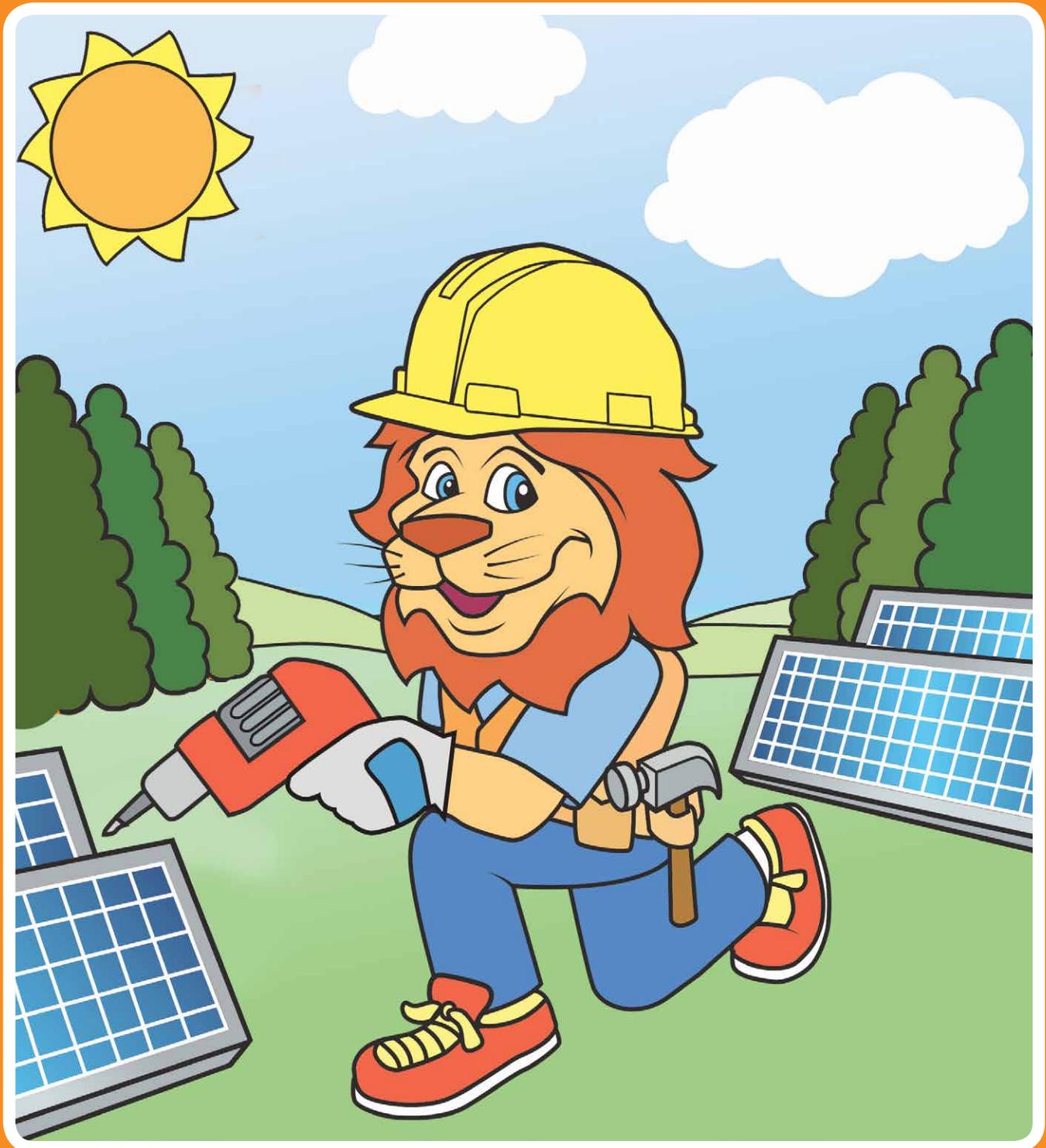
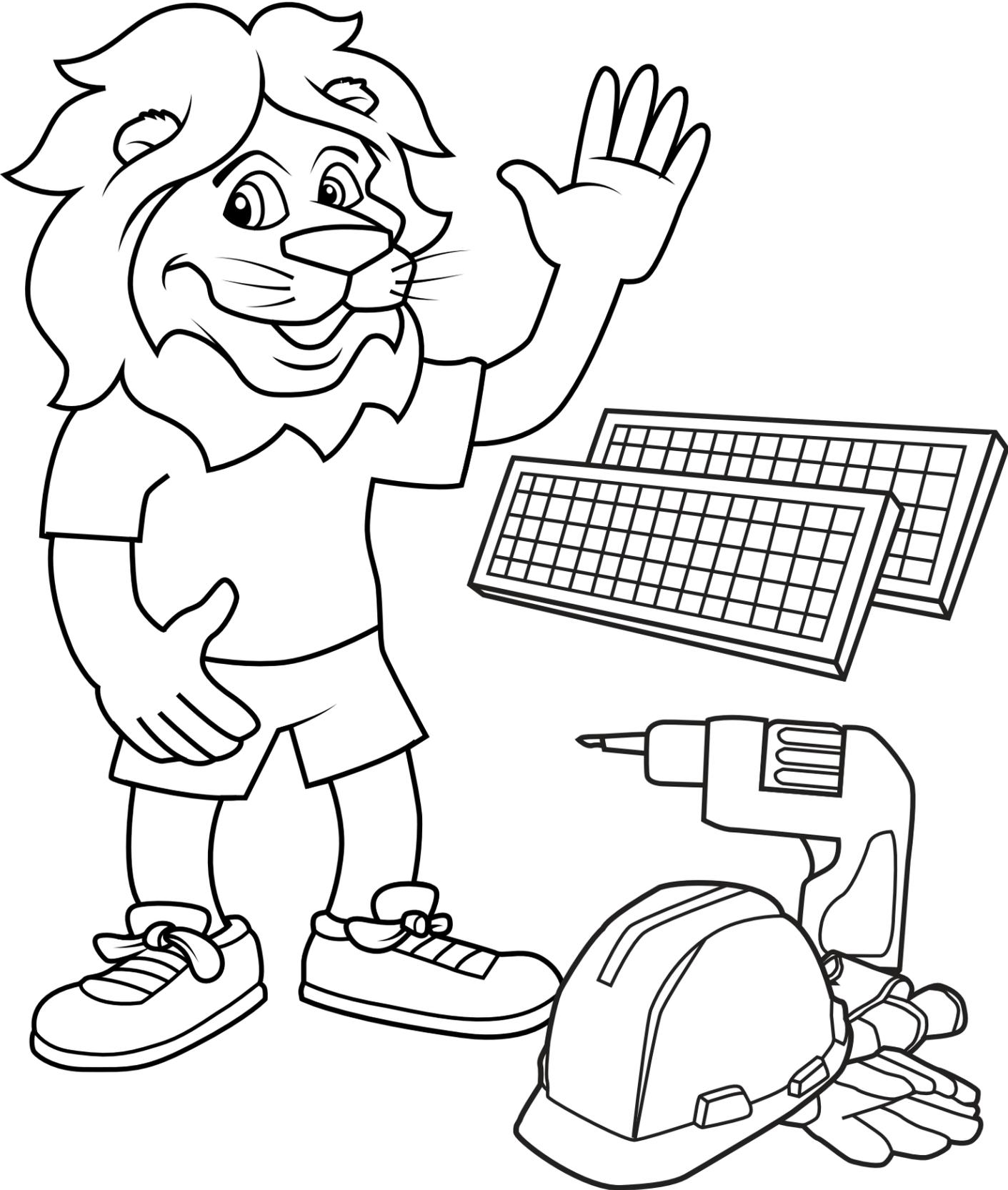


