

# 1. Institutional settings

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- ▶ TAREA Lake Victoria Zone is the umbrella organization, supporting and enabling the sustainable growth of the Renewable Energy sector by developing an effective network of members and stakeholders throughout mainland Tanzania (Implementing Partner of the project)
- ▶ Registration: 7th May 2001; Membership: International, corporate, professional, associate, technicians, dealers, students
- ▶ Widespread activity areas: from promotion of renewable energies over advocacy to standard enforcements
- ▶ Aim of the project: revolution of the way of night fishing in Lake Victoria
- ▶ City of Würzburg and BMZ (donors), City of Mwanza (contract partner), Fishermen of Nyamagana District, Mwanza



## 2. Starting point

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- ▶ Traditional way of fishing small sardines:
  - ▶ Fishing during night in team of 4 to 5 fishermen using 4-8 lamps
  - ▶ Light of kerosene pressure lamps attracts small sardines
  - ▶ Encircling of the lamp and reeling the fishes with a net
- ▶ Results of the current use of kerosene pressure lamps:
  - ▶ High carbon emissions, pollution of air and water, danger of explosions, decrease of fish catch



# 3. Approach

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- ▶ Building microfinance groups with the fishermen to guarantee the security of the lamps
- ▶ Implementing a renting system at a daily base
- ▶ Creating sustainability by revolving funds to buy more lamps
- ▶ Training fishermen and resource persons how to use and service the solar fishing lamps (OmniVoltaic Catch 300)





# 4. Outputs

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- ▶ Reduction of CO2 emissions (15,000-tons/year in Nyamagana District; 1liter kerosene emits 2.580kg CO2)
- ▶ Reduction of deforestation and pollution of air and water
- ▶ Increase of fish catch and decrease of running costs for the fishermen (1liter kerosene costs 1€ →2-3 liters per night)



# 5. Lessons

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- Fishermen's running costs higher than expected (up to 13€ per lamp and day)
  - Project implementation not linear but heterogenic adoption by fishermen
  - better understanding of local conditions/behaviour
    - ▶ demand to destroy old lamps unrealistic
    - ▶ Mwanza's inflexible interpretation of project conditions
  - Need: detailed document for partner beyond contract
    - ▶ rigid bureaucratic against transfer to other players
  - Proposal: mutual plan for future implementation of partner projects





# 6. Follow-ups

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- ▶ This stage is not yet reached
- ▶ *In future: improved structures for drying the sardines is required (wire mash, solar dryer instead of spreading on the ground)*

