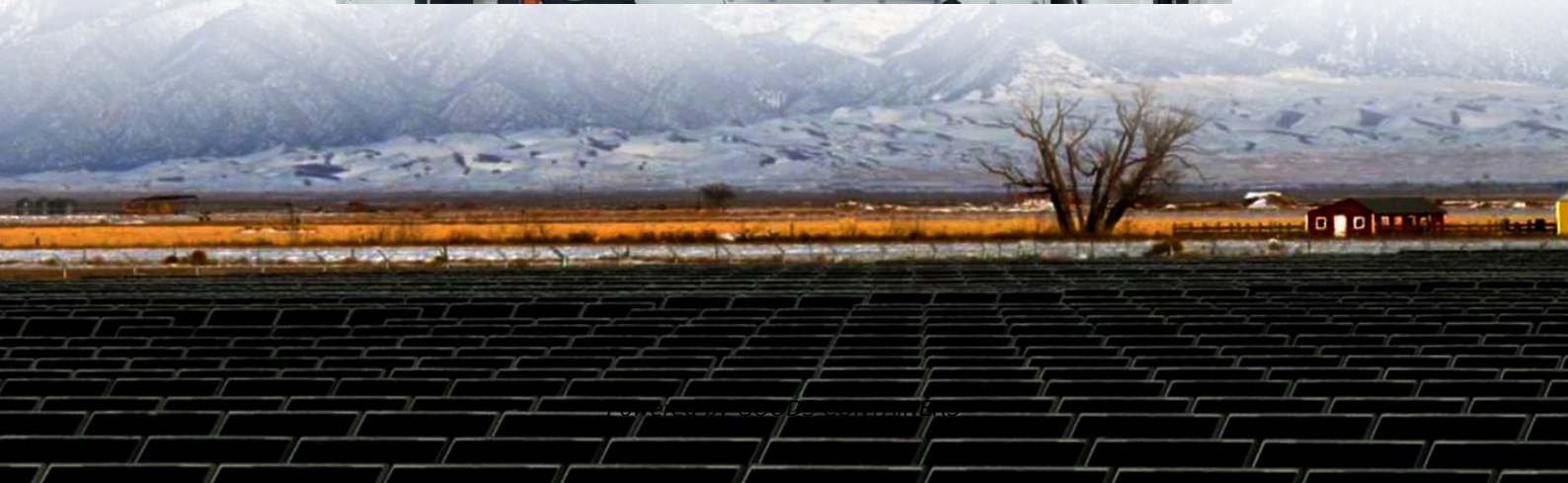


# **Riyadh solar container communication station hybrid energy expansion project**





## Overview

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Can Saudi Arabia develop a 300 MW solar power facility?

They aim to develop a 300 MW solar power facility, contributing to Saudi Arabia's renewable energy goals. This partnership focuses on developing the Rabigh 2 Solar IPP under Saudi Arabia's Vision 2030, which aims to diversify the Kingdom's energy sector.

What does the Rabigh 2 solar IPP agreement mean for Saudi Arabia?

The Rabigh 2 Solar IPP agreement underscores Saudi Arabia's commitment to expanding its renewable energy portfolio as part of its Vision 2030 goals. With a strong international partnership and an efficient solar tariff, the project will play a key role in the Kingdom's energy transition.

What is the LCOE of a CSP hybrid plant in Riyadh?

This results in a baseline LCOE of 0.177 \$/kWh for Riyadh and 0.137 \$/kWh for Tabuk. 3. The hybrid concept with a PV plant added to the CSP original baseload plant, the results show a reduction in LCOE of 18% for Riyadh and 7% for Tabuk keeping the plant capacity factor at a high 79%.

What is the capacity factor of solar storage in Riyadh?

The size of the storage is 18 h capacity. After multiple iterations to maximize the capacity factor of the plant by increasing the solar multiple, the plant capacity factor is 79% with a solar multiple of 6 (LCOE 0.177 \$/kWh). Fig. 9. Case 1: Riyadh baseline hourly generation CSP-PT SM = 6.



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