# The Amazing World of **SOLAR ENERGY**

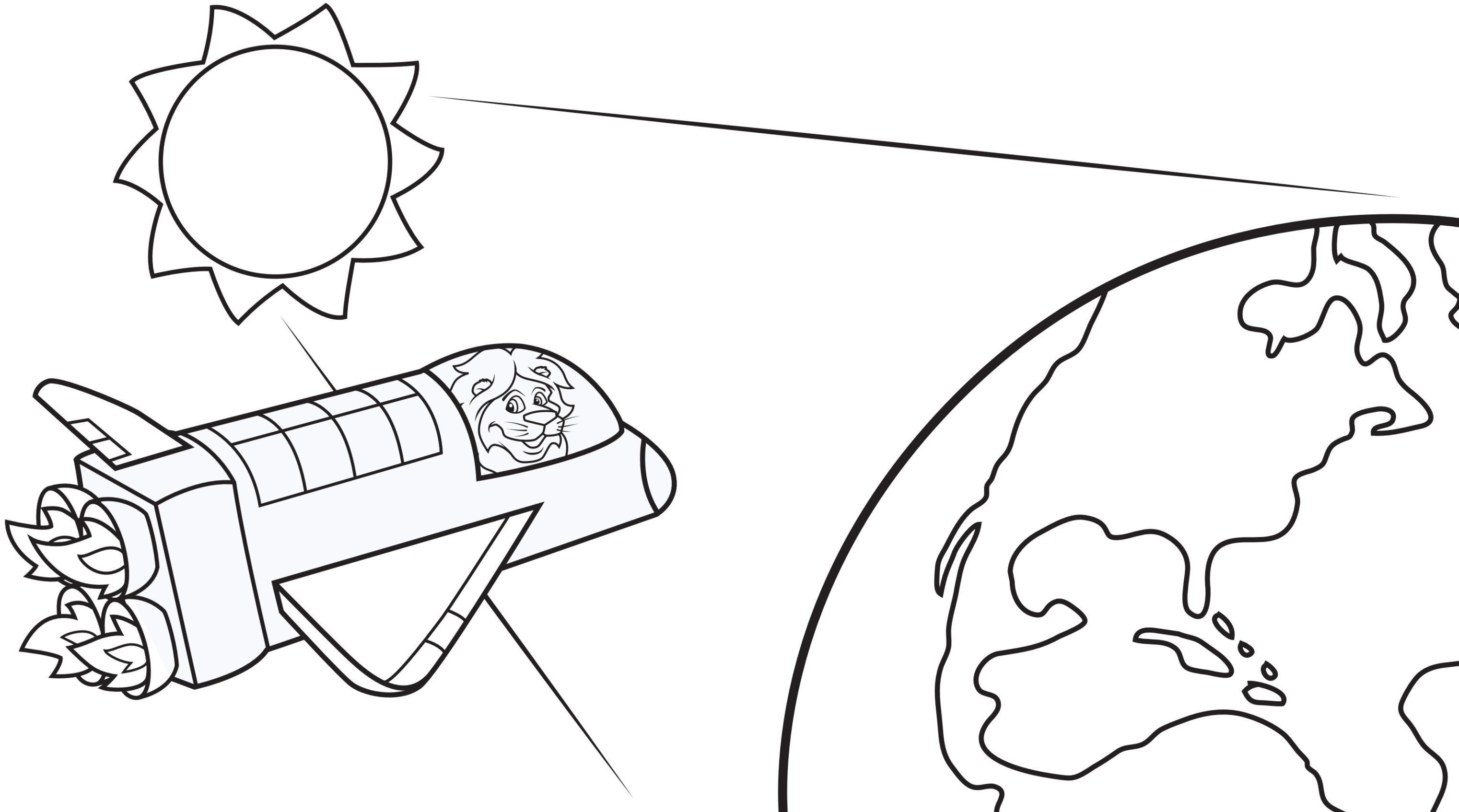


Hi, I'm Ray the Lion, and I'm here to teach you all about solar power.



We all know that the sun shines on the earth and gives us light and heat.

