity.

The 2021 Energy Report Card for The Bahamas provides an overview of energy sector performance and includes energy efficiency, projects, technical assistance, workforce, training and capacity building information, subject to the availability of data.

Cities, like the entire global economy, now run largely on fossil fuels. Consuming about 78% of the world's energy, they account for more than 60% of global greenhouse gas emissions, according to the United Nations. Urban transport ...

This document presents The Bahamas' Energy Report Card (ERC) for 2021. The ERC provides an overview of the energy sector performance in The Bahamas. The ERC also includes energy efficiency, technical assistance, workforce, training and capacity building information, subject to the availability of data.



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The Government of The Bahamas aims to achieve a significant renewable energy penetration by 2030 in order to replace expensive generation from fossil fuels and reduce dependency on fuel imports. According to the National Energy Plan, the target is to achieve 30% of electricity generation from renewable sources of the total generation portfolio.

**Energy Snapshot Bahamas** This profile provides a snapshot of the energy landscape of the Commonwealth of the Bahamas--a country consisting of more than 700 islands, cays, and islets-- of which only 28 are populated. Located north of Cuba, with the Turks and Caicos Islands to the southeast, the Bahamas has an average electricity cost of \$0.32 per

The National Energy Policy and Electricity Sector Policy prioritize the creation of sustainable energy opportunities and improving energy security in The Bahamas. URCA believes that advancing this objective is crucial to the government's climate change strategy.

developing areas. Energy self-sufficiency has been defined as total primary energy 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

Climate change and increased urban population are two major concerns for society. Moving towards more sustainable energy solutions in the urban context by integrating renewable energy technologies ...

The world's increasing level of urbanization and the continuing restructuring of industry have resulted in great reliance on energy in cities. Different from the traditional energy system, ...

Development of the four solar-fueled power systems will set the stage to scale the Family Islands solar program across the island chain's outlying islands, as well as contribute to the Bahamas ...

The Bahamas is embracing innovative technology to redefine its energy landscape, prioritizing sustainable and resilient solutions across its islands. The shift towards clean energy not only supports environmental goals but also enhances the stability and reliability of power supplies, especially in remote and vulnerable areas.

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As a dedicated leader, Minister Coleby-Davis is committed to advancing sustainable energy policies and modernizing transportation infrastructure across the Bahamas. Explore her initiatives focused on renewable energy, regulatory oversight, and environmental stewardship, all aimed at fostering a greener, more connected future for the nation.

**GOAL:** to promote an understanding, on a global scale, of the dynamics of change in energy systems, quantify



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emissions and their impacts, and accelerate the transition to carbon-neutral, environmentally benign energy systems while providing affordable energy to all.

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