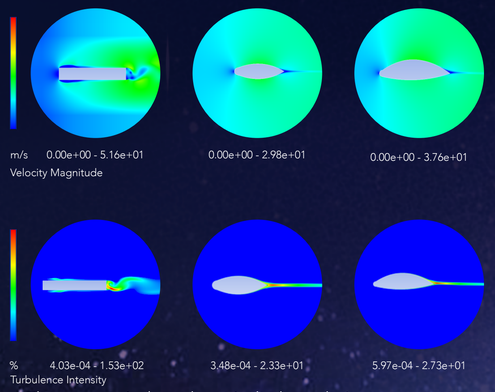
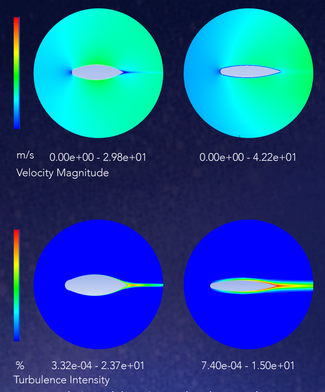
DANCING LEAVES

SHAPE



> The symmetrical arc shape is the best choice.

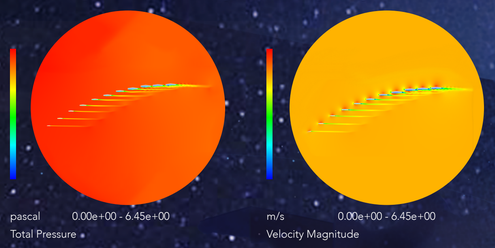
PROPORTION



> Length/Width 6/1 is the best choice.

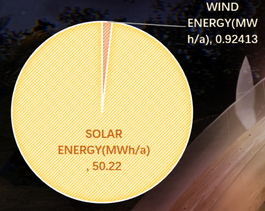
In order to determine the optimum shape of the leaves, wind field simulations were run to test different shapes in velocity, turbulence and pressure fields, using local climate data. A slim symmetrical arc shape showed the best results. In positioning, densely placed leaves in a smoothly sloping array were the most promising. The design was adjusted according to these findings.

POSITIONING



> to maximize the amplitude of the blade, dense blade distribution and smooth slope are the best choice.

POWER



Power generation of one big sculpture. Generates 0.4779Mwh/a * m^2. With more than 10 sculptures, and estimated 500 MWh/a can be achieved.