



# Grid solution Haiti

Can a mesh grid be financially sustainable?

The initial pilot installed by Alina Eneji in the Marchand Dessalines area of Haiti indicates that at scale, a mesh grid can be financially sustainable with a grant to developers of \$350/household, a savings of at least \$500 on a conventional mini-grids.

What is a mesh grid?

Mesh grids combine the simplicity and ease of use of solar home systems, with the resilience of a grid, and the long-term customer service of a utility. 1,000 households and businesses in the pilot were installed and working within six weeks of the equipment reaching Haiti.

Are mini-grids financially viable?

Mini-grids on the other hand can supply large amounts of power, but for rural areas where average household consumption is less than 5kWh/month, they are expensive and require subsidies of around \$1,000 per connection to make them financially viable.

Dulagon is a remote rural village in the Artibonite department of Haiti; a country with a ~46% electrification rate. Previously, 30 households in Dulagon had been electrified by Alina Eneji using Okra's mesh-grid technology.

As an island nation with an evolving yet vulnerable power grid, Haiti must strategically integrate resilience into its energy system planning. Leveraging investments in ...

One solution to help address energy poverty in Haiti has been the development of distributed solar, particularly solar mini-grids. However, often the land well suited for deploying solar generation is also well suited for ...

Mesh grids present a faster, more cost-effective way to provide electricity in the country, meaning Haiti could be at the leading edge of the grid of the future. Together, we are installing mesh grid technology which functions as a decentralised minigrid where houses are interconnected in clusters.

Our solar solutions enable families to reduce their energy bills, access reliable electricity, and contribute to a cleaner environment. We offer tailored installations to meet the unique needs of each household, fostering energy independence and economic stability.

After more than 10 years of advancing microgrids in Haiti, EarthSpark has launched Participant Power, a microgrid development company, to accelerate service expansion. The company, owned by EarthSpark and other social impact investors, allows EarthSpark to invite different kinds of funders to support the scale-up of solar-powered microgrids in ...

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To support electrification planning and energy access in Haiti, NREL worked with USAID, the Université d'Etat d'Haiti Faculté des Sciences (State University of Haiti Faculty of Sciences), and other stakeholders to develop an 11-module training curriculum for off-grid solar in Haiti.

One solution to help address energy poverty in Haiti has been the development of distributed solar, particularly solar mini-grids. However, often the land well suited for deploying solar generation is also well suited for agriculture by smallholder farmers, thereby creating a potentially complicated tension between energy access and food security.

As an island nation with an evolving yet vulnerable power grid, Haiti must strategically integrate resilience into its energy system planning. Leveraging investments in renewables, distributed energy resources, and energy storage is key to improving the resiliency and security of Haiti's power system and electricity supply.

NREL and USAID are helping Haiti improve access to affordable and reliable energy by deploying advanced energy technologies, particularly minigrids. This collaboration will enable ...

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NREL and USAID are helping Haiti improve access to affordable and reliable energy to by deploying advanced energy technologies, particularly minigrids. This collaboration will enable broader energy sector planning and policymaking in Haiti.

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