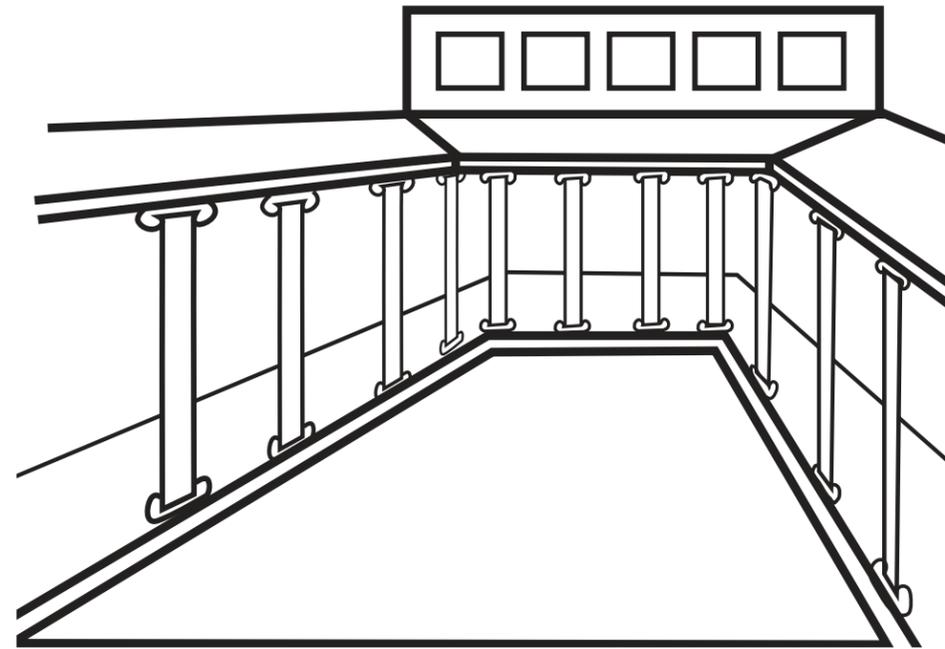
But did you know that this light and heat from the sun is also a form of energy that we can catch and turn into electricity?



I love to sit back and catch some rays.  
It keeps me nice and warm.

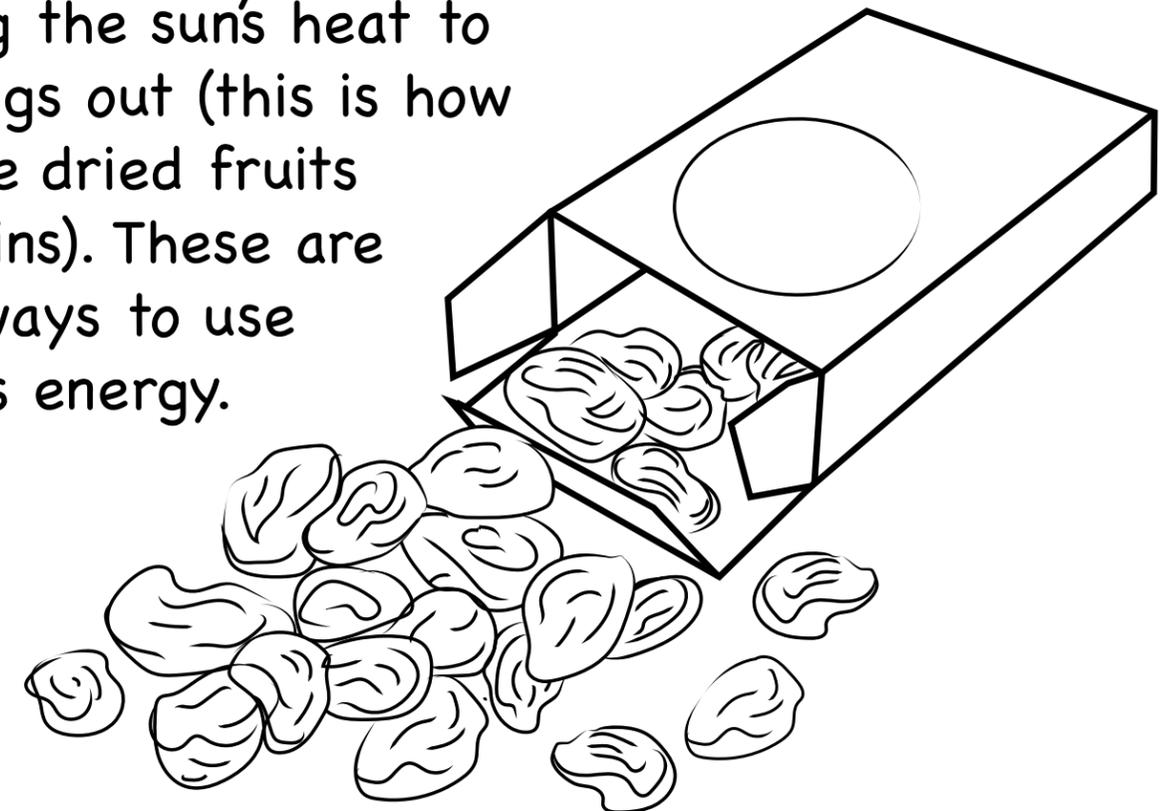


People have used the sun's energy for thousands  
of years in lots of different ways.



