

## European Solar and Energy Storage Solutions

# Dominican Republic industrial energy systems



## Overview

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How can the Dominican Republic integrate solar and wind resources?

The short-term variability and geographic diversity of the wind resource will need to be studied before implementation of projects. The Dominican Republic has created a framework for integrating solar and wind resources in its grid that can drive renewable energy adoption for years to come.

Does the Dominican Republic have electricity?

Like many island nations, the Dominican Republic is highly dependent on imported fossil fuels, leaving it vulnerable to global oil price fluctuations that directly impact the cost of electricity. Before 1997, the electricity market in the Dominican Republic was regulated and state-owned.

How does the Dominican Electricity Company work?

The Dominican Transmission Electricity Company operates interconnected transmission and runs high-voltage electric transmission projects, while state-owned distribution companies serve three regions of the country.

What happened to the electricity market in the Dominican Republic?

Before 1997, the electricity market in the Dominican Republic was regulated and state-owned. In 1997, the markets were reformed to allow private companies to participate in the generation and distribution of electricity.

How much does energy cost in the Dominican Republic?

This profile provides a snapshot of the energy landscape of the Dominican Republic, a Caribbean nation that shares the island of Hispaniola with Haiti to the west. In 2014, the Dominican Republic's utility rates were approximately \$0.19 per kilowatt-hour (kWh),<sup>1</sup> below the regional average of \$0.33/kWh.

Is solar energy a viable resource for the Dominican Republic?

High solar potential, along with integrating efficiencies and economies of scale, can make solar energy a viable resource for the Dominican Republic. Similarly, wind energy has strong potential, particularly in the southwest.

## Dominican Republic industrial energy systems

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### General Law Of Electricity

The Law 14-90 was revoked in 1992 with the enactment of Law 11-92 which created the Tax Code. During that same year of 1992, the restructuring process of the CDE was initiated, when the Dominican Government promoted consultations with international organizations to design a reform and restructuring project of the Dominican electric system.

### LAC DOMINICAN REPUBLIC

the Dominican Republic, a regulatory roadmap for energy storage is currently being developed. To further promote energy efficiency, Energy Efficiency Decree 158-23 on Energy Savings and Efficiency was issued for all public institutions. A Bill on Energy Savings and Efficiency has been submitted to the Congress of the Republic.



- LIQUID/AIR COOLING
- PROTECTION IP54/IP55
- PCS EMS
- BATTERY /6000 CYCLES

### Decarbonising the power sector of the Dominican Republic: An ...

The total cost imposed upon the industrial, residential, commercial and public services sectors by the 30,625,556 MWh entitled, 'Modelling of the Dominican Republic energy systems with OSeMOSYS to assess alternative scenarios for the expansion of renewable energy sources' [45] and one published by the Inter-American Development Bank,

## Dominican Republic Construction Industry Report 2024-2025

The "Dominican Republic Construction Market Size, Trends, and Forecasts by Sector - Commercial, Industrial, Infrastructure, Energy and Utilities, Institutional and Residential Market Analysis to 2028 (H2 2024)" report has been added to ResearchAndMarkets 's offering.. Following annual growth of 2.1% in real terms in 2023, Dominican Republic's ...



### Construction starts on 99MWh battery unit in Dominican Republic

Construction has started on the first major solar-plus-storage project in the Dominican Republic, which features a 24.8MW/99MWh battery energy storage system (BESS). The Comisión Nacional De Energia (CNE) of the Dominican Republic announced the start of work on the Dominicana Azul solar project shortly in late December (22 December).

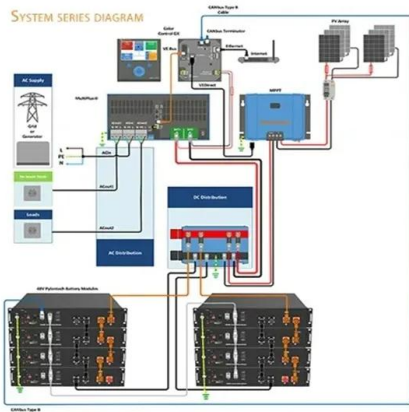
### Dominican Republic: Energy efficiency in the ...

The country seeks to meet this NDC by increasing energy efficiency, increasing the participation of non-conventional renewable energies, and by aligning with the Ministry of Energy and Mines' (MEM) goal of a 13.2% energy consumption ...



