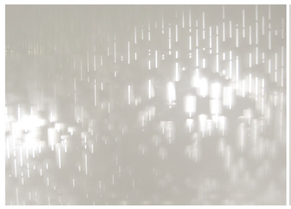
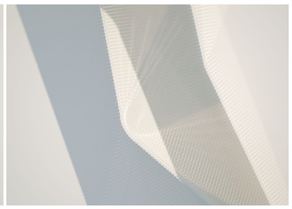
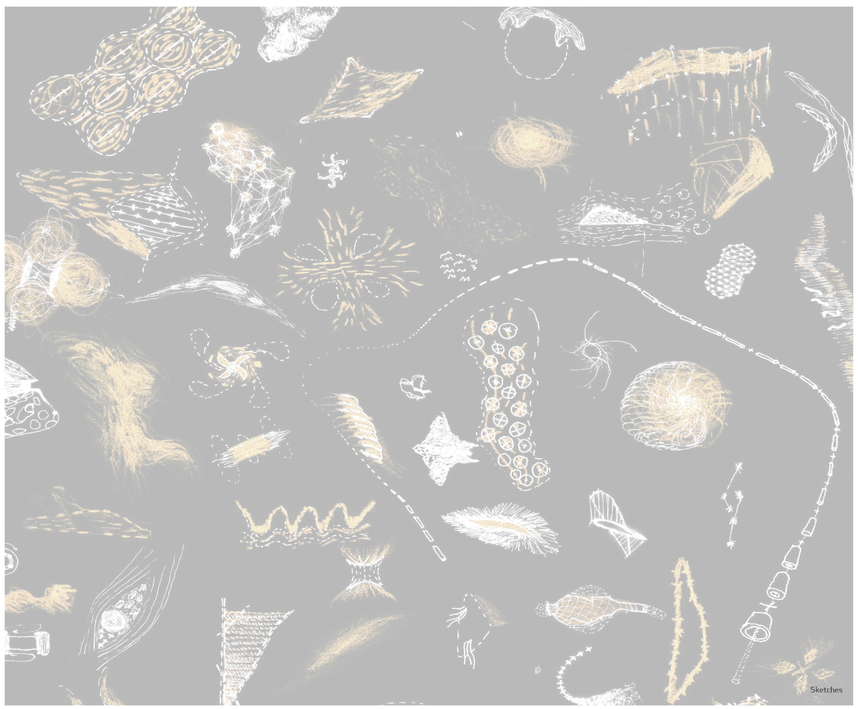
AIM

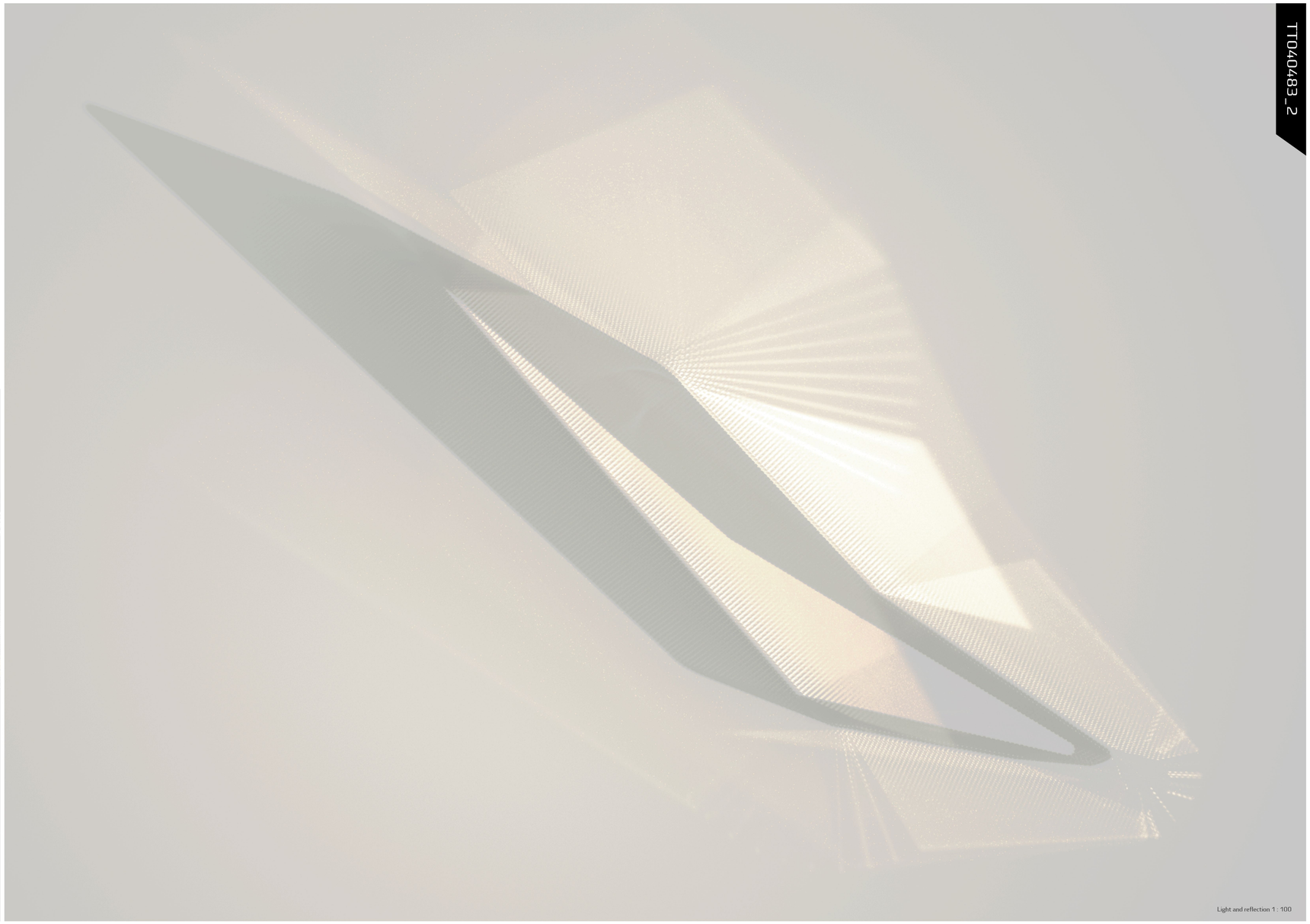
When considering which type of sustainable energy to work with in the project, wind energy was the obvious answer.
Denmark is a long time pioneer in the development of wind based energy production and according to statistics in the European Wind Energy Association, approx. 30% of Denmark's total electricity production was being supplied by energy based on wind in 2012.A fact that puts Denmark among the frontrunners in the development and production of state of the art windmills with companies recognized as leaders in the world market.
"The Cloud" finds its inspiration on all levels of the environment it is set within. Water consisting of particles in various stages of appearances has many names. Dew was the inspiration for the structuring of the turbines, whilst the idea of shaping the turbines as spheres came from a single water particle and for the actual effect of the façade, mist.
"The Cloud" aims to serve as a sculptural installation, while at the same time functioning as a social gathering point, where activities involving swimming and enjoying the weather can take place. It is an alternative self-powered pool area, which is accessible, both summer and winter.
"The Cloud" is to be a symbolic statement, that esthetics can be combined, - or directly derived, - from the complex technology of environmentally friendly energy resources.
"The Cloud" generates not only energy, but at the same time also inspiration for the people, - visually and socially, - and was inspired to compliment the present identity of the area Refshaleøen by the choice of the sail as the theme for the overall shape of the installation, the sail being a metaphor referring to the activities in the area and the dynamics of the wind.
"The Cloud" has been positioned to optimally catch the wind and the somewhat slim wing shape of the building is chosen in order to catch as much wind on both sides as possible.