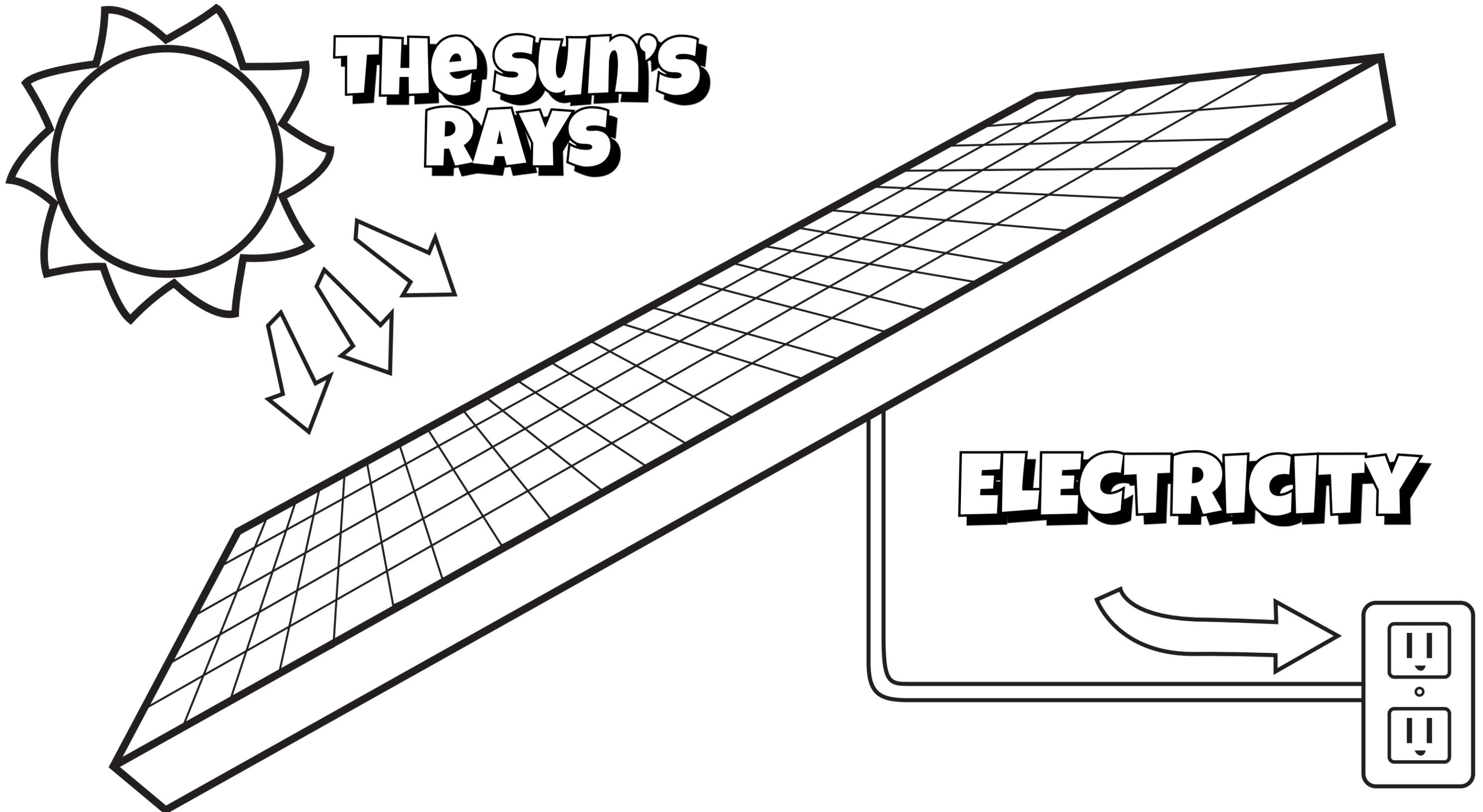
Like building  
houses with  
windows  
facing south  
to catch the  
sun's warmth.

Or using the sun's heat to  
dry things out (this is how  
we made dried fruits  
like raisins). These are  
simple ways to use  
the sun's energy.

