

Costa Rica Export Energy Management System Energy-Saving CIF Price



Overview

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Key Takeaways

Costa Rica is modernizing its energy system with CIF-backed smart grids and energy management solutions, aiming to enhance renewable integration, reduce costs, and support industrial and transport electrification.CIF Investment and Energy Management System

Costa Rica's energy modernization is supported by the Climate Investment Funds (CIF) through the Renewable Energy Integration (REI) program, with a total plan of \$70 million, including an initial allocation of \$45 million . The program focuses on:

- Smart grid deployment: Installation of 724,000 advanced metering units to cover over two-thirds of the population, enabling real-time energy monitoring and management .
- Electrification of transport: Infrastructure for 185 electric buses and charging stations to reduce fossil fuel dependency in public transport .



- Industrial electrification: Replacement of 5% of 628 industrial boilers with electric alternatives, reducing CO2 emissions by 17,729 tCO2e per year and lowering service costs by \$1.2 million annually . These measures form the backbone of Costa Rica's Export Energy Management System, allowing industries and exporters to optimize energy consumption, integrate renewable energy efficiently, and reduce operational costs.

Energy-Saving CIF Price and Cost Efficiency

The CIF program provides concessional financing, which lowers the effective cost of implementing energy-saving technologies. By leveraging CIF funds alongside financing from the IDB, IFC, and World Bank, Costa Rica can deploy advanced energy management systems at a reduced capital cost, effectively lowering the CIF price for energy-saving infrastructure . This enables exporters and industrial users to benefit from:

- Reduced electricity costs through smart metering and demand-side management.
- Lower operational expenses by transitioning from fossil fuels to electric and renewable-powered systems.
- Enhanced grid flexibility to accommodate variable renewable energy, ensuring stable and cost-efficient energy supply for export-oriented industries .

Regulatory and Market Context

Costa Rica's 2021 Distributed Energy Law (Law 10086) provides a legal framework for self-generation, grid interconnection, and net billing, supporting distributed energy and smart grid solutions . Regulatory reforms expected in 2025 aim to further stimulate private sector participation, including foreign companies offering energy management software, virtual power plants, and smart grid services, which are critical for exporters seeking energy efficiency and cost savings .

Strategic Impact

The integration of CIF-backed energy management systems aligns with Costa Rica's decarbonization goals and its commitment to 100% renewable electricity . By modernizing the grid and implementing energy-saving measures, the country enhances:

- Export competitiveness through lower energy costs.
- Sustainability credentials for industries and exporters.

- Resilience against climate variability and hydro-dependency challenges . In summary, Costa Rica's Export Energy Management System, supported by CIF funding, combines smart grids, industrial electrification, and transport electrification to provide cost-efficient, renewable-based energy solutions. The energy-saving CIF price reflects the concessional financing that reduces upfront costs, enabling exporters and industrial users to adopt advanced energy management technologies while contributing to national decarbonization and energy resilience goals.

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The total production of all electric energy producing facilities is twelve bn kWh, which is 118 percent of the country's own usage.

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Starting in 2020, retailers will be able to sell only efficient and cost-saving appliances to meet the new guidelines set out

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Distributed energy market in Costa Rica

Costa Rica has made distributed renewable energy generation a national priority. The country has over 3,500 active systems and

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Costa Rica is a remarkable example of clean electricity achievement by generating more than 98% of its electricity from low-carbon

Energy

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How much of Costa Rica's energy comes from low-carbon sources? To reduce CO2 emissions and exposure to local air pollution,

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