YOUR POWER PARTNER

Ariya Finergy is the premier go-to source for the design, construction, operations and maintenance of renewable energy across the African continent. Providing environment-friendly energy services that ensure businesses and individuals have access to economically attractive solutions that sustainably impact livelihoods.

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Social Media

1 Case Study: Ol Njorowa

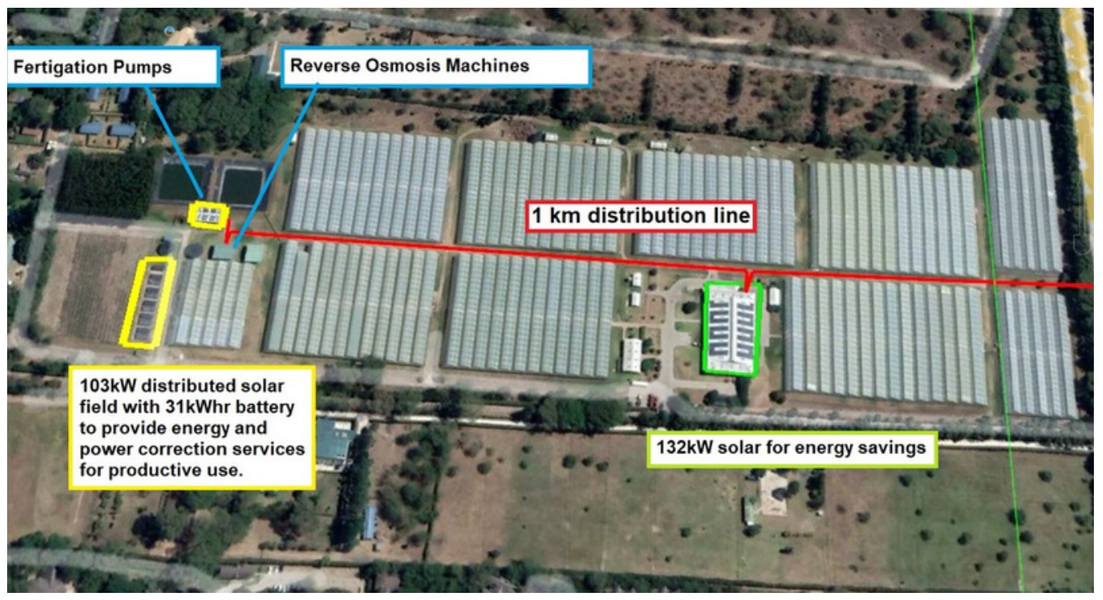
Ol Njorowa is a flower farm located off the shores of Lake Naivasha, one of the areas in Kenya that experiences the highest daily sunshine hours throughout the year. The farm grows high quality roses for export. They are committed to the protection of the environment and have become more sustainable by adopting solar power to run their business.

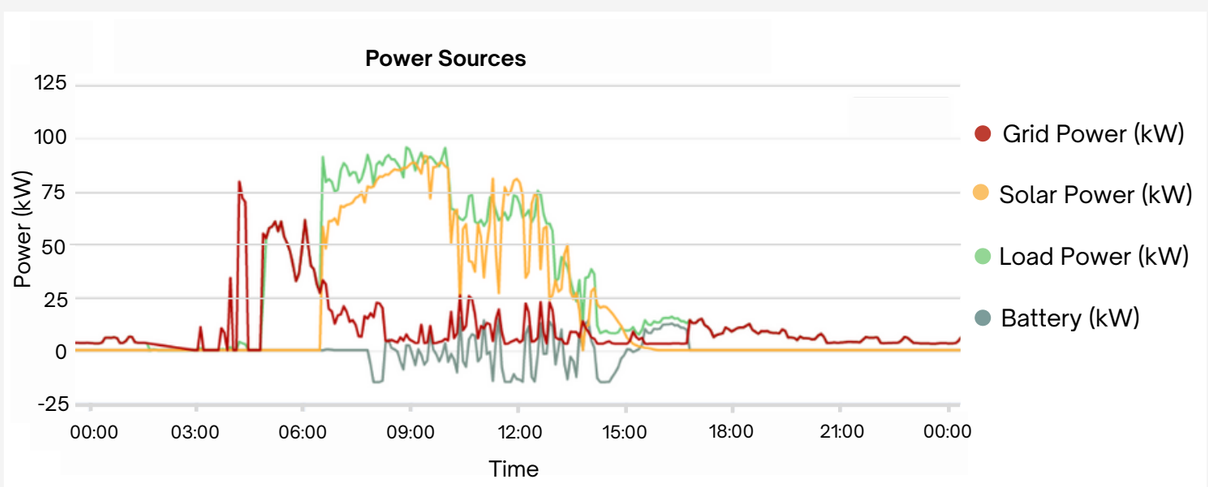
2 Power Challenge

The farm has a 1km long power transmission line. Voltage drops across this line were a pain point as they led to overloading and the inability for continuous operation or productive use of machinery within the farm.

3 Ariya's Solution

Ariya's engineers consistently engaged the Ol Njorowa team to better understand the challenges on the flower farm and designed the right solar solutions to allow the farm to run at maximum efficiency. The first phase of the project involved installation of a 132kWp roof-mount solar system as well as installation of a voltage stabilization system on the farm. The second phase was the installation of a 33kWp ground mount solar PV system with battery storage as well as installation of Variable Speed Drives. The final phase involved the installation of a 79kWp solar PV system as a hybrid of both ground and roof mounts to further power more parts of the farm.





4 System Operation and Maintenance

Ariya's solar solution includes the incorporation of our novel Vision Controller into the system. This is an energy management controller which is IOT-enabled and it maximizes on renewable energy integration, energy savings and CO2 reduction.

The data collected by the VIsion Controller is sent to the cloud in real time and can be accessed by the client through the Vision Portal. The graph on the left is a sample representation from the portal.

5 Impact and Key Figures

System Size	:	260 kWp
No. of Modules	:	588
Battery Inverter	:	30kW
Battery Storage Size	:	31.2 kWhr
Annual Savings	:	$45,000
Financing	:	Yes
Remote Monitoring	:	Vision Controller
CO2 reduction	:	400 tons(to date)