

Off-grid solar system in Somaliland





Overview

Does Somalia have a national grid?

The country does not have a national grid, relying on outdated, costly and inefficient diesel generators. The energy consumption in Somalia is dependent on firewood and charcoal, dependencies that rely on deforestation and desertification, which negatively influence the agricultural sector and also the environment.

Can solar power be used in Somalia?

The energy consumption in Somalia is dependent on firewood and charcoal, dependencies that rely on deforestation and desertification, which negatively influence the agricultural sector and also the environment. In this work, the potential of solar power in Somalia is assessed while estimating the cost of solar panels per household.

Why is solar energy so high in Somalia?

The daily average total solar radiation in parts of Somalia, calculated from the relative sunshine duration indicates one of the highest in the world. The solar energy higher insolation and others with less insolation. This means that a Photovoltaic panel gives almost the same energy regardless of the place or angle of installation.

Where can I find solar radiation data in Somalia?

The solar radiation data can be directly accessed from the NASA Surface Meteorology and Solar Energy website by inserting the location's coordinates. The data obtained consists of daily solar radiation, clearness index and air temperature. Somalia enjoys bright sunshine throughout the year. The average daily solar



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