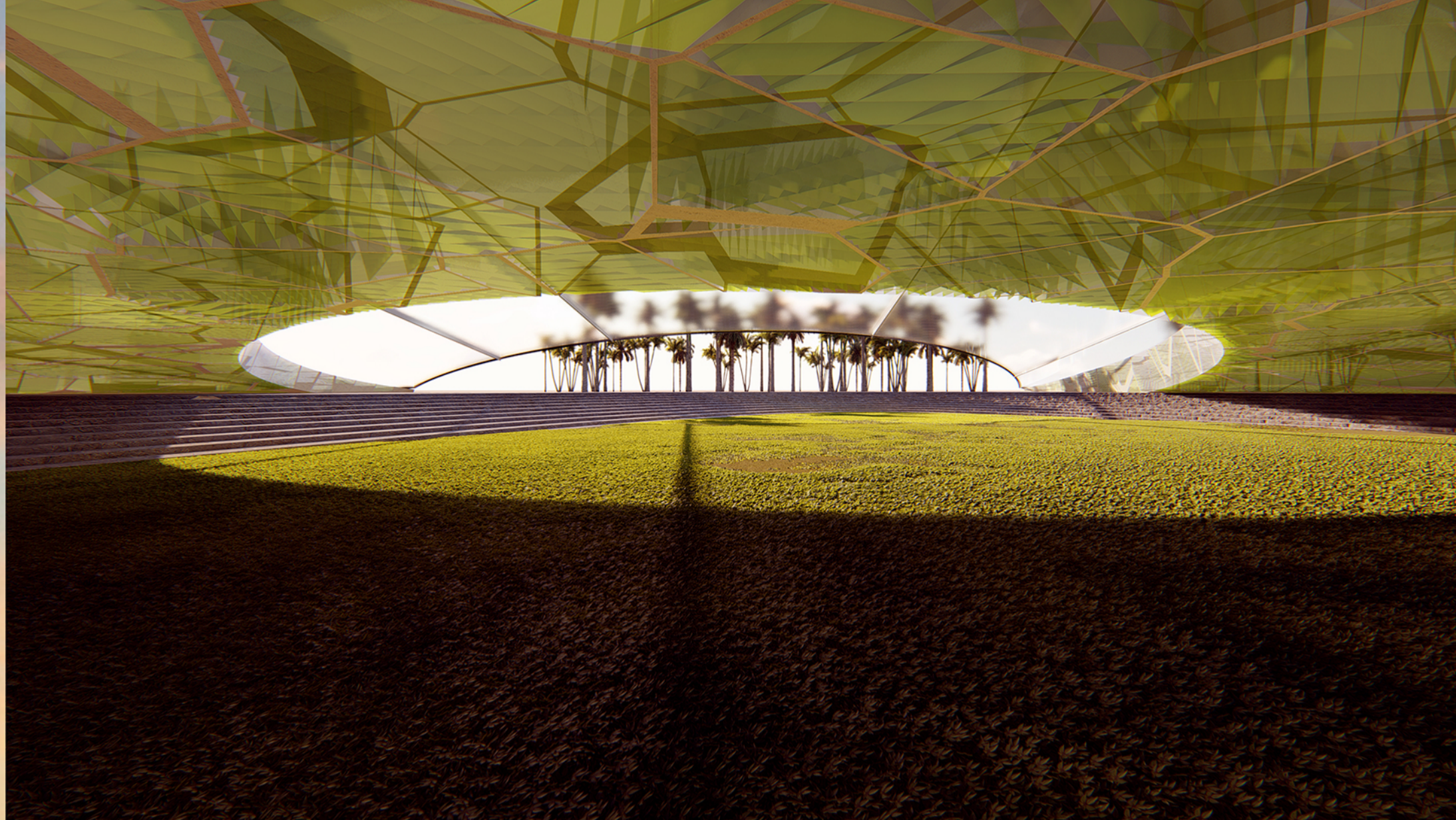
