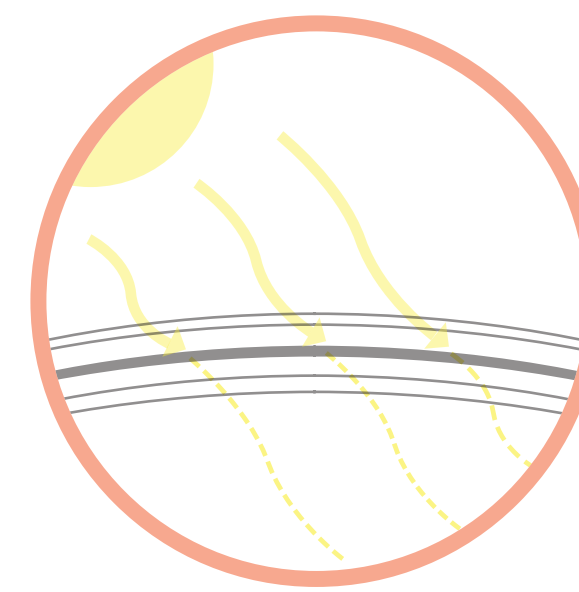


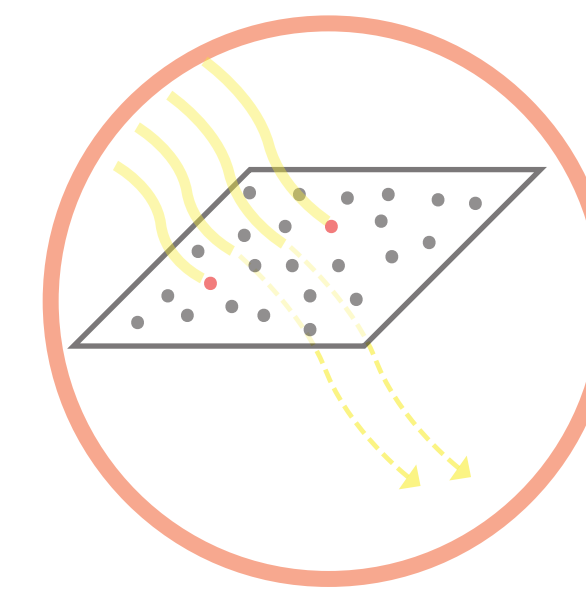
Solar Energy

Sunlight



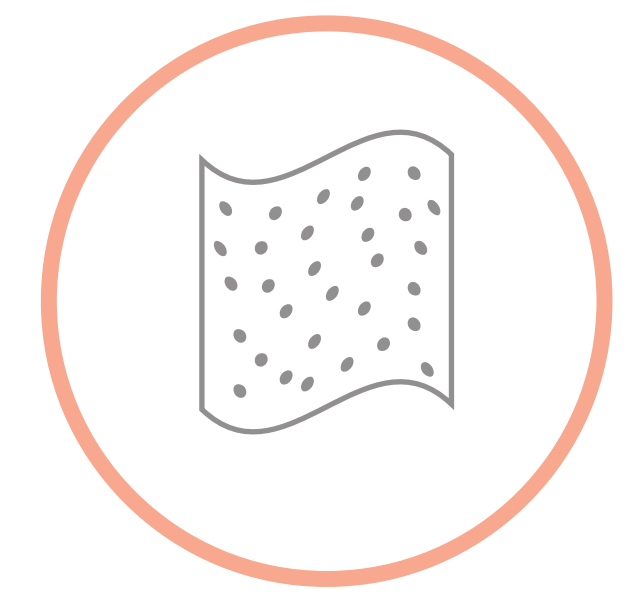
Solar panels are wrapped around the whole outer shell of the turtle. Sunlight must be able to pass through the layer of panels in order to heat up the sea water that is inside of the shell.

