



"If many small people in many small towns do many small things, the face of the Earth will change."

African saying



## PROJECTS

### **SASSA Low Pressure Solar Water Heater Programme - PoA CER, South Africa**

In line with the South African governments stated goal of ensuring roll-out of 1 million solar water heaters within 5 years, SASSA (Solar Academy of Sub-Saharan Africa), an importer, supplier and installer of Tasol brand solar water heaters, has engaged International Carbon Limited to complete the registration of a Program of Activities CDM project covering the CERs that will be generated by the reduced demand on the grid for electricity to heat water. The objective of the project is to use the available Eskom subsidy and carbon finance provided by Standard Bank to be able to supply and install low pressure water heaters to low cost housing units in South Africa at no cost. This is only possible whilst the Eskom subsidy and carbon credit generation for the project is available. The project is highly sustainable as it has already created 300 jobs – 100 of which will be permanent, taking care of the ongoing maintenance of the units.

### **Project goals**

- Reduction of greenhouse gases such as methane and nitrous oxide
- Promotion of environmental performance, while ensuring that the project benefits local communities
- Enhancement of development and use of clean energy technologies in South Africa



**SASSA Low Pressure Solar Water Heater Programme PoA, CER, South Africa**



Houses with Solar heaters



Houses with Solar water heaters

## Sustainability Not only environmental friendly...

- Replacement of electric kettles or electric and paraffin stoves and hence displace carbon intensive fossil fuels currently used for water heating.
- Improvement of air quality by replacing fossil fuels for kettles or generating electricity and hence pollutants.

## ...but also socially fair and caring

- Beyond the environmental benefits, the project activity contributes to the socio-economic sustainable development of the region by generating job opportunities for local residents.
- There are no mandatory laws that require either the installation or replacement of electric water heaters. Warm water service is not installed as a component of low cost housing delivery in South Africa. The National Housing Code determines the minimum requirement to be a metered single standpipe. Therefore, the quality of life of low income households is significantly improved by the project.

## Key project points

### Project standard and methodology

The Clean Development Mechanism (CDM) project follows the official CDM methodology AMS-I.C ver.17. UNFCCC ID is PoA 4302.

### Emissions reductions

Annual emissions reductions (CERs) amount to some 76,945 t CO<sub>2</sub>e.

### Validation and registration

The project was registered as an official CDM project activity at the UNFCCC in March 2011.

