



SCI 
**SOLAR COOKERS
INTERNATIONAL**

Annual Report 2022

Your Impact with SCI

Mission / Vision Statement

The mission of Solar Cookers International is to improve human health, economic well-being, women's empowerment, and the environment by promoting climate-friendly solar cooking for vulnerable populations worldwide.



Letter from the Board President and Executive Director

Every day at Solar Cookers International, we focus on one thing... creating the change you want to see in the world. For women like Grace on page 5, no longer having to search for firewood is changing the world. How do you feel knowing that you've changed Grace's life and those of her children? That is where change begins. It begins with one.

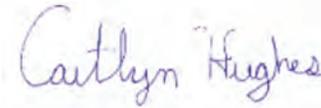
One solar cooker will enable Grace to have more time to do other things. Her son will not remember what it was like breathing in toxic fumes or getting burned. Trees and forests will be left untouched. Reductions in greenhouse gas emissions will lead to cleaner air.

Thank you for changing the world – one solar cook at a time.

Best,



Dr. Shishpal Rawat,
Board President



Caitlyn Hughes,
Executive Director



The California State Legislature presented SCI with a resolution for being a winner of the prestigious Keeling Curve Prize.



Photo credit: Heather Resetarits

Here's what some of you had to say about SCI

"Educating leaders about the effectiveness of solar cooking and providing them with the latest data about its effectiveness is very important."

-Walter

"I think what SCI is doing is so vital to saving the planet and helping people around the world."

-Elizabeth

"I feel the most important benefit that SCI provides is valuable cooking alternatives to families and communities in the developing world for whom obtaining cooking fuel is a very real hardship."

-Jack

For nearly 35 years – together – we have been empowering generations of women and protecting our environment. THANK YOU! You shared through SCI's annual survey that these world issues continue to be where you hope to see change. True change begins with knowledge - *and this is where our team excels.*

You empower nations with programs that grow knowledge to become self-sufficient. Skilled caseworkers provide training to women on how to use their new locally built cookers. Follow-up services include in-home visits addressing family cooking needs and the economic and health impacts of solar cooking.

This is knowledge that transforms lives.



You provided these women with training to begin a life-changing journey with their newly built solar cookers at Kakuma Refugee Camp, Kenya.

You bring hope and a brighter future to refugees in Kenya

The lives of over 1,900 refugees at Kakuma Refugee Camp, Kenya, have been changed over the last few years BECAUSE OF YOU. As higher fuel costs and the quickly depleting supply of fuel creates a desperate situation, your compassion, generosity, and kindness have brought peace of mind to moms who no longer must pay for, or even barter their food for charcoal or firewood.

This initiative includes best practices, such as training and follow-up. The training program includes women who know the languages spoken in the camp, understand the subtleties of the cooking customs, and build trust among the participants. This culturally sensitive approach is critical in introducing new technology, such as a solar oven, to those who have typically cooked over an open fire.



Grace* heard about solar cooking from others in the camp and decided to sign up for the program. With limited quantities of solar cookers available and a long list of women on the sign-up sheet, Grace was thankful to receive one. **She discovered that this strange orange box sitting by her side would offer her choices.** [A rare concept living in a refugee camp.] Grace now has choices - THAT IS EMPOWERMENT.

You have helped save Grace's life. She must no longer spend her precious savings or barter her food for fuel. Her son will not remember when cooking meant risking being burned. He will now grow up in a healthier and safer environment. The next generation will not be reliant on scarce and costly firewood and charcoal or on fossil fuels for cooking. This cooker will provide choices for this family for 15 years or more.

"The food is well cooked. I have today cooked githeri (traditional Kenyan dish) and it did awesomely well. I am happy that henceforth, my stress is gone. No more looking for charcoal and firewood. My kid here wants to try the food and he likes it," says Grace.

*Personal details of the people we serve have been protected for their privacy.



Photo credit: Ecomandate 6

You bring
the voices of
solar cooking
collaborators
from around
the globe to
the world
stage

Knowledge is power – education is key

Advocacy means bringing expertise and resources to the change-makers of the world.

SCI is currently the only organization solely dedicated to solar cooking that also has consultative status to the United Nations. SCI brings solar cooking awareness and education to the most vulnerable countries through large-scale conferences and events held by entities such as the United Nations and the World Bank.

This year you provided solar cooking expertise to over 3,400 people throughout the world through nearly 40 presentations, talks, webinars, and events – and even more people were reached through published articles.

Creating the change you want to see in the world starts with one

One conversation, one idea, and the desire for change.

Women leaders grow stronger with a seat at the table. You empower them with the knowledge to transform lives for generations to come.

Climate change, air pollution, and deforestation are all reduced because you provide the means to put knowledge into action.

You are educating the next generation of solar cooking advocates with your support.

To read more about SCI's advocacy events, visit www.solarcookers.org/about/blog.



