

Where are the power distribution boxes in Iran



Overview

The electric power industry in Iran has become self-sufficient in producing the required equipment to build power plants. While most of the electricity generators are run by the government, the equipment producers and contractors are generally from the private sector. Iran is among the top ten manufacturers of, with a capacity of up to 160 megawatts. Iranian engineers at JEMCO (a subsidiary of) have developed.

Key Takeaways

Power distribution in Iran is managed through 42 regional distribution companies that operate substations and distribution boxes across the country. Overview of Distribution Infrastructure

Iran's electricity network is extensive, with 477 power plants totaling over 78,000 MW and more than 84,000 km of power lines mapped across the country . Electricity generated at power plants—primarily thermal, hydroelectric, and nuclear—is transmitted via high-voltage transmission lines to regional substations. From these substations, electricity is stepped down to lower voltages and distributed to residential, commercial, and industrial consumers through distribution boxes and local networks.

Distribution Companies



The country has 42 distribution companies, which are legally independent but operate under the supervision of the Minister of Energy . These companies are responsible for managing the local distribution network, including the installation, maintenance, and operation of power distribution boxes (also called distribution transformers or feeder boxes). Each company covers a specific geographic region, ensuring that electricity reaches urban and rural areas efficiently.

Location of Distribution Boxes

While exact locations of individual distribution boxes are not publicly disclosed for security reasons, they are typically found:

- Near residential neighborhoods to step down voltage for household use
- Along streets and roads in urban areas for easy access and maintenance
- Near industrial zones to supply higher loads
- At rural substations to distribute electricity to villages and remote areas These boxes are connected to the medium-voltage network (typically 20 kV) and reduce voltage to low-voltage levels (220–240 V) suitable for end users .

Management and Oversight

The Iranian Power, Generation, Transmission and Distribution Management Company (TAVANIR) oversees the national electricity network, coordinating with distribution companies to ensure reliable supply . TAVANIR's subsidiaries handle the technical aspects of distribution, including the deployment and monitoring of distribution boxes, while private contractors supply equipment and perform maintenance.

Summary

In Iran, power distribution boxes are strategically located across urban, suburban, and rural areas, managed by 42 regional distribution companies under TAVANIR. They serve as the critical link between high-voltage transmission lines and end users, ensuring safe and reliable electricity delivery throughout the country .

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The power sockets in Iran are of type C and F. The standard voltage is 220 V at a
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Legrand's Distribution Boards deliver safe, reliable power distribution for homes,
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