### Assessment of the Dominican Republic's Commercial and ...

industrial (C& I) energy efficiency market in the



Dominican Republic, including the market's current status. During NREL's engagement with its Dominican counterparts, NREL noted market gaps that were identified by both public and private sector market actors. The intent of ...

## ENERGY PROFILE Dominican Republic

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



## Energy Snapshot Dominican Republic

The Dominican Republic has a total installed capacity of 3,635 MW with peak demand of 1,800 MW.<sup>8</sup> Renewable energy generation in the Dominican Republic makes up 14% of total electricity (nearly all of which is provided by hydro-electric facilities), while the remaining 85% of electricity is generated from imported fossil fuels.<sup>8</sup> Despite recent

## Techno-economic dataset and assumptions for long-term energy systems

This document presents the data used to make an energy model of the Dominican Republic that

includes the national electricity and land transport systems in the OSEMOSSYS tool (Open-Source Energy Modelling System). This work aims to support the energy transition towards sustainable development through long-term planning.



## Business Case for Commercial and Industrial Scale Energy ...

Dominican Republic earned a raw average score of only 26 out of 100 for its energy efficiency enabling environment. 11 This ranks it at 92 nd out of 136 countries across the globe, and as can be seen in Figure 2 above, 6 th worst out of 19 countries ...

## Dominican Republic

The Dominican Republic passed legislation on renewable energy in 2007 as part of its endeavors to achieve these targets. the administration has said it plans to restore the level of fiscal credit for investments in renewable energy systems to 75% as established in renewable energy incentives law 57-07 since a modification during the



## The future of the electricity sector in the Dominican Republic

The future of the electricity sector in the Dominican Republic The electricity generation matrix in the Dominican Republic has evolved since the 1990s, when the state-owned electricity system ...



## ENERGY PROFILE Dominican Republic

Renewable energy supply in 2021 Dominican Republic 58% 15% 16% 11% Oil Gas Nuclear Coal + others Renewables 11% 9% 9% 72% Hydro/marine Wind Elec. & heat Industrial Combustion Transport Processes Buildings Fuel Exploitation Agriculture Waste 52% 24% commodities in Chapter 27 of the Harmonised System (HS). Capacity utilisation is



## DOMINICAN REPUBLIC Stimulating industrial ...

The energy sector in the Dominican Republic relies heavily on fossil fuels and is characterized by high energy costs for industrial end-users. Rising oil prices and increased energy demand have led to steady price increases, which are rendering ...

## The future of the electricity sector in the Dominican Republic

The future of the electricity sector in the Dominican Republic The electricity generation matrix in the Dominican Republic has evolved

since the 1990s, when the state-owned electricity system was partially privatised. However, it remains predominantly hydrocarbons ...

**APPLICATION SCENARIOS**



**Dominican Republic: Energy efficiency in the commercial and industrial ...**

The country seeks to meet this NDC by increasing energy efficiency, increasing the participation of non-conventional renewable energies, and by aligning with the Ministry of Energy and Mines' (MEM) goal of a 13.2% energy consumption reduction by 2030, as stated in ...

**Energy Efficiency Strategy for the Dominican Republic**

The industrial sector in the Dominican Republic includes sugar mills, other food industry, tobacco processing, textiles and leather, chemicals and plastics, cement and ceramics, "zonas francas" (free economic zone production generally for export), and a number of small,



**Techno-economic dataset and assumptions for long-term energy systems**

Data." which contains the data and techno-economic assumptions for modelling long-term energy systems in the Dominican Republic 2024-2050 (see Table 1). Table 1. Dataset

content of the file in Excel "Modelling Dominican Republic. Demands for energy services are also defined as energy carriers; for example, the Industrial Demand for



## Energy profile: Dominican Republic

As of 2020, 100% of the population of the Dominican Republic has access to electricity. As of 2016, Dominicans use just over 1,724 kWh per capita. Coal in the Dominican Republic. No coal is produced in the Dominican Republic. The country consumes over a ...



## ETI Energy Snapshot

Dominican Republic U.S. Department of Energy Energy Snapshot Installed Capacity 4.87 GW RE Installed Capacity Share 24.3% Installed Energy Storage 20 MW Peak Demand (2019) Industrial: \$0.16 Government: \$0.17 Electricity Sector Overview Renewable Energy Status Targets Renewable Energy Generation 365 MW n 626 MW yroper 163 MW Soar

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