SCI Science Director Alan Bigelow, Ph.D. and artist Mary Frank hold a solar cooking demonstration in New Paltz, New York, USA.



SCI volunteer Cathy Vollmer describes solar cooker designs to students during Earth Day presentations in Northern California, USA.

THANK YOU for providing vital, lifesaving research-based solutions to the most vulnerable countries of the world through SCI's participation in numerous international events



SCI with representatives from the Republic of Cameroon and the Republic of the Marshall Islands at COP26.

World Health and Sustainability

SCI at the United Nations High-Level Political Forum

Over 140 registrants from 12 different countries attended to advance the 2030 Agenda for Sustainable Development.

Empowering Women

SCI at the United Nations Commission on the Status of Women

Focused on achieving gender equality for women and girls, this event had over 175 registrants, 13 countries represented, and a number of requests for information addressed.

Environment and Health

The World Bank / Energy Sector Management Assistance Program hosted an SCI webinar to exclusively educate and inform government ministers and World Bank representatives about the power of solar cooking. 84 people attended SCI's webinar from various regions.

Climate Change

The United Nations Climate Change Conference (COP26)

This event brought together 120 world leaders, over 40,000 registered participants, and 3,886 media representatives. SCI held and participated in 7 press conferences to advocate for increased clean cooking and support. SCI also held 3 side events, including discussions with the World Health Organization and Keeling Curve Prize representatives.

“We are slowly starving without the ability to cook.”

Without you, cries for help from places like Sri Lanka will go unheard and unanswered.

“This is of critical importance as time is of the essence.”

These countries need people like you. Caring people who understand the challenges faced by the most vulnerable in developing parts of the world. Change-makers who know that impact comes from research-based solutions.

Photo credits: Rob Tyrrell



SCI Executive Director Caitlyn Hughes and SCI Science Director Alan Bigelow, Ph.D. host a side event at the Cryosphere Pavilion.



SCI joins the Global Warming Mitigation Project (funders of the Keeling Curve Prize) as speakers at their press conference.

SCI shares its solar cooking expertise to an international audience



Because of your support, Solar Cookers International is recognized as a leader in the solar cooking sector. This year, SCI was featured in numerous international publications such as:

- CNN
- The World Economic Forum
- Mongabay
- Atlas Obscura

With a worldwide audience, SCI shared our expertise in solar cooking technology and emphasized its positive impacts on the environment and the health and well-being of women, children, and entire communities. Reaching hundreds of thousands of readers worldwide, SCI is amplifying your voice on the global stage!

If education
is the key
– the Solar
Cooking
Wiki is
the door.

You provide vital resources and solar cooking news from 142 countries around the globe. The Solar Cooking Wiki remains the world's largest online solar cooking database, attracting more than 358,000 page visits this year, and accessible in 40+ languages.

Visit solarcooking.org for all of your solar cooking needs.

The screenshot shows the homepage of the Solar Cooking Wiki. At the top left is the SCI logo (Solar Cookers International). To the right of the logo is the text 'Solar Cooking Wiki' and a '1,831 PAGES' indicator. Below the logo are navigation links: 'EXPLORE', 'LEARN', 'TEACH', 'SEE ALL', and 'ABOUT'. A search bar is located on the right side of the page. The main content area features a green banner with statistics: '142 Countries + 297 NGOs + 198 Individuals', '157 Manufacturers + 640 Designs + 113 Plans', and 'Sponsor: Solar Cookers International'. Below the banner are three orange buttons: 'Find your country', 'Build a cooker', and 'Buy a cooker'. At the bottom, there is a section titled 'Solar cooking around the world' with links for 'News', 'EVENTS', and 'New Content'. On the right side, there is a list of links under the heading 'The Solar Cooking Wiki'.

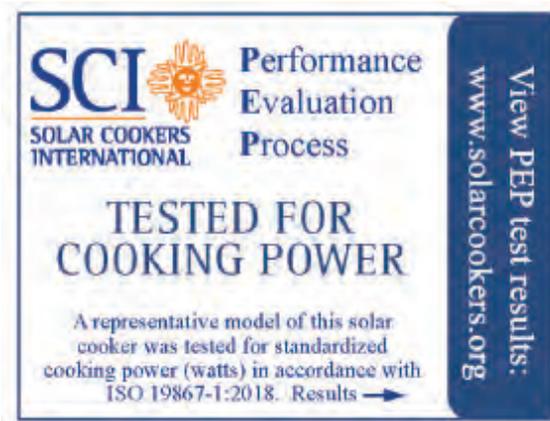
SCI's Performance Evaluation Process reaches a wider audience

SCI joined 240 attendees from all around the world for the first ever fully virtual Solar World Congress 2021, organized by the International Solar Energy Society (ISES).

