

## Venezuela electricity regulations

The electricity sector in Venezuela is heavily dependent on hydroelectricity, which accounted for 64% of the nation's electricity generation in 2021. Besides hydroelectric power, Venezuela also relies on natural gas and petroleum, contributing 25% and 11%, respectively, to the total electricity output that year.

In this paper, a review of existing views to recover Venezuela's electricity system is provided. Two public-available detailed plans: the Venezuelan Electricity Sector Recovery Plan (VESRP) and the National Assembly's Country Plan Electricity (CPE) are described and analyzed in detail.

Venezuela also relies on natural gas and petroleum for electricity generation, which contributed 25% and 11%, respectively, of the country's total electricity generation in 2021 (Figure 12). Venezuela relies on the state-owned Corporación Eléctrica Nacional (CORPOELEC) for its electricity.

**Electricity** The 2011 Development Plan for the National Electric System 2013-2019 (PDSEN) sets the development of renewable energy resources as a medium-term (2013-2019) and long-term (2014-2033) goal. It sets a target of 613 MW<sup>1</sup> of additional renewable electricity capacity by 2019, of which 500MW from wind power.

Climate change is one of the most important issues of our time due to the effects it has on multiple physical-natural variables such as extreme temperatures and atmospheric events, trophic chains and oceanic productivity, the availability of fresh water, among others, with the corresponding risks on infrastructure, food safety and people's health.

In this essay, a comparative analysis of the Venezuelan LOSE and the Colombian Law 1715 is presented, from the point of view of its bioethical content and its consequences for sustainable development in both countries.

Likewise, it is known that sustainable development encompasses at least three well-defined dimensions: ecological (environmental), economic and social. In this Bill, this concept is mentioned in the following articles:

Article 5. The users of the electrical service and the Public Powers of the State will ensure that all electrical service activities are carried out under principles of quality, reliability, efficiency, transparency, equity, solidarity, non-discrimination, citizen participation, environmental sustainability, and economic and financial viability. (...)

9. The principle of environmental sustainability requires that the planning, execution and development of electrical service activities be carried out avoiding irreparable damage to the environment and making rational and efficient use of resources, in order to preserve them as much as possible for the future

generations.&#8221;

&#8220;Article 12. The State will ensure the autonomy of the functions of policy, regulation, supervision and provision of electricity services, and will implement the necessary mechanisms to achieve it administratively and financially, without prejudice to the necessary coordination between the bodies in charge of each one. of these functions, in order to universalize a quality, reliable, safe and sustainable electrical service."

"Article 14. The short and long-term planning of the expansion of the National Electric System will be carried out in such a way that the projects that are foreseen are economically and technically viable and environmentally sustainable; that the demand be satisfied under principles of economic efficiency (&#8230;) and that the plans to cover the national and regional electricity demand can be adapted to the changing needs that emanate from the economic, financial, technical and environmental conditions of the country."

The principle of Autonomy can also be associated with what is established in Article 43, in that electric power generation activities are open to the free participation of multiple actors, such as natural or legal persons who can decide to carry out projects of self-generation or cogeneration to satisfy their energy requirements, subject to the regulations and norms dictated by the Law.

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