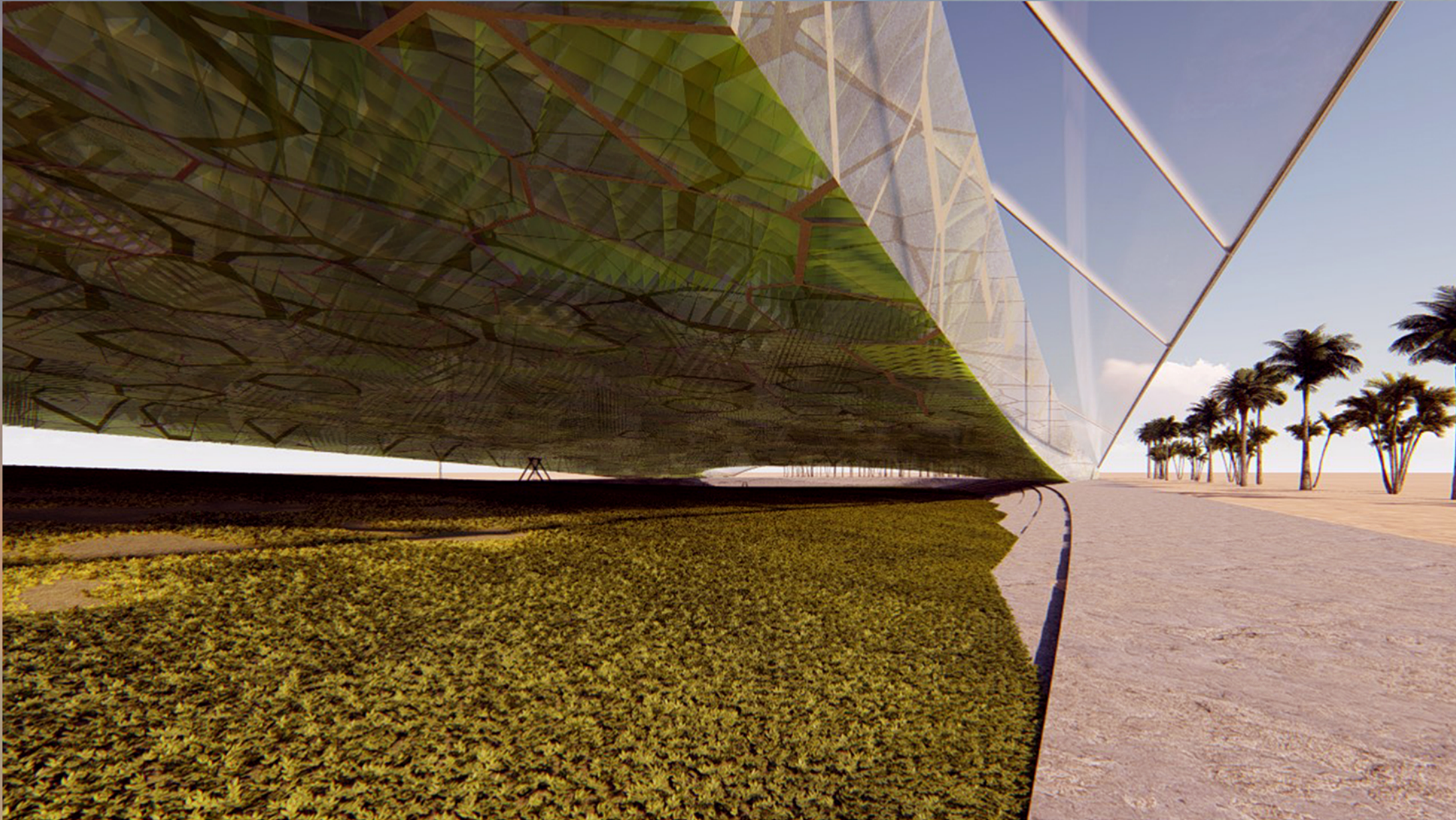


