



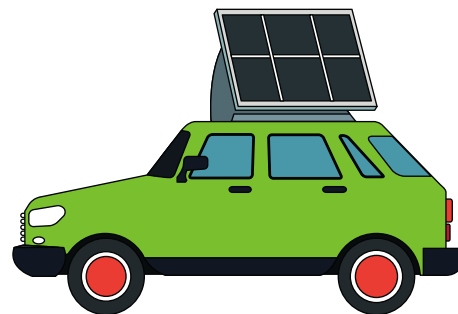
SCIENCE CAREER  
ADVENTURES

**Quinn the Solar Power Engineer:  
Solar-Powered Devices**

# Who is Quinn?



Hi guys! I am Quinn, and I am a solar-power engineer. Solar power is energy that comes from the sun. A solar power engineer makes devices or machines that use solar power as a source of energy. For example, a solar car can use power from the sun to move!



# Solar Power and Electricity

I own a company called "Sunny Side Up"! My company makes devices and machines that use solar power. My company is based in Phoenix, Arizona.

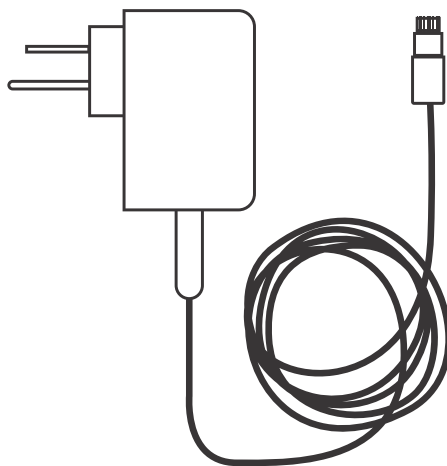
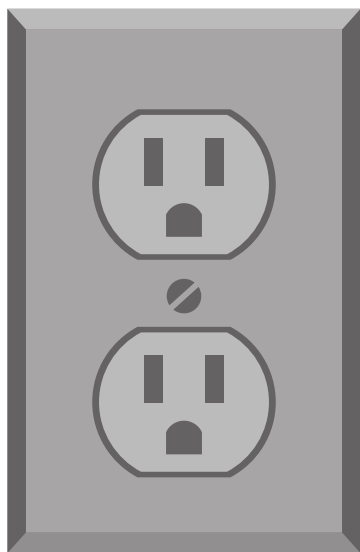


**SUNNY SIDE UP**

SOLAR POWERED MACHINES AND DEVICES



Most machines and devices are powered using electricity. You use electricity whenever you plug things into a wall outlet, like phone chargers or microwaves. Electricity is being sent to your home from an electric company. People pay electric companies for this energy.



# Solar Power and Electricity

In many countries, like Ecuador and India, people do not have electricity at all. Sometimes this is because they do not have enough money to pay for electricity. Other times, it is because there are no energy companies around them.



My company makes solar-powered machines for people to use. If people don't have electricity, they can use energy from the sun to create power! Some of the solar-powered machines are lights, ovens, and heaters. We also have solar-powered chargers people can use to charge cell phones and computers.



# My Podcast

I started a podcast to share information about my solar-powered machines. A podcast is like a talk show that is shared on the Internet. That means anyone around the world can listen to the podcast if they have access to the Internet. In my podcasts, I talk about the machines and devices my company creates. I also interview families using our machines and ask them how they are helping to make their lives easier.



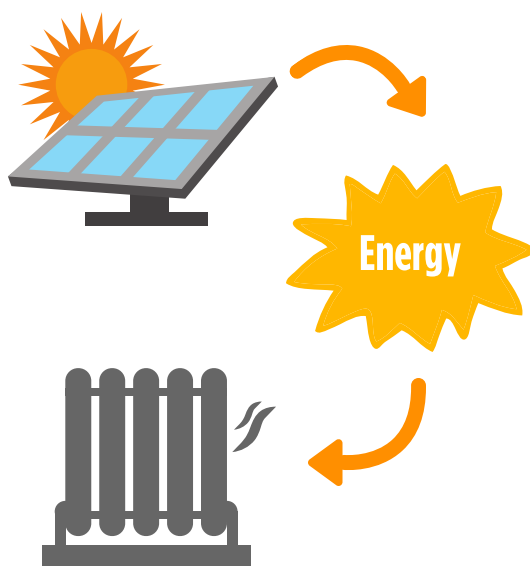
# Recording a New Podcast Episode

Today, I am recording a new podcast episode about my solar-powered heater. The episode is called "Homes and Hearts." Here are the steps I take to record my new episode!

## 1 First, I plan to explain how the heater works.

Here is what I'm going to say:

- The solar-powered heater has a special panel on the outside.
- Sunlight (solar energy) enters the heater through the panel.
- The heater uses solar energy to work and make heat.
- Heat comes out of the heater and warms up a room or home.



## 2 Second, I am going to share several stories about people using the heater.

I am so excited to share these stories. I am proud that my company has created machines that can help people around the world.



# Gathering and Analyzing Information

To gather people's stories, I sent a team from my company to travel to different areas. When the team arrives to visit a family, they ask them questions. They use cell phones to record what the families say. Some of the questions are about their lives, such as how many people are in the family. Some of the questions are about how the heater has helped them.

**Here is one interview my team had with a family in Ecuador!**

**Question to the family:** How many people are in your family?

**Answer:** There are six of us. I am the mom and I have five kids, two boys and three girls.

**Question:** What do you do for work?

**Answer:** I make baskets and clothing to sell.

**Question:** What do you usually eat for dinner?

**Answer:** Most of the time, we eat beans and rice. Sometimes we have fruits.

**Question:** How has the solar-heater helped your family?

**Answer:** The heater has made our lives so much better. Before, we had electricity, but it didn't always work. Now, we can use the heater anytime we want!

**Question:** Is the heater hard to use?

**Answer:** It is very easy! We put it outside during the day and the sunlight goes into the heater. Then at night we bring it into the house, and it keeps us warm.

# Completing and Uploading Podcast

Lastly, I use special equipment to put together all of the pieces of the podcast, including the stories from the families and the story about how the heater works. That way, the podcast is like one long story. Once all of the pieces are put together, I can upload my podcast to the Internet!



I also always invite listeners to send me messages and emails. I ask them to tell us what other machines they need! That way we know what kind of solar-powered device to make next!

