Aloe Energy

COUNTRY BRIEF · NOVEMBER 2026

Ghana: grid and electricity access

Mission 300 compact country

13 M
people live without night-time light, a proxy for no power

99%
of them live within 15 km of a power line

25,300
km of mapped and predicted power lines, all voltages

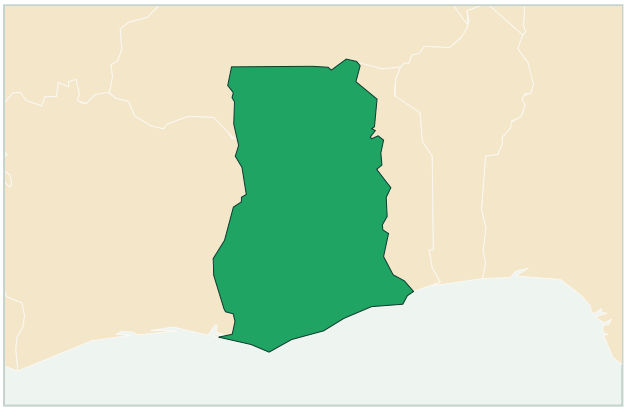
89%
electricity access, as stated in the compact (2024)

99%
access target in the Mission 300 compact (2030)

About 13 million people in Ghana live where satellites see no electric light at night, and 99% of them live within 15 km of a power line. This page brings together what our grid-edge screening and Ghana's Mission 300 energy compact say about who still needs power, how close the grid is and what the country has committed to.

WHAT THIS MEANS

6.0 million people without power live 2 to 15 km from a line: close enough to plan for the grid, too far for a quick connection.



NEAR THE GRID, NOT ON IT

About 13 million people in Ghana, roughly 43% of the population, live where satellites see no electric light at night. Of them, 99% live within 15 km of a mapped or predicted power line: 7.0 million within 2 km, 6.0 million 2 to 15 km away, and 117,000 farther out. The largest group lives within 2 km of a line, so the main gap is last-mile connections and affordability, more than new lines.



Within 2 km of a line: **7.0 million** (54%)
2 to 15 km: **6.0 million** (46%)
More than 15 km: **117,000** (1%)

"Without night-time light" is a satellite proxy, not a measured access rate.

THE GRID TODAY

Gridfinder, which combines OpenStreetMap lines with medium-voltage lines predicted from night-time lights, maps about 25,264 km of existing and likely power lines in Ghana. That includes lower-voltage distribution lines, so it is not comparable with the high-voltage totals on our grid-atlas country pages. We have not yet built a detailed grid atlas for this country.

People without night-time light, by distance to a line

Distance	Million people	Share
Within 2 km of a line	7.04	54%
2 to 15 km	5.98	46%
More than 15 km	0.12	1%
Total	**13.13**	**100%**

MISSION 300 COMPACT

Ghana's Mission 300 energy compact commits to raising electricity access from 89% to 99% by 2030. New access is planned as 73% grid, 27% mini-grids and 0% standalone solar.

Electricity access

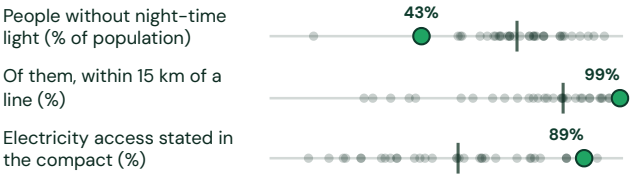


Now: **89%** (2024) Target: **99%** (2030)

Mission 300 energy compact

Commitment	Value
Planned split of new access	grid 73%, mini-grids 27%, standalone solar 0%
Clean cooking target	from 37% to 50% by 2030
Private investment sought	US$2 billion
Rules for mini-grids when the grid arrives	Yes
E-waste commitment	No

HOW IT COMPARES



Each dot is one country with a page on aloeenergy.org; the line marks the median. Positions only, no ranking.

Sources: People and distance to the grid: WorldPop 2020 and gridfinder (CC BY 4.0); compact: the national Mission 300 energy compact.

Aloe Energy

The full page, with the interactive atlas, is at aloeenergy.org/countries/ghana. The maps are free to view; the data behind them is available on request: brandon@aloeenergy.org. Aloe Energy is a not-for-profit initiative working at the grid edge in Sub-Saharan Africa.

Scan for the live page and map

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