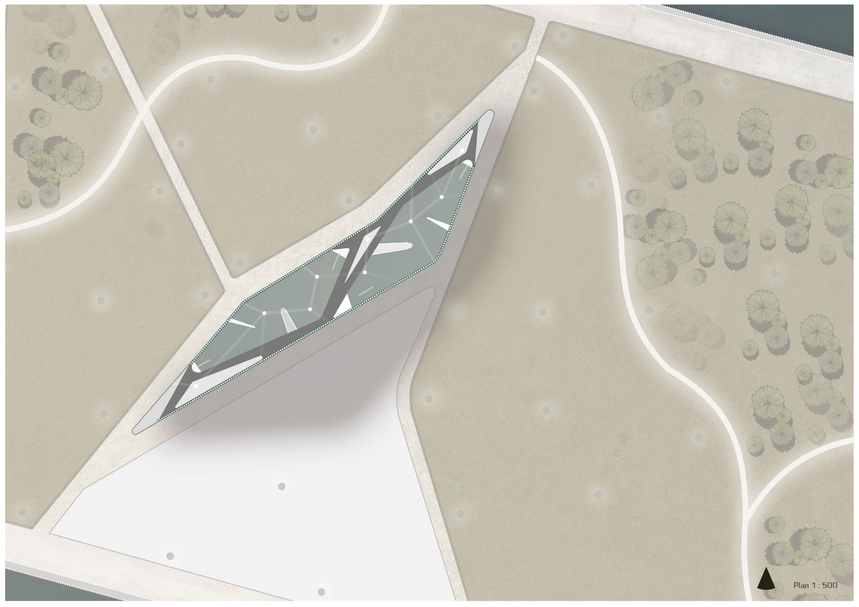




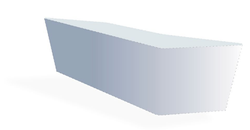
Sketches



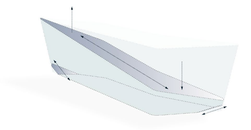
Light and reflection 1 : 100



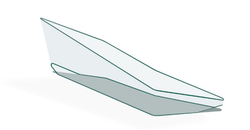
Plan 1 : 500



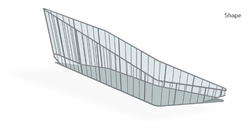
Shape



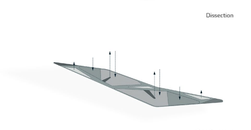
Dissection



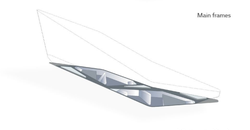
Main frames



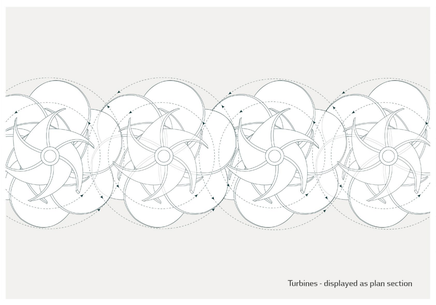
Vertical stabilization



Interior zones



Adjustment of levels



Turbines - displayed as plan section

Turbines - displayed as facade