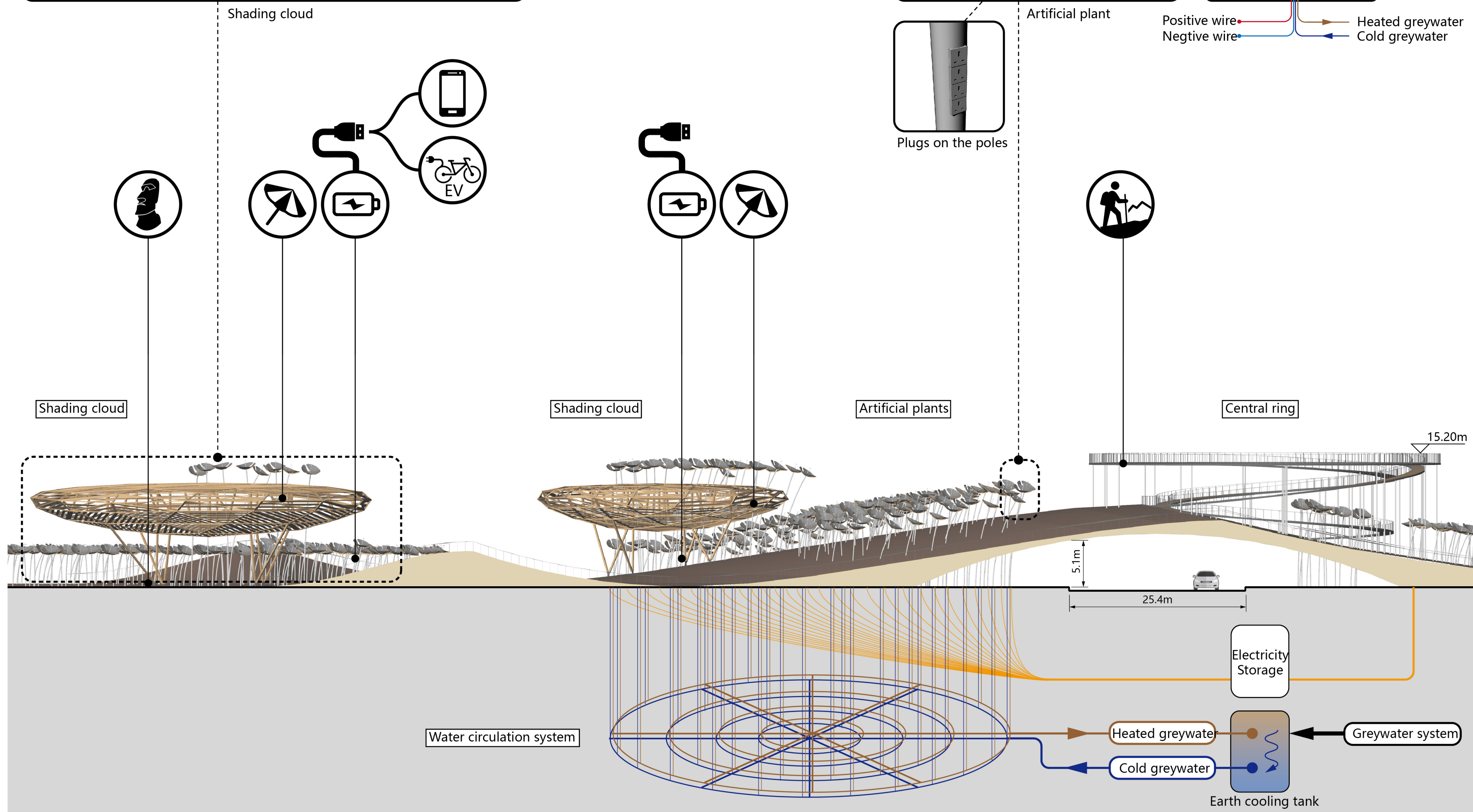
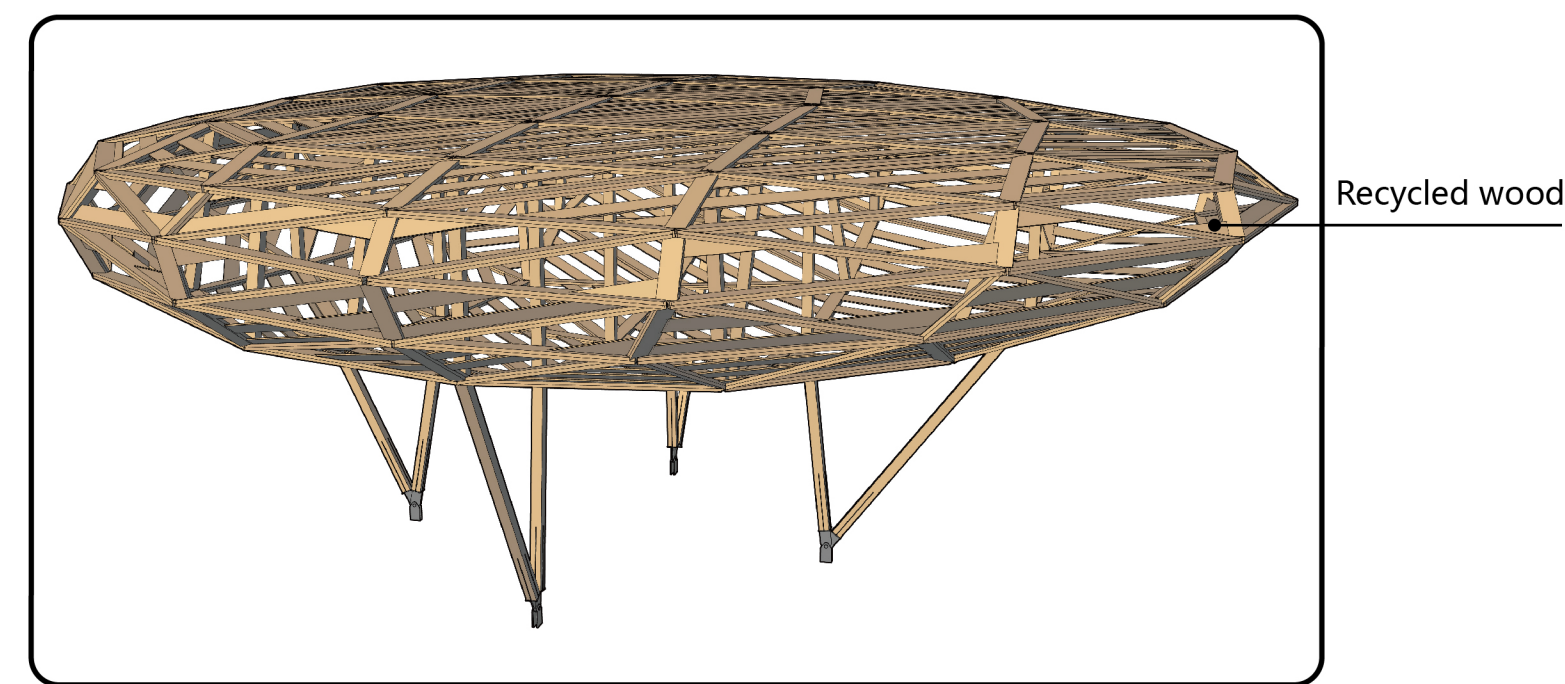