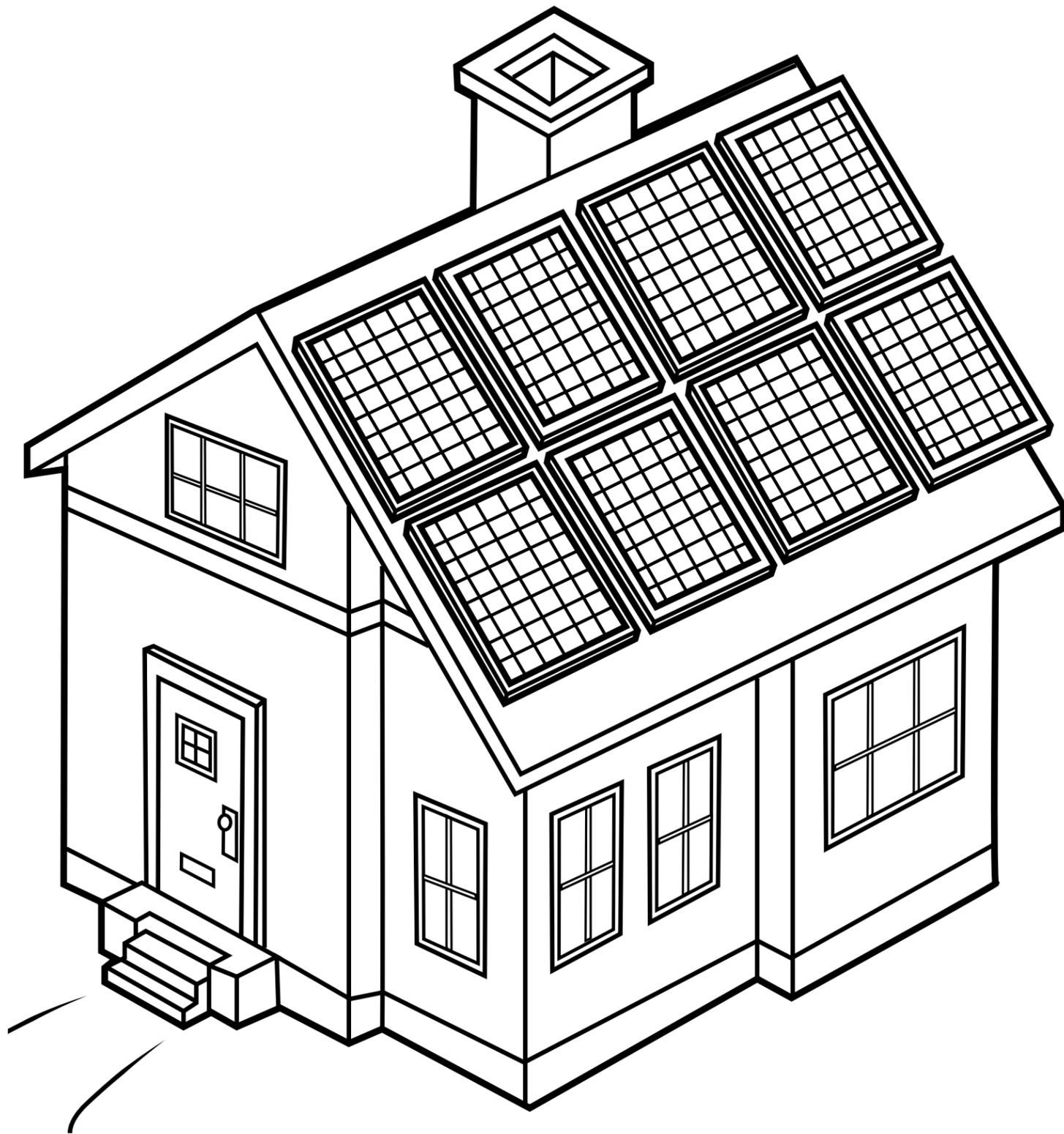


We can also use the sun's energy to charge a cell phone or turn on the lights at home. To do that we need **solar PV** technology!

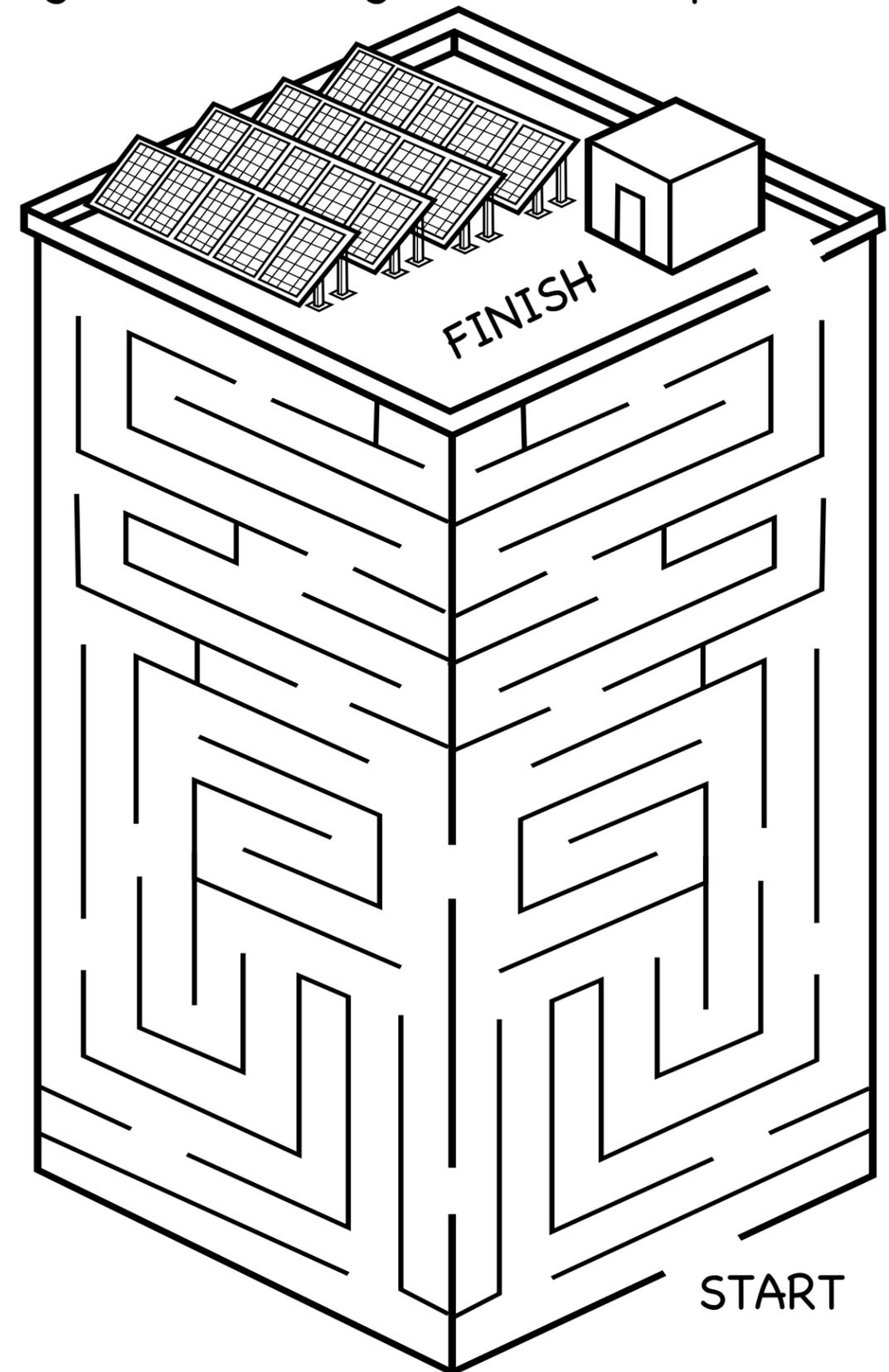
**Solar PV** (short for **photovoltaic cells**) uses Solar Panels to catch the sun's light and heat and turn it into electricity.



The sun comes up every morning, and everyone can use it. Lots of people put solar panels on their roofs to make electricity for their houses.

