

REFSHALEØEN

ENVIRONEMENT, TRANSPORTS AND ACCOMODATIONS



THE PORT VIEW

TAXI BOAT STOP



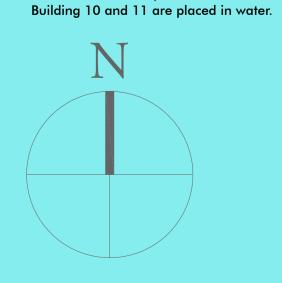
BOAT VIEW



URBAN GARDEN

König garden is design as a multi modal area, which generate his own energy and produce more than 180

Over a millennium of windmill development and modern sin to swim and a charming landscape for run and other mechanism. outside activities like gardening. A second hand shop, many artists' studios and small coffee places also improves the quality of life. The water road krudtløbet on tures, kite, parkour equipment, children playground... the south offer likewise a perfect entrance to the park. For this project, we choose to use mainly the wind forces, thanks to the creation of different turbine wall and kinetic sculptures combined to playground installations. The water as a new urban garden The wind energy is convert into electricity and have the More than a water playground, König garden is hability to store, transform and transmit the electrical also a place to stay and a new place for gardening. power to the main grid or use it in the König garden In addition to the garden box already on the site, a for lighting and all electricity needs. A transformer and large water garden is provided with different plant electrical equipment are provided in the main structure species, ornamental and vegetable like cress, water (number 1). For an average wind of 12 m / s, 1 wind chestnut, water mint, Eupatorium purpureum... More turbine produces 200 watts of electricity. There are 361 intimate areas were also provided on the north side of (19x19), placed between 45 and 65 meters height to the park, to read, relax, be inspired. Building 10 and optimize their profitability. Wind turbines are an ins- 11 offer a water plaground area with especially canoe tallation of 72 kilowatts, and for 2500 hours operating kayak doors. energy production is 180,000 kWh / year. Knowing that a citizen of Copenhagen consumes 1,300 kWh of Equipment conceivable: canoe kayak, swim stuff, waelectricity by year in 2010, so the structure covers the ter garden, gardenning stuff, parkour equipment... power consumption of 138 people that to say more than 50 houses with greater coverage in the winter because is more windy. Additional, kinetic elements will also accumulate the energy required for lighting in the The earth as an heritage evening and the surplus can be injected into the grid. In reference to the ancient architecture, as erected or-The elements will be built in wood, in the same way thostates, parallelepiped stone blocks much higher than the other water playground in Copenhagen, than deep, like megalithic menhirs, the different elepainted with red stripes for the building 1 and the ments of the König garden form some walls, opened pediment sea in reference to the details of swimming and gigantics, drilled by narrow opening, for shelter areas already existing in the city. The buildings 7, 8 from the wind and recreate a topography. Actualy, the and 9 are also painted in red to imply entrance and exit site is covered in local wild field grasses typical of urpoints of the park. The Integration of wind turbines is ban brownfield environments. In Denmark, the forest target on the building 5, on the upper part (45 to 65 covers close to 12% of the country; conifers, beech, oak meters). The creation of a panoramic floor in the building 1 offer a closed tempered place appreciable spe- varieties of ferns and mosses. In the König garden, cially for the winter time and also an amazing view to the goal is to keep the actual wild grasses and add the city and the little mermaid. The generator is hidden, some endemic species like beech, oak and ash to built



000 Kwh by year electricity power. The main concept engineering, today's wind turbines are manufactured of this installation is built on the relationship between in a wide range of vertical and horizontal axis types. users and the elements: The sky, the water and the earth and give them the opportunity to experiment, play, energy with different sort of turbines, fixed on the struceducate and learn by themselves. The variety of uses tures. The mostly turbine type is a modern HAWT, 68 meis open and let everyone find its own spaces and uses. ters of diameters, 200KW each, bringing its power by the Beyond the user facilities, König garden is also a kind earth to the generator trough the floor. The König garof a testimonial structure, connecting past and future in den is also a park and a playground compose with kinea same way and playing with a flat topography area. tic scultures and kinetic elements on which you can play. Located on the Refshaleoen Island, König garden is accessible by boat, foot, bike and car. This old boat repair rist movement and certain works of Marcel Duchamp. area is now becoming a new neighborhood, close to

Later, the invented Alexander Calder mobile, son and the Danish art academy, the architecture school, the sculpture formed metal parts that are set in motion by design center, the opera, the concert hall... Additional the movement of the ambient air. The term kinetic art to the cultural activities, the Refshaleon area is also a was adopted around 1954 to describe works of art set wonderful place for sports with the nordre refshale basin motion by the wind, spectators and / or a motorized

with a secure access, in the basement of the building 1. a vegetal barrier against the wind and to create more protected areas.

> Equipment conceivable: bike, parkour equipment, park, children playground, urban garden.

