

Survey Title: Solar Cooker Adoption and Impact



Survey Purpose: Measure solar cooking use and impact

- This survey is designed to standardize data collection regarding the adoption and impact of solar cookers. This survey should be used by anyone who distributes solar cookers.
- This survey is intended for gathering a) baseline data and b) post-distribution data, to build an evidence base from solar cooking projects.
- This survey was created by a working group established at the 5th SCI World Conference in 2014. The group was led by SCI and included many global solar cooking experts who met regularly for more than a year to create and refine this survey.
- This survey has two parts and is intended for collecting before-and-after data for measuring the impact of solar cooker usage.
- Please share the results with Solar Cookers International (SCI).

Considerations:

- SCI recommends follow-up and training – as needed and in addition to conducting these surveys. This helps the new solar cooks feel more comfortable and confident solar cooking before the post-distribution questions are asked.
- All required questions from these surveys should be asked/answered and the questions should be kept as they are, and not modified, aside from being translated into local languages. Maintaining consistent questions and answer format among projects helps when combining evidence-based results from several projects to calculate the global impact of solar cooking (such as [here](#)). This helps track progress and garner support for the whole solar cooking sector.
- There are core (required) and supplemental questions. **Core questions are bolded and marked with an ***. Core questions should be asked for every project. Supplemental questions can be asked based on each project's evaluation capabilities and needs.
- It is recommended to gather post-distribution responses one year after solar cookers have been distributed. If data can be collected more frequently (6 months, 1 year, 2 years, 3 years, etc. after distribution) that is preferred. Consider the expected lifetime of the solar cooker and gathering responses at the end of the dry season.
- Give survey takers direction and tools to convert commonly used fuel amounts into kilograms.
- Make sure surveyors understand definitions for type and model, maintenance, modification, pot and weather suitability prior to asking questions.

PART 1: BASELINE QUESTIONS

(to be asked at the beginning of the project before solar cookers are being used)

For the surveyor to answer:

What date is it today?

What time is it?

What is your location? (City, Country and GPS coordinates if possible)

What is the name of your organization?

For the cook to answer:

What is your name?

***What fuels do you use? (Please circle all that apply)**

Charcoal

Crop waste

Dung

LPG (Liquefied Petroleum Gas)

Kerosene

Wood

Other _____

***How much fuel (quantity) do you use per week that you do not pay cash money for? (Kilograms). List each type of fuel you use, such as: X kg wood; Y kg charcoal...**

How many hours per week do you spend gathering fuel?

***How much fuel do you use (quantity) per week that you pay cash money for? (Kilograms). List each type of fuel you use, such as: X kg wood; Y kg charcoal...**

***How much money (monetary) do you spend on fuel per week? (Include currency)**

PART 2: POST DISTRIBUTION QUESTIONS

(To be asked after cooks have at least 6 months of experience solar cooking)

For the surveyor to answer:

What date is it today?

What time is it?

What is your location? (City, Country and GPS coordinates if possible)

What is the name of your organization?

What is the cook's gender?

Female

Male

Unsure

***What type of solar cooker do they have?**

Panel

Box

Parabolic

Other _____

What specific model solar cooker is it? (for example a CookIt, Sun Oven, or Sol Source)

Is the pot suitable for solar cooking? (Y/N) (Yes if the pot is black, metal, and has a lid)

Comments:

Is the solar cooker well maintained? (Y/N) (Yes is clean and any broken parts are fixed)

Comments:

Has the solar cooker been modified from its original condition? (Y/N) If yes, how has it been modified?

Was the solar cooker in use when you arrived? (Y/N)

Was the weather suitable for solar cooking? (Y/N) (Yes if sunny)

Please take one or more photos of the solar cooker and link photos to the person surveyed.

For the cook to answer:

What is your name?

Can I see your solar cooker?

How many people do you cook for? (Including yourself)

How many are elderly (grandparents generation)?

How many are children (pre-puberty)?

What types of food do you cook?

What temperature(s) are they cooked at? (Please circle all that apply)

Low (such as slow cooking)

Medium (such as baking)

High (such as frying)

(ADOPTION)

***How many times per week do you cook in your solar cooker?**

***Would you recommend it to a friend? (Y/N) Why or why not?**

(ACQUISITION)

***How many months have you had your solar cooker?**

***Did you contribute something (money, goods, work) for your solar cooker? (Y/N)**

If so, how much of what? (please include currency or other unit, such as for time)

Did you receive training on how to use this technology? (Y/N)

Can you get your solar cooker repaired within your community? (Y/N/Unsure)

(COOKING DEVICES)

***How many dishes do you cook at one time?**

***What other cooking devices do you use (including retained-heat cookers)?**

(FUEL SAVINGS)

***What fuels do you use? (Please circle all that apply)**

Charcoal

Crop waste

Dung

LPG (Liquefied Petroleum Gas)

Kerosene

Wood

Other _____

***How much fuel (quantity) do you use per week that you do not pay cash money for? (Kilograms). List each type of fuel you use, such as: X kg wood; Y kg charcoal...**

How many hours a week do you spend gathering fuel?

***How much fuel did you use (quantity) per week that you pay cash money for? (Kilograms). List each type of fuel you use, such as: X kg wood; Y kg charcoal...**

***How much money (monetary) did you save on fuel per week? (include currency)**

OR

Since you have had a solar cooker, do you feel that you use

More fuel

The same amount of fuel

Less fuel