



# Solar energy storage port-au-prince

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The Project aims to develop 22 community-scale solar plus battery storage micro-grids in southern Haiti in communities where currently no grid power exists. The Project will provide affordable and reliable 24/7 access to modern energy services in communities previously identified through extensive market scoping in this region of the country. This will be accompanied by technical assistance to build capacity for microgrid deployment and operation. The Project incorporates a battery storage solution, thus offering 24-hour service and a 100 per cent renewable energy- based viable economic alternative to diesel generators.

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Haiti faces significant challenges in generating and distributing energy reliably, and lack of access to affordable and reliable power significantly hinders investment and business development. The majority of electricity is produced using imported fossil fuels. The government is exploring various avenues to lower costs and promote more efficient generation, distribution, and usage of electricity. Prospects for renewables such as solar, wind, small hydropower, and biomass systems - as well as digital solutions, such as smart grid technologies - make Haiti a potential energy market opportunity, but these systems have not yet been developed for large-scale use.

While an older hydropower plant is providing renewable energy, the poorest Haitians rely on biomass such as charcoal and wood as their main source of energy for light and cooking. The annual consumption of wood products was estimated at 4 million metric tons (MT), of which about one-third is transformed into charcoal to meet the cooking fuel needs of urban consumers. Wood and charcoal usage contribute to deforestation and pollution problems.

The government has faced consistent problems maintaining equipment and generating and distributing power throughout the country. Even for those with access to electricity, reliability is inconsistent, leading many businesses and larger households to install diesel generators. The lack of access to affordable and reliable power hinders investment, constrains the development of productive businesses, and degrades living standards for residential customers. Multinational businesses have also expressed dissatisfaction at the expensive energy rates in the commercial and industrial sectors, compared to other countries in the Caribbean and Latin America.

On average consumption is 21 Kilowatts (kW) per person annually, although the Ministry of Public Works estimates that consumption might be higher if illegal connections were included. Poor billing practices and unpaid invoices, including from government offices, also result in consistent shortfalls for the company, which



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operates at a loss. EDH's latest recovery rate is estimated at 50 percent, with \$163 million (22 billion gourdes) of accumulated debt over a 10-year period with its customers. According to information provided in 2021 from the Commercial Directorate of EDH, the government subsidizes the utility with approximately \$250 million annually.

At the same time, the government has taken measures that have limited the effectiveness and ability of independent power producers to operate. In October 2019, the Haitian Council of Ministers issued a resolution instructing the Ministry of Finance to suspend payments to three named independent power producers related to the execution of power purchase agreements between the Government of Haiti and the power producers, and by the end of November 2019, two of those companies were no longer actively operating as independent power producers. Availability of electricity on the Port-au-Prince metropolitan grid fell by nearly half as a result.

In April 2023, EDH workers at the Peligre hydroelectric dam started a three-week strike over five months of unpaid salary arrears which led to a Port-au-Prince wide black out. Peligre is critical infrastructure in terms of Port-au-Prince electricity production since E-power, the only other metropolitan electricity producer, is reliant on Peligre's operations. The strike ended following a temporary agreement between workers and the government but started again in June for a few weeks.

In September 2023, EDH announced a revision in its tariffication. The kilowatt per hour price is increasing from 9.57 gourdes to 22.30 gourdes for residential area (\$0.07 cents to \$0.17 cents), 13.67 gourdes to 31.84 gourdes for commercial area (\$0.10 cents to \$0.23cents) and 13.97 gourdes to 32.41 gourdes for industrial area (\$0.10 cents to \$0.24 cents). These increases make electricity rates in Haiti higher than the average in the region.

Haiti's energy regulator ANARSE launched prequalification rounds to identify potential concessionaires for several regional electricity grids, including production, transmission, and distribution, in late 2020 and 2021. During 2020, ANARSE also assisted EDH with a procurement tender for the installation and operation of several hundred thousand prepaid smart meters for the metropolitan area and rural areas. Haiti's largest electricity grid is the Port-au-Prince metropolitan grid. Some towns, such as Fort-Liberté in the northeast, have an electricity distribution network, but have been effectively abandoned by the national utility EDH. Users thus have to rely entirely on small, privately owned generators to meet their electricity demand.

Haiti's relatively underdeveloped electricity grid means it can integrate renewable energy into its energy supply. According to the World Watch Institute study in 2014, Lake Azu?i in the country has potential that makes it the most attractive wind site in Haiti.

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