LESSONS LEARNED IN NAMIBIA
WITH SOUTHERN AFRICAN
SOLAR THERMAL TRAINING AND
DEMONSTRATION INITIATIVE
PROJECT- SOLTRAIN

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The overall goal is to contribute to the switch from a fossil fuel based energy supply to a sustainable energy one based on renewable energies.

- Phase I: May 2009 - June 2012
- **Countries Involved:** Namibia, South Africa, Mozambique & Zimbabwe
- **Funders:** Austrian Development Agency
- **Coordinator:** AEE – Institute for Sustainable Technologies (AEE INTEC)
SOLTRAINI
Installation of demonstration systems for social institutions with improved technologies

Only one system installed at Anglican medical, ST Mary’s Health medical centre

Additionally we procure the trailer to assist in the awareness campaign
Monitoring Existing System

The Polytechnic Hostel system: 300 m² collector area, 4 m³ thermosyphon system

Katutura State Hospital system: 100 m² collector area, 5000 L
SOLTRAIN I:
Training Courses

3 train the trainer courses” for professionals were carried out in collaboration with AEE INTEC targeting industry and academia to increase the quality, performance & lifetime of solar thermal systems with focus on local manufacturing.

3 dissemination courses were carried out by the Polytechnic lectures who attended train of trainer courses.

3 increase the awareness of the general public concerning the possibilities of using solar energy and the environmental effects- 3 workshops conducted with Policy makers and banks.
SOLTRAIN II includes four major activities

1. Focused awareness campaigns
2. Centres of Competence
3. Solar Thermal Technology Platforms
4. Solar thermal Demonstration Systems
1. **Focused awareness campaigns** on solar thermal systems to inform all relevant stakeholders and the interested population about the different applications of solar thermal energy and the related impact on security of energy supply, poverty, employment and on the environment.

2. **Information sharing workshop for members of parliament on Renewable Energy in Namibia**

   1. GRN housing programmes should include energy efficiency and renewable energy applications already at the planning phase such as DSM

   2. the necessary financial mechanisms are introduced to allow all domestic residences to be fitted with a solar water heater;

   3. the viability and requirements of initiating local solar water heater assembly or manufacturing plants are assessed, and included under the Ministry of Trade and Industry’s promotion of local value addition priorities;
Systems installed including motoring at Centres of Competence

2 - Polytechnic of Namibia Students are writing thesis on the systems
The **national STTP’s include all stakeholders** (companies, higher education as well as administration and policy) who make a positive input in improving growth of solar thermal applications in all relevant sectors. The STTPs are going to prepare a **national Solar Thermal Roadmap** and implementation plan for each participating country and should act as the relevant entity for decision makers when it comes to support measures in terms of technical solutions, subsidy schemes or research and dissemination activities for solar thermal systems.

**Vision for Namibia STTP??**

0.5 m² installed solar thermal collector capacity per inhabitant by 2030
Demonstration systems

In order to apply the knowledge gained during the training courses, and to increase the public awareness, **40 - 50 solar thermal demonstration systems** of different sizes and applications will be installed at social institutions and small and medium enterprises.

Demo Systems for Namibia

62 houses recently approve

The rest will co-finance 6 VTC systems
60 m² system
Demonstration systems

To show and demonstrate the different solar thermal applications “flag ship sites or districts” will be established after consultation with policy, local authorities or NGO’s.

The idea of “flag ship sites or districts” is to have several systems for different applications at different eligible institutions installed relatively close together (one village, town or small region). Windhoek +100km radius
Conclusions

- Efforts to formalize accredited ST training are ongoing in Namibia
- The SOLTRAIN Project II a catalyst towards the realization of such training
- Through the SOLTRAIN Project, Solar Thermal Technology Platform could become the SADC program on solar thermal technology
- With Soltrain REEEI is recognized by all stakeholders
- Practical demonstration systems improve the quality of installation in Namibia for example companies who install pump systems
THANK YOU

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