Is it a bird? Is it a plane? No, it's the SUPERCLOUD!

#TDLPTPPT

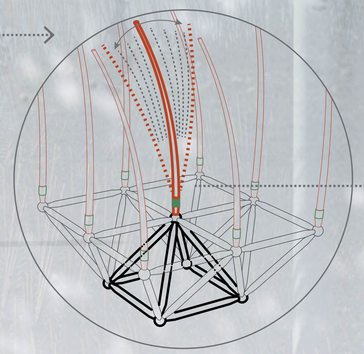
SUPER CLOUD is a profusion of pliable carbon fiber pipes. A steel space truss structure [270m x 60m] lifts from the ground and anchors around 14,500 tubes (ranging from 2m to 10m).

The basis of energy production comes from converting kinetic energy into electrical energy. Piezoelectric sensors are placed at the base of each carbon element, harvesting the kinetic energy generated by the bending movement and transforming it into electrical energy.

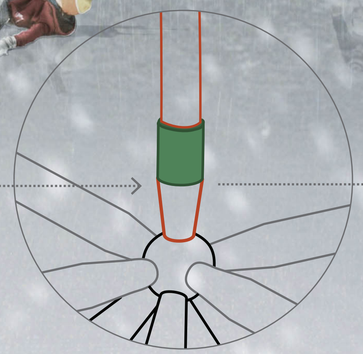
Although the energy production depends on the volume of wind, even a small breeze can induce tube movement. This makes it possible to create an object which is undergoing CONSTANT ACTIVITY.

ENERGY PRODUCTION

WIND



SPACE TRUSS STRUCTURE gives transparency to the whole object. Tubes connect to the structure with stiff hinges and bend with the wind.



PIEZOELECTRIC SENSORS are placed at the base of each tube, harvesting the kinetic energy generated by their bending movement and transforming it to electrical energy.

≃15 000 MWh/yr

ELECTRICAL IMPULSES are converted to a direct current that is transmitted to the city grid.

≃6 500