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## Tehran base station uses 15MWh photovoltaic container

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.

How many CC power plants are there in Tehran?

Two CC power plants exist in Tehran, with 1506 and 2868 MW gross capacity. Average weighted efficiency of CCs is about 42.5%. CCs consume 0.172 m<sup>3</sup> NG and 0.0438 kg diesel per 1 kWh of high-voltage electricity generation. CCs utilize wet cooling. Decarbonized water is utilized to reduce NO<sub>x</sub> emissions.

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.

How fossil fuel is used in Tehran power plants?

Fossil fuel consumption in power plants is set based on weekly reports of TAVANIR in 2020 (TAVANIR, 2020). NG and diesel are supplied by Tehran Gas Co. (TGC) and Tehran Oil Refining Co. (TORC). NG is transported to fossil power plants via pipeline, while diesel is via diesel-truck tankers.

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The two plants, located near the capital Tehran, have a combined capacity of 14MW and are named Persian Gulf and Amir Kabir. Both are spread over 10 hectares each in ...

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