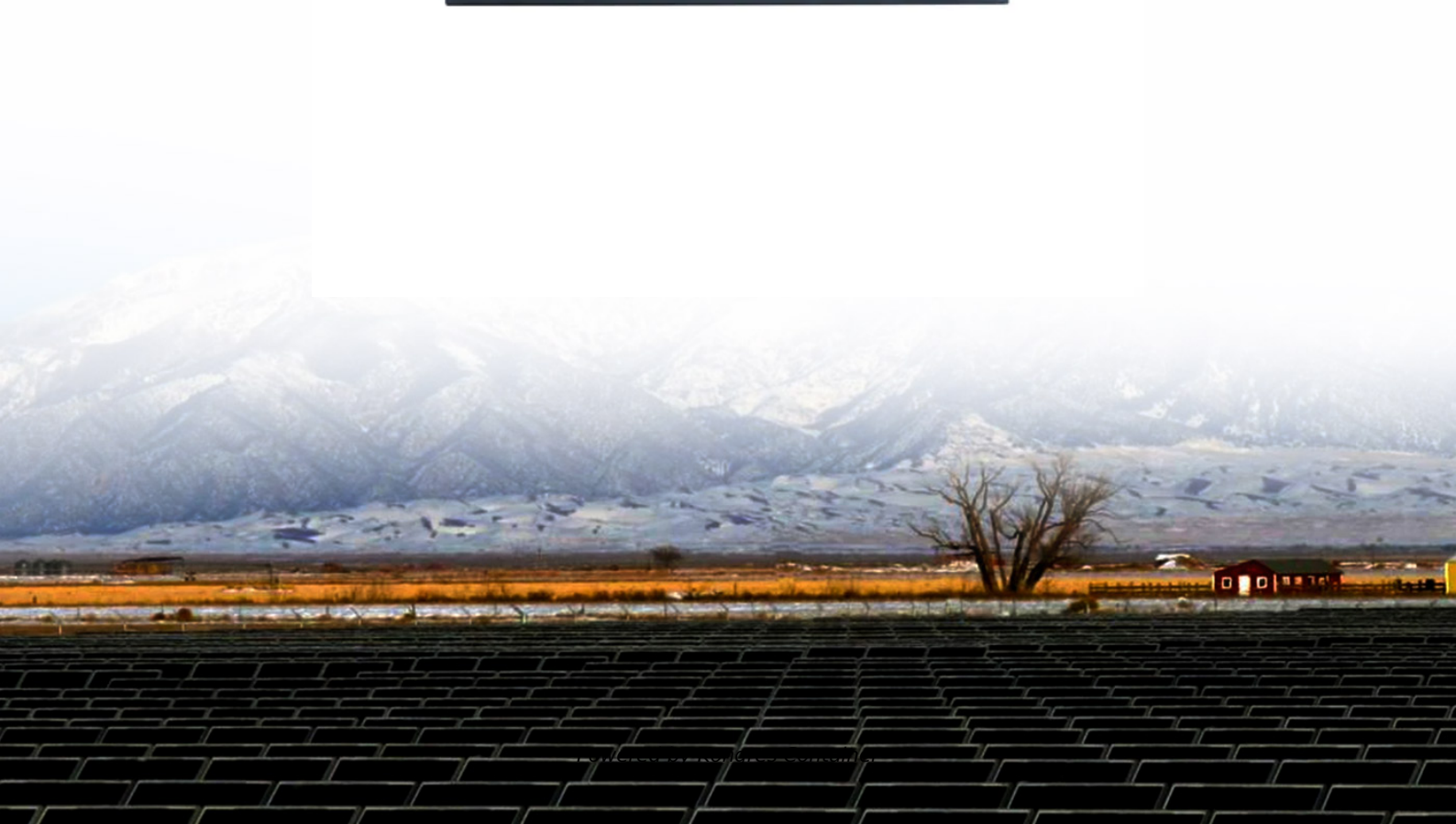


## Kongres Container

# Solar bifacial module gain coefficient



## Overview

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Why are bifacial PV modules so popular?

The extra energy gain offered by bifacial PV modules has helped make them an increasingly popular choice in the global PV industry.

What is the power bifaciality coefficient of a photovoltaic module?

In the light of the results obtained, the power bifaciality coefficient of a photovoltaic module, measured experimentally in real operating conditions and translated to STC, matches relatively well the value indicated by the manufacturer in its datasheet.

Do bifacial modules increase energy yield?

Overall, the bifacial gain ranges from 5 % to 23 % across all the modelled cases and rooftop reflectivity. This highlights the considerable potential for energy yield enhancement offered by bifacial modules. The mounting components cause a reduction in the bifacial gain potential ranging from 1 to 2 %.

Do bifacial PV systems reduce bifacial gain?

For a bifacial PV system with mounting components and 75 % reflective rooftop, a reduction in the bifacial gain of 0.9 % and 0.8 % for modules with individual optimization and modules configured in two parallel strings is observed, respectively.

Are bifacial PV modules better than monofacial solar panels?

Compared with monofacial PV modules, energy yields of around 10% higher (or even more) from bifacial modules in the field have been consistently reported by various parties [2,3]. Such increases in yield can considerably reduce the levelized cost of energy. Bifacial PV technology is not a new concept in the PV community.

What factors affect bifacial PV module energy production?

Several factors, including clearance height, module orientation and tilt angle, rooftop reflectance, and rear-side irradiance characteristics, affect the energy production of a bifacial PV module.

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