Energy independence chile

Overview

In 2022, Chile announced its Framework Law on Climate Change, which aims to achieve carbon neutrality by 2050 by incentivizing the development of numerous renewable energy projects. Power generation companies have formally committed to retiring thermal power plants by 2040.

Energy independence chile

[Chile 2050 Energy Transition Roadmap - Analysis]

At the request of the Government of Chile, the International Energy Agency (IEA) prepared this report to set out a roadmap for the energy sector as part of the

[A new approach could fractionate crude oil using much less energy]

MIT engineers developed a membrane that filters the components of crude oil by their molecular size, an advance that could dramatically reduce the amount of energy needed for crude oil

[How artificial intelligence can help achieve a clean energy future]

A look at how AI can be used to help support the clean energy transition by helping to manage power grid operations, plan infrastructure investments, guide the development of novel

[Giving buildings an "MRI" to make them more energy-efficient and]

Founded by a team from MIT, Lamarr.AI utilizes drones, thermal imaging, and AI to identify energy waste and structural issues in buildings and recommend retrofits.

[Study: Fusion energy could play a major role in the global response to]

Investigators in the MIT Energy Initiative and the MIT Plasma Science and Fusion Center have found that - depending on its future cost and performance - fusion energy has the potential

[Issue brief Chile: A case study in regional energy leadership]

In December 2024, Chile reached an important milestone in its transition to renewable energy, with wind and solar power contributing 42 percent of the country's electricity, the highest level recorded so far.3

[Next-generation geothermal energy: Promise, progress, and challenges]

Geothermal energy, a clean, continuous energy source accessible in many locations, has been slow to catch on. Nearly 2,000 years ago, the Romans made extensive use of geothermal

[MIT Energy Initiative conference spotlights research]

At the MIT Energy Initiative's Annual Research Conference, industry leaders agreed collaboration is key to advancing critical technologies amidst a changing energy landscape.

IDB , The Energy Transformation in Chile

In just a decade, it went from importing fossil fuels to generate 63 percent of its energy in 2013 to producing 68 percent from renewables in 2024. With abundant

Why solid-state batteries keep short-circuiting

MIT researchers discovered that dendrites, cracks that harm the performance of solid-state batteries, can grow at far lower stresses than previously understood. The findings reveal why

MIT engineers create an energy-storing supercapacitor from ancient

MIT engineers created a carbon-cement supercapacitor that can store large amounts of energy. Made of just cement, water, and carbon black, the device could form the basis for

Making clean energy investments more successful

New research emphasizes the importance of well-validated models and forecasting tools in evaluating choices for investments in clean energy technologies and policies by governments and

New facility to accelerate materials solutions for fusion energy

The new Schmidt Laboratory for Materials in Nuclear Technologies (LMNT) at the MIT Plasma Science and Fusion Center accelerates fusion materials testing using cyclotron proton beam

An analysis of renewable energy resources and options for the energy

This study analyses renewable energy resources, infrastructure, and practical options to accelerate the energy transition and unlock Chile's potential as an exporter of renewable energy and

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