

Development Aid Group Solar Cooker of the National Vocational School Altötting

Since the end of the 1970s students and teachers of our Industrial School Altötting have successfully been involved in diverse aid projects with a tremendous commitment. In 1993 „EG Solar“ was set up as a registered charitable organization. In more than 80 countries worldwide our solar cookers have already proved their worth and efficiency. In collaboration with students of our Industrial School Altötting and on the basis of suggestions made by users all over the world the models have been improved constantly and moreover have been perfectly assimilated to the needs of the people and the local requirements.



The costs for a SK14, produced in a country affected by fuel shortage, can be easily amortized in just a few months - because of the enormous savings concerning fuel. Moreover, after the amortization phase people using a solar cooker will continue saving even more money which can be invested e.g. in high-quality nutrition, schooling for children etc.

Thereby the life situation of women and children can be improved considerably in terms of time, performance and health. Ideally, children have enough time and the option to attend school, women finally gain the possibility to have an independent professional life.

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We develop, spread and export the idea of solar cooking worldwide - in cooperation and partnership with friends, supporters and sponsors.

Our aim ...

... is the installation of a network for self-aid workshops to realize an independent production and maintenance of solar cookers and their equipment at proper locations worldwide. We communicate the technical knowledge and provide the raw material if not available in the country itself. Precondition is the realistic financial implementation of our solutions which moreover should be agreed on and supported by the local people.

We offer ...

... practical training construction courses for the mentioned solar cookers in our work shop. The participants learn to use simple basic tools and machines for the construction of a SK 14 - without the need of electricity. Led by competent instructions they are in the end able to instruct and supervise a solar cooker construction somewhere else themselves.

During the courses the participants get also introduced to energy-saving wood stoves and solar lamps which can be easily produced as well. After their successful graduation we support the finishers in funding an own work- and toolshop and moreover offer them a long-term partnership and cooperation.



Solar Cooker
SK14

Wood-saving
Stove

Solar System
Mali Light

... Cooker Sample

The assembly sets of our samples are produced by unemployed adolescents or those having start-up problems - with the support of BRK social aid work shop. Our aim is to offer them a better perspective concerning their professional life and the demanding labour market.

**Donations Account
Sparkasse Altötting,
IBAN: DE55 7115 1020 0000 0493 38
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EG SOLAR

Entwicklungshilfegruppe Solarkocher der Staatl. Berufsschule Altötting e. V.



Why is the spread of solar cooking of such importance?



The Three Stone Fire:

- health-damaging
- environmental pollution
- inefficient

Traditional cooking with firewood is immensely problematic:

- 2 billion people worldwide have to rely on cooking with firewood and wood charcoal
- reforestation cannot keep pace with the demand of wood
- **the results** of deforestation are **dramatic**: treeless steppes, soil erosion, sinking groundwater levels, devitalization of the soil, desertification, **migration** to cities
- **high CO2-emissions** and the emitted **soot** harm the climate
- women and children have to bear daily longer ways for the **collection and transport of firewood**
- **landmines** are a high risk and **endanger them on their ways**
- the rising, booming **shortage of fuel** causes **horrendous prices** for fuel
- **poisonous smoke** and soot of the traditional log fire **harm eyes, lungs and respiratory tracts**



The use of proper solar cookers

- **saves and sustains the forest and the vegetation** successful reforestation is possible; the animal's dung is not burnt but used as a fertilizer; CO2-emissions decrease)
- **supports and improves the health** esp. of women and children: cooking without harmful soot and poisonous exhaust gases means **clean air**
- supports **hygienic living** by the **decoction** of water
- **conservation** of food and **sterilisation** of medical equipment
- **prevents burnings** because of dangerous open fire-places
- **prevents kerosene intoxication** or kerosene fires
- **relieves** women and children from time-wasting search of firewood: Children have time to attend school, women to have a profession
- in the long run **enormous savings** because of efficient time management and improved financial status
- **creates new jobs** and improves the level of education: workers needed for the **local production** of solar cookers affordable for the locals



Coffee roasting

- for business purposes like open-air food stalls, roasting, dyeing and wickerwork
- improves life conditions in the rural regions and thus **prevents migration** to cities



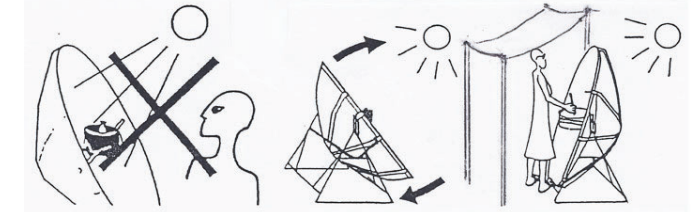
Steam Juicer

Technical and performance data of a SK14:

- 700 Watt performance -> 3 litres of water boil within approx. 25 minutes with the help of bright sun rays
- 12 litre pot -> up to 20 persons can be provided

Function:

- A parabolic mirror reflects the sun beams onto a matt black pot positioned in the focus inside the reflector. Burns and dazzling can thereby easily be prevented.
- The cooker can be used from an hour after sunrise until one hour before sunset.
- Easy handling: The solar cooker can be re-focused in the direction of



the sun every 15 to 20 minutes.

- To stir the food the reflector can be swung around in order to shade the pot from the glare.
- Once the cooking has been started the meal can continue simmering in an insulated basket.

The combination with insulated basket is perfect:

- to parboil dishes (e.g. rice)
- to „decouple“ cooking and eating times (warm meals also possible after sunset)
- consumption of firewood can be cut by up to 50%

