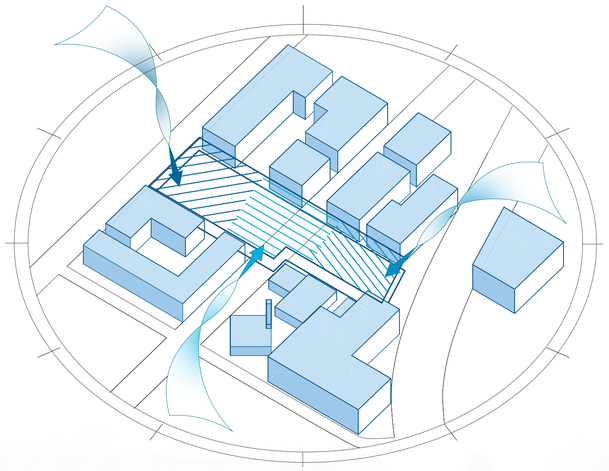
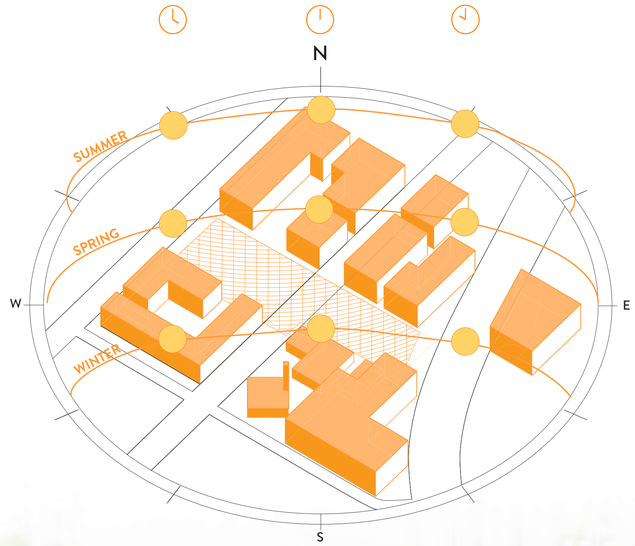
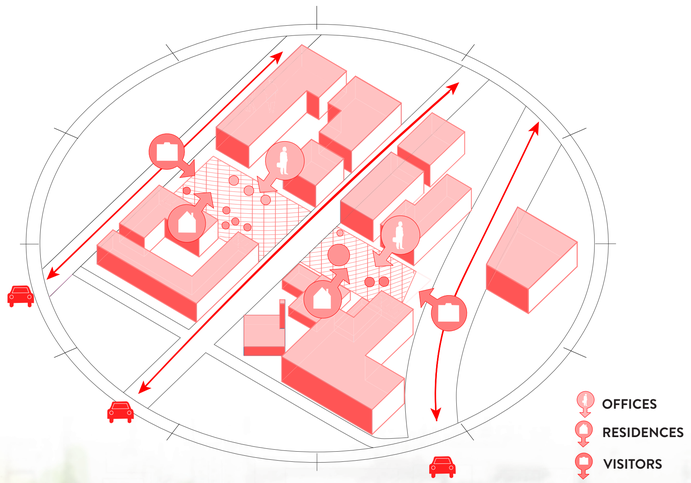
ARCHITROPISM
SITE CONTEXT





