Project Developer

Tree_Sea.mals

Tree_Sea.mals is a local, women-led company that utilises renewable energy solutions to link communal markets and agribusiness processors to cold chain.





SOLAR POWERED COMMUNAL REFRIGERATION

This project will pilot solar-powered cold storage in the livestock value chain. Using a B2B model, Tree_Sea.mals will target Nairobi meat markets that source from low-income pastoralist groups in Northern Kenya. The pilot will be the Burma market, which trades over 2,500 carcasses per week and is the main retail outlet for butcheries handling 93% of household meat purchases. The project will set up PAYG units with 15 kWp and the capacity to cool 864 tonnes of meat per year. These will provide the anchor load for a solar PV mini-grid and reduce post-slaughter food loss by about 288 tonnes per year. EEP Africa financing will cover capex costs, enabling this start-up to develop and prove its innovative business model.



Outcome and Impact

Three cold storage units will serve up to 156 meat traders at the market. The switch from current cold storage technologies to a shared solar-powered cooling solution is expected to reduce energy costs by EUR 23,750 per year. The project also aims to reduce emissions by over 77 tonnes of $CO_{2}e$ per year and create 36 new jobs.



Total Project Budget EUR 290 000

EEP Africa Financing EUR 200 000

Project Partners

Wings of Empowering Pastoralists, Accent Cooling, Knights Energy, VE Energy, Kenya Meat Commission, TLO Law, Nairobi City Council

Type

Pilot project Stand-alone

Project Code KEN16152



Location Kenya



EEP Africa is a financing facility for early-stage clean energy projects in Southern and East Africa. It is hosted and managed by the Nordic Development Fund (NDF) with funding from Austria, Finland and NDF.