



financed by

Austrian
Development Cooperation

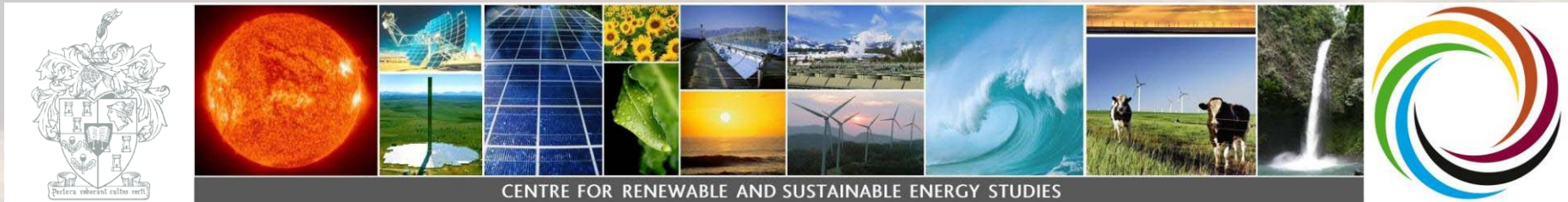


Southern Africa Solar Thermal Training and Demonstration Initiative (SOLTRAIN)

Wikus van Niekerk

13 August 2010

Cape Town



CENTRE FOR RENEWABLE AND SUSTAINABLE ENERGY STUDIES



Outline of Presentation



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ENERGY STUDIES



- Framework
- Content
 - Training
 - Measurement
 - Individual advice to companies
- Project status
- Conclusions



Framework



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- Financed by: Austrian Development Agency (ADA)
- Implemented by: AEE-Intec
 - Institute for Sustainable Technologies in Austria
- Project partners
 - South Africa – SESSA (northern SA) & CRSES (southern SA)
 - Namibia – Polytechnic of Namibia
 - Mozambique – Eduardo Mondlane University and N&M Logotech
 - Zimbabwe – Domestic Solar Heating



Framework cont...



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- Target groups
 - Training institutions: universities and other relevant institutions
 - Small and medium enterprises involved in manufacturing, supplying and installing SWHs
 - Social institutions
 - Policy makers and public administration officials





Content: Training



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- Institutions (Universities and other centres)
 - Design, optimisation and monitoring
 - Testing equipment and personnel
- Small and medium enterprises
 - Optimisation, improvement and skills training (commissioning etc)
- Policy and Administration
 - Best practise support mechanisms
 - Proven market support programs
 - Labelling schemes and quality assurance
 - Awareness and public relation campaigns





Content: Measurement



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- 2 Systems instrumented
 - Family home in Stellenbosch
 - Commercial Laundry in Tokai





Content: Measurement cont...



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Content: Individual advice



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- On product improvement
 - Advise to companies on thermosyphon and pumped systems
 - Medium scale systems for institutions like hospitals
- On collector testing and improvement
 - Stellenbosch facility improved
 - Testing/consultation for 5 participating companies
- **Installations at deserving social institution**
 - Submitting nomination
 - Optimisation of proposed systems
 - Partial funding via ADA

ADVICE

the right steps
to take



Project status: Completed



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- July 2009
 - Kick-off meeting
- September - December 2009
 - Monitoring proposals, selection, installing of monitoring equip.
- January 2010
 - 1st 2 Day training course in Stellenbosch
 - 1st Political decision makers workshop
 - Company visits started
- June 2010
 - Funding approved for installation at Jan Kriel (school for children with special needs)
- July 2010
 - Mid-term monitoring report
 - Monitoring system improvement





