



BUHLE POWER

Solar and wind power generation systems in Uruguay





Overview

Why is Uruguay a 'relative energy sovereignty'?

Once reliant on exorbitantly priced fossil fuel imports for nearly half of its energy needs, Uruguay has gone from suffering frequent blackouts and power cuts to relative energy sovereignty based almost entirely on electricity generated from a stable mix of wind, solar, hydroelectric, and bioenergy sources.

How many homes can a wind farm power in Uruguay?

In 2011 and 2012, the two leftists watched as onshore wind farm proposals finally poured in at competitive prices. This time around, the tenders resulted in the potential to power nearly 1.2 million homes solely with wind power—nearly every residence in Uruguay.

What percentage of energy is generated in Uruguay?

Hydroelectric accounted for nearly 56 percent of generation, wind 34 percent, bioenergy 6 percent, solar just under 3 percent, with fossil fuel coming in last at 2 percent. Wind energy came in second only to hydropower, accounting for nearly 34 percent of the energy generated in Uruguay that year.

How does Uruguay get its electricity?

To this day, Uruguay continues to rely heavily on its dams, including the imposing Salto Grande on the Río Uruguay, whose power is shared with Argentina, and several on the Río Negro. For decades, electricity from those dams and from generators running on gas and oil imported largely from Argentina and Brazil met Uruguayans' energy needs.



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[Uruguay expands solar energy as electricity ...](#)

Oct 1, 2025 · A 2019 report by the International Renewable Energy Agency described Uruguay's geographical and temporal characteristics as making ...

[Going for Green: Uruguay's Renewable Energy Revolution](#)

Mar 13, 2025 · These first calls were largely unsuccessful; major multinational wind and solar power firms, busy with lucrative projects in wealthier nations, showed little interest in Uruguay.



[Wind Power in Uruguay: A Country that Achieved 100% Renewable Power](#)

Jul 1, 2025 · Other relevant renewable power sources include hydro, bioenergy and solar. José Cataldo, a professor with focus on wind power at the Universidad de la República de Uruguay, ...

[Uruguay renewable energy system](#)

Aug 31, 2025 · Uruguay is the country with the second highest share of renewable energy electricity production (such as solar and wind) globally REN21 (2022), and leader together with ...



[Uruguay expands solar energy as electricity demand increases](#)

Oct 1, 2025 · A 2019 report by the International Renewable Energy Agency described Uruguay's geographical and temporal characteristics as making solar and wind highly complementary: ...



Renewable Energies

Executive summary The first stage of the energy transition positioned Uruguay at the forefront of renewable energies, placing it as the seventh country in the world with the highest share of ...

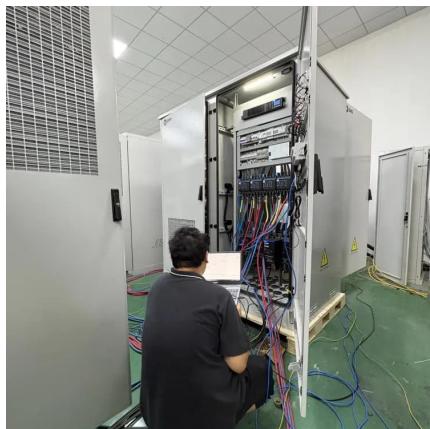


Wind power growth has been especially strong in recent years, with wind-generated electricity surpassing hydro in 2020 for the first time in Uruguay's history. In 2021, Uruguay generated ...



ENERGY PROFILE Uruguay

Indicators of renewable resource potential Solar PV: Solar resource potential has been divided into seven classes, each representing a range of annual PV output per unit of capacity ...



Solar and energy storage Uruguay

His vision for Uruguay's energy future was to cover that empty land with hundreds of wind turbines. Today, wind power accounts for around 40% of Uruguay's energy production. ...



Uruguay will expand wind and solar parks in response to ...

Mar 8, 2025 · A report from the Ministry of Industry, Energy, and Mining (MIEM) reveals that Uruguay will need to expand its capacity for renewable energy generation to meet the growing ...



Uruguay Power Generation and Environmental Technologies

Aug 28, 2024 · Uruguay has made significant strides in power generation and environmental technology, establishing itself as a leader in renewable energy within Latin America. The ...



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