

MoneyMaker Solar pumps: Mechanized irrigation pumps

Low-cost and fast irrigation technologies for smallholder farmers.



KickStart International Inc.
Alan Spytbey

The MoneyMaker Solar pump, weighing 2kg and complemented by a 60W solar panel, operates as a compact submersible pressure pump. This solar-powered solution offers a lightweight and efficient option for small-scale irrigation, reducing reliance on manual methods and traditional power sources.

This technology is **pre-validated**. Scaling readiness: idea maturity 8/9; level of use 7/9

Inclusion assessment **4** Climate impact **7**

Problem

- Small-scale farmers in sub-Saharan Africa face challenges due to water scarcity.
- Labor-intensive irrigation methods such as bucket systems are inefficient and labor-intensive.
- Limited financial resources hinder smallholder farmers' adoption of modern irrigation technologies.

Solution

- MoneyMaker offer efficient and affordable solutions to address water scarcity.
- Replaces manual and labor-intensive irrigation techniques with more efficient and sustainable options.
- Provides affordable irrigation options like the Starter Pump, facilitating the transition from traditional methods to more productive practices for smallholder farmers.

Commodities
Tomato, Pepper, Onions, Okra

Sustainable Development Goals

Categories
Production, Equipment

Tested/adopted in

Where it can be used

This technology can be used in the colored agro-ecological zones.

Target groups
Farmers, Manufacturers

Key points to design your program

MoneyMaker Solar Pumps improve agricultural productivity by providing affordable solar-powered irrigation that reduces dependence on rainfall, lowers irrigation costs, and enables year-round crop production. Suitable for food security, climate resilience, agricultural modernization, and irrigated crop production programmes, the technology contributes to **SDGs 2 (Zero Hunger), 8 (Decent Work and Economic Growth), and 13 (Climate Action)** while creating new opportunities for smallholder farmers, women, and youth. To successfully integrate this technology, consider the following key actions:

- Identify priority irrigation areas where limited water access and dependence on rainfall constrain agricultural production.
- Establish partnerships with KickStart International, extension services, farmer organizations, distributors, irrigation service providers, and financial institutions to support technology dissemination, financing, and after-sales services.
- Facilitate access to solar irrigation technologies through appropriate financing mechanisms while supporting equipment installation, maintenance, and local technical services.
- Train farmers and technicians on efficient pump operation, irrigation management, and climate-smart production practices, and monitor technology adoption, irrigated area, crop productivity, water-use efficiency, farmer income, and programme outcomes.

1.8 Liter/second IP
Water distribution Trademark