

The Dandelion Effect: A C02penhagen Ferris Wheel

The *memory* of a dandelion:

The dandelion is a memoir of a free spirit. It has originated in Europe and blown its way from the Arctic to the tropics and through the many harshest ands strangest of seasons. Each plant produces a single seed head that bears 40-100 or more seeds. Variable in morphology, these species have been recording many memories and conversations all over the world.

They masquerade as little flowers of light and often go unnoticed but in-fact they are the fiery dragons in each field, blending in, sinking their roots deeply into the soil of everyday experience. They are the worries, fears, and feelings that creep in so subtly of the mundane life and thought; Yet they cultivate so much beauty, wholeness and joy in the lives of many people within in a single blow.

There's something in the Air: An immediate awareness

Perched on the historical foothills of Sonder Hoved Pier in Copenhagen, this megaton construction will embody both land structure and sculpture. Standing 125 meters high, the *The Dandelion Effect: C02penhagen Ferris Wheel* seeks to preserve the same story, journey, of a dandelion with a realized triple hybrid architecture of three separate entities combined into one: A giant wind turbine, a colossal air filter, and an iconic Ferris Wheel to help pave way for the future of Denmark landmarks.

The story of this landmark will illustrate the variety of choices and path each seed (carbonate products) will have within the sculptural wind turbine. These particles- once locked up across so many miles of small and large fields, will eventually be freed to reenter other parts of the environment, stronger for the experience. However, this journey is compromised with carbon dioxide in the air. C02 causes health problems as it also affects the outcome of unexpected heat waves during the summer, droughts all year round, and shortage rainfall in the city, where burning fuels of coal pollute the majority of the air.

The C02penhagen Ferris Wheel is an immediate response to these inherent habits of nature and a monumental solution to help offset and counter act the rise of carbon levels apparent in the outskirts of the city. In the very same essence of blowing a dandelion when it is mature, the titan wind turbine sculpture will scatter its seeds in the process through Air Filtration and Air Recycling. The growth of these products will ultimately harvest in the structure and distribute accordingly to nearby fields, surrounding areas, and their popularity will multiply the first carbonate blow several-fold.

The C02penhagen Ferris Wheel introduces and re-introduces the first memory of any memory on three different capacities: First, a mechanical ride on the Ferris Wheel reproduces the excitement one receives when blowing a dandelion and hoping new opportunities in the distant future. Second, a human scale exposure to the giant wind turbine and 49 smaller ones reinforces a pivotal experience of a new memory. And, finally, a reoccurring educational conversation about clean air and filtering air will re-enter every thought as each individual participates within the environment of the solar field and C02penhagen Ferris Wheel.

The Dandelion Effect:

The "*Dandelion Effect*," is best described as both tangible (a person) and intangible (wind) object moving on to other parts of an ecosystem. Emboldened with new experiences, each dandelion in its own entirety takes a slightly different path, each one heading somewhere new. Depending on nature's wind and seasons, the plant will venture from one field onto another until it ultimately becomes a newer plant.

Conceived as a giant turbine, The C02penhagen Ferris Wheel's main functions are to grow plants, purify air, and generate a substantial amount of energy. Facing in the Southwest corners of the city, *The C02penhagen Ferris Wheel* looks to encapsulate peak winds, from August to the end of December. With average wind speeds of 7.6 m/s, the air filtering wind turbine can achieve maximum output as the underground power grids enable the faster winds to blow faster, reach up to 16 to 17.6 m/s. This production is assisted with the hub height of 116 m (380 ft), rotor diameter of 91.5 m (300 ft), and a total height of 125 m (410 ft), with 20 levels of green houses to store and remediate air for filtration. Additionally, this large model can generate up to 7.58 megawatts of power, as it produces electricity from inexhaustible winds creates no pollution.

The main idea behind the massive sculpture is designed as a gigantic lung that can offset Copenhagen's abnormal rising levels of carbon dioxide. This can be achieved through an air filtering process of osmosis, transfusion, precipitation, and bio-remediation. Once the polluted air is filtered via the sculptural machine, the product of newer air is released into the atmosphere to equalize with the dirty air, starting with the neighborhood, and eventually migrating its effect into farther areas.

The Next 50 Years: The Dandelion in Bloom

Surrounding *The Co2penhagen Ferris Wheel*, are 49 extra wind turbines, with heights ranging from 30-34 m each, all able to produce enough electricity to supply the average household of one single home. This metaphor is reminiscent in “The Dandelion Effect,” as each and every wind turbine helps accelerate the flow of the filtered air from the CO2penhagen Ferris Wheel into nature.

When a dandelion is blown, the population of its seeds is distributed by the wind and force. A new population of dandelions form and splits into surviving atmospheres. The new dandelion seeds are introduced to new environments, surrounded by its original dandelion. This in turn, causes two and many more new dandelions to form. Some merger occurs, allowing the dandelion to be reassembled to a new one. The 49 onshore and offshore wind turbines, along with the rotation of the Ferris wheel in synchronicity of the giant Air Filter, will make the new site more prevalent in upcoming years. Of course, this is not enough to outlive even the life of the Wind Turbines itself (20 to 25 years). The Dandelion Effect occurring hand in hand, side by side with the mega sculpture will ensure our future generations will live a cleaner life in the next 50 years to help power Copenhagen and perhaps shift a paradigm shift in the current state of the once historical dock and land located across the Little Mermaid.