**Strings of Future**

**Capturing energy out of the air**

Energy generation as an aesthetic art museum

from the first moment of the journey until the end of it, people will be taken throughout the story of renewable energy as if they are walking inside a nano-scale monument fascinated and impressed not only by the technology but also by walking inside the technology. It is the journey inside the machine as a containing architecture.

“People with machinery” instead of “People vs. Machinery”

As if it is an instrument playing the music of future energy. Steel structure holding hanged cables with mesh between the vertical hanged cable. water drops will be descending along the cables and mesh being charged with air ions. This mesh forms transparent 19 huge 100m\*50m plans. Between each two planes 10meter of flowing air to cross the water droplets. This mechanism will be the cause of generating electricity. People will be walking through and crossing these mesh planes with kind of lights and water dreams experience. Visitors will be educated with renewable energy technologies and green culture along their crossing journey.

constituents

“Strings of future” project consists of main 7 components: entrance, journey path, walls of strings, public social area, small pier, jogging path, technical equipments.

“It is all about the journey”

As a discovery adventure “Strings of future” attracts people in a journey inside the heart of the mass. The journey has different kinds of experiences (on the floor, through flying tube, hanged in the air, walking on the water).

perambulation

The integration of projects constituents imposes the need to provide options like entertaining social services and open air squares and coffees emerged from the structural composition of the project. Some scattered benches, coffees, restaurants, plain open over viewing space suggest to the visitors to spend more time and socialize in “Strings of Future” area.

Jogging

One of the prominent activities in the waterfront line of Copenhagen is jogging sport. Project is attracting and inviting people to consider the site as part of their jogging trip path.

This addition changes the project identity from private to public and shift the mind positioning of the project aims to be considered as an added value to environment and culture of the city.

Machinery as sculpture

Despite the danger of the electricity transformers, the project displayed them as a land art to be unhidden. a visual communication reminds the visitors with technology beneath the pure appearance of modern life.

The power is out there, all over the air

This project power generation is based on the vaneless ion generator technology. According to the patent US 4206396 A of Alvin M. Marks the Wind/Electric Power Generator deriving electric power from wind power directly without moving mechanical parts through the medium of charged water droplets introduced into the airstream from a charging electrode, the charged droplets eventually discharging to ground, the electrical load being connected between the charging electrode and ground to complete the circuit.

Estimations

Total area of the project mesh= 900,000 m2

A single 1 MW on land can provide enough electricity to power 225 to 300 households.

According to the patent research, this project can supply 10000 households with electricity = around 300,000 kWh a year.

wind flow

Since the location of the project is on the waterfront without any buildings preventing the normal air flow, this kind of generator will be in its maximum level in such location. Vaneless Ion Generator needs a normal air flow to charge the water droplets all over the mesh with ions. This charging technology will be the energy resource of the project which will cover the needs of 10,000 households in the city of Copenhagen.

On the road of zero consumption with the renewable energy

to become the first zero-emission capital by 2025, Copenhagen needs to engage the people in this vision and spread the culture of renewable energy and make it part of people’s daily life and entertainment and social trend. ”String of Future” project is bringing positive social and cultural attention by its aesthetic phenomenon and its added value to the city’s public social life. People are coming and doing social activities together to support sustainable development.

Efficiency

The wind electric power generator has relatively low investment and operating costs, and operates without pollution or detrimental environmental effects.

Using steel structure instead of concrete masses in such volume construction helps in CO2 emissions reduction results.

An engagement breakthrough

In spite of having the ability to power 10,000 of households with clean and renewable energy, this monumentality and uniqueness of design in its scale and language, makes it a symbol in Copenhagen. It refers to its meanings and functions and makes from the project more than power generation project. It makes from the project a culture of engagement breakthrough.