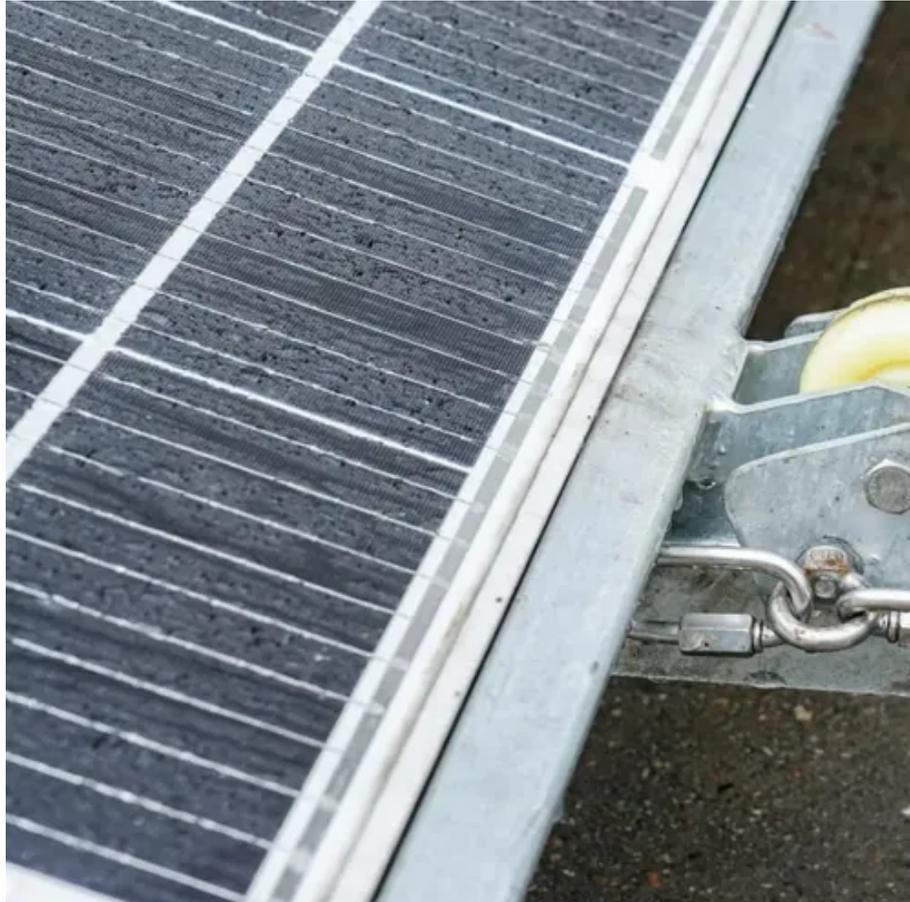




# How many watts of solar power can be generated in the Middle East





## Overview

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The UAE has emerged as a beacon of renewable energy innovation, ranking 10th globally in per capita solar capacity in 2023, with an impressive 708 watts per capita (Image: WAM) The share of solar energy in the Middle East and North Africa's (MENA) energy mix has grown significantly in recent years.

According to the Middle East Solar Industry Association (MESIA) 2025 Solar Outlook Report, MENA's solar capacity could exceed 180 GW by 2030. In 2024 alone, installed capacity reached 24 GWAC, up 25% from the previous year, and is expected to surpass 30 GW by year-end. The UAE is leading the solar.

The installed capacity of solar power plants in the Middle East countries is to grow from 16 GW in 2023 up to 23 GW in 2024, and by 2030 it will achieve the level of 100 GW, Rystad Energy forecast says. The key drivers of such growth will be Saudi Arabia, Oman, United Arab Emirates (UAE) and.

The Middle East Solar Industry Association's (MESIA) latest report says solar capacity in the Middle East and North Africa (MENA) region grew by 25% in 2024, with local manufacturing and energy storage also accelerating. There was substantial growth in the MENA region's solar market in 2024.

The Middle East is home to some of the largest solar projects globally. The Mohammed bin Rashid Al Maktoum Solar Park in Dubai, one of the world's biggest, is set to generate 5,000 megawatts of clean energy by 2030. Similarly, Saudi Arabia's NEOM project combines solar with wind and hydrogen.

By 2050, renewable energy, including hydropower, solar, and wind, is expected to make up 70% of the Middle East's power structure. This is a massive leap from the 5% recorded at the end of 2023, indicating a transformative shift in the region's energy landscape. Despite the upcoming increase in.



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### [MENA Solar and Renewable Energy Report](#)

In 2019, the global estimated additions of solar photovoltaic (PV) reached almost 138 GW (Figure 1). Within the Middle East and North Africa (MENA) region, the increased industrial activity and ...

### **Middle East - the new point of growth at the solar energy map**

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### **Solar Power in the Middle East: Turning Deserts into Energy Hubs**

The Middle East is home to some of the largest solar projects globally. The Mohammed bin Rashid Al Maktoum Solar Park in Dubai, one of the world's biggest, is set to ...

### **MENA's Renewable Energy Boom: Solar Capacity to Hit 180 GW ...**

According to the Middle East Solar Industry Association (MESIA) 2025 Solar Outlook Report, MENA's solar capacity could exceed 180 GW by 2030. In 2024 alone, ...



### [Middle East's Solar Capacity to Exceed 100 GW by 2030](#)

The Middle East is projected to surpass 100 GW of solar capacity by 2030, with renewable energy sources expected to account for 70% of the region's power generation mix ...

### [Middle East projected to surpass 100 GW of solar ...](#)

At the end of 2023, the Middle East had over 16 GW of solar capacity, expected to approach 23 GW by the end of 2024 and surpass ...



### **Solar Power Generation to Increase Significantly in the Middle East**

By the end of 2023, the total solar capacity in the Middle East exceeded 16 gigawatts (GW), with expectations to approach 23 GW by the end of 2024. Forecasts indicate ...

### [How much solar power generation in the Middle East](#)



The solar potential in the Middle East is immense, reaching an average solar irradiance of around 6 kWh/m<sup>2</sup>/day, making it one of the frontrunners for solar energy ...



[MENA region's solar energy capacity to exceed ...](#)

The share of solar energy in the Middle East and North ...

[How much solar power generation in the Middle East](#)

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[MENA region hits 24 GW \(AC\) of total solar capacity](#)

It projects that MENA's solar capacity hit 24 GW (AC) in 2024, which would represent a 25% year-on-year increase. The report said that more than 80% of this growth ...

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### **MENA region's solar energy capacity to exceed 180 GW by 2030: ...**

The share of solar energy in the Middle East and North Africa's (MENA) energy mix has grown significantly in recent years. Solar capacity in the region rose 23 percent in 2023 to ...

### [Middle East - the new point of growth at the solar ...](#)

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### **Middle East projected to surpass 100 GW of solar capacity by 2030**

At the end of 2023, the Middle East had over 16 GW of solar capacity, expected to approach 23 GW by the end of 2024 and surpass 100 GW by 2030, with Saudi Arabia, the ...



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