SCI gave a presentation about its Performance Evaluation Process (PEP) solar cooker testing program at the virtual meeting, and an accompanying manuscript was submitted and accepted for publication in the conference proceedings – available at: <https://proceedings.ises.org/paper/swc2021/swc2021-0078-Bigelow.pdf>



Example of an SCI PEP tested solar cooker.



Look for this SCI PEP tested label which manufacturers have permission to use once the testing process is complete and the PEP results report is approved by the manufacturer.

PEP results provide a single measure of thermal performance – standard cooking power – so consumers may compare different designs when selecting a solar cooker

The standard cooking power is the uptake of power in water. Since power can be defined as a change in thermal energy per time, the standard cooking power can be interpreted as the heating rate (change in temperature per time) for an amount of water in a solar cooker that is proportional to the size of the solar cooker. Hence, the standard cooking power is a relevant specification for a solar cooking appliance. All SCI PEP tested solar cookers have been able to boil water.

Solar cookers are listed alphabetically and color-coded by type:

- Reflective-panel cookers (**orange**)
- Box ovens (**green**)
- Evacuated tubes (**purple**)

| Solar Cooker Name | Standard Cooking Power (watts) |
|-----------------------------------|--------------------------------|
| CooKit with oven bag greenhouse | 46 |
| CooKit with Pyrex bowl greenhouse | 58 |
| Fornelia Mini | 93 |
| Glenergy Solar Cooker | 85 |
| GoSun Sizzle | 99 |
| Haines 1 | 41 |
| Haines 2.0 | 82 |
| StarFlower | 117 |
| SunFocus, by Sun BD Corporation | 52 |
| Survivelt2 | 24 |
| UGLI, by Sun BD Corporation | 61 |

To access PEP results reports for individual solar cookers, visit www.solarcookers.org/work/research/results.

THANK YOU!

Because of you...

Trees grow in the forest

Girls can now attend school

Carbon dioxide emissions
are decreasing

Women are safe from violence

Families are overcoming poverty

On their behalf,
Thank you!

A special thanks to our generous funders:*

Anonymous

Agua Fund, Inc.

Distracted Globe Foundation

Global Warming Mitigation Project - Keeling Curve Prize

Marjorie and Jerry Fruin Charitable Fund

The Morris and Alma Schapiro Fund

Paul Bechtner Foundation

Sacramento Region Community Foundation

SCI would like to recognize the following Legacy

Circle Member whose gift was realized in 2021:

"The estate of Leila B. Johnson."

*Funding organizations who generously gave \$10,000 or more

And...

SCI Associates

SCI Global Advisors

SCI Legacy Circle Members

SCI President's Circle Members

SCI Volunteers

SCI Collaborators

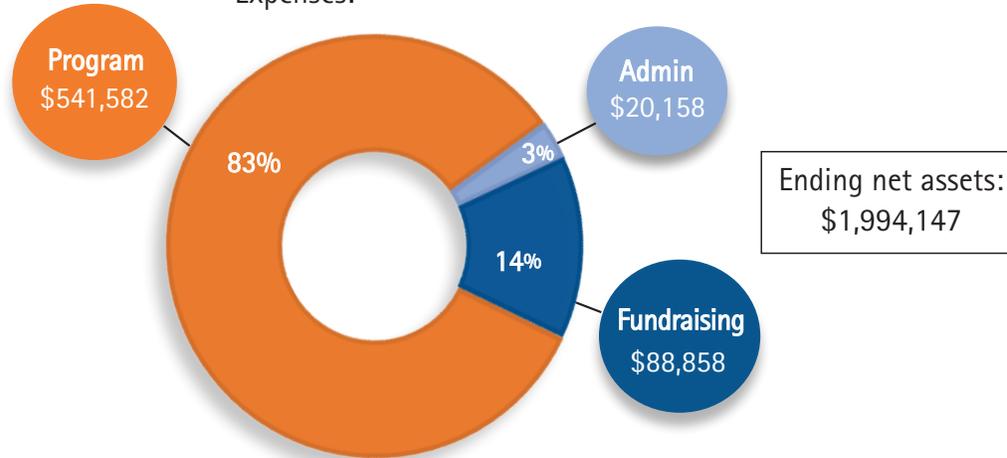
All of SCI's supporters, including YOU!

Your Impact with SCI

Fiscal Year: 7/1/2021 - 6/30/2022

Total income: \$1,068,523

Expenses:



Your generosity empowers SCI to be strategic and impactful in its growth, weather global financial uncertainty, and be financially sustainable. Thank you.

"The simplicity of the technology, the inclusive educational programs SCI employs, and the continual outreach to the international community to spread SCI's message to areas in greatest need is what I value most about the organization."

-SCI supporter John

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Thank you!



**Highest Rating 6
Years in a Row**

Solar Cookers
International consistently
receives the highest
ratings from charity rating
organizations including
Charity Navigator,
GuideStar, and the Better
Business Bureau.

Platinum
Transparency
2022

Candid.



SCI 
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