

Tolaria PV Farm **Key Project Information**

The main focus of the project is to ensure larger access to electricity to the Malagasy population through innovative renewable technologies, by the hybridization of the existing thermal plant (HFO and LFO). In order to do so, a 2.9MWp photovoltaic solar farm will be set up outside the city of Toliara, with the option to increase the installed capacity in the future. The project is expected to contribute to the security of electricity supply to Jirama by reducing the dependency on the fluctuating primary energy sources. Due to its design without storage capacity, the impact will only be available during daytime. The activity shall be supported by carbon funding for the reduction of greenhouse gases, for which registration under the Gold Standard. This project description has the purpose to inform stakeholders in the context of the design consultation and the local stakeholder consultation. These consultations are part of the certification procedure according to the criteria of the Gold Standard, a foundation in Switzerland that certifies projects saving greenhouse gas emissions, according to high environmental and social standards.

1. Project Description and Design

The photovoltaic technology is a reliable and sustainable energy source; it is also a clean source of energy and will contribute to reduce the JIRAMA fuel consumption. Educational programs with local schools and NGOs are to be implemented during the operation phase so as to raise awareness about clean energies and sustainable development.

The hybridization is based on the Solar GEM innovative solution, designed by Akuo Energy which allows a fast and mastered implementation of solar energy units in remote areas and in particular extreme weather conditions. For instance, should a cyclone be announced, its structure can be quickly deployed and folded back.



Figure 1: Solar GEM innovative solution

The Toliara PV Solar Farm will offer local employment during construction, up to 100 manoeuvres will be then hired, and for long term operations, the Malagasy maintenance team will be fully trained on these breaking edge technologies.

Project participants as of now:

atmosfair gmbH: www.atmosfair.org, Berlin, Germany. Contact: Nele Erdmann (erdmann@atmosfair.de)

AKUO MADA SA; contact: Xavier Ducret, ducret@akuoenergy.com

Tentative organisational structure

Akuo Mada SA, will be the operator of the PV hybridisation plant. atmosfair, a not-for-profit company from Germany, will provide funding and coordinate the activities relevant for carbon funding.

2. The project's tentative timetable:

May 2019: Local Stakeholder Consultation Meeting

July 2019: Start of Stakeholder Feedback round

August 2019 (after stakeholder consultations): Start of plant construction

January 2020: Plant commissioning