

Duba green integrated solar combined cycle power plant

What is green Duba?

Being implemented by state-owned Saudi Electricity Company (SEC), Green Duba will be Saudi Arabia's first fossil fuel-fired power plant to utilise solar energy for more efficient power generation.

How much electricity will the Green Duba power plant generate?

Upon completion, the Green Duba integrated power plant is expected to generate enough electricity for approximately 600,000 households. The project is being developed as part of the Kingdom of Saudi Arabia's Vision 2030 to diversify its economy by reducing dependence on oil.

How many turbines does Green Duba have?

The Green Duba combined-cycle power plant will feature two GE F-Class gas turbines, as well as a steam turbine generator, two heat recovery steam generators (HRSG), a condenser, and boiler feed pumps also from GE. The two gas turbines being used for the project include a 7F.05 turbine and a 7F.03 turbine.

How much does Green Duba cost?

The 605 MW project will cost SR3.4 billion (\$906.5 million), SPA reported. The Green Duba plant is being built with GE and represents Saudi Arabia's first integration of a solar array with a combined-cycle plant and the first introduction of condensate as a gas turbine fuel.

How will the Duba green power plant be evacuated?

The electricity generated by the Duba Green facility will be evacuated via an onsite 380kV/132kV substation into the National grid of Saudi Arabia, which is owned and operated by SEC. The substation will be connected to the power generation facility through 380kV underground transmission cables.

Who is the owner's engineer for Green Duba?

Tractebel Engie was appointed as the Owner's Engineer by SEC for the Green Duba integrated power project. Flabeg, a high-tech glass and mirrors manufacturer based in Germany, supplied parabolic troughs, while Italian firm Archimede Solar Energy supplied the solar collector tubes for the Green Duba CSP facility.

Duba Green Integrated Solar Combined Cycle Power Plant. ABOUT THE PROJECT. Client: ... Supply, Construction Supervision and Assembly. Location: Duba (Saudi Arabia) Year: 2017. MORE PROJECTS. PV Can ...

Power and Energy Project Information for Duba 1 Integrated Solar Combined-Cycle Plant Project in Saudi Arabia along with tender stage, project award, client, bidding and awarded consultant details, contractor/mep contractor, scope of ...

SEC starts work on "Green Duba" power plant . duba, News, SAUDI, Solar power NEWS. Close ... has

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launched the construction of a 600MW Integrated Solar Combined-Cycle (ISCC) gas power plant project in the ...

The landmark project, the "Green Duba" Integrated Solar Combined Cycle Plant, will be built in the northwestern part of Saudi Arabia, along the Red Sea coast, and has the capacity to generate the equivalent power needed to ...

Civil Engineering fields, such as Off & On-shore Foundation, Marine Structure Works, Petro-Chem, Refinery, Power, Desalination Plant & Industrial Plant, General Civil Work, Building Works, and Other Specialist Works. BAC ...

The "Green Duba" Integrated Solar Combined Cycle Plant, will be built in the north-western part of Saudi Arabia, along the Red Sea coast, and has the capacity to generate the equivalent power needed to supply around ...

The Kingdom's first integrated solar and combined cycle (ISCC) power plant. ... REFERENCE DETAIL - Green Duba Integrated Solar CCPP . Green Duba Integrated Solar CCPP ... Energy. The Kingdom's first integrated solar and ...

Duba Green Integrated Solar Combined Cycle Power Plant. 380 / 132 KV 2. Substation & 380 KV XLPE Cables & Interface Works. SSEM is a 100% Saudi owned company of the Al-Rashid Group and is proud of its ...

The ISCC (Integrated Solar Combined Cycle) technology adds 50 MW of solar power to the gas and steam turbines, generating a total of 500 MW of electricity. For this project, Dextra supplied Double Corrosion Protection Ground ...

GE has confirmed an order from Saudi Electricity Company (SEC) to supply turbines for the Kingdom's first integrated solar and combined cycle (ISCC) power plant. The landmark "Green Duba" project will be built along the ...

In a separate project, as part of the wider plan for cleaner energy power plants, KAUST is also on track to deliver a first-of-a-kind 30-tonne/day CO2 capture system in late ...

SSEM OVERVIEW Saudi Services For Electro Mechanic Works Founded in 1976, SSEM a leading 100% Saudi-owned company, specializes in the turnkey execution of large EPC (Engineering, Procurement, and ...

The Green Duba project marks Saudi Arabia's first integration of concentrated solar power in a combined cycle plant. The parabolic trough installation will generate 50 MW of the ...

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The Green Duba Integrated Solar Combined Cycle (ISCC) Plant [Duba Al-Khadra] is intended to produce a total of 605 megawatts (MW) of power, including 50 MW of solar capacity, according to SEC's 2021 ESG Report.

Saudi Electricity Company's (SEC) Green Duba Integrated Solar Combined Cycle (ISCC) Power Plant, located in Duba in Tabuk province, is expected to be completed by the ...

Green Duba Integrated Combined Cycle Power Project is a 515MW gas fired power project. It is located in Tabuk, Saudi Arabia. According to GlobalData, who tracks and ...

In what will be one of the largest demonstrations of cryogenic carbon capture technology today, a pilot project between King Abdullah University of Science and Technology (KAUST), ENOWA, NEOM's Energy & Water ...

Cryogenic carbon capture technology is a highly energy-efficient and low-cost process with the potential to radically reduce carbon emissions and, therefore, the carbon footprint of the Kingdom. The pilot project is expected to ...

Green Duba Integrated Solar Combined Cycle Power Plant Duba ISCC Green Power Plant 1 is a large power infrastructure project taking place in the North West of Saudi Arabia, on the Red ...

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