

CONCEPT NOTE: LVNWWDA and TCP PARTNERSHIP)

Project Title

Climate-Resilient Water Access, Solarization and Green Livelihoods Initiative in Trans Nzoia County, Kenya

Submitted to

United Nations Development Programme – Small Grants Programme (SGP)

Lead Organization

Transform Community Project (TCP) – Community-Based Organization

Technical Partner

Lake Victoria North Water Works Development Agency

1. Problem Statement

Trans Nzoia County continues to face **increasing water insecurity** due to climate variability, prolonged dry periods, and limited water storage infrastructure. Public institutions such as **schools, health centres, and churches** are particularly affected, with unreliable water supply impacting health, education, and livelihoods.

Additionally:

- Low adoption of **rainwater harvesting systems**
- High reliance on inconsistent water sources
- Lack of **sustainable energy solutions** for water systems
- Limited community capacity in water resource management

2. Project Objective

To enhance **climate-resilient water access and sustainable livelihoods** through solar-powered watersystems, rainwater harvesting, and community-led water management.

3. Key Activities

- Solarization of water systems in **15 institutions** (schools, health centres, churches)
- Distribution of **150 units of 5,000L water tanks** to households and institutions

- Installation of rainwater harvesting systems (gutters and fittings)
- Rehabilitation and improvement of community water infrastructure
- Training on water conservation, climate adaptation, and governance
- Support to **green livelihoods** (irrigation, nurseries, water enterprises)

4. Expected Results

- 3,000+ households gain improved access to water
- Increased water storage through **5,000L tank distribution**
- Reliable water supply in public institutions through **solarization**
- Reduced operational costs due to renewable energy use
- Improved sanitation, health, and food security
- Strengthened community resilience to climate change

5. Target Beneficiaries

- Vulnerable rural households
- Women and youth groups
- Schools and health centres
- Faith-based institutions

6. Implementation Strategy

This project will be implemented through a **strategic partnership model**:

Transform Community Project (TCP)

- Community mobilization and beneficiary identification
- Coordination of tank distribution
- Training and capacity building
- Formation of Water User Committees
- Monitoring and reporting at community level

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- Technical design and supervision of water systems
- Installation of solar-powered water infrastructure
- Support in rehabilitation of water systems
- Quality assurance and compliance with national standards
- Capacity building on operation and maintenance

7. Sustainability Strategy

- Community ownership through Water User Committees
- Solar-powered systems reduce long-term operational costs

- Training of local technicians for maintenance
- Integration with regional water development plans

8. Budget

Total Estimated Budget: USD 120,000

Breakdown:

- Solarization of institutions: USD 45,000
- 5,000L water tanks: USD 30,000
- Rainwater harvesting systems: USD 10,000
- Infrastructure rehabilitation: USD 12,000
- Livelihood support: USD 8,000
- Training & capacity building: USD 7,000
- Monitoring & administration: USD 8,000

9. Project Duration

12 Months

10. Alignment with SGP Priorities

- ✓ Climate change adaptation
- ✓ Renewable energy (solar)
- ✓ Community-based water management
- ✓ Livelihood improvement
- ✓ Environmental sustainability

11. Competitive Advantage

- Strong **government-linked technical partner (LVNWWDA)**
- Community-rooted implementation through TCP
- Combines **water + solar + livelihoods**
- Immediate and long-term impact
- Scalable across the region

12. Contact Information

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