



Your Solar Home Student Guidebook and DVD have several audiences. For schools, it can be used to integrate solar energy activities into the existing classroom curriculum. The companion *Teaching Solar* guide highlights teaching strategies and provides links to national subject standards.

Outside the classroom, *Your Solar Home Student Guidebook* provides the tools needed to better understand and utilize a sustainable resource that's been around since the beginning...the Sun!

*"I teach a solar energy unit every other year with the solar house model as the culminating project. I will use the book as a text for teaching concepts and a resource book during the construction of the models. Thanks for doing this. It's a resource that is sorely needed."*

—Otak Jump, Ohlone School, Palo Alto, CA

*"Your Solar Home Student Guidebook and DVD have been invaluable in our class. We're using the book as the text for our renewable energy class. Thanks for a great resource!"*

—Floyd Green, Corning High School, Corning, CA

**\$18 USD**

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**Solar Energy/Environment/Education**

**Why did the ancient Greeks face their buildings to the south?**

**Can you really bake cookies with sunlight?**

**How does a Trombe wall keep a house cooler in the summer?**

An incredible amount of energy comes to earth in the form of sunlight. Every house is a potential solar collector, ready to harness this endless supply of energy and put it to work for us.

*Your Solar Home* helps to demystify the concept of a solar home, providing the scientific basis for the many ways you can capture the sun's energy to heat, cool, and power your home.

**Topics covered include:**

- Solar orientation through the seasons
- Principles of energy and heat transfer
- Passive solar heating and cooling
- Heating water with the sun
- Cooking with sunlight
- Solar electricity
- Historical references and interesting solar energy facts

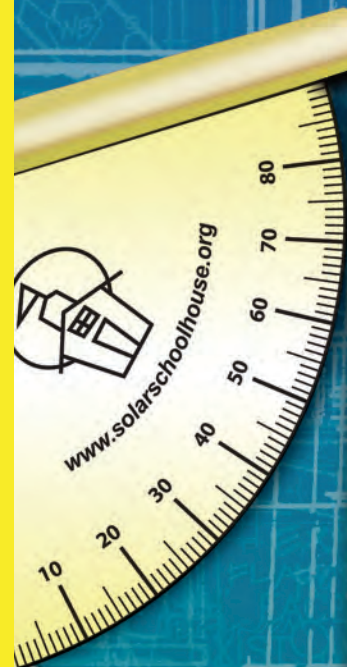
**Your Solar Home Student Guidebook**

A Rahu Institute-Solar Schoolhouse Publication

**NEW EDITION**

# YOUR SOLAR HOME STUDENT GUIDEBOOK

**The Art and Science of Heating, Cooling, and Powering  
Your Home with the Sun**



**Includes  
19 Student  
Projects**



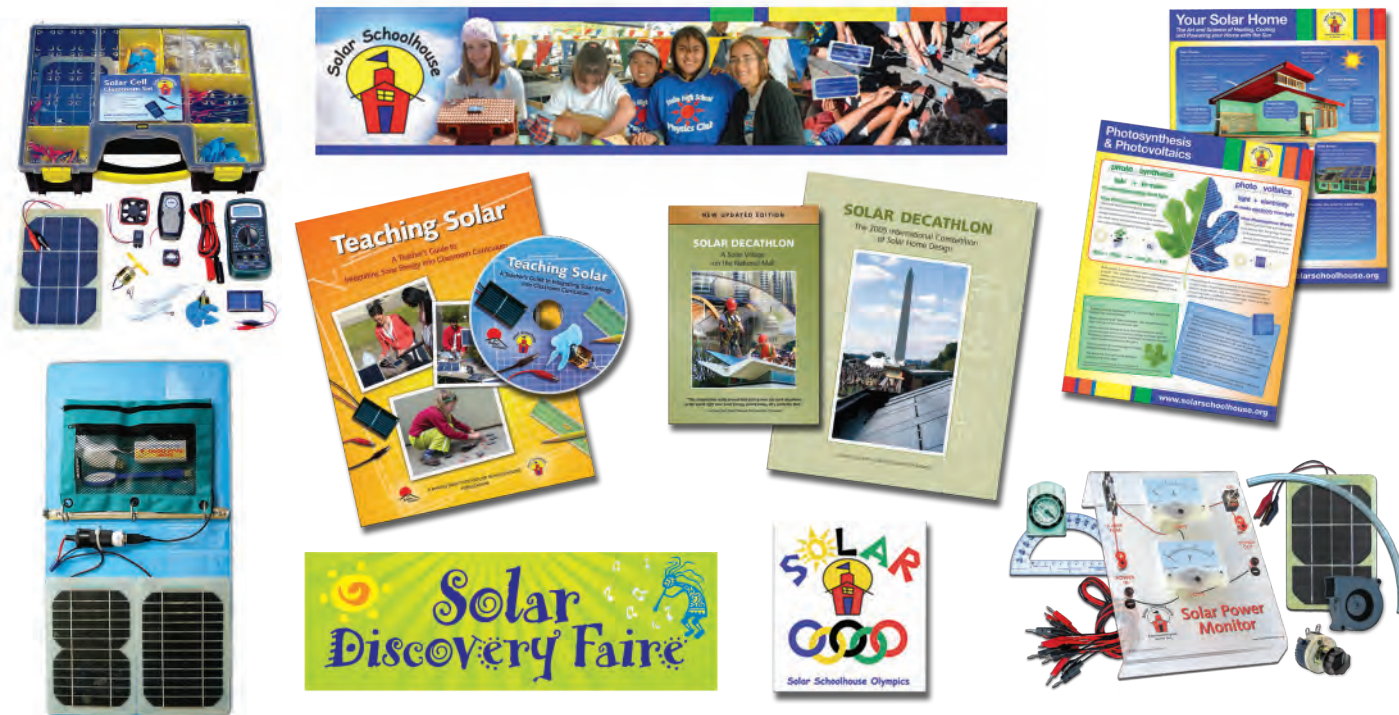
Founded in 1998, The Rahu Institute is a 501c3 non-profit organization dedicated to the promotion of renewable energy and resource efficiency.  
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A Rahu Institute-Solar Schoolhouse Publication







