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Côte d Ivoire Energy Storage Charging Station Parameters

Overview

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.

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).

Does Côte d'Ivoire have a commitment to green energy?

According to its National Determined Contribution (NDC) of 2015, the share of green energy in the electricity mix is expected to reach 42% and greenhouse gas (GHG) emissions from this sector are not expected to exceed 9.2 Gt of CO 2 eq in 2030. 2 To date, Côte d’Ivoire has not made any other quantitative commitment beyond 2030.

How much energy does Côte d'Ivoire consume per capita?

In the same period, annual consumption per capita went from 174 KWh to 277 KWh (AIE, 2014; A NARE-CI, 2017). However, as of 2014, per capita consumption in Côte d’Ivoire is 43% lower than the average for sub-Saharan Africa and 91% lower than the world average.

How much gas does Côte d'Ivoire have?

According to CIA (2020); Foxtrot international, 2007; IEA (2020), Côte d’Ivoire has 28.32 billion cubic meters of remaining gas reserves located in the southern part of the country. Most of this gas is used by the electricity sector.

However, at the current rate of exploitation, the existing gas deposits could be exhausted by 2030.

What is the system operation strategy for optical storage and charging integrated charging stations?

In this paper, a system operation strategy is formulated for the optical storage and charging integrated charging station, and an ESS capacity allocation method is proposed that considers the peak and valley tariff mechanism.

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