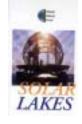
Renewable Energy for Fisherfolks of Lake Victoria



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Solar Lakes Initiative



Global Nature Fund (GNF)

- International Foundation for Environment and Nature
- Coordinator of the international Living Lakes Network

Aim of Solar Lakes:

Promotion of Renewable Energy in Lake Regions

Solar Lakes Projects:

- Study "Climate Change and Lakes"
- Solar Ship Network Germany
- Solar plant at Lake Tengis, Kazakhstan
- •ECOCAMPING
- Renewable Energy for Lake Victoria









Renewable Energy for Fisherfolks of Lake Victoria

- Titel: Renewable Energy for Fisherfolks of Lake Victoria
- Time: 18 Months Begin: End of 2004
- Supporters:
 - GTZ Gesellschaft für Technische Zusammenarbeit
 - German Ministry for Environment
 - Landesstiftung Baden Württemberg
- Project Partners:
 - Global Nature Fund (GNF)
 - OSIENALA Friends of Lake Victoria
 - Established in 1992 NGO based in Kenya
 - Since 2002 Member in Living Lakes Network





Renewable and Energy Efficient Technology for Fisher Folks

- Solar lamps for night fishing of Omena Lake Victoria Sardine
- Water purification
- Solar fish cooling
- Energy efficient kilns for fish smoking
- Hand operated briquetting machines











Project Area

- Lake Victoria, Uganda, Tanzania, Kenya
 - Project area Fisher Communities in Kenya
 - Kagoro Beach and Kinda Beach in Gwassi location-Suba District
 - Luanda Kotieno-South Uyoma- Bondo District
 - Nyagina Beach –Rusinga island Suba District







Background

Energy Situation:

- 98% of rural population without access to power grid
- Deforestation siltation
- High interest in renewable energies









Project Aim

 Improve environmental, economic and social conditions in local communities through promoting of solar and energy efficient technology







Night Fishing at Lake Victoria

- Omena = Lake Victoria Sardine (one of three commercial fishes)
- 5000 boats in Kenya using 5 kerosene pressure lamps per boat
- Kerosene lamp consumption 1.5 litre per night







Solar Lamps for Fishing

<u>Aim</u>

Replacing kerosene lamps with solar lamps for night fishing of Lake Victoria Sardine

Technology

- Over head D.C Lamps with reflector (7-10 Watts)
- Batteries 7 AH
- PV Panels (50 100 Watts)











Training

- Training Course for 100 fishermen
 - Operation and Maintenance of Solar Systems
 - OSIENALA Research and Development Centre









Financing

- Micro-Finance System Beach Bank
 - Regular Savings and Loans Beach Clerks
 - Currently 1600 Customers









Local Awareness Campaign

- Radio Lake Victoria
 - Operated by OSIENALA
 - 3.5 Mio listeners
 - Independent non-profit
 - Broadcast in local Luo language









Lessons learned

- Extremly high interest of fishermen
- Careful testing of solar lamp systems
- Integrated approach needed
- Ownership







Outlook

- Introduction of Solar Lamp System at Madu Gaga Lake, Sri Lanka, in 2006
- Solar Lakes Conference at Lake Constance in Sept. 2006
- GNF web pages:
 - www.globalnature.org
 - www.livinglakes.org





