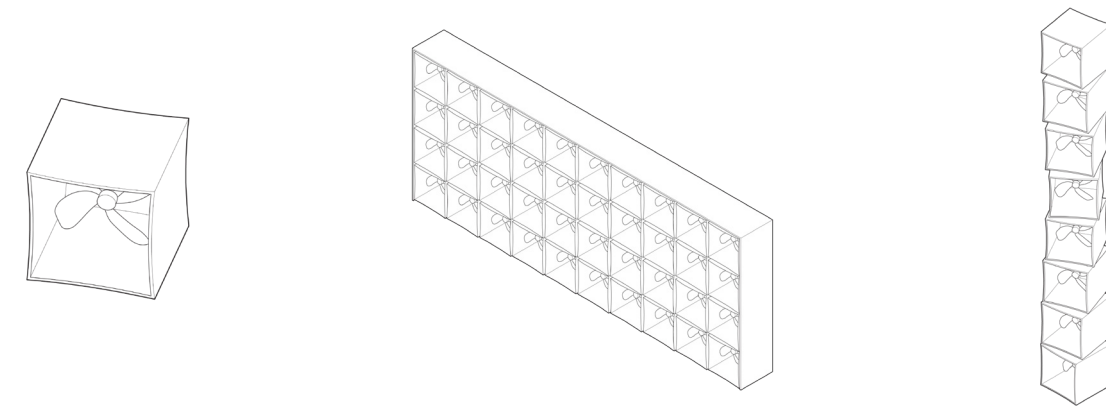
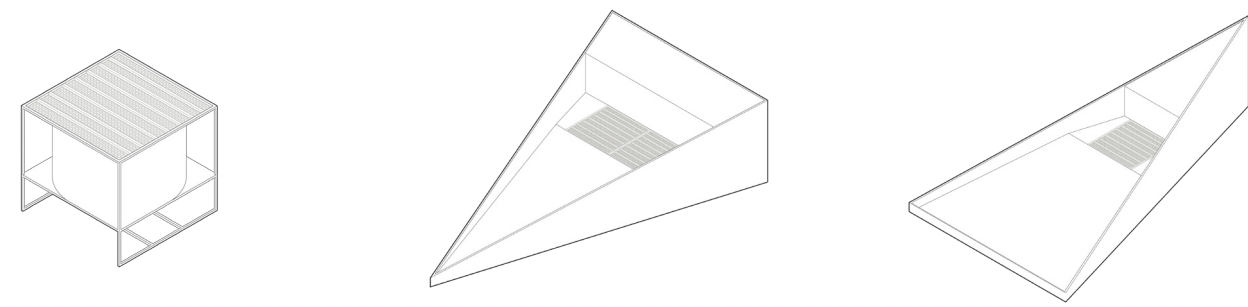


1. WIND



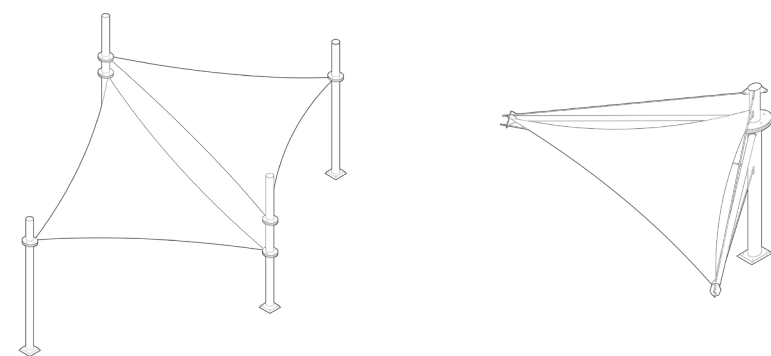
High Altitude Wind Turbines (HAWT) are a consistent source of energy that is able to gather more wind than average wind turbines. They are located on the southwestern part of the park, collecting the abundant southern winds in Mannheim. They are used as both energy generators and as wayfinders marking the southern area of the park. The modular version of the HAWT is a customizable fence containing smaller modules of turbines at ground level.

2. HYDRO



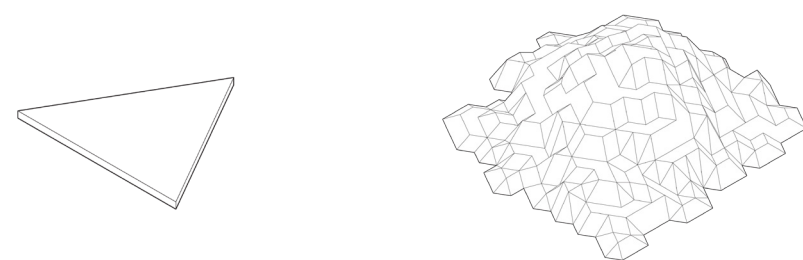
The Vortex Turbine Electricity (by Turbulent™) is a low noise submerged design that generates power on the continuous flow of water using an elevation drop of 1.5m. The water features use a small part of the energy generated from the High Wind Altitude Turbines to create a continuous flow that can generate power and be stored on portable batteries. This feature aims to regulate temperature and connect people with water. The feature has 2 different modules, one that allows people to play in the shallow areas and another that allows people to sit close to water.

3. SUN



Organic Photovoltaic Thin Film (by ASCA™) is a customizable, flexible, lightweight and light-sensitive solar panel. The flexibility of the material is optimized in its utilization in both a large pavilion and a smaller-scale umbrella. The umbrellas provide shade throughout the park, inviting individuals to familiarize themselves with solar power. The larger pavilion can be used for large events and gatherings, creating a flexible program area.

4. KINETIC



Energy harvesting pavers (by Pavegen™) are tiles that utilize kinetic energy from footsteps to create energy. Here they are utilized in main paths, playscapes, the skate park, and the BMX park. The resulting energy is stored in portable batteries or used in lighting. Within the park's playscapes, pavers encase a sculptural mound to create a sensory and tactile experience that allows children to observe the generation of energy in real time, watching as their movements animate a light installation connected to the mound.

