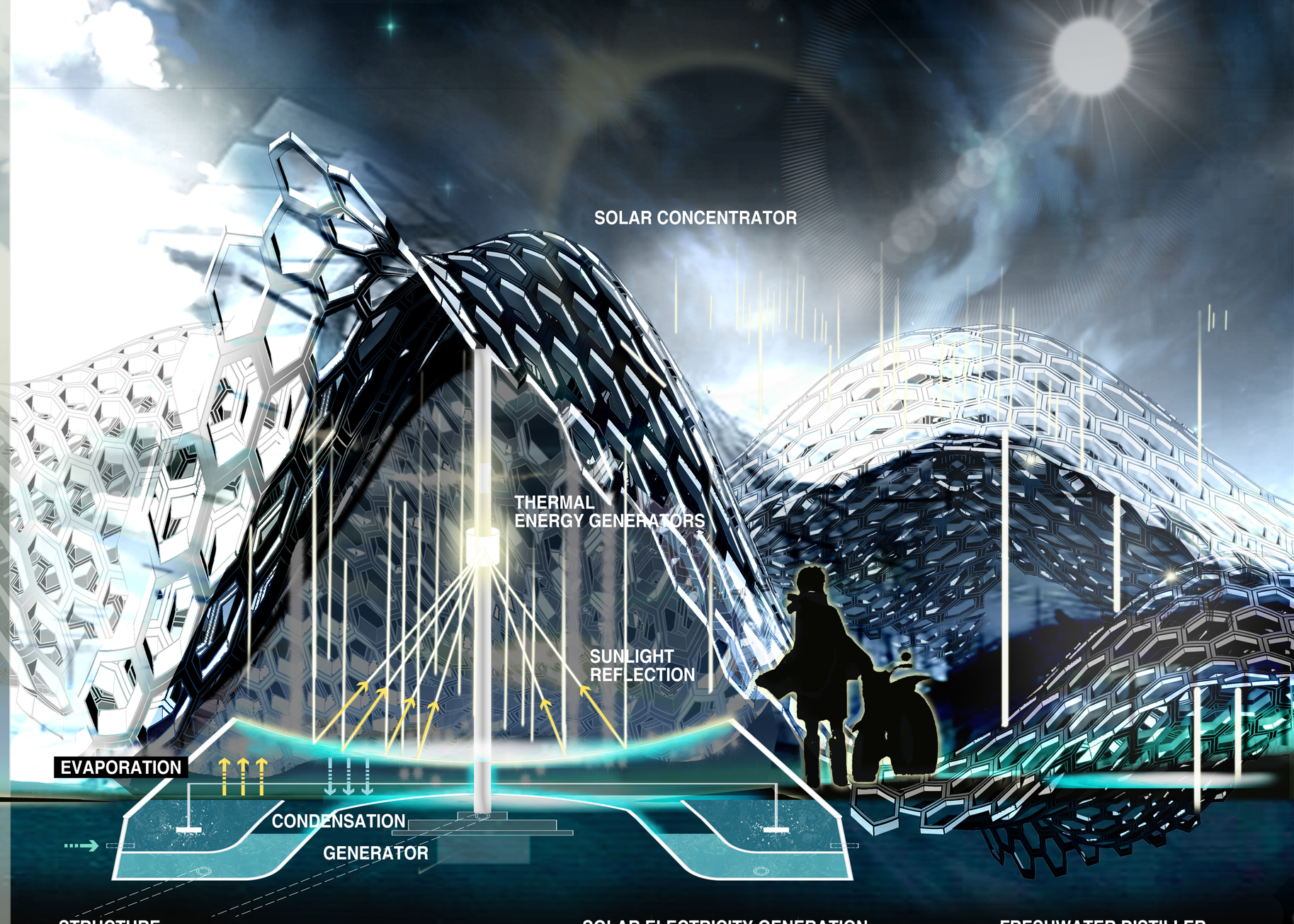
SOLAR ELECTRICITY GENERATION AND SEAWATER DESALINATION

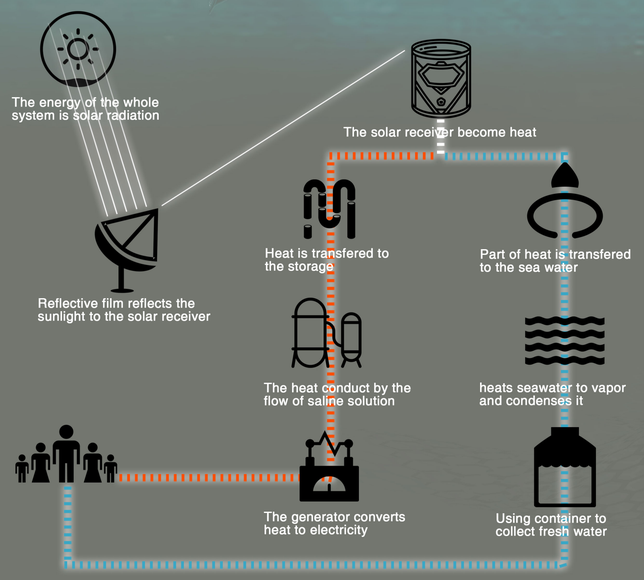
Each single solar electricity generation and seawater desalination device is consist of **solar concentrator**, **freshwater distiller** and **thermal energy generators**, which is set on a structural polymer **resin base** floating on the water. Solar concentrator can generating thermal energy, whose major component is Silver polymer film and Solar Receiver. The heat conduct by the flow of saline solution within the rod, to the freshwater distiller and thermal energy generators.

A portion of the heat is transferred to the seawater tank in the **freshwater distiller** through the salt solution, which heats seawater and produces water vapor. Water vapor condenses on the