

Why is the Venezuelan energy crisis a paradox?

Such paradox is part of the Venezuelan energy crisis that causes severe consequences to Venezuelan society. In addition to the underutilization of renewable resources, at the beginning of the 21st century, Venezuela faced worse scenarios.

How has Venezuela impacted the energy sector?

Since 2013, Venezuela has been confronting a profound political, social, and economic crisis with a strong negative impact on the country's energy sector. The crisis has severely affected the production of oil, natural gas, fuels, and electricity (Monaldi et al., 2021).

What type of energy does Venezuela use?

Venezuela relies heavily on domestic production of fossil fuels, with oil and natural gas comprising approximately 90% of the country's total energy supply. Hydro power also plays a key role in electricity generation, accounting for roughly half of installed capacity.

What is the Venezuelan energy framework?

The Venezuelan energy framework Venezuela plays an important role in global energy markets. Along with the rest of Latin American countries, it has evidenced different stages on its energy evolution. The understanding of some relevant facts about this sector is needed to evaluate current conditions and challenges.

Are wind and solar projects competitive in Venezuela?

In general, experts warn that the existing Venezuelan regulatory framework makes wind and solar projects not competitive and this creates additional risks for the development of such energy potential. The severity of all such factors evidence the difficulties to develop a sustainable energy sector in Venezuela.

Does Venezuela have an energy crisis?

Some are successful in their attempt to optimize their energy resources while others are not. This is the case of Venezuela, which faces a contradictory energy performance. Despite its substantial available renewable and non-renewable energy resources, it presents a severe energy crisis.

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The Venezuela Energy Solutions for the Future competition presented a case study based on Venezuela, a

country with a variety of resources that makes it a perfect laboratory to design and evaluate a diversified energy matrix.

The authors present some proposals to make a better use of the Venezuelan energy potential and highlight the role of renewable energy, knowledge and sustainable criteria to guide Venezuela on its transition into a new energy stage in which the new performance will lead to an improvement of the Venezuelan quality of life and the competitiveness ...

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Venezuela's electricity sector has been facing a deep crisis. By 2020, the electricity production plummeted to 74.5 TWh, a drastic 43% reduction with respect to the peak of 132.5 TWh registered in 2013. The reasons behind the collapse of Venezuela's electricity sector are multifactorial and widely described in the literature.

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its principles diversifying the energy matrix and promoting renewable energy, and prioritizes the use of renewable energy in isolated systems. In 2013, Venezuela began the process to develop the Law for the Use of Alternative Energy. It also developed a draft Plan for the long-term development of renewable energy

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This research paper examines the root causes of the power crisis in Venezuela in the context of the steady collapse of the state in the country, to provide a series of recommendations concerning rebuilding versus replacing existing infrastructure and priorities in Venezuela's critical energy transition.

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