Project status: Completed

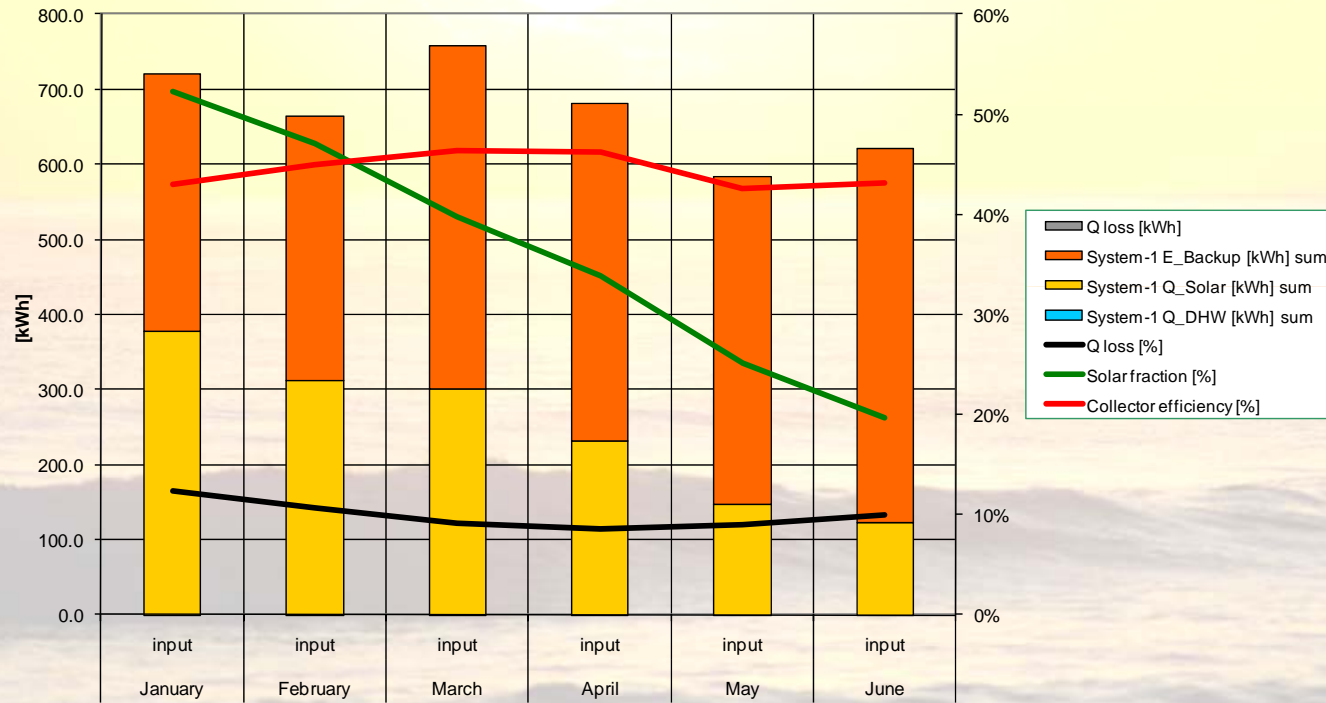


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- System monitoring and improvements
 - 2 Systems: Commercial laundry and household
 - Drastic improvements of systems after alterations

