



# The crescent dunes solar energy project

A DOE spokeswoman quoted in the E& E article said, "DOE is currently owed about \$425 million, and the settlement with the Crescent Dunes borrowers -- Tonopah Solar Energy and ACS Cobra -- if approved by the court, would resolve DOE's claims and protect taxpayers while allowing the project to continue in the private sector.

Smith expects that NV Energy, the Las Vegas-based utility contracted to buy Crescent Dunes' output, will want it mostly during the utility's unusually late demand peak, which the Vegas Strip ...

The Nevada solar-energy plant Crescent Dunes has gone under after receiving a \$737 million federal loan guarantee during the Obama Administration. Crescent Dunes, a 110-megawatt facility, was supposed to use molten salt to store heat from the sun, produce steam, and generate electricity even when the sun was not shining.

The Crescent Dunes Solar Energy Project under construction is 1,619 acres and is located within the range of the Crescent Dunes aegialian scarab and Crescent Dunes serican scarab. Construction will remove approximately 1,500 acres or 2.3 sq miles, which is 10 percent of the total range of the Crescent Dunes aegialian scarab and 11 percent of ...

Take a look inside the first commercial-scale solar energy plant to use nothing more than the sun, molten salt, and a whole lot of mirrors to send power to the people. If the Crescent Dunes Solar ...

SolarReserve, LLC today announced that construction of the 110MW Crescent Dunes Solar Energy Project located near Tonopah, Nevada, marked another major milestone by entering the plant commissioning phase. Crescent Dunes is the first utility-scale facility in the world to feature advanced molten salt power tower energy storage capabilities.

The 10,000 mirrors arrayed around the Crescent Dunes Solar Energy plant are striking and seem to suggest the concept is on a path to efficient and reliable renewable energy. But, recently, the plant's operator threw in the ...

The Crescent Dunes Solar Energy Project near Tonopah, Nevada powers up to 75,000 homes during peak electricity periods. So how does it work? The project uses 17,500 heliostat mirrors to collect and focus the sun's thermal energy to heat molten salt flowing through a 540-foot (160 m) tall solar power tower. The molten salt then circulates from the tower to a storage tank where it ...

The Crescent Dunes plant is the showcase for SolarReserve's game-changing energy storage technology--a realistic solar energy solution that operates day and night like coal, natural gas, oil ...

includes integrated solar energy storage SolarReserve solar thermal projects (CSP) can run day and night, just



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like a conventional gas, coal or nuclear facility, but without the emissions or hazardous waste that come with fossil fuels or nuclear energy. Lowest projected Levelized Cost of Energy (LCOE) of any solar thermal technology.

WASHINGTON, DC - Secretary of the Interior Ken Salazar today approved the Crescent Dunes Solar Energy Project, the ninth large-scale solar facility green-lighted as part of the administration's initiative to encourage rapid and responsible development of renewable energy on U.S. public lands. The concentrated solar power plant will produce 110 megawatts, ...

Crescent Dunes Solar Energy is an operating solar thermal farm in Nye County, Nevada, United States. Project Details Table 1: Phase-level project details for Crescent Dunes Solar Energy. Status Commissioning year Nameplate capacity Technology Owner ...

The Crescent Dunes solar plant looks like something out of a sci-fi movie. Ten thousand mirrors form a spiral almost 2 miles wide that winds around a skyscraper rising ...

The Crescent Dunes Solar Energy Project is a 110 megawatt (MW) solar thermal power project with 1.1 gigawatt-hours of energy storage, located near Tonopah, about 190 miles northwest of Las Vegas. Crescent Dunes was the first ...

The Crescent Dunes CSP project in the US was the first of a kind at 110 MW. The first tower CSP with thermal energy storage at full-scale. (Above about 150 MW, the distances of the solar field encircling the tower receiver has optical limits) It was developed by the RocketDyne-based startup SolarReserve, and secured a PPA to supply a new kind of ...

For anyone who happens to be driving by the Crescent Dunes Solar Energy Project Plant near Tonopah, Nevada, they are in for a shocking sight. They will see a massive tower with a glowing tip, surrounded by an almost 2-mile-wide circle of thousands of reflective squares. The luminous quality of the plant, coupled with its sleek design, gives it ...

SolarReserve's Crescent Dunes 110 MW project was the only Tower CSP with thermal energy storage among the first five commercial CSP projects deployed in the US. [In Tower CSP, an array of heliostats is focused on a receiver atop a tower, generating much higher temperatures than the initial form of CSP; parabolic Trough.

The Crescent Dunes Solar Energy Project began producing electricity for NV Energy in July with little fanfare after failing to turn a profit in its first four years of operation. ...

The 10,000 mirrors arrayed around the Crescent Dunes Solar Energy plant are striking and seem to suggest the concept is on a path to efficient and reliable renewable energy. But, recently, the plant's operator threw in the towel and filed for Chapter 11 bankruptcy protection. ... It will be a 200-MW solar project that includes a 75-MW/5-hour ...



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The Crescent Dunes Solar Energy Project is a 110 megawatt solar thermal power project located outside of Tonopah, in the rural deserts of Nevada. A concentrating solar power (CSP) plant with a central receiver tower and advanced molten salt energy storage technology developed by SolarReserve, Tonopah Solar Energy, LLC.

Crescent Dunes Solar Energy Project Startup energy venture company SolarReserve, created via seed funding by US Renewables Group and United Technologies, was the original owner of Tonopah Solar ...

The Department of Energy on Thursday announced a deal to recover \$200 million in taxpayer funds from Tonopah Solar Energy, a Nevada solar project that never showed a profit.

The Crescent Dunes CSP project in the US was the first of a kind: The first tower CSP with thermal energy storage at full-scale; 110 MW. (Above about 150 MW, the distances of the solar field encircling the tower receiver has optical limits) It was developed by the RocketDyne-based startup SolarReserve, and secured a PPA to supply a new kind of ...

The Crescent Dunes Solar Energy Project is a solar thermal power project with an installed capacity of 110 megawatt (MW) [4] and 1.1 gigawatt-hours of energy storage [1] located near Tonopah, about 190 miles (310 km) northwest of Las Vegas. [5] [6] Crescent Dunes is the first commercial concentrated solar power (CSP) plant with a central receiver tower and advanced ...

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