

Driving Sustainable Horticulture through Smart Irrigation, Renewable Energy & Integrated Value Chains



TAHA | Shaping the Future of the FEW Nexus in East Africa

Key Message

- At TAHA, we believe the future of East Africa's Food-Energy-Water Nexus/linkage lies in practical, scalable solutions that transform smallholder horticulture.
- Smart irrigation, renewable energy, and resilient value chains empower farmers to produce more with less (resources) — sustainably.(gas and solar power)

Smart Water Management – Irrigation

- Expand solar-powered, GPRS-enabled drip irrigation – *Value for Water* pilot project in Uchira, Kilimanjaro (TAHA and FFD interventions)
- Continuous capacity building on water use embedded with simple tools to manage water use so that awareness increases.
- Advocate for water use regulations and standards such as SPRING add-on standards

- Promote solar and mini-grids for water pumping & cold storage.
- Partner with private sector for affordable clean energy.
- Reduce diesel dependency, lower emissions & costs – Solar Energy irrigation system integrated with digital tech to monitor water use (***Value for Water project***)

Building Sustainable Agricultural Value Chains

- Support export standards compliance for market access (e.g. GlobalG.A.P.)
- Connect farmers to domestic, regional & global markets.
- Advocate for better infrastructure & financing – Green financing projects/fundings
- Research and development of climate-resilient horticultural value chains

Evaluating Impact & Scaling Solutions

- Joint sharing of the impacts of the sustainable solutions deployed by stakeholder towards energy and water use efficiency
- Share proven models for East Africa replication.
- Partner to mainstream integrated FEW solutions.

Call to Action

- Together, let's shape a future where every drop counts, every watt is clean, and every harvest creates shared prosperity.
- Join TAHA in co-investing, co-innovating, and co-delivering a resilient horticulture sector.