

# **Iran's lowest power generation and energy storage project**



## Overview

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Can nuclear energy help Iran stabilize and expand its clean electricity production?

The recent positive trends in nuclear energy can serve as a foundation for Iran to stabilize and expand its clean electricity production, focusing on reliable and continuously improving sources like nuclear and solar to counteract the volatility seen in its past hydropower ventures.

What percentage of Iran's electricity comes from fossil fuels?

A significant portion of this comes from gas, representing about 80% of the fossil-fuel share. On the cleaner side of the energy spectrum, low-carbon sources comprise nearly 8% of Iran's electricity. Within this group, hydropower contributes around 6% and nuclear energy makes up approximately 2%.

What percentage of Iran's electricity is renewable?

With an operating capacity of only 879 MW, Iran's renewable energy sector now produces less than one percent of the nation's total electricity. In 2023, Iran built less than 75 MW of renewable power, while Saudi Arabia and Turkey added 2,840 MW and 2,800 MW, respectively.

What is the history of low-carbon electricity in Iran?

The history of low-carbon electricity in Iran reflects fluctuations, particularly in hydropower and nuclear generation. In the early 1990s and mid-2000s, hydropower saw periods of both gains and declines. More recently, substantial decreases have been observed, such as a 10.7 TWh dip in 2020 and a 9.4 TWh drop in 2021.

What is Iran's electricity mix?

For the years 2006 to 2016 the data sources are Energy Institute and IEA (imports/exports) . For the years 2017 to 2024 the data source is Ember . Iran's electricity mix includes 80% Gas, 12% Unspecified Fossil Fuels and 6%

Hydropower.

Is Iran Facing a major energy crisis?

Iran is grappling with a significant energy crisis, particularly in its electrical sector. The country faces a troubling 14,000–15,000 MW electricity deficit during peak summer demand, exacerbated by frequent power outages that disrupt both industrial and residential life.

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