



# Off-grid systems guyana

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Guyana has approximately 218 Hinterland communities with a total population of 98,500 people which are off-grid (i.e., outside of the 12 public grids). Most of those villages are in remote areas, difficult to reach by road, and in many cases only accessible by boat. The cost of diesel in off-grid villages can be up to three times the cost in Georgetown. Since 2012, through different programmes, the Government has provided Solar Home Systems for households, and small solar PV systems for schools, public buildings, and water pumps. These have included:

Other work is in progress:

The learnings during the implementation of those solar PV projects in the Hinterland will support the development of a larger programme to electrify all Hinterland villages. The electrification will be with the most technical and economically feasible solution (interconnection to a larger grid, solar PV and/or mini-hydro). The programme will include the enhancement of the productive usage of the energy to increase the longterm sustainability of the mini-grids. It is estimated such a programme would cost US\$313 million and could be implemented between 2023-2028. Work has now commenced on how to fund this programme including through the emerging carbon markets to support off-grid renewable energy.

economically, environmentally and socially sustainable - for all in Guyana

Solar Direct offers the most flexible off-grid and hybrid Solar PV systems on the Guyana market to meet the budget and needs of our clients. No job is too small or too big for us as we cater for both residential and commercial applications.

We currently offer three solar power packages and can also customise systems specifically for you! Contact us here for more details.

Our Solar Power (PV) systems are made up of components of the highest quality. More information on some of the components can be seen below.

All our Solar Panels are made from monocrystalline silicon, which make them the most efficient and highest quality of solar panels on the market available today. The junction box located behind the panel for connectivity offers IP67 level of protection which ensures our panels stand up to the toughest of conditions to give you maximum returns for your investment.

Our lead-acid, AGM, deep-cycle batteries are maintenance free and specifically designed to be used with solar



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PV systems to provide high discharge performance and the longest life cycle on the market of up to 10 years.

Our batteries range from sizes 110AH to up to 250 AH to cater for even the biggest projects!

They're Here!: Solar Direct Lithium-Ion Batteries

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