

Energy

Partner organisation	SASOL FOUNDATION
Country	KENYA
Fieldwork period/year	2012
Disciplines	Energy
Title of the assignment	Solar for household lighting
Area of work, region, housing, accommodation, transport	Students will be working in Kitui district. Accommodation in Kitui town or other shopping centres where they may be visiting. Transport by public service vehicles (matatus) or by taxi where possible organised by SASOL. SASOL, the old kitui district community.
Organisation(s) (NGO, training education institute, community)	
Context, situation, problem(s) (regarding sector program)	Study shows that there is need for affordable lighting system in each household. Most of kitui communities a poor and live below a dollar per day per person. Due to this children who are schooling are much more affected by there studies during the night. This calls for affordable lighting system by the community. That is why we are interested in having students working on solar lighting system so as to improve the performance of the pupils.
Objectives (project and program level)	<ol style="list-style-type: none"> 1.Realization of affordable and ideal household solar lighting 2.Realization of affordable and ideal household solar lighting as a practical experience for energy students
Brief project description including major activities	This is based on previous studies on energy needs. Household lighting energy is a priority need for poor households since the normal fuel kerosene is very expensive i.e dollar per litre. Thus small scale solar plants can help families light and help

children to learn at home. The students will be sourcing for solar neon lighting which is affordable.

Activities under objective 1

1. Sourcing for solar power lighting units like Philips (power company)
2. Mobilizing and training community.
3. Installation
4. Monitoring
5. Reporting

Activities under objective 2

1. Guidance, supervision and discussions with technical supervisors
2. Involvement and discussions at all steps and levels by both Dutch and Kenyan students for exchange of knowledge
3. Participation in multicultural events
4. Attend trainings (entrepreneurship, life skills and ICT)
5. Reporting

Expected results (project and program level)

1. Affordable and ideal household solar lighting
2. Students should have the ability to communicate and relate across cultures
3. Exchange of knowledge between the Kenya and Dutch students and also between all the students and the community.
4. A draft report.

Project phasing

First week – Orientation

In between weeks – Project activities

Last two weeks – Report writing

Level Dutch and Kenyan students/graduates

University, Higher Education, Secondary Vocational Education – graduates or undergraduates, Polytechnic students



**Supervision and guidance
(name(s), function)**

Evaluation and progress meetings
done after every two weeks by SASOL
staff.