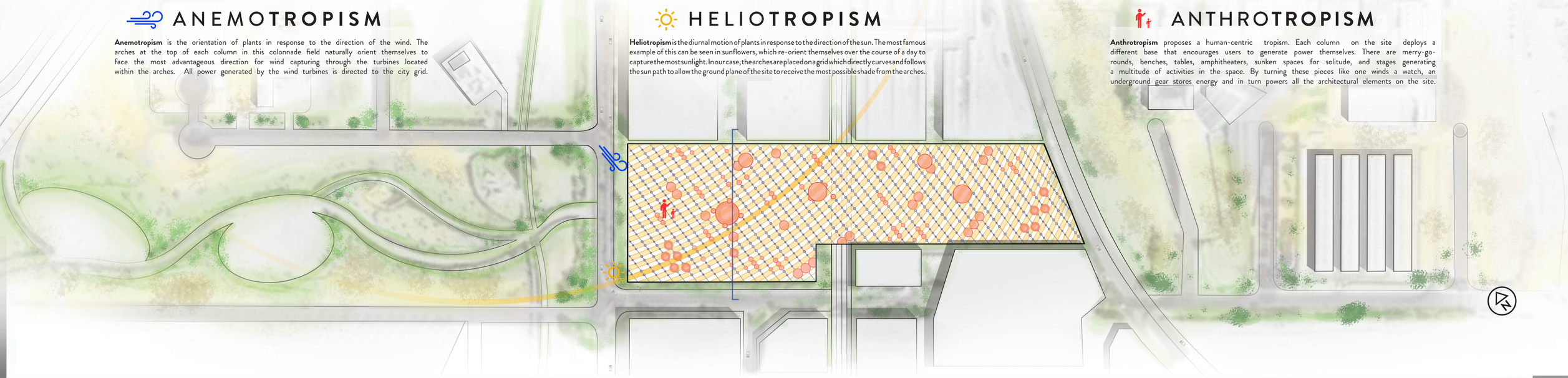
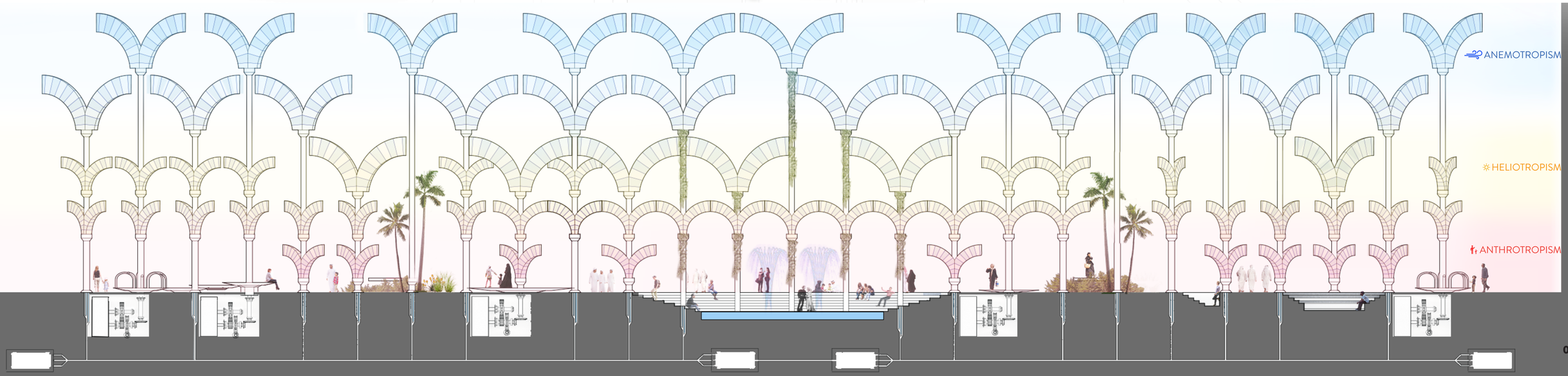


ANEMOTROPISM

Anemotropism is the orientation of plants in response to the direction of the wind. The arches at the top of each column in this colonnade field naturally orient themselves to face the most advantageous direction for wind capturing through the turbines located within the arches. All power generated by the wind turbines is directed to the city grid.

HELIOTROPISM

Heliotropism is the diurnal motion of plants in response to the direction of the sun. The most famous example of this can be seen in sunflowers, which re-orient themselves over the course of a day to capture the most sunlight. In our case, the arches are placed on a grid which directly curves and follows the sun path to allow the ground plane of the site to receive the most possible shade from the arches.

ANTHROTROPISM

Anthrotropism proposes a human-centric tropism. Each column on the site deploys a different base that encourages users to generate power themselves. There are merry-go-rounds, benches, tables, amphitheaters, sunken spaces for solitude, and stages generating a multitude of activities in the space. By turning these pieces like one winds a watch, an underground gear stores energy and in turn powers all the architectural elements on the site.