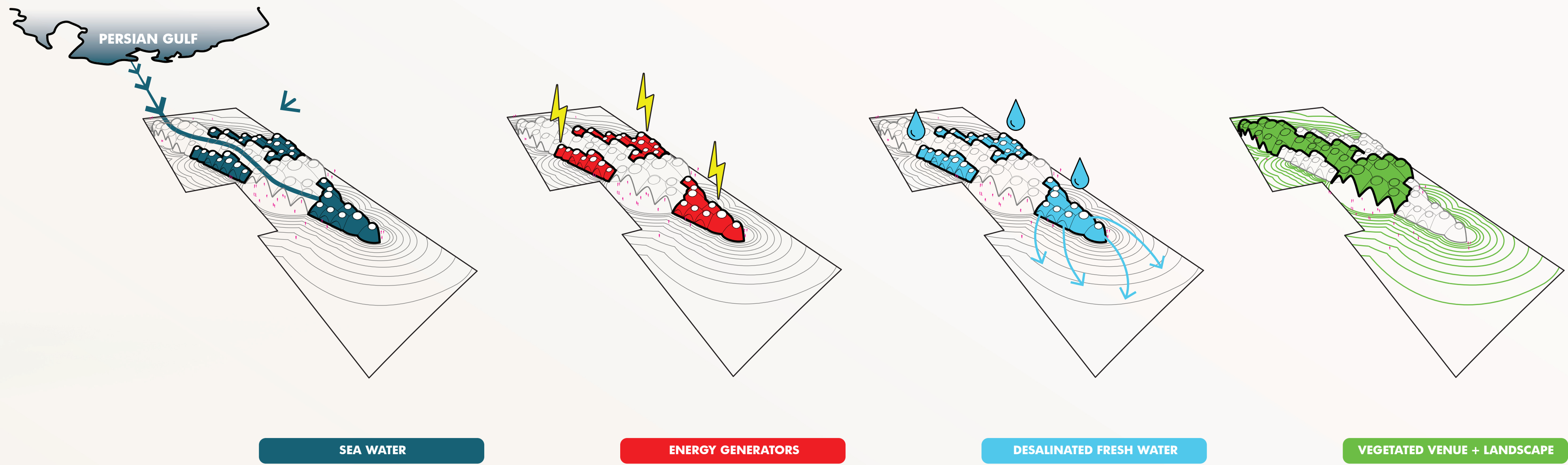


SUNGLASS₀₂

We conceptualize SunGlass as a catalyst for the desert. Born of sun and sand, it generates both electrical power and freshwater. SunGlass' existence slowly transforms its site into a verdant garden space, offering a cooler microclimate for visitors with shade, pools and the evapotranspiration of the plants.

