SolarInnovate Energy Solutions

Guyana Communication Base Station Energy Management System Installation Process

Overview

What resources are available in Guyana?

In Guyana, solar energy, wind and hydropower are good complementary resources. Solar energy is available during daylight hours, peaking at noon, while wind is stronger during evening hours and at nights. Wind is lower during the wet seasons, while hydropower is fully available.

Can hydropower provide Guyana with utility-scale and small-scale capacity?

Hydropower has the potential to provide Guyana with both utility-scale and small-scale capacity. Small-scale is discussed under “Isolated Grids” below. Guyana has a potential for 8.5 Gigawatt (GW) of hydropower on 33 hydropower plants (including storage capacity and run-of-river).

How will GPL power the DBIS?

Today, almost 100 percent of the power supplied by GPL on the DBIS comes from Heavy Fuel Oil and diesel. In the short term, these sources will be largely displaced by natural gas which will provide the needed firm capacity at a significantly lower generation cost compared to the other indigenous renewable energy options available in Guyana.

What is a small-scale hydropower project in Guyana?

Small-scale is discussed under “Isolated Grids” below. Guyana has a potential for 8.5 Gigawatt (GW) of hydropower on 33 hydropower plants (including storage capacity and run-of-river). It is anticipated that Guyana will build two hydro plants over the next 20 years: Amaila Falls and another which is still to be identified.

Why is hydro important in Guyana?

Within the renewable energy resources available in Guyana, hydro will be important to provide firm capacity and short-term energy storage to compensate for daily and weekly fluctuations form solar and wind. Hydro will

also provide, in the long-term, a cheaper solution than any other technology, due to its long lifespan.

Is hydropower a good alternative to solar energy in Guyana?

Hydro will also provide, in the long-term, a cheaper solution than any other technology, due to its long lifespan. In Guyana, solar energy, wind and hydropower are good complementary resources. Solar energy is available during daylight hours, peaking at noon, while wind is stronger during evening hours and at nights.

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