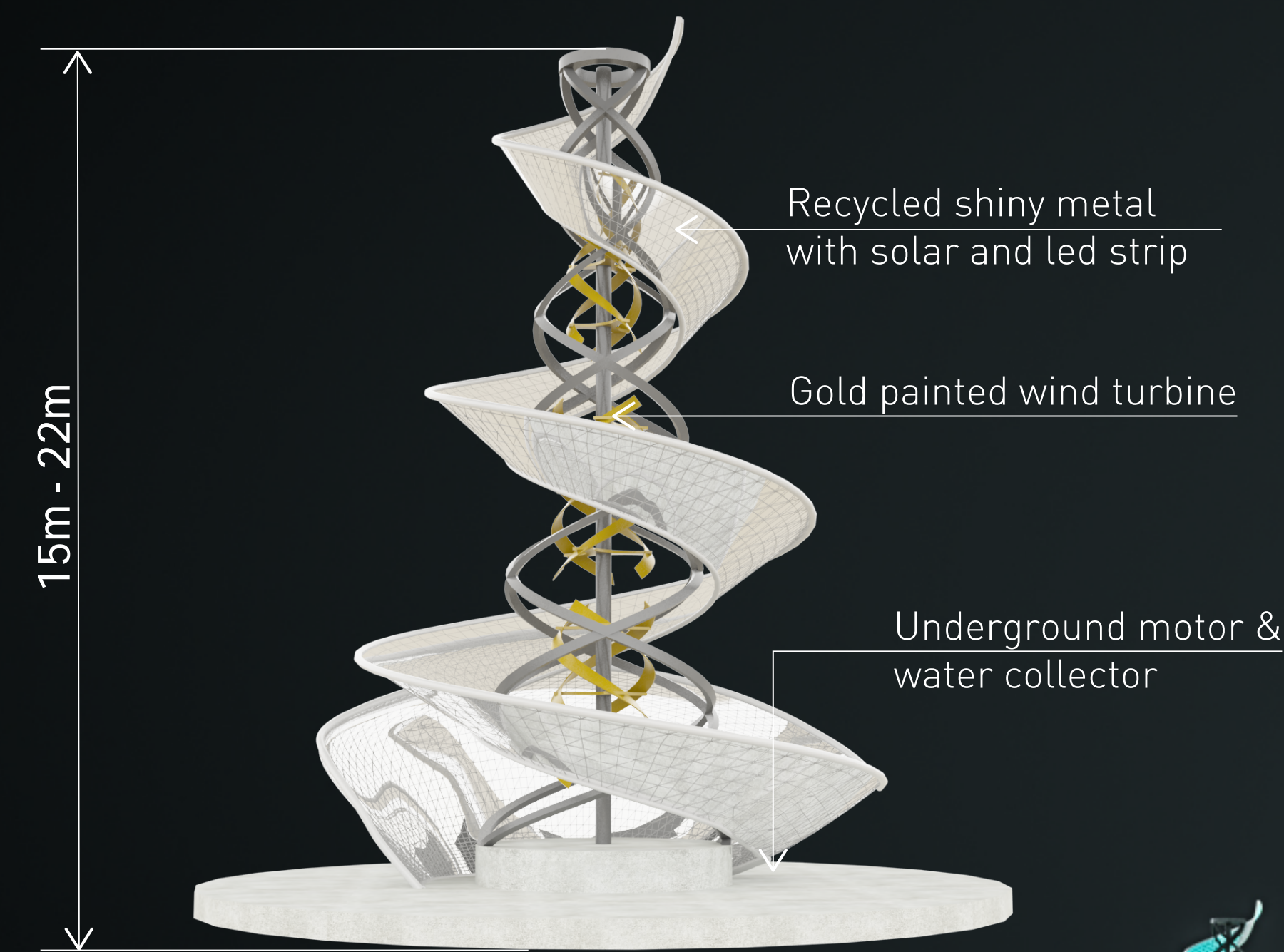


Concept

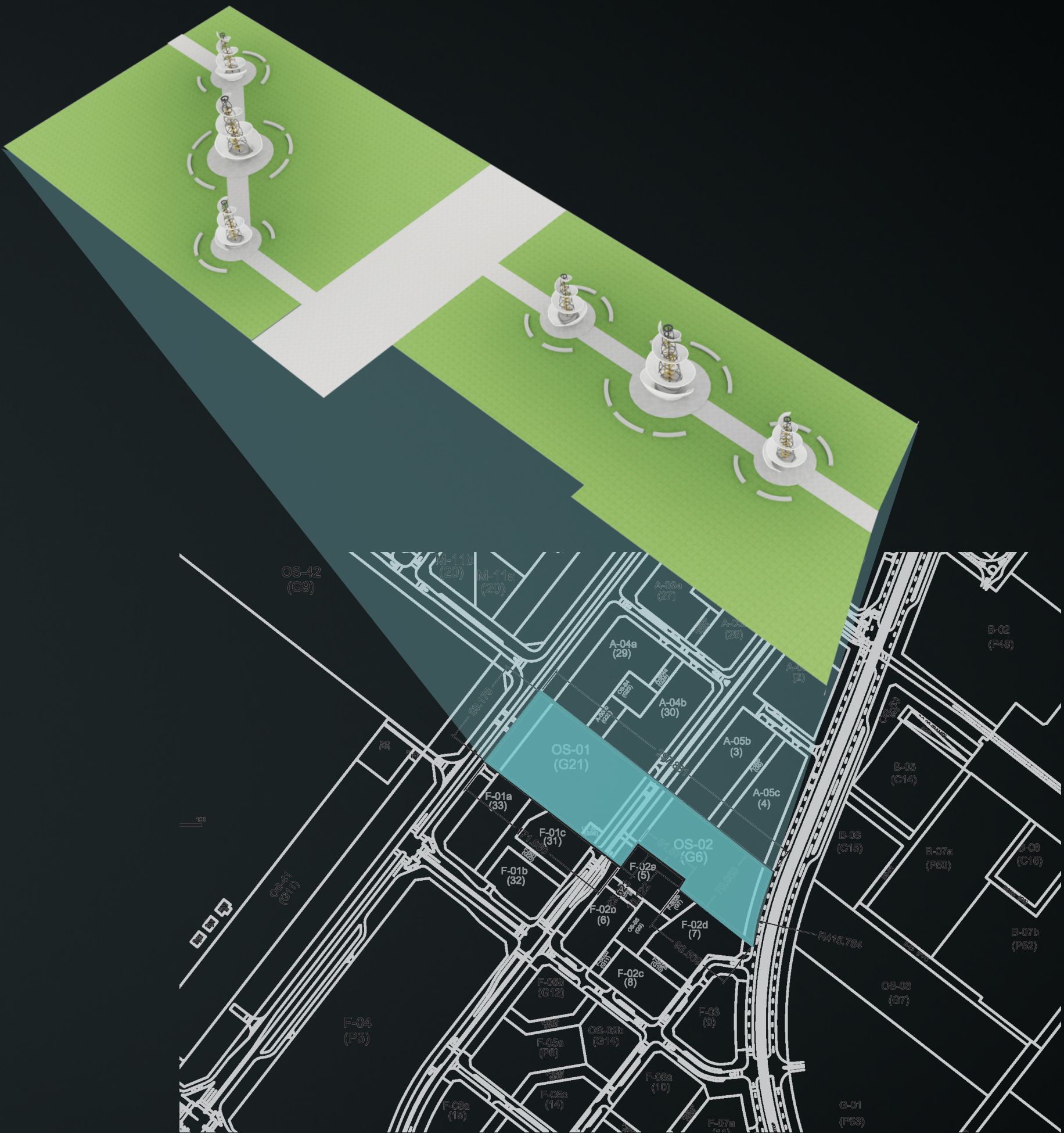
The concept is based on the word MASDAR which means “Source” in Arabic. Our aim is to design a structure that symbolizes life and how it grows out from the earth coming from its source to constantly remind people that energy doesn’t have to be harmful. That it can be beautiful and beneficial if thought carefully.



Site layout

The area is composed of a total of 6 helix structures. There are 2 categories of structure one is the 22m height with 15m diameter and the 15m height with 10m diameter.

Helix placement is based on solar, wind and accessibility orientation.



The illuminated pathway leading to the land art is a picture of element coming together forming life energy.

Pathway made up of illuminated cement.

Objective

To design a stucture that attracts people at the same time provides benefit by giving back energy enough for it’s consumption with less damage or impact to the environment.

Consideration

Abu Dhabi, Middle East, has an abundant supply of sunshine through out the year. Annual weather averages August is the hottest month in Abu Dhabi with an average temperature of 96°F (36°C) and the coldest is January at 64°F (18°C) with the most daily sunshine hours at 13 in June. The wettest month is February with an average of 20mm of rain.

Illuminated cement

This cement without crystals can absorb solar energy and emit it as light at night. The light-emitting product could last for 100 years and provide light for around 12 hours at night. The intensity of light emitted can be changed so it doesn’t overwhelm drivers or cyclists. The light glows as a cool green or blue.

Sustainability

Overall objective is to reduce building footprint and maximize the open public space with the help of orientation and passive cooling. Materials used with the structure were considered in terms of their environmental impact. Introducing recycled materials and rapidly renewable materials specifically as-signed in developing the structure.