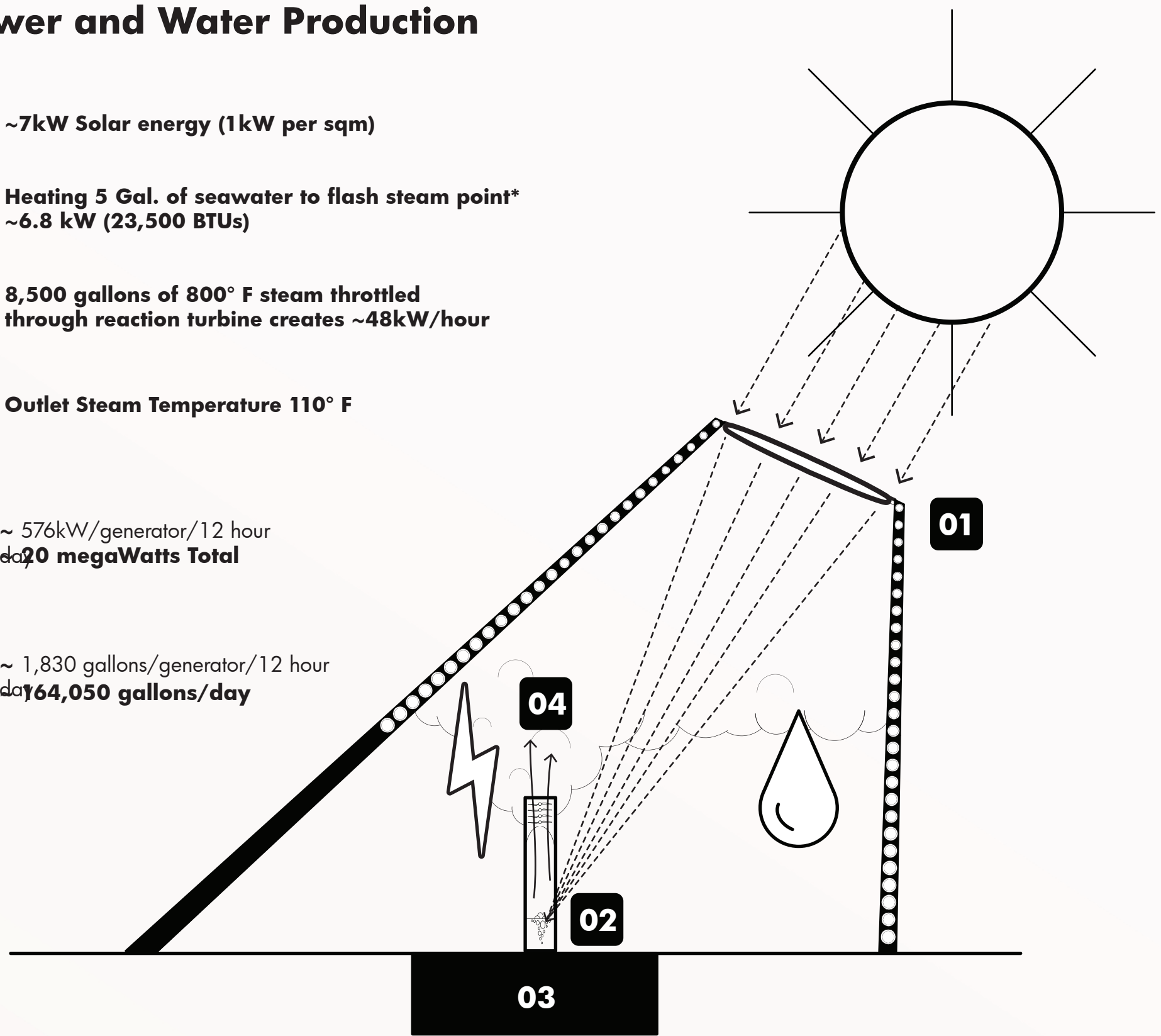


Power and Water Production

- 01** ~7kW Solar energy (1kW per sqm)
- 02** Heating 5 Gal. of seawater to flash steam point* ~6.8 kW (23,500 BTUs)
- 03** 8,500 gallons of 800° F steam throttled through reaction turbine creates ~48kW/hour
- 04** Outlet Steam Temperature 110° F

