

India: UltraTech Cement has created a joint venture with Amplus Energy to expand its solar power generation capacity. The cement producer has acquired a 26% stake in ...

EU-funded researchers showcased innovative solar thermal technology that could almost halve the carbon footprint of industrial heat generation. The technology focuses the sun's beams to achieve temperatures ...

The heat of over 1,000 degrees Celsius generated by solar energy is produced in a solar thermal power plant. This reduces some of the CO<sub>2</sub> emissions that are produced when burning fossil fuels. The CO<sub>2</sub> released from the limestone ...

The solar project will reduce the cement plant's CO<sub>2</sub> emissions by 25,000 tons annually. Holcim is expected to receive about 35,000 MWh of clean power from the project per year under a Solar Equipment Service ...

The 34 MW solar PV project is expected to produce approximately 48 GWh (Gigawatt hours) annually. The output energy will be used on-site resulting in substantial ...

Lucky Cement's installed power generation capacity for self-consumption from renewable sources now stands at 39 per cent, including the 34MW solar power plant earlier ...

Introducing an innovative solar-aided power generation system that optimizes both non-concentrating and concentrating solar energy for lignite drying. This system employs ...

The objective of this study is to present a comprehensive review of wind-solar HRES from the perspectives of power architectures, mathematical modeling, power electronic converter topologies, and ...

Concrete storage has so far been designed for parabolic trough solar thermal power plants of the ANDASOL-type, using thermal oil as heat transfer fluid. So for this 50 MWe plant a concrete ...

The diversified portfolio includes solar, wind, thermal, and waste heat recovery power plants, underscoring Shree Cement's commitment to sustainable energy solutions for ...

The project will use fixed-tilt bifacial solar panels that generate power on both the front and back sides of the module. The solar project will reduce the cement plant's CO<sub>2</sub> emissions by 25,000 tons annually. Holcim is ...

A record of 2,415,102 records are the hourly total and source-specific power generation from 8 power sources (i.e., coal, gas, oil, hydro-power, solar-power, wind-power, ...

LafargeHolcim and Heliatek. In November 2017, LafargeHolcim and Heliatek presented a prototype for a new photovoltaic concrete facade system at French construction fair, Batimat. ...

The power output "may seem low compared to conventional batteries, [but] a foundation with 30-40 cubic metres (1,060-1,410 cubic feet) of concrete could be sufficient to ...

Large-scale solar concentrating technologies are already established at an industrial scale for solar power generation, for example in Spain, the US and in China. These ...

One final benefit of solar concrete is it can still generate power even with overcast skies. The solar cells in solar concrete still work at full capacity with only a limited amount of sun overhead. Solar concrete has a 10-20% ...

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