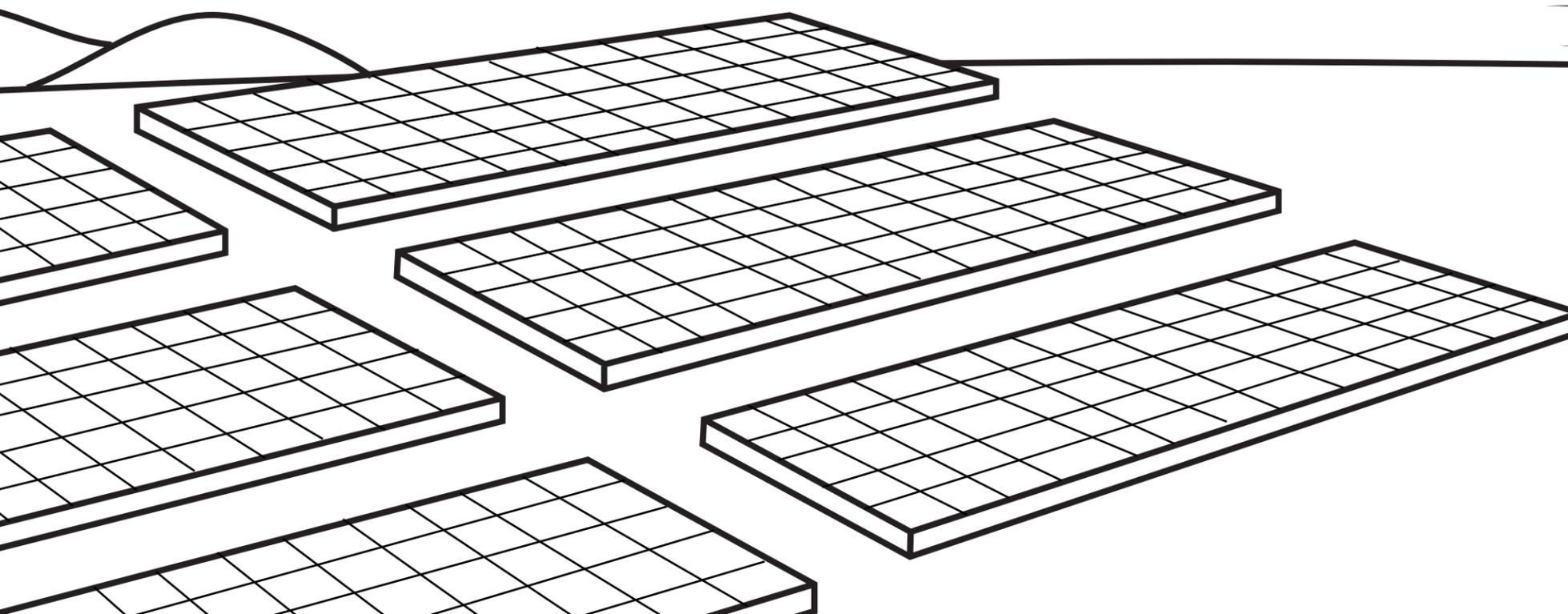
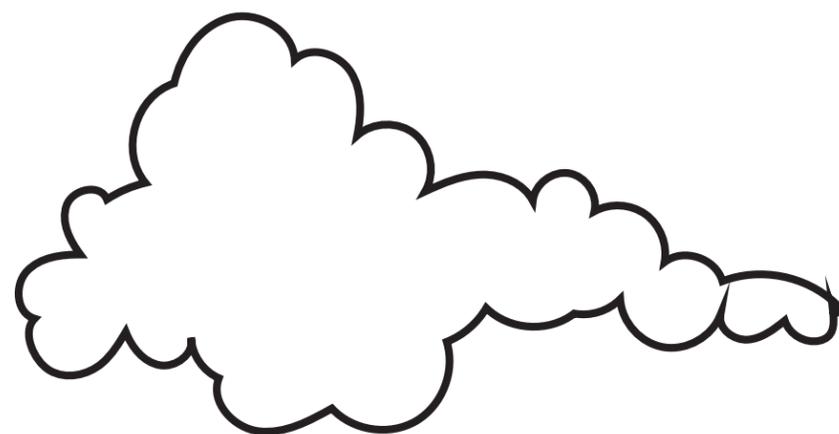
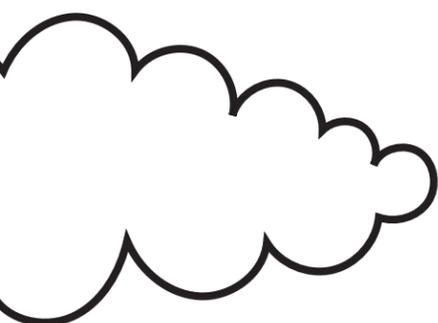
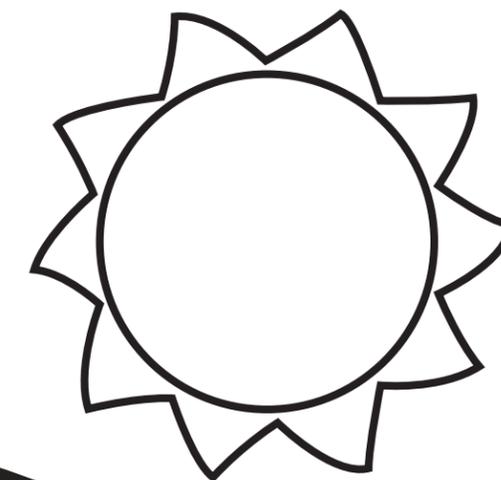


Sometimes companies put solar panels on the roofs of office buildings. Can you find your way through this building to the solar panels on top?