back of reflective film, which has a lower temperature. The condensed water flow by gravity to the fresh water tank in the center, and further conducted into pipeline connection to beach for visitor use.

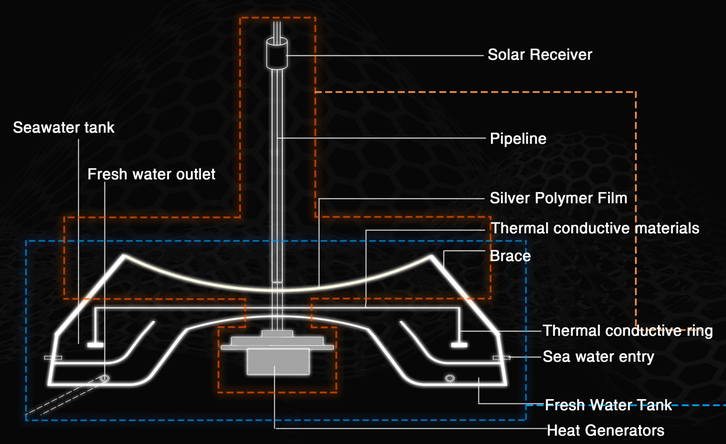
The rest of thermal energy becomes **electricity**, part of it stored for devices' motion and lighting during night; part of it conducted through cable connecting to City Hydro cable.

WISUALIZTION

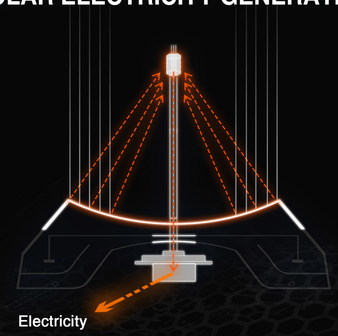




STRUCTURE

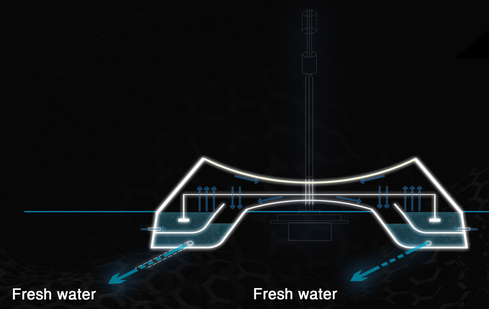


SOLAR ELECTRICITY GENERATION



Major component of Solar concentrator is Silver polymer film and Solar Receiver.The heat conduct by the flow of saline solution within the rod to generate electricity.

FRESHWATER DISTILLER



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