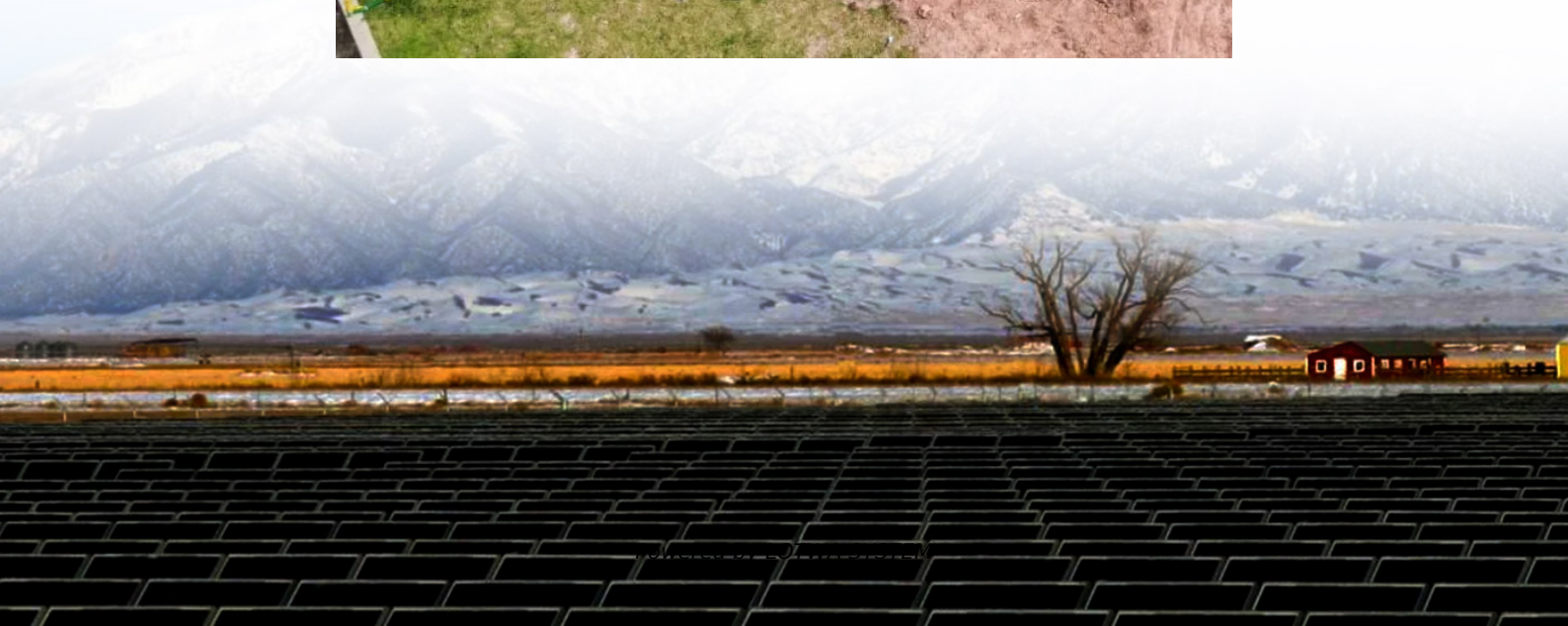


Wind and solar energy storage in Lagos Nigeria





Overview

How can Lagos improve its energy supply & demand?

Commissioned by C40 Cities, Arup conducted an extensive study reviewing Lagos's current energy supply and demand, its projected future needs, and the potential of various renewable technologies. We recommended a suite of measures, including localised solar power generation, energy efficiency improvements, and battery storage solutions.

How much electricity does Lagos have?

Home to 18 million residents, Lagos has only 850-1,000 MW of installed capacity serving the national grid, which meets just 10% of the city's electricity demand. The remaining demand is being met by fossil-fuel generators, firewood, or individual renewable energy systems - such as solar panels and biofuel.

Could solar photovoltaics meet 66% of Lagos's energy demand?

Solar photovoltaics combined with battery storage could meet 66% of Lagos's projected 2050 energy demand without significant infrastructure upgrades. Commissioned by C40 Cities, Arup conducted an extensive study reviewing Lagos's current energy supply and demand, its projected future needs, and the potential of various renewable technologies.

How much energy will Lagos generate by 2050?

The study estimated a total local renewable energy generation potential of 25 GW by 2050 - primarily from solar power. Solar photovoltaics combined with battery storage could meet 66% of Lagos's projected 2050 energy demand without significant infrastructure upgrades.



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