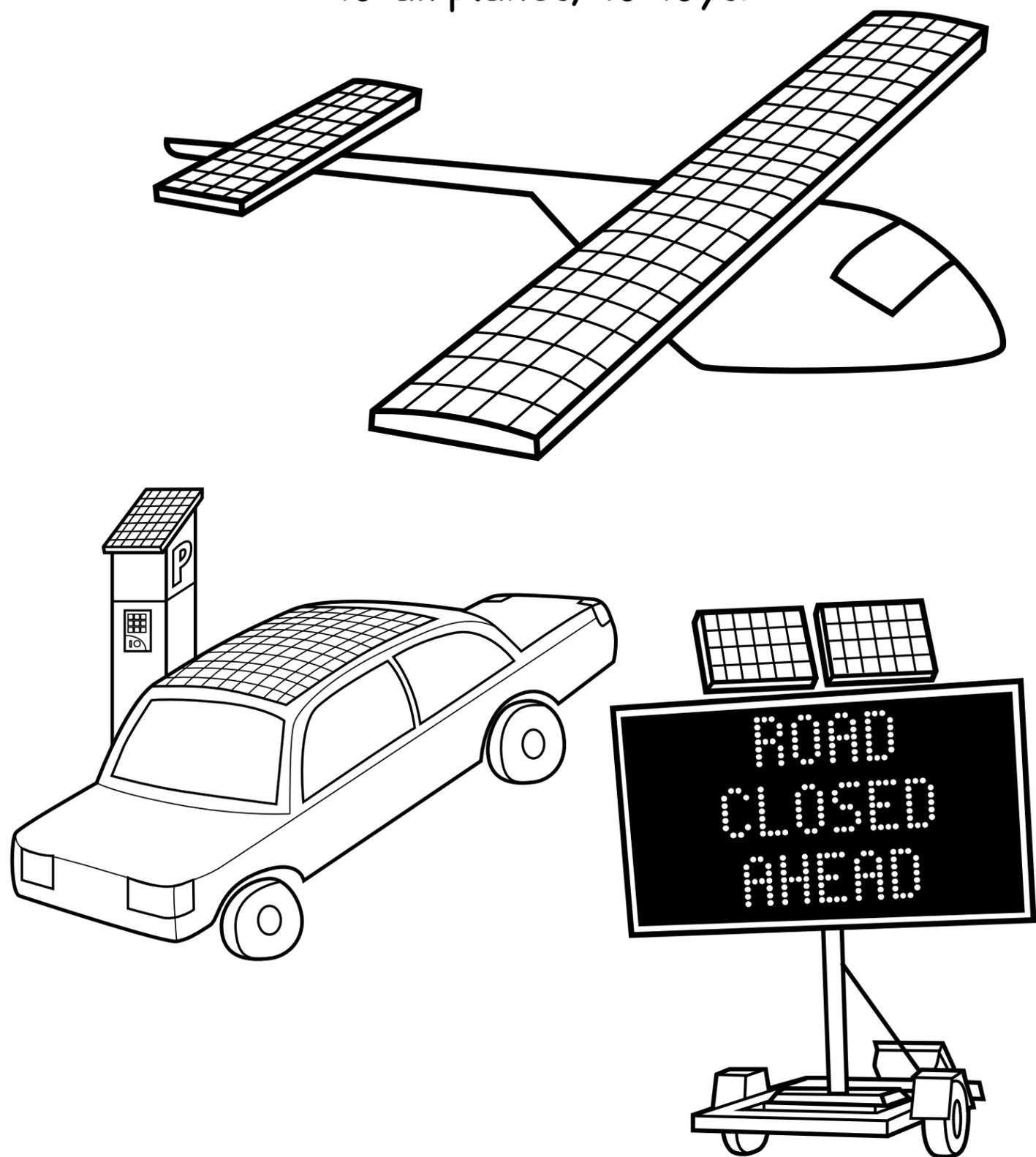


In some places thousands of solar panels are put next to each other to make solar power plants. These power plants generate lots of electricity and send it through power lines to cities and towns.

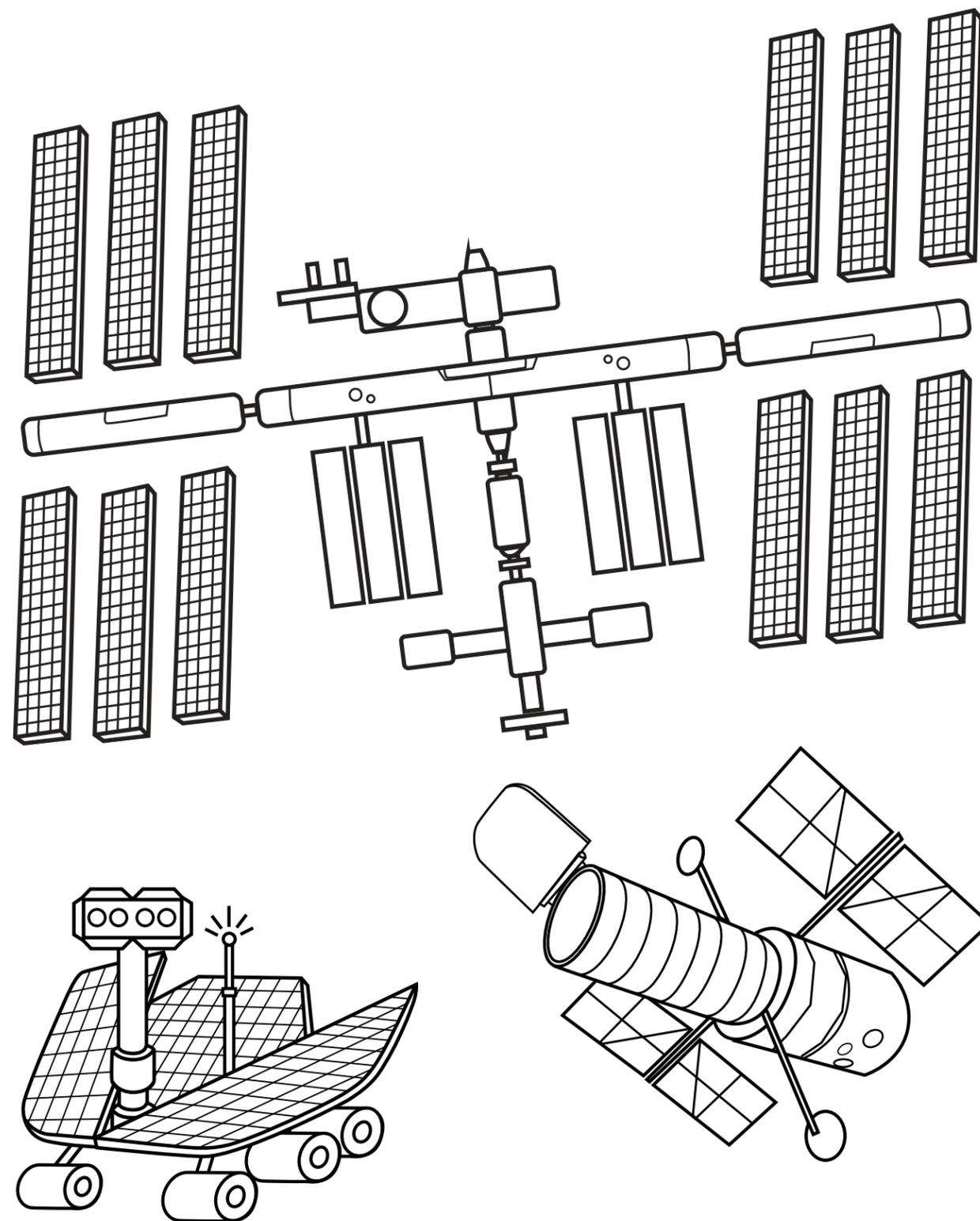
The largest solar power plant in the United States is in California. It covers 5 square miles, that's about the size of a small town!



