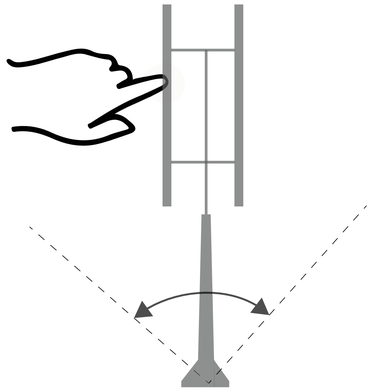
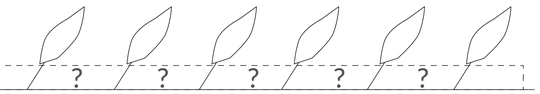
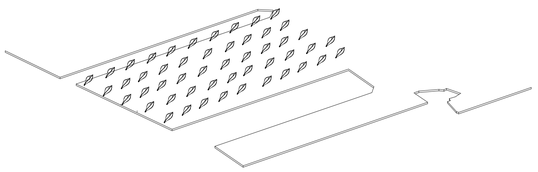
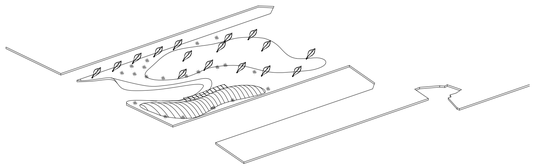


