

Liberia Energy Sector Overview

The Government of Liberia is working closely with development partners to undertake ambitious steps to rebuild its electricity infrastructure. The civil war, which ended in 2003, destroyed nearly all of the country's ability to provide electricity for its over four million people.

Unemployment and extreme poverty are pervasive in Liberia. The latest challenges presented by the Ebola crisis provide even more reason for Power Africa to continue to address the country's energy deficit.

Liberia has one of the lowest electricity access rates in the world at less than 2%. In the capital city of Monrovia, only 6.7% of the population has access to electricity. And Monrovia's grid is largely supplied by expensive diesel-fueled generation resources. Less than 23 megawatts (MW) of Liberia's on-grid installed generation operate on a daily basis and, therefore, larger facilities such as hotels, restaurants and office buildings self-generate electricity at their premises at levels estimated to be ten times greater than the existing installed generation capacity.

By 2030, the Government of Liberia aims to connect 70% of Monrovia to the electricity grid and provide access to 35% of the rest of the country, or the equivalent of over one million new connections and a peak load over 300 MW. As the critical next step, Liberia, with development partner support, is rebuilding the Mt. Coffee hydropower plant. The first turbine of the plant comes online by the end of 2016 with 20 MW and thermal generation capacity of 30 MW, and the remaining three turbines will be online at the end of 2017. Subsequently, by the rainy season of 2018, the nominal capacity will be at least 80 MW from the Mt Coffee plant. In addition, thermal generation capacity will be 48 MW.

Liberia

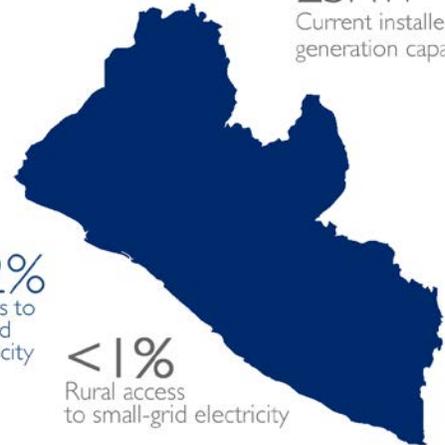
Electricity Profile

23MW

Current installed generation capacity

<2%
Access to on-grid electricity

<1%
Rural access to small-grid electricity



Power Africa Support

Power Africa's engagement in Liberia is rooted in an agreement between the Millennium Challenge Corporation (MCC) and the Government of Liberia, signed in November 2015. The [\\$257 million power and roads sector compact](#) includes funding for the rehabilitation of the Mt. Coffee Hydroelectric Plant, development of a training center for technicians in the electricity sector, support for the creation of an independent energy sector regulator and support for the development of a nationwide road maintenance framework. Through USAID, Power Africa is providing complementary support to improve the operations of the utility and sector governance.



Power Africa is simultaneously increasing access in rural communities and testing models for private sector participation in renewable energy. Through four pilot projects, Power Africa is investing in biomass, solar, and mini-hydro in Bong, Lofa, and Nimba Counties. To strengthen Liberia's capacity for wide-scale yet sustainable electrification, Power Africa is also building the capacity of the Rural and Renewable Energy Agency.

Amidst these ongoing efforts, Power Africa recognized the critical role power would play in stemming the Ebola epidemic, and worked quickly to provide emergency generators for Ebola Treatment Units. Within two weeks, Power Africa generators were supplying light and power, supporting life-saving treatment, and reducing the risk of further disease transmission by allowing healthcare workers to clean their clothes and equipment.

About Power Africa

Power Africa is a U.S. Government-led initiative launched by President Obama in 2013. Power Africa's goals are to increase electricity access in sub-Saharan Africa by adding more than 30,000 megawatts of cleaner, more efficient electricity generation capacity and 60 million new home and business connections.

Power Africa works with African governments and private sector partners to remove barriers that impede sustainable energy development in sub-Saharan Africa and to unlock the substantial wind, solar, hydropower, natural gas, biomass, and geothermal resources on the continent.

Mobilizing Partnerships & Investments

Power Africa draws on the combined expertise and abilities of 12 U.S. Government agencies, the World Bank Group, the African Development Bank, the Government of Sweden, the Government of Norway, the Government of Canada, the UK Department for International Development, the European Union, the International Renewable Energy Agency, African governments, and private sector partners. Power Africa's "Toolbox" approach offers a range of resources to advance key projects on the electricity grid and, through the *Beyond the Grid* sub-initiative, in places where the national grid doesn't reach.

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