



# 90 kWh electricity market

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The Wholesale Electricity Market Portal was launched by the U.S. Energy Information Administration (EIA) in March of 2024 to help users examine and access electricity markets data in the seven Regional Transmission Organizations (RTO) and Independent System Operators (ISO).

The International Energy Agency's Electricity Market Report 2023 offers a deep analysis of recent policies, trends and market developments. It also provides forecasts through 2025 for electricity demand, supply and CO<sub>2</sub> emissions - with a detailed study of the evolving generation mix.

Soaring prices for energy commodities, including natural gas and coal, sharply escalated power generation costs and contributed to a rapid rise in inflation. Economic slowdowns and high electricity prices stifled electricity demand growth in most regions around the world.

Shown are annual average real time electricity market prices based on data from all locational marginal price (LMP) nodes in 2023. High wholesale electricity prices in ERCOT and CAISO were driven by different phenomena. In CAISO, high annual prices in 2023 were driven mostly by the high hourly prices in January 2023.

The IEA real-time electricity map displays electricity demand, generation, spot prices, trade as well as CO<sub>2</sub> emissions from more than 50 sources. Data is available historically, as well as daily or hourly, and at country or regional levels. Explore the map to discover visuals and analysis.

The wholesale electricity market is where electricity is bought and sold in bulk between electricity producers (generators/power plants) and electricity suppliers (retailers/utilities). The market is based on supply and demand, where the price of electricity is determined by a range of factors, including the cost of production, market demand, and government regulations. However, because electricity cannot be efficiently stored in bulk for long periods, the grid must be balanced given changes in demand.

Many states offer tax incentives to homeowners who take steps to make their homes more sustainable and energy-efficient. These are early steps that allow retail customers to participate in the wholesale energy market. The long-term aim is a more efficient and lower-cost model that benefits consumers and producers alike. Renewable Energy Certificates (RECs) provide tracking of the production of renewable energy and have a tradeable value.

Regulation plays a crucial role in the wholesale electricity market. Governments set policies and regulations to ensure the market is competitive, to promote the development of renewable energy, and to protect consumers from price gouging. Regulators also oversee the market to ensure that energy providers follow the rules and that prices are fair.



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The spark spread is the difference between the wholesale market price of electricity and its cost of production using natural gas. Energy traders and investors look to this spread to understand the profitability of utilities companies.

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