Main technology of THERMO OASIS is Thermoelectric generation (TEG)
 A TEG device creates voltage when there is a different temperature on each side. 80 pieces of TEG are attached to the vacuum tube of the solar collector. The hot side of the TEG is on the outer side of the vacuum tube, using solar energy to heat. Parabolic reflector is used to focus the heat of sun on the solar collector. While the cold side has thermal insulation material and spiral cooling tube installed on the inner side of the vacuum tube, cooled down by unending circular grey water from underground pipe system. In this way can temperature difference be created in the vacuum tube and electricity be generated.

Primary materials:
 Reclaimed wood
 Reclaimed metal
 Reclaimed plastic
 TEG
 Aluminum foil
 Water circulation pipes
 Circuit parts

Conceptual cost estimate:
 Ground and structure of the site: \$100 per m2, \$2,700,000 in total.
 Artificial plants (solar collector) and other devices: \$3500 each, \$2,250,500 in total
 TEG: \$20 per piece, \$1,028,800 in total
 Total cost: \$5,979,300



Environment
 Most materials of THERMO OASIS are supposed to be reclaimed wood, material and plastic from the Material Recycling Center west to the site. Reclaimed wood can be used to pave the ground, build the cloud and the holder of the parabolic reflector. Reclaimed metal can be used to make the pole of the plants as well as the holder of the parabolic reflector. Reclaimed plastic can be used as the base of the parabolic reflector and parts of solar collector.