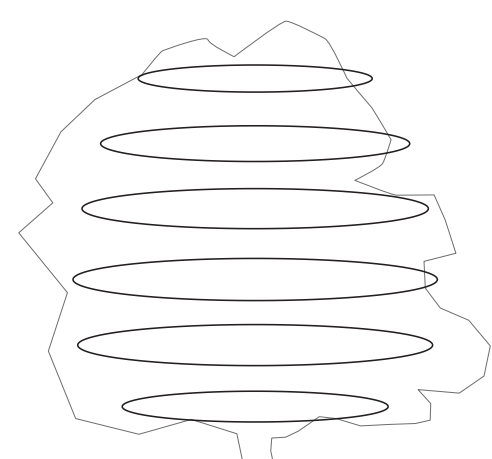
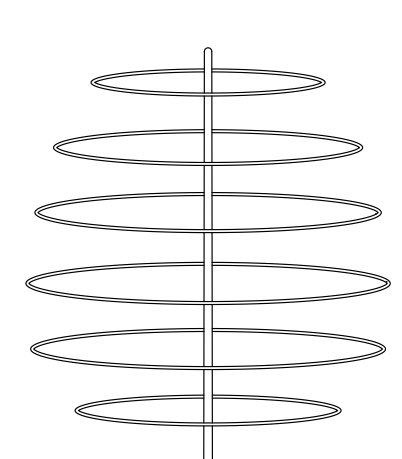


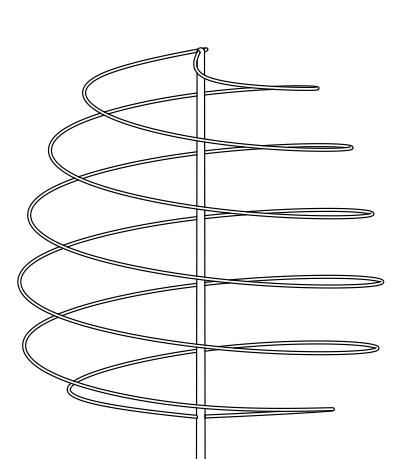
Refer to tree in site



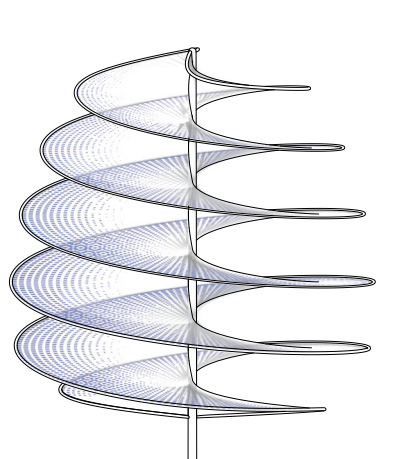
Understand the general configuration



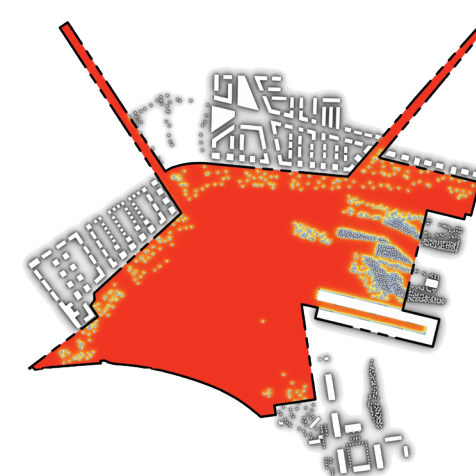
Simplify the geometry



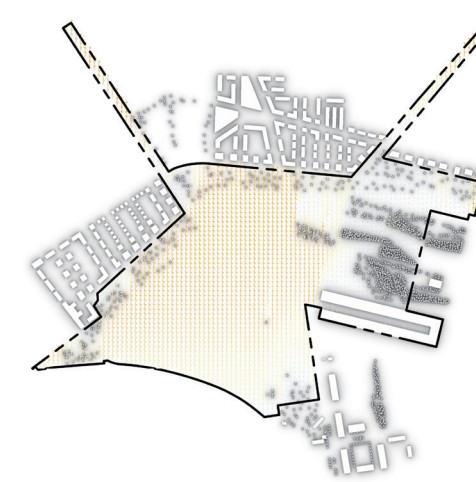
Optimize constructability & structure



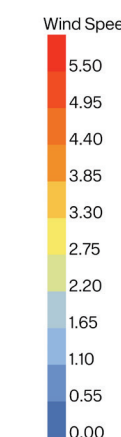
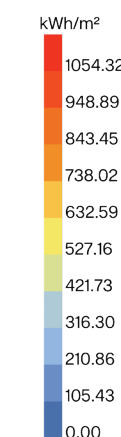
Apply energy generating system



