



MODERNIZATION SOLAR

# Tehran Energy Storage Power Supply





## Overview

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How many solar power plants are there in Tehran?

Four PV power plants exist in Tehran, with 0.514, 10, 8.4, and 2.7 MW gross capacity. PVs consume 3.85 MJ of solar energy per 1 kWh of low-voltage electricity generation. Silicon cells have an average efficiency of 11% based on TAVANIR reports (TAVANIR, 2020) and are manufactured in China.

Which is the most sustainable electricity generation technology in Tehran?

Hydropower plants Reservoir hydropower is the most sustainable electricity generation technology in the electricity mix of Tehran. In addition to having the lowest midpoint and endpoint environmental impacts, hydropower plants impose the lowest energy and NPC over the life cycle.

Which power plant produces the most electricity in Tehran?

High-voltage power plants are the backbone of Tehran's electricity system. Except for PVs that produce low-voltage electricity, other technologies in this electricity system generate high-voltage electricity, with CC power plants contributing the most.

What are the environmental impacts of electricity generation & supply in Tehran?

The majority of the environmental impacts of electricity generation and supply in Tehran are attributed to fossil power plants, with CCs being the main contributor.



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