

# The use of double-sided solar panels in the Democratic Republic of Congo

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How will the DRC meet the ELEC-Tricity challenge?

The DRC aims to connect 32% of the country to electricity by 2030. Meeting this challenge will require co-ordinated efforts from various stakeholders, supportive policies and regulations, and technical assistance support to prospective projects in order to attract investments.

Is there an interconnected national power transmission network in the DRC?

There is no interconnected national power transmission network in the DRC, which is instead structured into three independent interprovincial grids. The western and southern grids are connected by a High Voltage Direct Current (HVDC) line. The eastern grid is more remote and will not be connected.

How has DRC benefited from a grant-making and concessional financing scheme?

DRC has benefited from several grant-making and concessional financing schemes that have helped to unlock private capital for the off-grid solar sector. In 2021, the Swedish investment platform (Trine) entered a partnership with Altech, a leading company in the distribution of sustainable energy products and services<sup>18</sup>.

What is the role of ANSER & ARE in the DRC?

To strengthen legal and regulatory framework and catalyze private and public investment flow to the sector (including off-grid solar energy), the DRC government established two agencies: ARE, which will be the autonomous regulatory agency; and ANSER, which is responsible for rural electrification throughout the DRC's vast territory.

Democratic Republic of Congo on Thursday signed a \$100 million solar-hybrid power deal with a consortium led by Gridworks, to provide electricity to half a million people across three cities ...

The objective is to accelerate access to energy in the DRC by highlighting the use of off-grid energy in the provinces of Kivu, Ituri and Tshopo. The funding may be extended to other areas of the ...

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DRC solar report 2025 covers solar irradiation, PV potential, grid access, and investment opportunities for renewable energy developers.

New research suggests that double-sided solar panels that can tilt to follow the Sun across the sky could massively improve efficiency and energy yield. Humankind faces an imminent ...

DR Congo wants to build a new plant that could generate three times the power from what the dam currently produces, but plans ...

Providing solar energy solutions for households and businesses is crucial to incorporating more Congolese people into ...

Providing solar energy solutions for households and businesses is crucial to incorporating more Congolese people into electrical grids, but many in poorer, remote regions ...

Could the Congo become an electricity exporter? Almost all electricity generation today comes from hydropower and the Inga project has the potential to provide much more. If network ...

In the DRC, the drive for green energy has exposed a dark underbelly of exploitation and conflict. The nation's vast mineral wealth, vital for producing batteries, solar ...

Access to electricity from solar panels remains unaffordable for many in this region due to widespread poverty, even as globally, the cost of photovoltaic solar energy declines.

Solar power, once a luxury, is now a lifeline, reviving businesses, improving security, and restoring hope to a city that has been at the heart of eastern Congo's conflict.

DR Congo wants to build a new plant that could generate three times the power from what the dam currently produces, but plans have been beset by funding challenges.

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