

# **UAE RTC Energy Storage Project**





## Overview

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The UAE has announced what it says will be the world's 1st large-scale round-the-clock (RTC) gigascale project combining 5 GW DC solar PV and 19 GWh of battery storage capacity to produce 1 GW of continuous, uninterrupted baseload renewable energy capacity. Why is UAE launching a solar power and battery storage project?

The launch of the solar power and battery storage project marks a pivotal moment in the clean energy transformation, allowing renewable energy to be dispatched 24 hours a day, seven days a week, reaffirming the UAE's position as a global pioneer in renewable energy deployment.

Will Dubai's new solar power plant be able to operate 24/7?

The facility will be capable of operating 24/7 on renewable energy. This will also be the world's first 24/7 solar PV, battery storage gigascale project, according to Abu Dhabi Future Energy Company (Masdar) and Emirates Water and Electricity Company (EWEC), which are part of the project.

What is EWEC doing in Abu Dhabi?

Located in Abu Dhabi, the project will feature a 5.2 gigawatt DC solar photovoltaic plant, coupled with a 19 gigawatt-hour battery energy storage system, setting a global benchmark in clean energy innovation. "In collaboration with EWEC and our partners, we will develop a renewable energy facility capable of providing clean energy round the clock.

What is the largest combined solar and battery energy storage system?

Delivering up to 1 gigawatt (GW) of baseload power every day generated from renewable energy, it will be the largest combined solar and battery energy storage system (BESS) in the world.



## UAE RTC Energy Storage Project

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### [CATL and Masdar Establish Partnership for World's Largest](#)

Jan 19, 2025 · On January 17, CATL and Masdar, the United Arab Emirates' clean energy powerhouse, announced a partnership for the world's first large-scale 'round the clock' giga ...

### [Abu Dhabi announces 5.2GW Solar PV Project ...](#)

Jan 14, 2025 · The 19GWh battery storage facility will enable seamless integration of solar power into the grid. By integrating state-of-the-art ...



### **UAE announces world's first 24/7 renewable energy gigascale project**

Jan 17, 2025 · World's first 24/7 renewable energy gigascale project unveiled in Abu Dhabi  
The 19GWh battery storage facility will enable seamless integration of solar power into the grid.

### [UAE utility announces EOI for 400MW battery ...](#)

Mar 8, 2024 · Utility EWEC has invited developers to submit expressions of interest (EOI) for a



400MW BESS project in the UAE.



### [UAE Launches One Of The Largest Global](#)

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Jan 16, 2025 · The Abu Dhabi Future Energy Company PJSC - Masdar and Emirates Water and Electricity Company (EWEC) launched one of the

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### [UAE Launches One Of The Largest Global Solar RTC Projects](#)

Jan 16, 2025 · The Abu Dhabi Future Energy Company PJSC - Masdar and Emirates Water and Electricity Company (EWEC) launched one of the first large-scale 'round the clock' (RTC) Giga ...



### [UAE Breaks Ground On Gigascale RTC Renewable Energy Project](#)

Oct 27, 2025 · The project will integrate a 5.2GW solar photovoltaic (PV) plant with a 19 gigawatt-hours (GWh) battery energy storage system (BESS), the largest and most technologically ...





### [Masdar chooses CATL as supplier for battery ...](#)

Jan 20, 2025 · Beijing (Gasgoo)- Masdar, a global leader in renewable energy and sustainable urban development, has selected Chinese battery ...



### [UAE To Host World's '1st' Facility To Provide ...](#)

Jan 14, 2025 · The UAE has announced what it says will be the world's 1st large-scale round-the-clock (RTC) gigascale project combining 5 GW DC ...

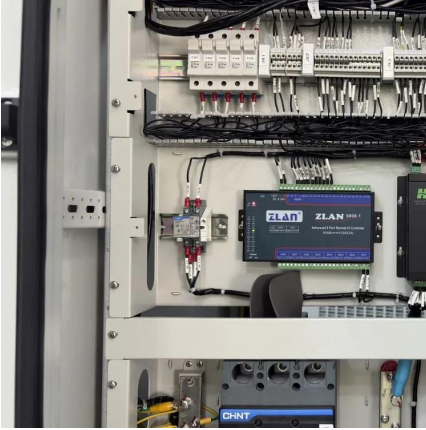
### [UAE announces 5.2GW solar & 19GWh BESS project](#)

Jan 15, 2025 · A project combining 5.2GW solar and 19GWh of battery energy storage - to be located in n Abu Dhabi in the UAE - has been announced.



