Aloe Energy

COUNTRY BRIEF · NOVEMBER 2026

Benin: grid and electricity access

Mission 300 compact country

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

96%
of them live within 15 km of a power line

7,200
km of mapped and predicted power lines, all voltages

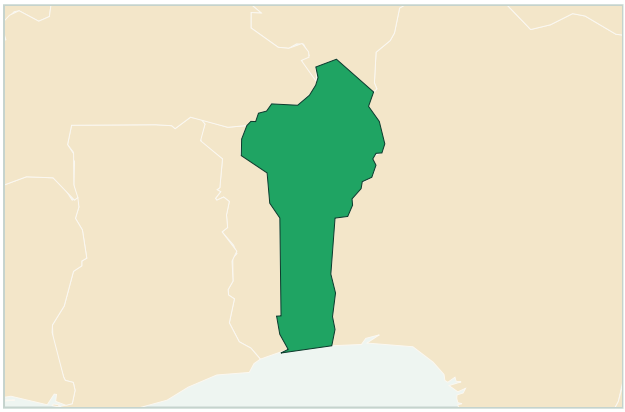
43%
electricity access, as stated in the compact (2024)

70%
access target in the Mission 300 compact (2030)

About 8.2 million people in Benin live where satellites see no electric light at night, and 96% of them live within 15 km of a power line. This page brings together what our grid-edge screening and Benin'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

To reach 70% electricity access by 2030, Benin needs to add about 5 percentage points a year from 2024: from 43% today.



NEAR THE GRID, NOT ON IT

About 8.2 million people in Benin, roughly 68% of the population, live where satellites see no electric light at night. Of them, 96% live within 15 km of a mapped or predicted power line: 3.4 million within 2 km, 4.5 million 2 to 15 km away, and 314,000 farther out. The largest group lives 2 to 15 km out: close enough to plan for the grid, too far for a quick connection. That is where mini-grids built to join the grid later can do the most good.



Within 2 km of a line: **3.4 million** (41%)
2 to 15 km: **4.5 million** (55%)
More than 15 km: **314,000** (4%)

"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 7,194 km of existing and likely power lines in Benin. 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.

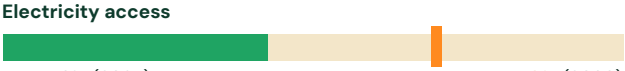
People without night-time light, by distance to a line

Distance	Million people	Share
Within 2 km of a line	3.37	41%
2 to 15 km	4.48	55%
More than 15 km	0.31	4%
Total	**8.17**	**100%**

MISSION 300 COMPACT

Benin's Mission 300 energy compact commits to raising electricity access from 43% to 70% by 2030. New access is planned as 84% grid, 10% mini-grids and 7% standalone solar.

Electricity access

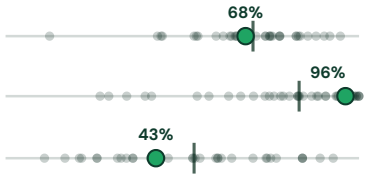


Now: **43%** (2024) Target: **70%** (2030)

Mission 300 energy compact

Commitment	Value
Planned split of new access	grid 84%, mini-grids 10%, standalone solar 7%
Clean cooking target	from 10% to 50% by 2030
Rules for mini-grids when the grid arrives	Yes
E-waste commitment	Yes

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/benin. 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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