

## Solar pv addis ababa

Ethiopia experiences ample sunshine, with regions like Addis Ababa receiving approximately 2,665 hours of sunshine per year, Dire Dawa around 2,811 hours, and Oromiya and Southern Nations, Nationalities, and Peoples' Region (SNNPR) about 2,336 hours annually. 1 Addis Ababa, in particular, enjoys between 8.1 to 9.8 hours of sunshine per day. 2

In December 2023, the average cost of electricity in Ethiopia was \$0.006 per kWh for households and \$0.021 per kWh for businesses. This cost is considerably lower than the global average during the same period. 4

Despite ongoing efforts to modernize the electrical grid, only about 32% of Ethiopian households have access to electricity.5 The grid faces challenges in terms of reliability and accessibility, particularly in the capital, Addis Ababa. Unreliability leads to power wastage, disruptions, and outages, affecting both residential and industrial consumers. Rehabilitation projects are underway to enhance grid stability and reduce power wastage. 6

The average monthly power outage in Ethiopia occurs 8.2 times, each lasting for approximately 5.8 hours. Addis Ababa experiences shorter interruptions, averaging between 1 to 9 minutes per day. However, rolling blackouts remain a concern. 14

Data on wages in the Ethiopian solar industry is limited due to its early stage of development. However, average monthly salaries in Ethiopia range from \$100 to \$300 24. People working in Electrical & Power Engineering in Ethiopia earn between \$55 to \$159, while those in Assembler Production earn between \$49 to \$100 per month.25

**Electricity Generation:** Ethiopia relies heavily on hydropower for electricity generation, with the Grand Ethiopian Renaissance Dam (GERD) being a significant project. There are efforts to diversify the energy mix with solar, wind, geothermal, and biomass. 30

**Transmission & Distribution:** Ethiopian Electric Power (EEP) manages the national power grid, operating high-voltage transmission lines and substations30. The Ethiopian Electric Utility (EEU) handles electricity distribution to customers. 31

**Grid Infrastructure:** The transmission network spans over 20,000 kilometers. However, the system faces challenges with outdated systems, particularly in rural areas, hindering reliability.32

**Private Sector Participation:** Since 2017, Independent Power Producers (IPPs) have been allowed to construct and operate power plants for the national grid, diversifying energy supply.32



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