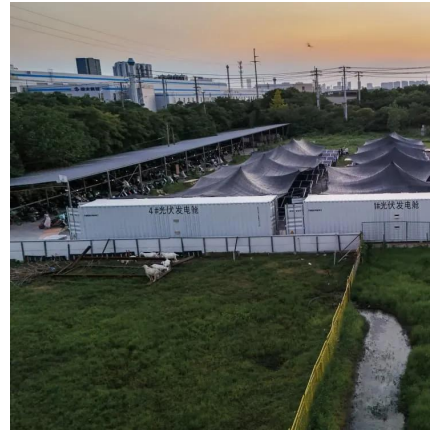
### [UAE announces world's first 24/7 renewable ...](#)

Jan 17, 2025 · World's first 24/7 renewable energy gigascale project unveiled in Abu Dhabi The 19GWh battery storage facility will enable seamless ...



### [Masdar gets contractors on board for \\$6bn ...](#)

Jan 19, 2025 · CATL, a China-based battery energy storage system (BESS) supplier, will provide its new technology for a total capacity of 19GWh, ...



### [Abu Dhabi announces 5.2GW Solar PV Project](#)

Jan 14, 2025 · The 19GWh battery storage facility will enable seamless integration of solar power into the grid. By integrating state-of-the-art renewable technologies with energy storage ...

### [CATL and Masdar Establish Partnership for ...](#)

Jan 19, 2025 · On January 17, CATL and Masdar, the United Arab Emirates' clean energy powerhouse, announced a partnership for the world's first ...





### [19GWh! CATL Becomes Preferred Supplier for ...](#)

Jan 22, 2025 · Recently, Masdar, a global leader in renewable energy and sustainable urban development, announced that CATL has been selected ...

### [UAE's first 'round the clock' facility to produce ...](#)

Jan 14, 2025 · By integrating state-of-the-art renewable technologies with energy storage solutions, this landmark project exemplifies the UAE's ...



### **World's first 24/7 solar PV, battery storage gigascale project ...**

Jan 14, 2025 · The launch of the solar power and battery storage project marks a pivotal moment in the clean energy transformation, allowing renewable energy to be dispatched 24 hours a ...

### [UAE: Masdar picks suppliers to world biggest ...](#)

Jan 20, 2025 · Masdar and CATL executives at the supply partnership announcement in Abu Dhabi, UAE. Image: Masdar Masdar has ...



### [19GWh! CATL Becomes Preferred Supplier for the World's ...](#)

Jan 22, 2025 · Recently, Masdar, a global leader in renewable energy and sustainable urban development, announced that CATL has been selected as the preferred supplier of battery ...



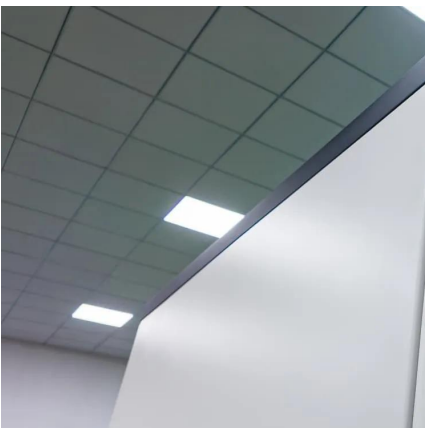
### **UAE To Host World's '1st' Facility To Provide RE 24x7, At Scale**

Jan 14, 2025 · The UAE has announced what it says will be the world's 1st large-scale round-the-clock (RTC) gigascale project combining 5 GW DC solar PV and 19 GWh of battery storage ...



### [UAE announces world's first 24/7 renewable ...](#)

Jan 15, 2025 · Abu Dhabi Future Energy Company (Masdar) and Emirates Water and Electricity Company (EWEC) have unveiled a groundbreaking ...





## CATL Becomes Preferred Battery Storage System Supplier for UAE's RTC

Jan 20, 2025 · The UAE RTC project is the largest solar and battery combined energy storage project in the world to date, including a total battery storage capacity of 19GWh and a 5.2GW ...



## The world's largest solar and energy storage project, with ...

Jan 20, 2025 · Masdar has announced that CATL will be the main battery supplier for the UAE Round-the-Clock (RTC) clean energy project. The project combines 5.2 GW of solar power ...



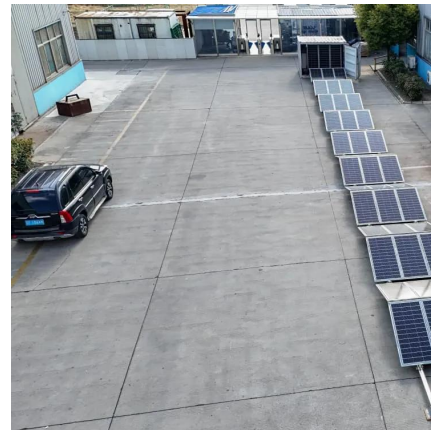
## [World's first 24/7 solar PV, battery storage ...](#)

Jan 14, 2025 · The launch of the solar power and battery storage project marks a pivotal moment in the clean energy transformation, allowing ...



### Masdar , 'Round the clock' 24/7 clean energy project

Masdar and Emirates Water and Electricity Company (EWEC) have announced the launch of the world's first 'round the clock' 24/7 clean energy gigascale project, integrating solar power and ...



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