



Powering Agriculture with Renewable Energy



Client:
Ariya Capital

Location:
Kenya

Start Date:
October 2015

Completion Date:
October 2018

Key Services:

- ▷ Feasibility Study
- ▷ Energy Audit
- ▷ Design of RE system
- ▷ Project Installation, deployment, monitoring and debugging
- ▷ Technical Support

CONTACT

Mark Hankins | CEO
African Solar Designs Ltd.

T: +254 (0) 20 2187691
E: mhankins@africansolardesigns.com

www.africansolardesigns.com

ASD won this project alongside Ariya Capital Group under the Powering Agriculture; An Energy Grand Challenge for Development (PAEGC) – a global funding competition focused on supporting new and sustainable approaches to accelerate the development and deployment of clean energy solutions for increasing agriculture productivity.

OVERVIEW

This project provides an end-to-end cost-effective, low-risk renewable energy generation and energy efficiency service to flower and horticultural farms in Kenya, Uganda, and Tanzania. The leasing energy services provided are structured to minimize the up-front investment by farmers. A mixed technology approach will allow flexibility in designed energy systems tailored for each user.

As the technical lead in the project, ASD led all of the field work, site measurements and production of preliminary grid-connected PV systems designs. ASD is currently providing the following:

- Feasibility study including energy audit and analysis of load profiles and client power consumption to select clients for the installation of embedded grid tied solutions
- Detailed energy audit for clients and modeling of all logged loads for efficient analysis of energy consumption patterns
- Design of renewable energy systems that will integrate with existing equipment using software (Pvsyst, PV planner and Pvgis).
- Advise on appropriate surge and circuit protection
- Project installation, development, monitoring and debugging at various sites
- Provide technical support on proposals, reports and project development