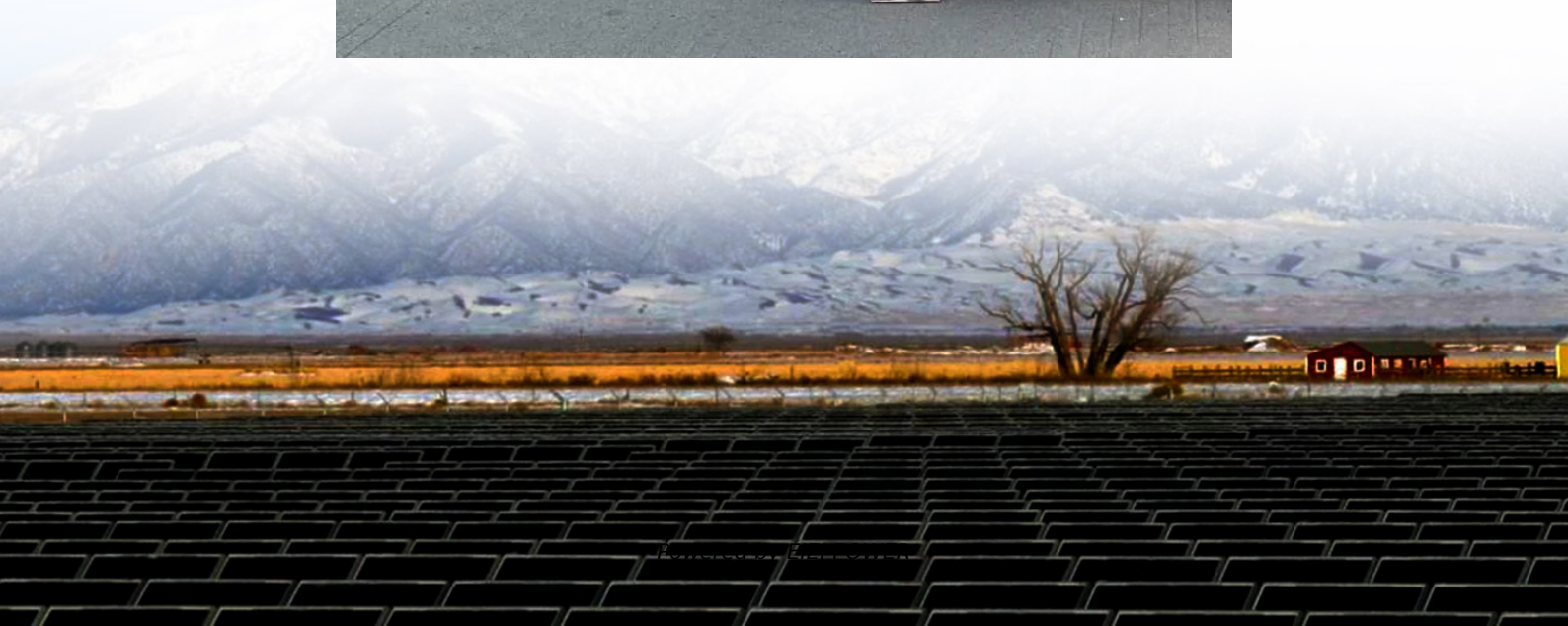


Dominican high temperature solar energy system design





Overview

This article intends to contribute to a better understanding of the alternatives scenarios for the expansion of the renewable energy sources in the energy mix of the Dominican Republic (DR). The insight gained.

Why did the Dominican Republic build a photovoltaic plant?

The energy deficit and dependence on fossil fuels drove the Dominican Republic to step up its commitment to clean energy. DOMINION took on the task of building the photovoltaic plant in this Caribbean country, with an offer that included everything from the design and construction of the plant to its operation and subsequent maintenance.

Does the Dominican Republic need a solar PV plant in Santo Domingo Este?

A central aim of the Renewable Energy Promotion Law of 2007 in the Dominican Republic has been to lessen the country's carbon footprint. Towards this goal is the construction of a 11.44 MWp solar PV plant in Santo Domingo Este.

Why did the Dominican Republic start a solar park in 2022?

On 2022, DOMINION completed the commissioning of El Soco photovoltaic solar park in the municipality of Consuelo, Dominican Republic. The energy deficit and dependence on fossil fuels drove the Dominican Republic to step up its commitment to clean energy.

What percentage of solar energy is generated in the Dominican Republic?

Photovoltaic electric energy in the Dominican based technologies (fuel oil, natural gas and coal) represents 77.7 %. The technology that which generates large amounts of GHG. Fig. 1. Share of the five continents in the global installed PV capacity at the end of 2018.



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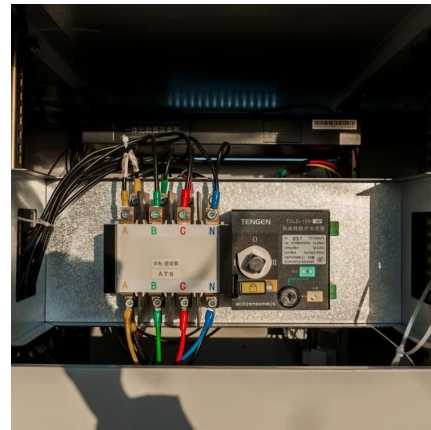


Dominican Republic

Oct 24, 2024 · January 9, 2025 EGEPC has launched a tender for a 40 MW solar plant to improve the efficiency of its Punta Catalina thermoelectric plant in the Dominican Republic. The project ...

