

Smart Energy Interconnection in Uruguay



Overview

Uruguay is a frontrunner in renewable energy integration in Latin America, with developing potential in the areas of battery storage and smart grid technologies. Avoiding nuclear power entirely, Uruguay first embraced wind turbines as a source of cheap, reliable power; providing 40% of the country's capacity in less than a decade. It then expanded its solar and biomass capacity to an almost fully decarbonized mix of energy sources, joining a very short list. By the end of 2025, Uruguay has established itself as one of the most consistent examples of energy transition in Latin America and as a benchmark destination for investment in renewable energy and related technologies. When Méndez Galain began thinking. A collaborative report from the Clean Energy Ministerial (CEM), Lessons Learned for Rapid Decarbonization of Power Sectors, was delivered to energy ministers and presented at the 13th CEM (CEM13) in the United States in September 2022. In Montevideo's bustling port, trucks are beginning to run on cleaner.



Article Content

Energy Transition in Uruguay: The Most Promising Case in ...

This chapter examines the factors driving Uruguay's recent adoption of renewable energy sources and explores the balance between public and private ownership within its energy landscape.

RENEWABLE ENERGY IN

Structural transformation of the electric sector Domestic oil and gas exploration
Strong enhancement of energy efficiency Energy access (defined as a “human right” in Uruguay)

World Energy Council Uruguay: 11th LATAM Renewables Congress | Smart ...

Hosted by the Uruguayan Member Committee of the World Energy Council and the Uruguayan Association of Renewable Energies (AUDER), which has been promoting the production

Uruguay consolidates its leadership in renewable

Supported by this installed capacity and its interconnections with Argentina and Brazil, Uruguay has moved from being a net energy importer to a

LAC URUGUAY

URUGUAY Uruguay has successfully gone through its first energy transition, thus achieving a power matrix in which participation of energy coming from renewable sources exceeds 90%. Current energy

Uruguay's Action Plan and Experience for Power Sector Decarbonization

As a result of the transformation of the electricity generation sector and the regional interconnection infrastructure with Brazil (complementing the historic interconnection with Argentina through the

Uruguay's Unique Energy Situation in 2025

Uruguay's energy market in 2025 stands out for its flexibility and smart trading. Official data show Uruguay exports electricity to Argentina while importing cheaper energy from Brazil. This

Renewable Energies

Uruguay's main strategic advantage is its electrical system, which offers a solid, low-risk foundation for any investment. A nearly fully decarbonized electricity mix: 99% of its electricity generation comes

Uruguay's Remarkable Shift to Renewables Offers a

Until 2007, Uruguay was strapped for energy resources that forced it to rely on importing energy from South American neighbors. That has changed.

Uruguay's 98% Clean Power Shift – What It Means for Business

Uruguay's Silent Energy Revolution Uruguay may not dominate global energy headlines, but its transformation is among the most impressive in the world. In just 15 years, the country went

Uruguay's Renewable Charge: A Small Nation, A Big Lesson For

Uruguay did what most nations still call impossible: it built a power grid that runs almost entirely on renewables—at half the cost of fossil fuels. The physicist who led that transformation says...

Uruguay Smart Energy Market (2025-2031) | Share & Forecast

6Wresearch actively monitors the Uruguay Smart Energy Market and publishes its comprehensive annual report, highlighting emerging trends, growth drivers, revenue analysis, and forecast outlook.

Energy Transition of Uruguay

Fig. 4 shows the expenditure of the interconnection capacity with Argentina and the 570 MW of interconnection with Brazil, together allow relatively important energy exchanges for Uruguay. Take

Uruguay Battery Storage and Smart Grids

Uruguay is a frontrunner in renewable energy integration in Latin America, with developing potential in the areas of battery storage and smart grid technologies. The country's electricity matrix is highly

Report template_2025

Uruguay is on path toward a 100% renewable energy system, achieving 91% renewable electricity generation in 2022. This report analyzes the challenges and opportunities of this transition in the face

IEEFA Update: A Renewable Energy Revolution in Uruguay for All the ...

Growth in variable renewable power market share in Uruguay has been dramatic, and the country has become a showcase for what is possible with strong cross-border interconnection and a

Energy transition in Uruguay: market dominance or public-social power?

Based on secondary literature and multiple interviews, the central hypothesis is that Uruguay has faced a renewal of its energy matrix, but it has conditions to end up heading toward a just energy transition

Uruguay consolidates its leadership in renewable

By the end of 2025, Uruguay has established itself as one of the most consistent examples of energy transition in Latin America and as a

Uruguay's Action Plan and Experience for Power Sector Decarbonization

Uruguay's electricity matrix reached 92% renewables even in the year with the lowest hydro contribution on record. The robustness of the National Interconnected System (SIN) has been increased through

Uruguay's Energy Transition: Financing a Cleaner, Fairer Future

Across the country, engineers are testing Uruguay's first autonomous charging station for heavy vehicles and laying the foundations for a pilot green hydrogen plant. These projects are early

The Playbook of Uruguay's Energy Transition 2010–2024

Uruguay transformed its energy system from oil-dependent to nearly fully renewable in under 15 years. Explore the institutional learning and state capacity behind this LAC success story.

FROM CRISIS TO ENERGY SECURITY: HOW URUGUAY BUILT

HOW URUGUAY BUILT NATIONAL BACKING FOR ITS RENEWABLE ENERGY

REVOLUTION Uruguay achieved a remarkable feat in just over a decade: transitioning from an economically

How Uruguay Relies Almost Completely on Renewable Energy

Held up as a case study for successfully transitioning away from fossil fuels, Uruguay now generates up to 98% of its electricity from renewable energy. The country offers lessons in energy

Uruguay's Transition to Renewable Electricity

Uruguay, one of South America's smallest countries, is attracting outsized attention over its transition to green electricity. It didn't happen simply by building a bunch of wind and solar farms, the architect of

Energy Transition in Uruguay: The Most Promising Case in ...

It looks into the decentralization strategies promoted by new energy technologies and assesses the resulting transformation in the country's development model. A central focus is placed

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