## Education Energized by the Sun



Solar Schoolhouse is a K-12+ energy education program developed by The Rahu Institute. The program introduces students to the concepts of solar energy in a fun, intriguing, and meaningful way. Using hands-on, project-based teaching tools, the program seeks to raise energy literacy in schools throughout the country by educating students about solar and renewable energy, energy resource conservation, and other energy topics. The central theme of the program is teaching about solar energy by developing a personal connection to our homes. With every home a potential solar collector, learning about solar energy becomes an exercise in discovering and understanding how our homes can capture sunlight to provide heating, cooling, lighting, cooking, and power for our daily lives. Principal features of the program include:

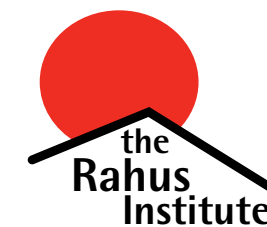
- Lesson plans correlated to state and national curriculum standards. Lessons are modular for ease of integration within the existing school programs.
- Teacher training in the form of half- and full-day workshops, and the 5-day Solar Schoolhouse Summer Institute.

- Assistance and consultation with the development and implementation of new curriculum and special solar projects.
- Solar Schoolhouse Olympics is a student competition to creatively design projects that demonstrate the concepts of renewable energy.
- Resource materials including solar panels, the Solar Power Monitor Set, the Solar Cell Classroom Set, Solar Fountain Sculpture Set, Solar Notebook Charging Kit, sun ovens, and more.
- Guidebooks including solar fountain design, and activities for environmental outdoor educators.
- Solar Schoolhouse Class Notes is an e-newsletter highlighting solar school projects.
- *Your Solar Home* video, poster, student and teacher guidebooks.
- *Teaching Solar, A Teachers' Guide to Integrating Solar Energy into Classroom Curriculum*
- Real time monitoring system for grid-tied solar electric systems, allows students and faculty to compare performance of their school solar system with schools across the country. SSh provides lessons for students to evaluate the performance of school solar arrays

For more information, visit [www.solarschoolhouse.org](http://www.solarschoolhouse.org).



## Solutions for a Sustainable World



Founded in 1998, The Rahu Institute is a 501c3 non-profit, research and educational organization with a focus on resource efficiency. The word, Rahu (raw-hoos) is derived from the name of the Egyptian sun god, 'Ra' combined with the Norwegian word for house 'hus'; literally, sun house. Our motto,

Solutions for a Sustainable World, sums up our guiding goal to create a better world and better lives through the use of clean technology and intelligent implementation. The Rahu Institute aspires to accelerate the use of resource efficient technologies and practices. We foster research, development, demonstration, education and policy change using a variety of programs and targeting multiple audiences. Currently our primary focus is through the Solar Schoolhouse program, a solar energy education program designed to raise solar literacy and better prepare students to be active participants in shaping a clean energy future.

