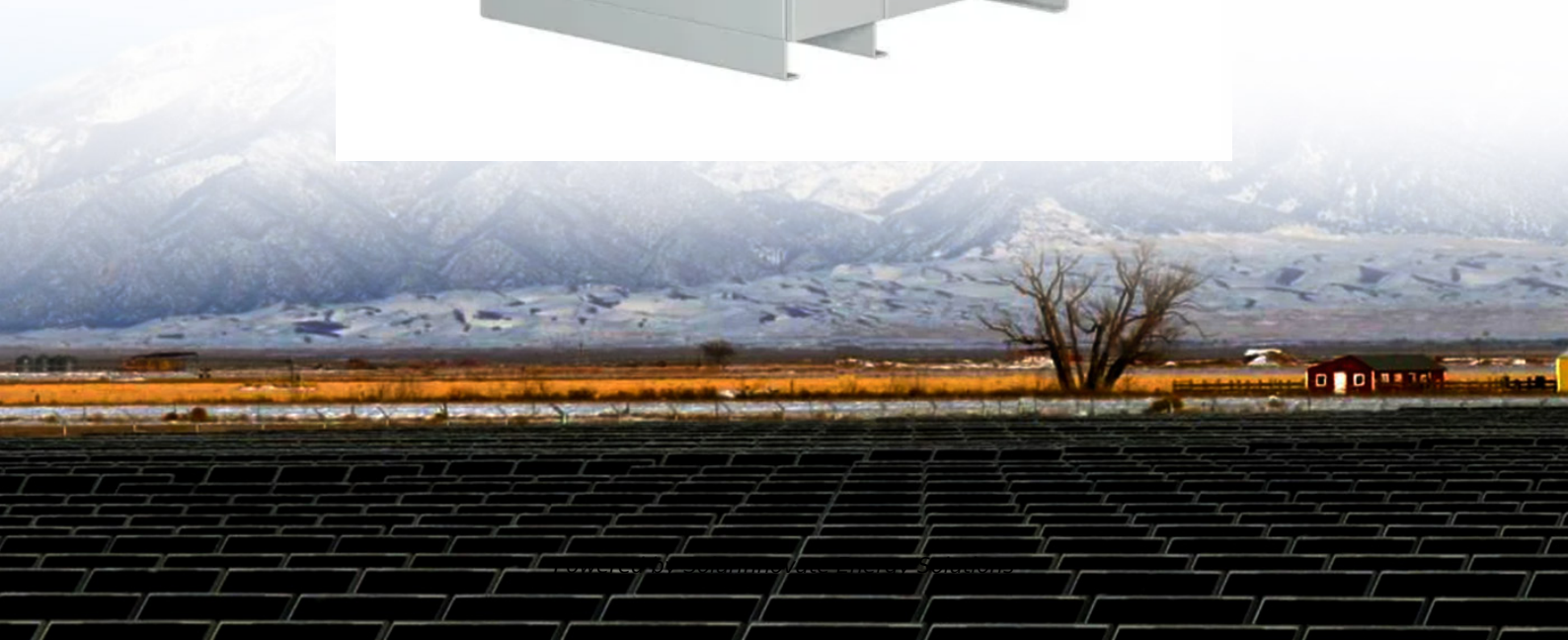


SolarInnovate Energy Solutions

Madagascar Small Uninterruptible Power Supply Plant



Overview

What type of Hydropower is used in Madagascar?

Large-scale hydropower. The exploitation of Madagascar's hydropower resource is made up of two types of hydropower plants: large-scale hydropower plants with an installed capacity of more than 25 MW and small-scale of hydropower plants with under 25 MW size of installed power, with two plants options namely storage capacity and run-of-river.

How many small-scale hydropower plants are there in Madagascar?

Numerous potential sites have been identified for small-scale hydropower generation in Madagascar. The gross hydropower potential was evaluated about 5600 MW for 700 potential sites relating the SPHs with an output capacity less than 10 MW. By the end of 2010, a project of 50 Small Hydropower Plants (SHPs) was supported .

Which energy process is available in Madagascar?

As no energy process for Madagascar is available, we considered the generic ones, for fuel oil steam turbine and diesel combustible engine and hydrodam power plant. Reflecting Malagasy conditions and the efficiencies, transport of raw materials have been included in the process.

Does Madagascar have a photovoltaic system?

The photovoltaic system represents less than 1% of the power generation mix and has only been integrated since 2006. In March 2016, Madagascar joined the World Bank Group's Scaling Solar program. About 30-40 MW solar plants are planned in this program in order to reduce daily load shedding and interruptions of electricity distribution.

What are the environmental impacts of power production in Madagascar?

Regarding the environmental impacts of the power production, according to the EIA data , Madagascar has recorded a total of 2.89 million metric tons of

CO₂ from consumption of fossil fuels, all sector gathered. Electricity production represents 15% of the total emissions of CO₂ recorded in Madagascar (492 kt CO₂ -eq).

Which energy sources will be used in Madagascar by 2020?

For those purposes, it is expected that renewable energy, mainly including hydropower, occupies a share of 53% of the energetic mix of Madagascar by 2020. 3.4. Ocean energy The use of marine energies can be considered for Madagascar and particularly with OTEC, wave power and tidal barrages.

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