



# High-efficiency photovoltaic containers used in cement plants in Saudi Arabia





## Overview

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This review explores the potential of reusing glass waste from decommissioned photovoltaic panels in cementitious materials, highlighting improvements in durability, sustainability, and carbon footprint reduction, while emphasising the need for standardised recycling methods.

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ENGIE is a global leader in low-carbon energy solutions, operating across multiple continents and energy sectors. Al Jouf Cement Company (AJCC) manufactures cement and supports sustainable industrial development in Saudi Arabia. ENGIE and AJCC have partnered to develop a solar photovoltaic (PV).

Cement is a primary binding agent in concrete, which is extensively used in a wide range of applications such as buildings, roads, bridges, and various structural components. Its significance is underscored by the fact that concrete is the second most consumed material worldwide, following water.

But here's the kicker: less than 12% of major cement plants have adopted on-site solar solutions despite proven ROI. Wait, no – it's not just about slapping panels on roofs. The real magic happens when we align solar tech with cement production cycles. Most plants have 200-500 acres of.

Yemen: Local authorities in Hadramout have inaugurated the country's first solar facility at Arabian Yemen Cement's cement plant, a US\$11m project aimed at reducing dependence on fossil fuels and stabilising electricity supply. The facility integrates solar energy into cement production, with a.

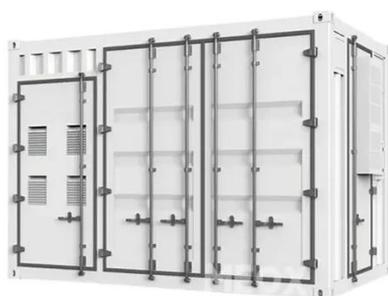
ENGIE, a global leader in low-carbon energy and services, has signed a Power



Purchase Agreement (PPA) with Al Jouf Cement Company (AJCC) to develop a 22 MWp solar photovoltaic (PV) plant AJCC's cement facility located to the south of Turaif Governorate, which is in the Northern Borders Province.



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[Engie and Al Jouf Cement Sign PPA to Build Solar Plant](#)

Spanning over 420,000 square meters, the solar PV installation is designed to meet Al Jouf Cement's specific energy needs. ...

### Engie signs 22-MW onsite solar PPA with Al Jouf Cement in Saudi Arabia

French utility group Engie SA (EPA:ENGI) has entered into a power purchase agreement (PPA) with Al Jouf Cement Company (TADAWUL:3091), or AJCC, to develop a 22 ...



[Engie and Al Jouf Cement Sign PPA to Build Solar Plant](#)

Spanning over 420,000 square meters, the solar PV installation is designed to meet Al Jouf Cement's specific energy needs. The fully integrated system will enable on-site ...



### ENGIE and Al Jouf Cement Partner on 22 MWp Solar Project to ...

Spanning over 420,000 square meters, the solar PV installation will provide efficient, on-site power generation designed to decarbonize Al Jouf Cement's operations, ...



### [ENGIE and Al Jouf Cement Partner on 22 MWp ...](#)

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### **Application of Solar Photovoltaic Power Station in Energy Saving ...**

The arrangement and selection of PV modules in the cement plant, the electrical design of PV power station, and the construction organization plan are proposed.



### **Engie signs 22-MW onsite solar PPA with Al Jouf Cement in ...**

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### [Solar Power Generation Installed on Cement Plants: The ...](#)



Solar power generation installed on cement facilities isn't just environmentally responsible - it's becoming the ultimate competitive advantage in a decarbonizing world.



### Solar power

Officials described the project as a breakthrough for Yemen, which has struggled with energy shortages and rising fuel prices. See the December issue of Global Cement ...

### [Harnessing Renewable Energy: Integrating Solar and Wind ...](#)

Explore the crucial role of renewable energy in transforming the cement industry towards sustainability. This article discusses the significant environmental impacts of ...



### From PV to cement: harnessing glass waste for sustainable ...

This review explores the potential of reusing glass waste from decommissioned photovoltaic panels in cementitious materials, highlighting improvements in durability, ...



### Design of solar cement plant for supplying thermal energy in cement



This work describes the implementation of concentrated solar energy for the calcination process in cement production. Approach used for providing solar energy includes ...



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### [ENGIE, Al Jouf Cement Launch 22MWp Solar Project](#)

The project will be built at AJCC's cement production facility in Saudi Arabia's Northern Borders Province. This region plays a strategic role in Saudi Arabia's broader ...



#### INTEGRATED DESIGN

EASY TO TRANSPORT AND INSTALL,  
FLEXIBLE DEPLOYMENT



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