

Iran s new outdoor solar power hub



Overview

Aftab Shargh (meaning “Sunlight of the East” in Persian) will become Iran's largest and most technologically advanced solar power plant when it reaches full capacity of 600 MW by March 2027. The power plant was built by Mobarakeh Steel Company, the largest steel producer in West Asia. Iran, with its vast solar potential and pressing energy demands, is poised to transform its energy landscape through renewable energy, particularly solar photovoltaic (PV) and energy storage. Blessed with an average annual solar irradiation of 4.5 kWh/m² and up to 2,200 kilowatt-hours of solar. The recent opening of Iran's largest solar power plant, Aftab Sharq, in central Isfahan province, marks a significant milestone in the country's pursuit of self-sufficient renewable energy technology. Iranian President Masoud Pezeshkian used a video link on Thursday to inaugurate a 120-megawatt (MW) unit of the Aftab Shargh solar farm in Isfahan province. The country's first all-in-one solar power substation, comprising an inverter, transformer, low- and medium-voltage switchgear, and protective equipment was unveiled for the first time on May 28, at Iran Transfo Zanzan's Substation Development Company. The product, entirely engineered and designed.



Article Content

Central Iran adds 500 supportive solar power plants to

TEHRAN – The central Iranian province of Markazi has significantly expanded its solar power infrastructure, with 500 small-scale solar power plants

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Explainer: Iran's largest solar power project takes off in ...

The 120 MW Aftab Sharq solar plant in Isfahan, a €305 million project set to expand to 600 MW, advances Iran's renewable capacity goals amid Western sanctions.

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Iran opens first phase of largest solar power plant in

Iran has opened the first phase of its largest solar power plant as part of a major government programme to expand renewable energy capacity. Iranian

Iran Launches Off-Grid Solar Plan to Cut Grid Dependency, Targets

The Iranian government has unveiled a sweeping energy transition initiative to decouple all state institutions from the national power grid, prioritizing off-grid photovoltaic (PV) systems to

Iran's first integrated solar power plant system unveiled in Zanjan

The country's first all-in-one solar power substation, comprising an inverter, transformer, low- and medium-voltage switchgear, and protective equipment was unveiled for the first time on

Iran's Clean Energy Push: A 150% Surge Under the 14th Government

Renewable energy capacity in Iran has increased by over 150 percent since the start of the 14th government, with plans underway to achieve 30,000 megawatts under the Seventh

Iran inaugurates 250 MW of new solar plants

According to a report from the Fars News Agency, the 250 MW of new solar plants inaugurated are located around the East Azerbaijan province of

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Iran aims to build 15GW of solar capacity

Iranian First Vice-President Mohammad Mokhber announced that the nation has established a comprehensive plan for the construction of solar PV

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Iran adds 600 MW of solar power, launches major renewable projects

TEHRAN - Iran installed approximately 600 megawatts (MW) of solar power capacity in the past Iranian year (ending March 2025), marking a fourfold increase over the previous annual

Iran approves 500 MW of new solar power plants

Iran's Energy Ministry approves plans to launch 500 MW of solar farms in 150 locations in the country. Iran's Energy Ministry has given its final approval for

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Iran's Renewable Energy Revolution: Shift Towards Solar and ...

Iran (IMNA) - The government's latest initiative envisions constructing solar power plants adjacent to hydroelectric dams, leveraging Iran's natural resources and existing infrastructure.

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Explainer: Iran's largest solar power project takes off in

Designed to expand to 600 MW by March 2027, Aftab Sharq will become Iran's largest solar facility upon completion. The remaining 480 MW will

Iran's renewable revolution with solar-hydro synergy

The latest initiative, which envisions the construction of solar power plants adjacent to hydroelectric dams, takes advantage of Iran's natural resources and existing infrastructure.

Iran Starts Operation of New Solar Power Plants

In relevant remarks in August, Iranian Deputy Energy Minister Mohsen Tarzatab announced that in the first four months of the current Persian calendar year (started on March 21),

Solar Power Growth Boosts Iran's Energy Sector

Iran has ramped up its solar power growth by launching 250 megawatts (MW) of new solar capacity. This marks a significant step in the

Pezeshkian inaugurates 250MW of new solar power plants across Iran

TEHRAN – President Masoud Pezeshkian inaugurated 250 megawatts (MW) of new solar power plants across the country via a video conference, and ordered the beginning of the

President inaugurates Iran's largest solar power plant in Isfahan

Iranian President Masoud Pezeshkian inaugurates via video conference the country's biggest solar power plant in Kuhpayeh, Isfahan Province, central Iran, on July 10, 2025.

Iran approves 500 MW of new solar power plants

Iran's Energy Ministry approves plans to launch 500 MW of solar farms in 150 locations in the country.

Iran's renewable energy sector hits new milestone

BAKU, Azerbaijan, June 15. Iran's renewable energy capacity has expanded by 139 megawatts, Jafar Mohammadnejad Sigarudi, Deputy Chairman of Iran's Organization for Renewable

Iran Launches Landmark Solar Energy Expansion | FinancialTribune

At a ceremony attended by senior officials, Iran officially brought 445 megawatts of new solar power into operation while simultaneously launching construction on 177 megawatts of...

Iran approves 500 MW of new solar power plants

Iran's Energy Ministry has given its final approval for plans to launch 500 megawatts of new solar power plants as part of a campaign to increase the share of

Iran to expand off-grid solar to all government buildings

Iran's Energy Minister Abbas Aliabadi also said that all government buildings will soon be equipped with solar panels to allow them to become off-grid.

Iran adds 600 MW of solar power, launches major renewable projects

297 MW of solar power projects begin installation across 5 provinces. The head of Iran's Renewable Energy and Energy Efficiency Organization (SATBA) announced the launch of

Iran sets new solar power record with 800 MW milestone as

Iran has set a new national record in solar energy generation, achieving an unprecedented 800 MW of instantaneous output from solar power plants across 24 sites in several

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Iran's New Energy Market: Harnessing Solar Power and

This post explores the current state of Iran's new energy market, recent policies, key case studies in solar PV and energy storage, and the

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