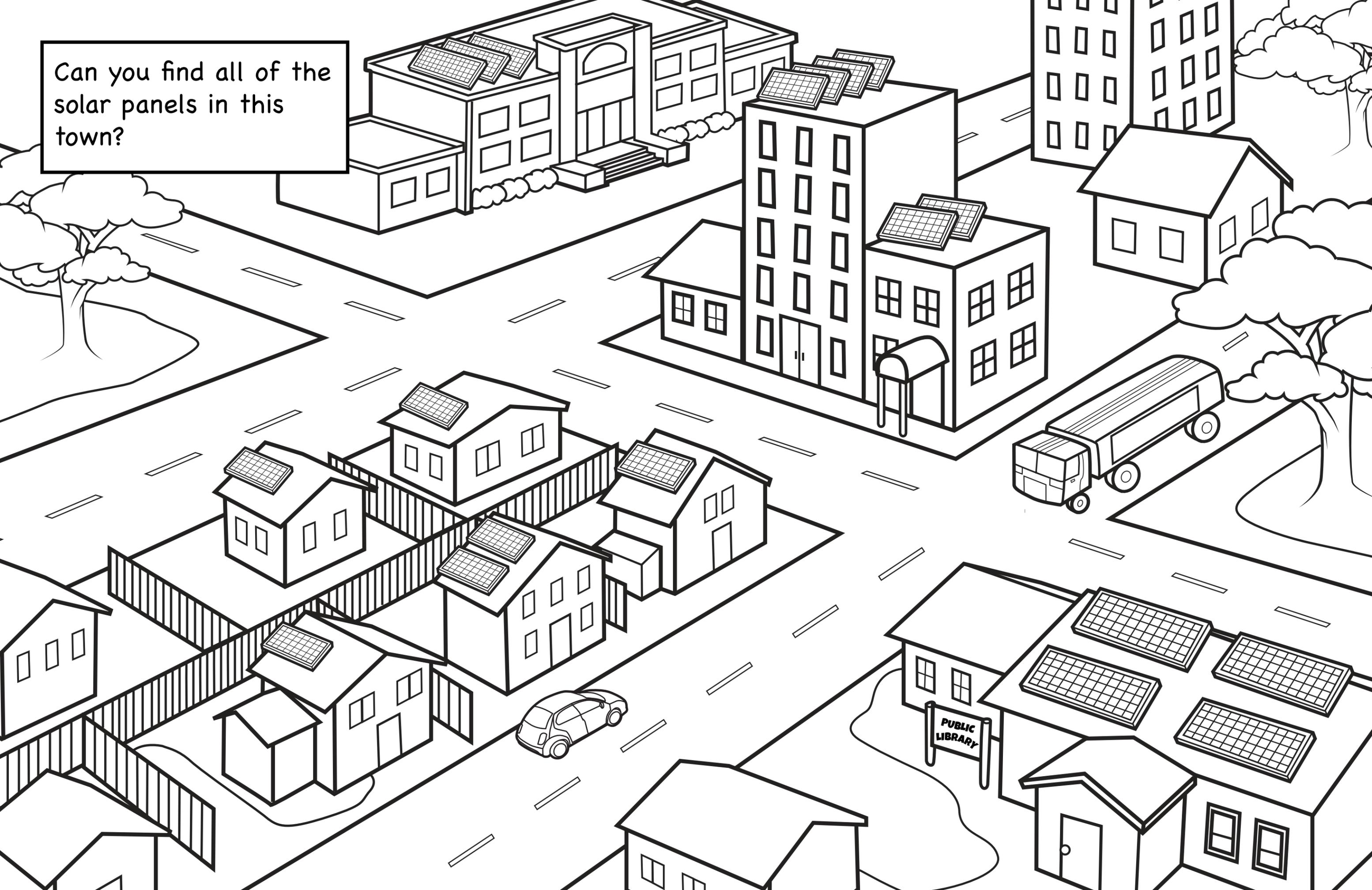
But not only buildings and power plants use solar power. Solar panels can be used to power all kinds of things, from street signs, to airplanes, to toys.



We even use solar panels in space! They power things like the International Space Station, the Hubble Telescope, and the Mars Rover!



Can you find all of the solar panels in this town?



So remember, kids, solar energy is

**AMAZING!**





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