

Cote d ivoire microgrid benefits

This paper studies the feasibility of mini-grids based on renewable energies in Cote d'Ivoire, and then also studies the technico-economic potential and the most suitable configurations in the various scenarios simulated with the software HOMER.

Cote d'Ivoire has signed the Paris Agreement that aims to achieve a balance between anthropogenic emissions by sources, including electricity, and absorption by sinks of greenhouse gases in the second half of the century.

Whereas only 34% of Ivorians had access to electricity back in 2013 when the post-electoral crisis triggered a 40% decline, close to 94% of Ivorians are now connected to the grid and the most destitute customers benefit from a subsidized rate.

Mini-grids are small self-sufficient electricity grids that connect communities who have not been reached by the main grid. They are not a new technology. In fact, the first grids were...

Based on annual electricity demand of 148.70 kWh per capita, a tariff of \$0.4 / kWh gives an average annual electricity expenditure of USD \$59.48 per capita: an overall annual mini-grid market size of \$27.5m given a mini-grid population of 462,000. A summary of these four market size estimates is shown in Table 10.

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Mini-grids may finally be ready to change the world. But the small, self-sufficient electricity grids that connect communities who have not been reached by the main grid are not a new technology. In fact, the first grids were mini-grids. Edison and Tesla changed the world when they pioneered electrification with small privately-run grids, but eventually, the cheaper cost of large centralized grids quickly relegated mini-grids to a footnote in history.

See also: Renewable Energy Provides Growing Source Of Skilled Jobs For Africa And Asia

Now electrification is coming full circle. Due to the declining cost of solar and storage, mini-grids have fallen dramatically in cost and they may change the world again. A recent World Bank report found that mini-grid



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capital costs in Africa have declined by over 50% in the last 8 years, as "the costs of key mini-grid components, such as solar panels, inverters, batteries, and smart meters, have decreased by 62%-85% as a result of innovations and economies of scale in utility-scale solar projects, the booming rooftop solar industry, and the growing electric vehicle market". Recent analysis has shown that these decreased costs mean that mini-grids are now the lowest cost way of providing power to at least 100 million people living off-grid in Africa.

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