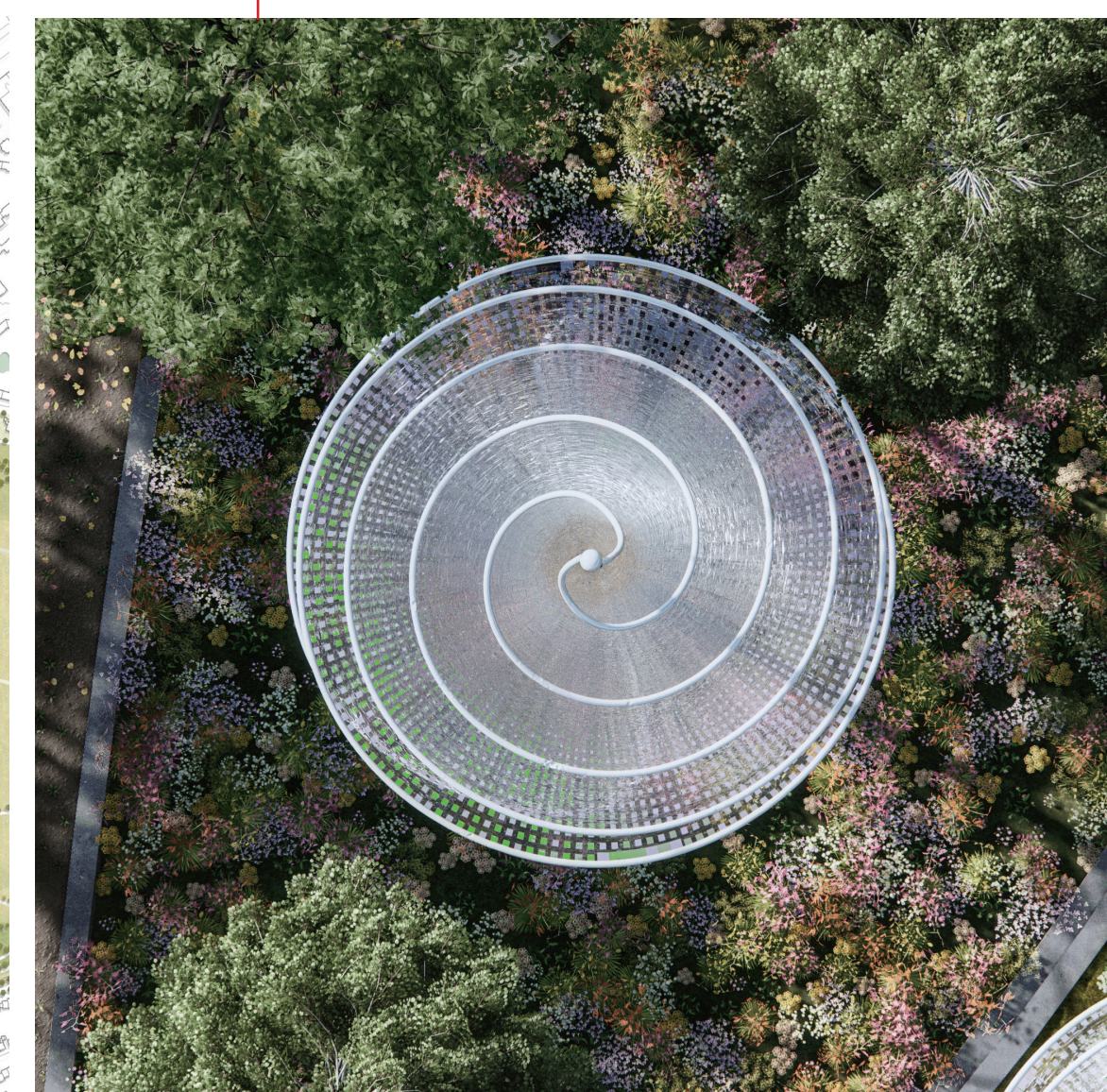
Incident Radiation



Windspeed



eTREE



# eTREE

Nature has already perfected the art of sustainable energy generation in the form of trees. Beautiful not only in aesthetics but also function, trees generate the energy that they need to survive, while providing other forms of life with oxygen, shade and nutrients.

The eTREE emulates this positive cycle of generation by harnessing the powers of the sun and the wind to generate clean energy. Contrary to the monumental form and scale often associated with land art, eTREE takes on the form and scale of the trees that we encounter and interact with in our everyday lives.

Mannheim's Spinelli park will be the site for the BUGA 2023 expo. In contrast with the colorful expo grounds, where flora from all over the world will be displayed to the public, the rest of the park remains a barren and empty field, with a military past. This grey and unused land is set to transform into a park with bicycle lanes and hiking trails binding the park and the surrounding urban fabric into one.

The eTREES will be scattered across the park in a linear fashion, alongside natural trees. Carefully distributed with respect to the green corridor, the linear placement will be focused at the main nodes of the trails and paths. As the eTREES visually overlap with each other and with other trees, the experience of those passing through these trails will be similar to passing through a dense forest.

The flexibility of the e-tree system allows it to adapt to its environment and to the diverse needs of the owners. Due to this versatility, the e-tree can be installed anywhere, optimized to each context. This new typology of art generator will not be confined to parks, but will penetrate deeply into urban settings, lining streets and filling backyards.