swinging wind turbine allow interaction and dynamics into landscape

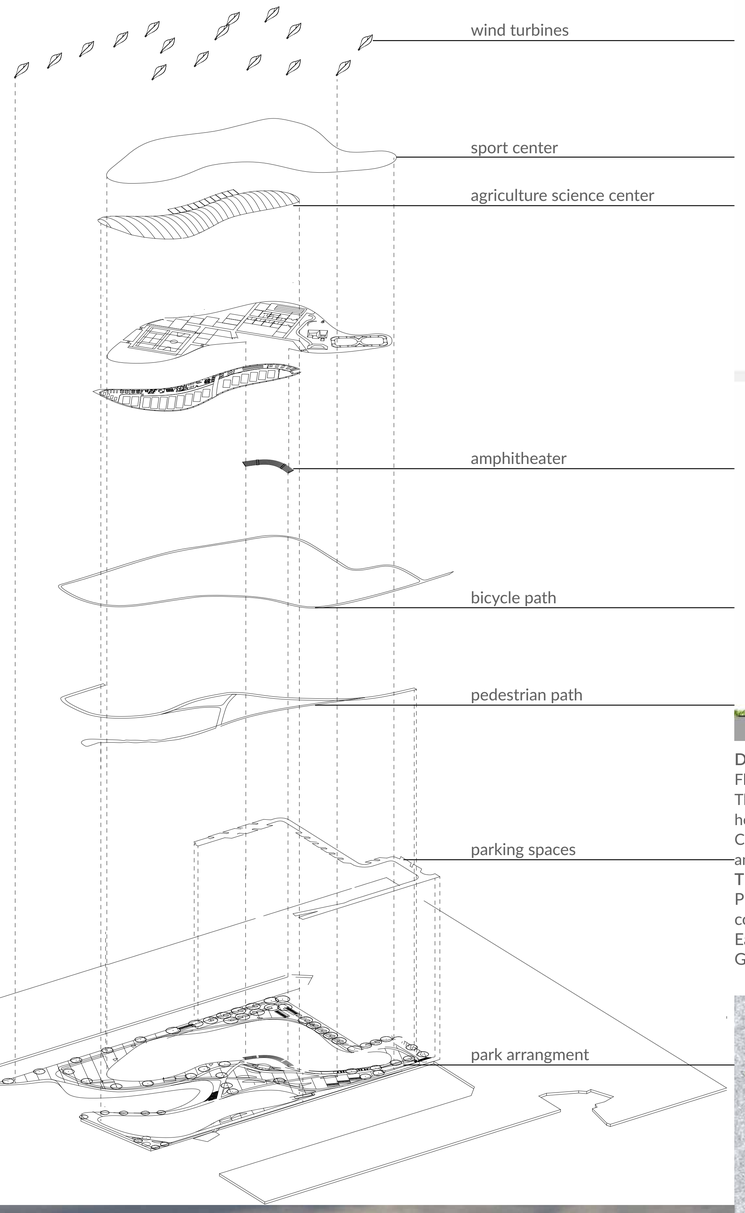


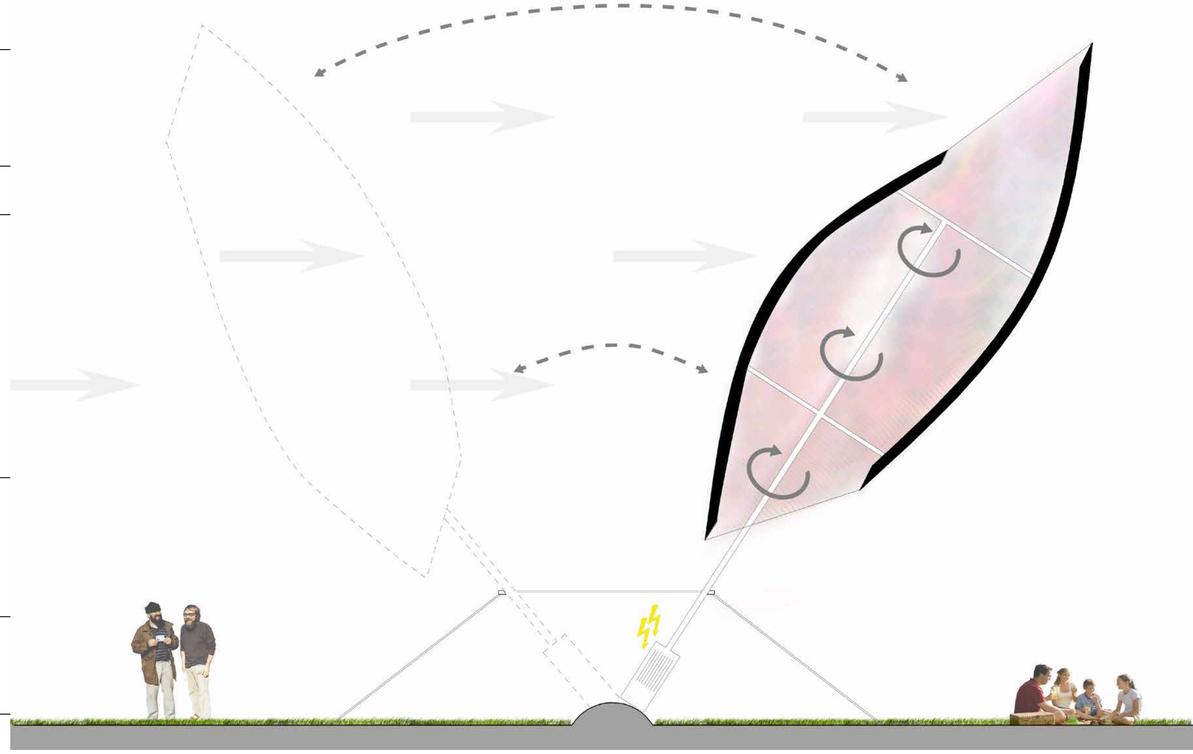


situation with ordinary wind farm



heterogenic space with mixed use facilitates





DESIGN AS PART OF LOCAL HABITAT

Floating structures over horizon are mystical.

The greatest wind turbine design, can be interesting just for a while. The competition is aiming to create attractive public space among Refshaleøen. Good design has to be heterogenic, must offer mixed-use design proposals, as well. The design has to become the essential part of local habitat and combine the idea of new creative district of Copenhagen. Design proposal is to create multifunctional sport and science zone beneath the wind farm. The complex will contain the all year round sport center, Dirt Park, amphitheater, beach, children playground and agriculture science center. This mixed-use program will allow the space to be used in maximum range not only as 'art gallery'.

TECHNOLOGIES

Proposed design provides 14 vertical wind turbines with the 75 kWh generators. This is equal to 1.05 MWh. Structure has 4 curved blades and space between blades covered with perforated membrane to let the airflow through.

Each sail structure is 22 meters long and 6 meters wide. Sail with rotating core is attached to 75 kW generator. Sail is estimated to catch wind from 3 m/s up to 30 m/s. Generator is sliding on rail base witch is letting sail to adopt to different weather conditions. Membrane can be used as screen and visual artwork can be presented on it.