Energy balance
System 1





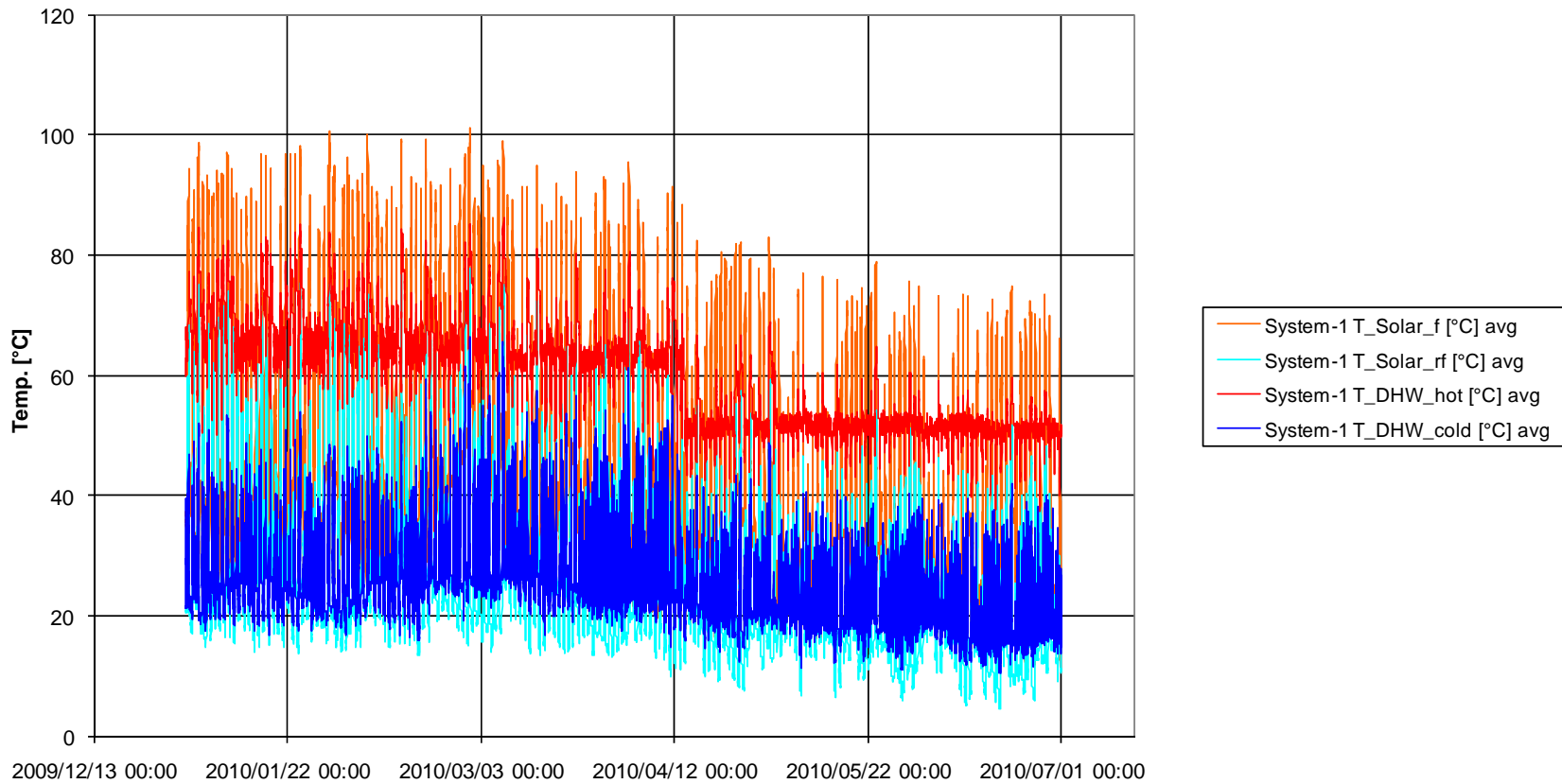
Project status: Completed



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Input/Output temperature System 1





Project status: Pending



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- Assistance to producers
 - Testing facility at Stellenbosch University
 - Selection of 5 locally manufactured systems for testing and improvement
 - Waiting for submissions
- Deserving institutions: 25 – 50 to be selected
 - Application submitted for approval
 - Installation of systems
 - Recommendations? (email: duncs@sun.ac.za)
- Feedback of system monitoring to producers and users
- Dissemination workshop in Cape Town
- Awareness campaign
 - Trade fair
 - Leaflets to focus groups
 - Website



Conclusions



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- Framework
 - Financing, project partners and target groups
 - Duration: 2009 – 2012
- Project Content
 - Training and dissemination workshops
 - Measurement
 - Individual advice to companies
- Completed
 - Workshops/dissemination
 - Monitoring and successful system improvements
 - Funding for deserving institutions, institution selection
- Pending
 - Testing facility
 - Awareness campaign
 - Deserving institutions



Contact details



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UNIVERSITEIT-SELLENBOSCH-UNIVERSITY
jou kennisvennoot-your knowledge partner

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