

VIBRANERGY

Vibranergy evokes the musical roots of Mannheim in the public space through a set of sculptures that integrate the latest advances in bladeless wind power technologies, electromagnetism, piezoelectric sensors, and crop-boosting methods. This artwork is inspired by various wind and string instruments historically played by the Mannheim school since the latest half of the 18th century to generate clean power and sound frequencies aimed to elevate human vibes and foster healthy plant growth. Vibranergy consists of a vertical bladeless turbine surrounded by 4 waving fins and sails that were abstracted from two of the most universal symbols: the treble clef and the flame of a fire. Only 10% of the masterplan is used to incorporate 79 Vibranergy modules which blaze at night and generate power 7/24 to meet 25% of the overall electrical energy demand in the future residential development expected for the urban design area. The hotspots created contribute to both energy and food security in urban settings and positively impact crops through vibration frequencies that match soil and plant's needs, making federal garden show BUGA more cheerful and vibrant in 2023.

One of the music capital cities



"As I love Mannheim, Mannheim loves me" - Mozart

Morphogenesis



Violin
Sinuosity

+



Flute
Atmospheric Sound

+



Fire
Gathering

+



Spring
Maximation and Vibration

=



Vibranergy

Scalability



1. Intimate scale - Violin
-Sculpture and urban
furniture.

3.0 Mts



2. Site scale - Viola - Multi-
purpose hotspot

4.5 Mts



3. Neighborhood scale
Cello - Gathering space

6.75 Mts



4. Metropolitan scale - Double
bass: Urban Landmark

10.12 Mts