

## SolarTech Power Solutions

# Large monomer for outdoor power supply in Cote d Ivoire



### **RW-F10.2**

UN38.3 / IEC62619 / CE  
CEI 0-21 / VDE2510-50  
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## Overview

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Does Côte d'Ivoire export electricity?

Côte d'Ivoire is the third largest electricity market in West Africa and has historically been a net exporter of electricity with 11.8% of its total electricity generation sold to Mali, Burkina Faso, and Ghana in 2019 (ANARE-CI, 2020).

2.1.2. Future cost assumptions Fig. 2 presents the long-term cost assumption for our analysis.

Will Côte d'Ivoire have a solar power plant?

The solar power plant is then expected to be the largest in West Africa. The further expansion of solar energy in Côte d'Ivoire will primarily be realised by private investors. The successful project in Boundiali demonstrates to them that large solar projects are technically and financially feasible in similar countries.

Will Côte d'Ivoire have a coal-fired power plant?

These aspects are left for further research. This coal-fired power plant is expected to be the first ever built in Côte d'Ivoire. Note that the implicit price of carbon for the other scenarios is not worth studying because they show CO<sub>2</sub> emissions in 2050 below the Paris Agreement target.

Where does electricity come from in Côte d'Ivoire?

As natural gas is the main source of electricity production in Côte d'Ivoire to date, we pay particular attention to its modeling. Its supply comes either from national gas reserves, via the West Africa Sub-Regional Gas Pipeline (WAGP), or from international gas reserves in the form of liquefied natural gas (LNG).

How will a new solar power plant benefit Côte d'Ivoire?

The clean electricity generated in this way can supply 35,000 households, benefiting around 150,000 people. The new plant will save 35,000 tonnes of greenhouse gas emissions every year - an important contribution to climate

protection. The solar power plant is regarded as a model project for the expansion of solar energy in Côte d'Ivoire.

Should Côte d'Ivoire use natural gas?

As previously states, natural gas has the advantage of a well-structured and familiar decision-making process and value chain in Côte d'Ivoire. As suggested by Fig. 14, if we compare the UGEM to the UGEM 60gas, gas would take the place of solar and partly of coal, which would further reduce the total capacity to install.

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