

Benefits:



It protects the environment



Less expulsion of CO2 through cooking fires

It pasteurizes water



It reduces diseases caused by dirty water

Children are able to go to school again



No fuel gathering anymore

Benefits:

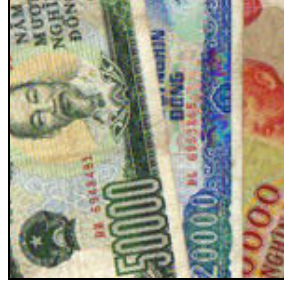


It reduces lung and eye diseases



No smoke in or near the house

It saves fuel costs



Up to 20% of income

Improves nutrition

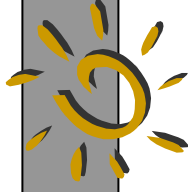


More time for cooking corn and beans

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Cooking with



Solar Serve



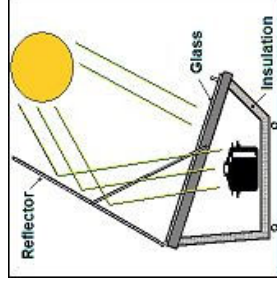
**Tổ Chức Phục Vụ
Năng Lượng Mặt Trời**

Introduction

Solar Serve is a non-profitable organization, involved in services for promoting solar energy and other appropriate technologies for the benefit of all people in Vietnam. The environmentally friendly solar cookers and devices are made by poor and local handicapped workers. The University of Danang has supervised this project since 2000.

Box Solar Cooker

The box cooker is a device to capture the rays of the sun and uses the energy to cook food or boil water, like a steam cooker. Our design is a well-insulated aluminum basin in an outer box with a glass top and a reflector plate at the back. Cooking can be unattended and does not burn even when it reaches 130 – 150 C (266 – 302 F), but it takes at least 1 – 2 hour for cooking



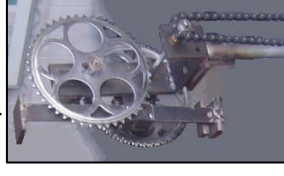
Parabolic Cooker

The parabolic solar cooker is a reflecting dish, which concentrates the solar rays at a focal point for cooking. It cooks fast and reaches temperatures as high as natural fire, but requires more constant attention while cooking



Community Cooker

The community cooker is an 8 square meter parabolic dish. It concentrates the sunlight to a reflector inside the wall of a kitchen. The temperature can reach



up to 450 C. A cooking pot is placed on top of the inside reflector and can cook for 50 persons daily. The reflector needs only to be reset once every morning. A clock made from bicycle parts tracks automatically the sun. We hope to introduce this community cooker in 2009.

Briquettes

When solar cookers cannot be used, one of the environmentally friendly alternatives is the biomass briquette made from agricultural waste. The round briquettes are compressed and dried into hard blocks and used as fuel to cook. The briquettes are a renewable source of energy and help reduce the emission and saves around 30-40 percent of fuel costs



Solar Still

The solar still is a simple waterproof box with a piece of glass on top. Contaminated water will enter the box from the back. The rays of the sun will cause high temperature and will destroy all bacteria. The water evaporates and rises under a sloped glass. It runs down in a tray and guides it out of the collector. The distilled water is ready to drink. We are still researching this device for better results.