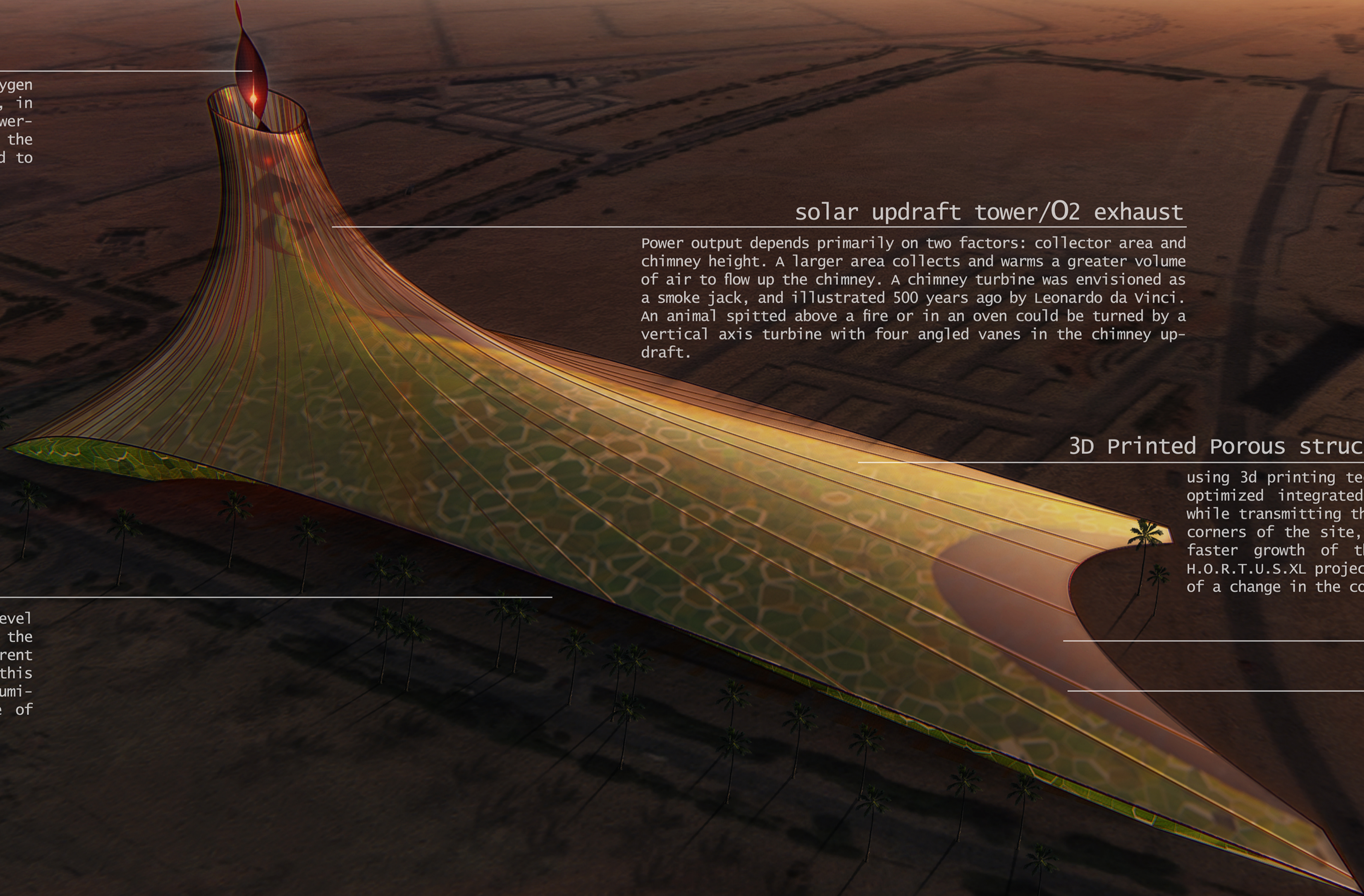
Return to the source

Almost all the energy sources we are using is directly or indirectly from one source. We should return, to the source of energy to the source of life in our planet. Going back to the nature. Energy is essential for economic development and growth. with the rapid growth of development and the drive to expand the economy, society demands more electricity. Coupled with the realization that unsustainable energy production can have a detrimental effect on our environment. Solar energy is the most prolific method of energy capture in nature.



Exposed turbine blade

complex whose chimneys send out oxygen (O2) instead of carbon dioxide (CO2), in contrast with the other traditional power-houses. The circular movement of the blades of the wind turbine would lead to creation of a mental image for people



solar updraft tower/O2 exhaust

Power output depends primarily on two factors: collector area and chimney height. A larger area collects and warms a greater volume of air to flow up the chimney. A chimney turbine was envisioned as a smoke jack, and illustrated 500 years ago by Leonardo da Vinci. An animal spitted above a fire or in an oven could be turned by a vertical axis turbine with four angled vanes in the chimney up-draft.



3D Printed Porous structure (cyanobacteria Bio-cell)

using 3d printing technology would make the construction of an optimized integrated porous spatial structure possible, that while transmitting the load only by 4 foundation points on the corners of the site, makes considering optimized bio cells for faster growth of the Cyanobacteria possible (based on the H.O.R.T.U.S.XL project), in addition to emphasizing on necessity of a change in the construction technology in the future.

Lightfull public space

A green public space on the ground level is the best way to engage the people in the project, because of the semitransparent Bio Cells in structure of the roof this space would benefit from an ambient illumination of the sun with green shade of light.

Carbon Fiber pipes

Transparent solar cells

These cells provide power by absorbing and utilising unwanted light energy through windows in buildings and automobiles, which leads to an efficient use of architectural space. There are approximately nine transparent photovoltaic (TPV) technologies under development.