~ 576kW/generator/12 hour
~ 20 megaWatts Total

~ 1,830 gallons/generator/12 hour
~ 164,050 gallons/day



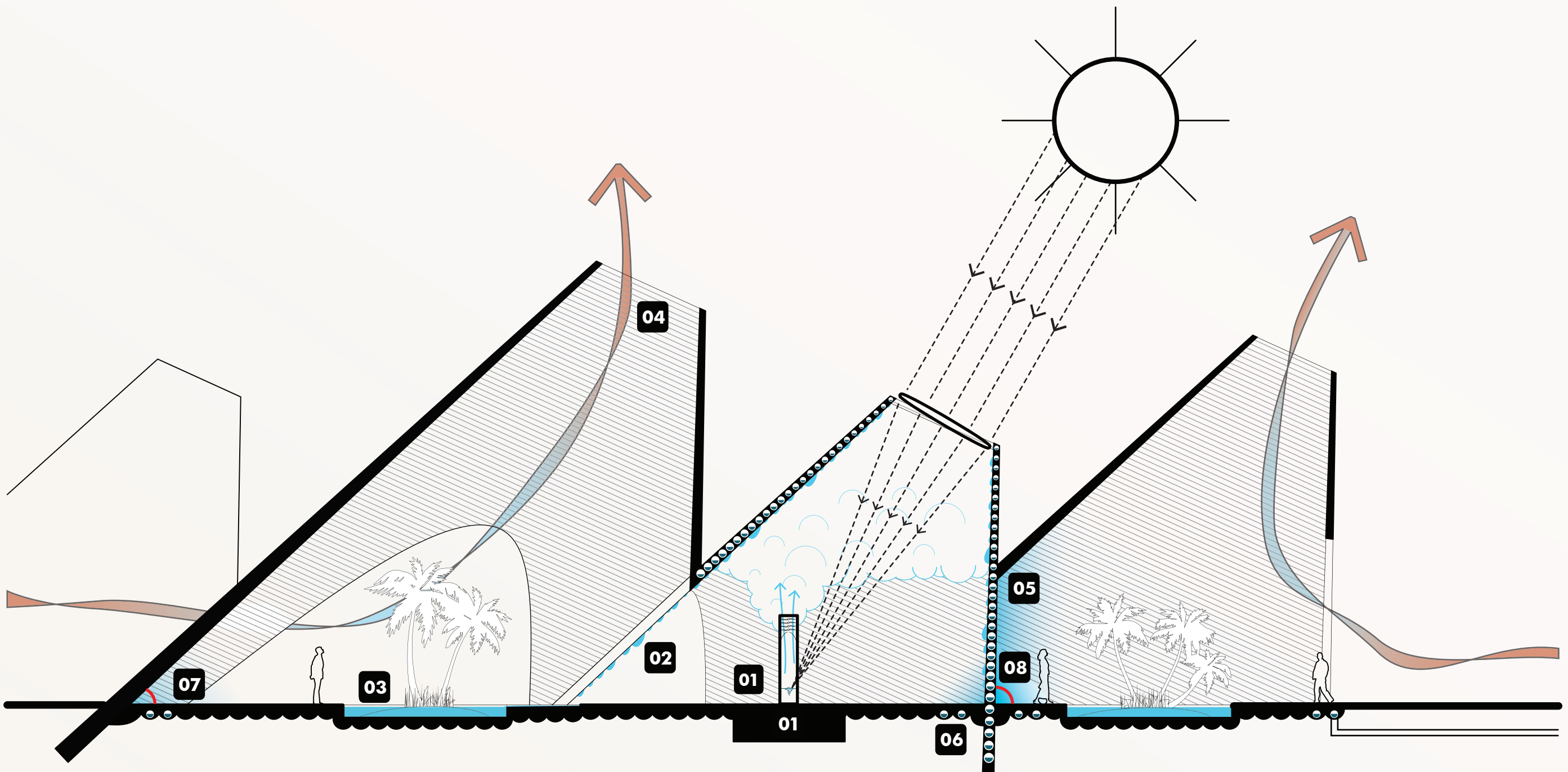
VIEW FROM OBSERVATION DECK

VIEW FROM STREET

VIEWS OF CITY
FRAMED BY ENTRY

FUTURE CITY CENTER
FRAMED BY ENTRY

VIEWS OF CITY FRAMED BY
ROOFLINE OF SUNGLASS



- 01** STEAM TURBINE GENERATOR
- 02** CONDENSATION COLLECTION
- 03** OASIS COOLING POOL
- 04** CHIMNEY EFFECT
- 05** RADIANT COOLING FROM WALLS WITH SEA WATER
- 06** SEAWATER AND FRESHWATER DISTRIBUTED IN INTEGRAL PLUMBING IN SANDGLASS FLOOR
- 07** 42° WINTER SUN ANGLE
- 08** 89° SUMMER SUN ANGLE

The Source

SunGlass is a celebration of the source of all energy and life on earth – the Sun. Built and powered by the Sun, SunGlass generates power by boiling seawater from the nearby Persian gulf with concentrated solar power (CSP). Steam, throttled through turbine generators, is recaptured as fresh water as it condenses along the insides of the generator cones (cooled by the seawater flowing through SunGlass' skin enroute to the solar concentrator). This generated freshwater feeds the many cooling pools in the interior venue space of SunGlass, as it eventually trickles outwards to provide nourishment to the surrounding planted landscape. SunGlass is scalable along desert coastal regions. Entire coast lines of desert can become lined with green landscape as SunGlass cities are fused from the sand.