



Using Namibia's potential for solar energy

Solar energy, Outapi, Namibia

In Namibia, the sun shines an average of 10 hours a day – it is one of the sunniest countries on earth and therefore has enormous potential for solar energy. However, the country imports 60 percent of its electricity from neighbouring countries and 40 percent of the rural population has no access to electricity at all. In northern Namibia, a ten-hectare solar energy farm produces 9,000 MWh of energy per year.

Producing power since July 2018, it was developed with the support of ClimatePartner. The project contributes to increasing the share of renewable energies in Namibia's electricity mix to increase and improve the national and regional power supply.

How does solar energy help fight global warming?

Since energy from solar panels is created without burning fossil fuels, it is considered emission-free. The growth of renewable energy production is essential to prevent global warming and secure energy supplies for the future. The amount of emissions saved by a solar energy project is calculated using the baseline method: how much CO₂ would be released by generating the same amount of energy using standard energy production methods for the region?



Contribution to the UN Sustainable Development Goals (SDGs)

SDG 1 · No Poverty

10 percent of the shares are donated to Outapi Community Trust - an organization that helps provide better medication and expansion of schools.

SDG 4 · Quality Education

Renovation of local schools. Among other things new sanitary facilities were installed.

SDG 7 · Affordable and Clean Energy

Every year, it feeds 9,425 MWh of energy into Namibia's grid, helping to make the country independent of energy imports and improve electricity supply.

SDG 8 · Decent Work and Economic Growth

The power plant has created new jobs. Local companies benefit from improved energy supply.

SDG 13 · Climate Action

The project saves an average of tonnes of 9,300 CO₂ emissions per year.



Project standard

Verified Carbon Standard (VCS)

Technology

Solar energy

Region

Outapi, Namibia

Annual volume

9,500 t CO₂e

Validated by

TÜV NORD CERT GmbH

Verified by

TÜV NORD CERT GmbH

Further information

www.climatepartner.com/1094