[Solar Power Transforms Dominican Republic's ...](#)

Feb 22, 2025 · The Dominican Republic's solar energy transformation represents a pivotal shift in Caribbean power infrastructure, with installed ...



[Dominican Republic's Solar Boom: 140+ MW Added](#)

Jul 1, 2024 · The decreasing cost of solar technology and energy storage systems is making solar energy more competitive with traditional fossil fuels in the Dominican Republic. International ...

Sustainable Energy Expansion Through Decentralized Solar ...

The project aims to provide technical assistance to the MEM to enhance the integration of energy storage systems into renewable energy applications in rural electrifications, particularly



solar ...



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Design and feasibility of high temperature shell and tube ...

Oct 1, 2016 · A simple shell and tube heat exchanger provides a straightforward design for near-term integration of latent heat thermal energy storage (LHTES) systems in concentrated solar ...



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Engineering of Balance of Plant for High ...

Nov 8, 2025 · NREL uses an integrated suite of solar field, receiver, and thermal storage design tools (e.g. SolarPILOT, SolTrace, Aspen, ANSYS ...



Thermal energy storage technologies for concentrated solar power ...

Aug 1, 2020 · The thermochemical storage that operates at high temperature enables the development of the next storage media generation, high-efficiency solar energy conversion ...



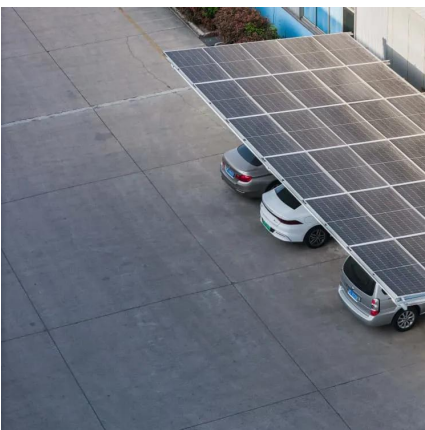
Dominican Republic's new solar projects add over 140 MW

Jun 28, 2024 · The national energy commission (CNE) of the Dominican Republic this week granted a definitive concession for a 83.4-MW/101.6-MWp solar project with storage, while the ...



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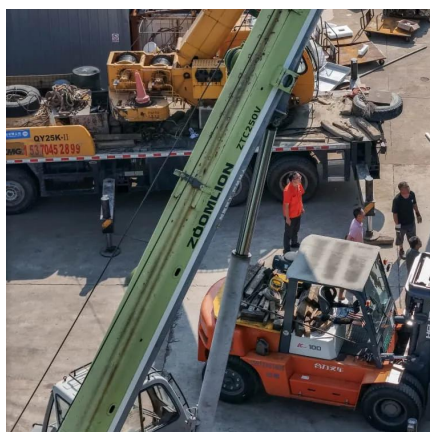
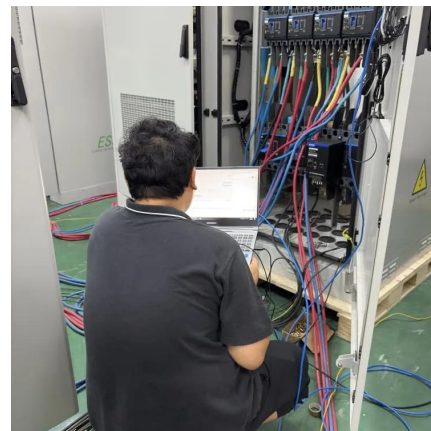


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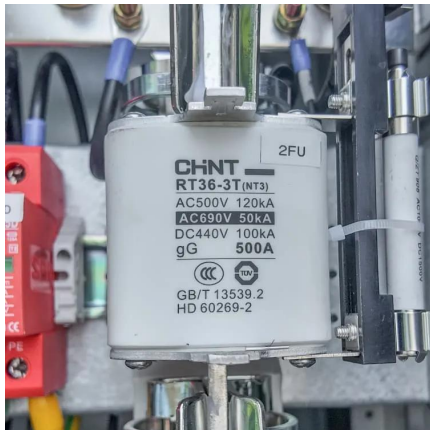
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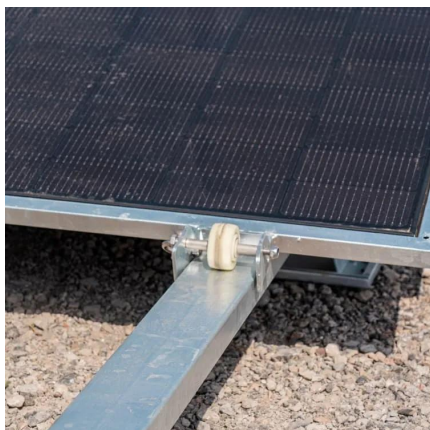


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[Dominican Republic's Transition to Renewable Energy: ...](#)

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