SOLTRAIN – the Southern African Solar Thermal Training and Demonstration Initiative - is a regional initiative on capacity building and the demonstration of solar thermal systems in the SADC region. The initiative started in 2009 and is currently in its 4th phase. The initiative is implemented in cooperation with partnering countries - South Africa, Namibia, Lesotho, Botswana, Zimbabwe and Mozambique.

SOLTRAIN supports the partnering countries by offsetting their fossil fuel-based heat demand with sustainable solar thermal alternatives across different sectors.

The focus areas of SOLTRAIN include; awareness raising on the potential of solar thermal technologies across the different sectors; building competence of solar thermal technologies within the countries; creating solar thermal technology platforms; and the demonstration of the solar thermal technologies.

This is achieved through the strategies below:

- Solar thermal campaigns
- Monitoring and facilitating of the SOLTRAIN Roadmap Implementation Plans
- Policy workshops for national and local governments
- Exhibition at trade shows with solar thermal companies
- Information and support workshops for private and public sectors
- Training courses and workshops aimed at policy makers, financial institutions, trainers, installers and students.
- Technical training on solar thermal systems and quality inspection of systems for local solar thermal installers
- Financial support for solar thermal demonstration systems
- Technical assistance for local partners and installers
- Student bursaries

The SOLTRAIN training courses for local installers, have also been catered to include students, artisans, policy makers, financial institution, government departments and the private sector.
SOLTRAIN phases I, II and III have been successfully carried out from 2009 to 2019, with phase IV of the project running until 31 December 2022. Some of the main successes of the project across the 6 partnering countries thus far are:

- More than 3,000 participants trained in 110 training courses.
- More than 320 solar thermal systems installed across the residential, commercial and industrial sectors.
- Total collector area of 4,621 m² (3,235 kWth) installed.
- A reduction of 1,222 ton of CO₂ emissions per annum from the six countries.
- Drafting of the solar thermal visions for 2030 presented as Solar Thermal Technology Roadmaps (STTRMs), available as a policy support tool to advise policy makers on the implementation of solar thermal technologies within the partnering countries.
- The development of training equipment for training courses provided to the local vocational training centres and universities. This includes 10 solar trailers and a solar collector testing facility.

### Demonstration Systems

SOLTRAIN has co-funded more than 320 solar thermal systems to date across the various partnering countries. This includes the rollout of domestic thermosiphon systems and large-scale pumped systems ranging from 2 – 600 m² in size. These systems are for applications across the residential, commercial and industrial sectors.

These co-funded demonstration systems serve to demonstrate the applications of solar thermal technologies in new areas within the SADC region.

Installations that are eligible for co-funding, include both the private and public sectors and range from home owners to small- and medium enterprises, hospitals, old-age homes, student hostels, hotels, lodges, restaurants as well as industrial applications.

For more information on the project, events, demonstration systems visit the SOLTRAIN website at: [www.soltrain.org.za](http://www.soltrain.org.za)