

# Electricity distribution iran



## Overview

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Statistics on the electricity network in Iran from OpenStreetMap. By 2012, Iran had roughly 400 power plant units. [1][2][3] There are [as of?

] plans to add more than 5,000 MW of generation capacity annually to the power grid . In the energy domain, there are many different units thrown around - joules, exajoules, million tonnes of oil equivalents, barrel equivalents, British thermal units, terawatt-hours, to name a few. This can be confusing, and make comparisons difficult. So at Our World in Data we try to maintain . Iran is currently facing one of its most severe infrastructure breakdowns in decades, with overlapping crises in water supply, electricity distribution, and now looming gas shortages. These issues are disrupting daily life, threatening industries, and exposing deep-rooted failures in national . Iran has 477 power plants totalling 78,439 MW and 84,038 km of power lines mapped on OpenStreetMap. If multiple sources are listed for a power plant, only the first source is used in this breakdown. In 2024, the state of electricity consumption in Iran heavily relies on fossil fuels, with an overwhelming 92% of electricity generation coming from fossil sources, primarily gas, which constitutes more than 85% of the mix. Iran was one of only 16 countries that emitted a 1% or greater share of global fossil fuel CO .

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### Access to electricity (% of population)

Access to electricity (% of population) - Iran, Islamic Rep. from The World Bank: Data

### [Iran's Electricity Crisis: A Structural Failure Behind the Blackouts](#)

More than 11 percent of the country's generated electricity is wasted before it even reaches consumers, largely due to outdated infrastructure and mismanagement-issues that have



### [Iran power capacity rises to 98,802 MW, up 5,800 MW in 18 months](#)

TEHRAN - Iran's installed electricity generation capacity has increased by about 5,800 megawatts in less than 18 months, reaching 98,802 MW from roughly 93,000 MW at the start of the

### [Crisis Without Strategy: Iran's Escalating Water, Electricity, and Gas](#)

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## Trends of Iran's Energy System



Charts of primary energy therefore show the total consumption of fossil fuels for both electricity generation and non-electric applications such as coal for steel manufacture or combustion of oil

## List of power stations in Iran

In 2008, the highest growth in generation of electricity belonged to gas and combined-cycle power plants, with a 9.3% growth rate while, the amount of electricity generated by hydroelectric power



## Iran Electricity Generation Mix 2024 , Low-Carbon

Iran's electricity mix includes 85% Gas, 7% Oil and 6% Hydropower. Low-carbon generation peaked in 2019.

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