Transparency



Transparent solar panels are used to allow the maximum sunlight exposure to the water while also capturing energy from the sun. Each sheet has tiny solar dots that harvest the sun's energy while letting the rest pass through

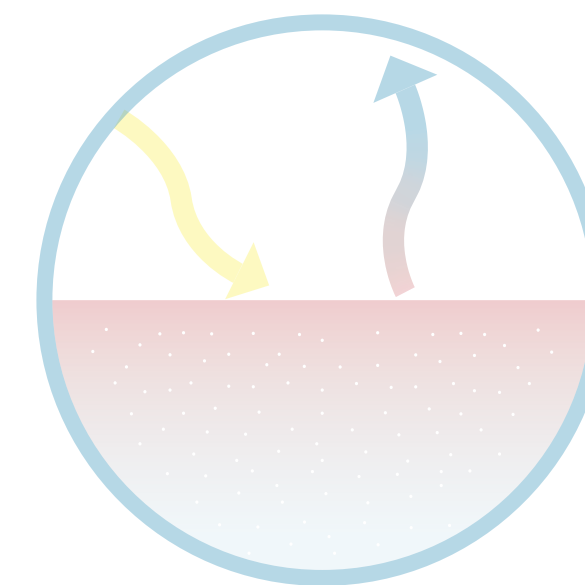
Flexibility



Since the turtle's shell is round, the solar panels must be flexible. This semi transparent and flexible solar technology exists and would pair perfectly with this project. The flexibility provides maximum sun exposure.

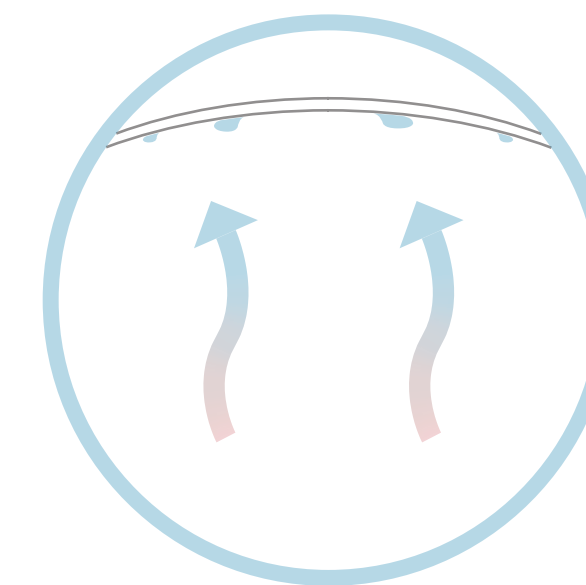
Water Collection

Heating



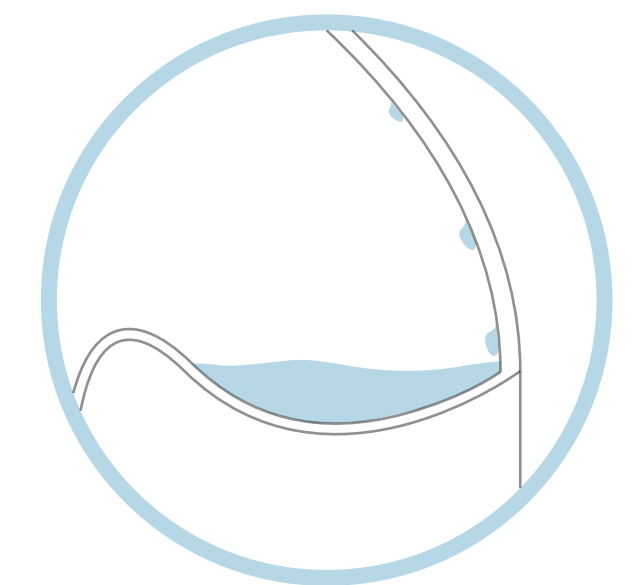
When water reaches a high enough temperature, the liquid is turned into a gas, and leaves any extra baggage behind (salt). The gas then rises to the top of the dome for the next phase in the process.

Condensation



When the gas hits the top of the dome it cools back down to a pure, drinkable liquid. The water then travels the inner shell of the art piece and collects other droplets until it reaches the bottom.

Collection



At the bottom of the dome is a full ring where the water is collected. The water then is funneled into a pipe and transported for immediate use. There is no salt in this new water, so it is very safe to drink.

Daily Water and Energy Collection

463,698 W
500 gallons

18,580 W
100 gallons

322,014 W
400 gallons

28,580 W
200 gallons



=

1,165 roller coaster rides

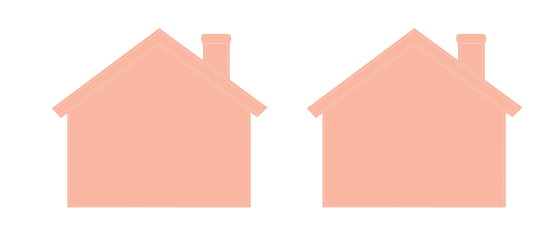


7,000 bottles of water



=

76 houses



190 beach showers

