

MUSCAT: Omani upstream energy firm ARA Petroleum is preparing to commission one of the world's first solar thermal powered, zero emission desalination plants in the Sultanate of Oman - a groundbreaking facility designed to transform highly saline produced water into drinking water.

H.E. Eng. Salim bin Nasser Al-Aufi, the Minister of Energy and Minerals in Oman, has officially inaugurated a 17-megawatt peak (MWp) solar photovoltaic (PV) farm designed to power the Sharqiyah Desalination Plant in Sur, Oman. This solar farm, the largest of its kind for a desalination facility in Oman, boasts an annual capacity of over 32,000 ...

The 17-MWp solar farm will fully power the Sharqiyah Desalination Plant, located south of Muscat in the country's eastern coastal city of Sur. The solar project was developed by Veolia - which together with local ...

Solar Energy Car Parking at the College of Engineering at Sultan Qaboos University ... Empowering the youth of Oman in the fields of renewable energy by providing workshops and training activities in cooperation with our local and ...

TotalEnergies and Veolia have signed an agreement to start the construction of the largest solar photovoltaic (PV) systems providing power for a desalination plant in Oman, in the city of Sur. The power plant will be located ...

Energy Oman Magazine - Oman's single news and information resource and discussion platform for the dynamic energy sector. ... GS Inima and Nama PWP sign agreement for Ghubrah III desalination. May 26, 2024. Oman signs major concession pact for mining of potash ore. July 5, 2023. Latest News. All; ... OCEC taps TotalEnergies for solar power ...

Paris, Oman, July 27, 2022 - TotalEnergies and Veolia have signed an agreement to start the construction of the largest solar photovoltaic (PV) systems providing power for a desalination plant in Oman, in the city of Sur. The power plant will be located on the site of the Sharqiyah Desalination plant, which is a reference in Oman and in the gulf region, supplying drinking ...

Solar Energy Car Parking at the College of Engineering at Sultan Qaboos University ... Empowering the youth of Oman in the fields of renewable energy by providing workshops and training activities in cooperation with our local and international partners. ... Water Channels and Desalination Plants; Individuals. Solar energy project for ...

In November 2023, Veolia and its partner TotalEnergies inaugurated the largest solar farm of the country dedicated to a desalination plant. Located in our desalination plant in Sur, which provides drinking water to

# Desalination with solar energy Oman

600 000 habitants, the solar farm will generate 32,000 megawatt-hours (MWh) of green and renewable electricity. The use of green energy to ...

Discover ARA Petroleum's pioneering solar thermal desalination plant in Oman, a zero-emission facility converting highly saline water into drinkable water. SolarQuarter Empowering. Insightful. ... SolarQuarter is one of the world's largest global solar energy sector media with an annual reach to 1,000,000+ industry professionals. We bring to ...

Sharqiyah Desalination Solar PV Park is a ground-mounted solar project which is spread over an area of 130,000 square meters. The project generates 32,000MWh electricity and supplies enough clean energy to power 600,000 households, offsetting 27,200t of carbon dioxide emissions (CO2) a year. The project consists of 32,000 modules. Development ...

The Al Kahal desalination plant utilizes a sustainable and innovative approach, combining electrical energy, solar energy, and wind energy to operate. The station harnesses the power of the sun through 90 solar panels and the wind through 3 turbines, contributing to its production capacity of 240 cubic meters of water per day.

Yaqoob al Kiyumi, CEO of Oman Power and Water Procurement Company OPWP, said, "This initiative is adding another perspective to the goal of having access to clean water in Oman. Employing solar energy ...

It is the largest solar system for a desalination plant in Oman with an annual capacity of over 32,000 megawatt-hours (MWh) of green electricity which will cover 100% of the desalination plant's consumption over the ...

Eng Salim bin Nasser al Aufi, the Minister of Energy and Minerals, inaugurated the 17-megawatt peak (MWp) solar photovoltaic (PV) farm producing green energy to power the Sharqiyah Desalination Plant in Oman's city of Sur. It is the largest solar system for a desalination plant in Oman with an annual capacity of over 32,000 megawatt-hours ...

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Sultanate of Oman is considered to be one of the most suitable destinations for solar energy applications and can play a vital and sustainable role in meeting the gap between the demand and supply of fresh water using solar thermal desalination. ... &#226;EURoeChallenges of seawater desalination in oman and study of Lead ( Pb ), Cadmium ( Cd ...

Water Security: Located near the Sur desalination plant, which serves over 600,000 residents, the solar farm directly contributes to Oman's water security. Clean Energy Future: By generating 32,000 megawatt-hours

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(MWh) of clean electricity annually, the solar farm helps Oman achieve its National Energy Strategy's goal of 30% renewable ...

Energy management solutions provider Veolia and TotalEnergies are to build a solar photovoltaic plant at a desalination facility in Sur, Oman. Veolia's Sharqiyah desalination plant supplies drinking water to more than 600,000 inhabitants of the Sharqiyah region.

Sur - H E Salim bin Nasser al Aufi, Minister of Energy and Minerals, on Monday inaugurated the 17-megawatt peak (MWp) solar photovoltaic (PV) farm producing green energy to power the Sharqiyah Desalination Plant in Sur. It is the largest solar power system for a desalination plant in Oman with an annual capacity of over 32,000 MWh of green electricity ...

French energy group TotalEnergies SE has launched a 17-MWp solar park in Oman which will power a water desalination plant in the northeast of the Sultanate. The solar farm was inaugurated on Monday in the ...

Solar desalination systems are classified as direct and indirect processes depending on the energy path to fresh water. Direct solar desalination systems combine solar energy collection and desalination in one process, producing freshwater distillate by directly applying collected solar energy to seawater.

An overview of present desalination status and fresh water demand, fuel requirements, solar energy availability, thermal desalination technologies and solar thermal technologies has been presented ...

HELIOVIS's solar thermal energy will be used to power a forward osmosis (FO) water desalination plant with a direct-osmosis (DO) ZLD unit (zero liquid discharge) to transform produced water with a salinity of ca. 102,000 ppm (3 times more salt than seawater) into ca. 140 m<sup>3</sup> of potable water per day at the oilfield, resulting in significant ...

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TotalEnergies, Veolia, and Sharqiyah Desalination mark Oman's first major solar project, producing green energy to reduce CO<sub>2</sub> emissions. TotalEnergies and Veolia illuminate Oman's desalination with solar power. COP28, energy transition, International News, NEWS, Oman, solar, TotalEnergies. News.

H.E. Eng. Salim bin Nasser Al-Aufi, the Minister of Energy and Minerals, Sultanate of Oman, has inaugurated the 17-megawatt peak (MWp) solar photovoltaic (PV) farm producing green energy to power the Sharqiyah ...

Solar desalination systems are a promising solution to the water scarcity problem since the majority of the earth's water resources are salty. With the increasing focus on desalination research, many innovative methods are being developed to extract salts from saline water. Energy consumption is a significant concern in desalination, and renewable energy, ...

## Desalination with solar energy Oman

In Oman, Veolia has already set a precedent with the Sur desalination plant, the first of its kind to be powered entirely by solar panels during daylight hours. This landmark project, inaugurated last year, underscores the company's dedication to green desalination. While desalination offers numerous advantages, it is not without its challenges.

TotalEnergies and Veolia have signed an agreement to start the construction of the largest solar photovoltaic (PV) systems, providing power for a desalination plant in Oman, in the city of Sur.

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