

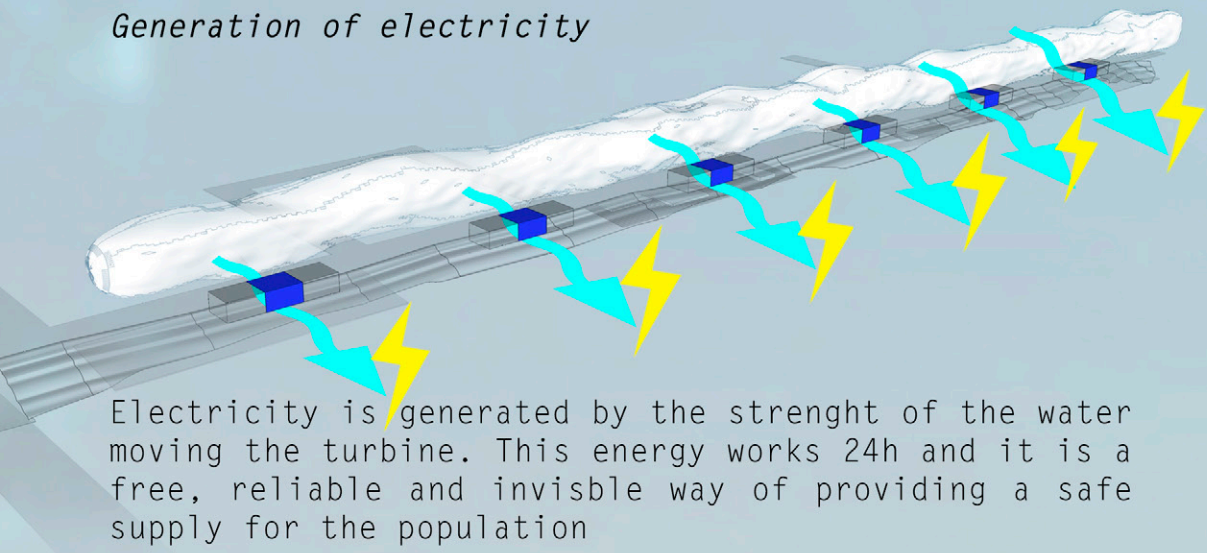
AURORA

materiality & energy

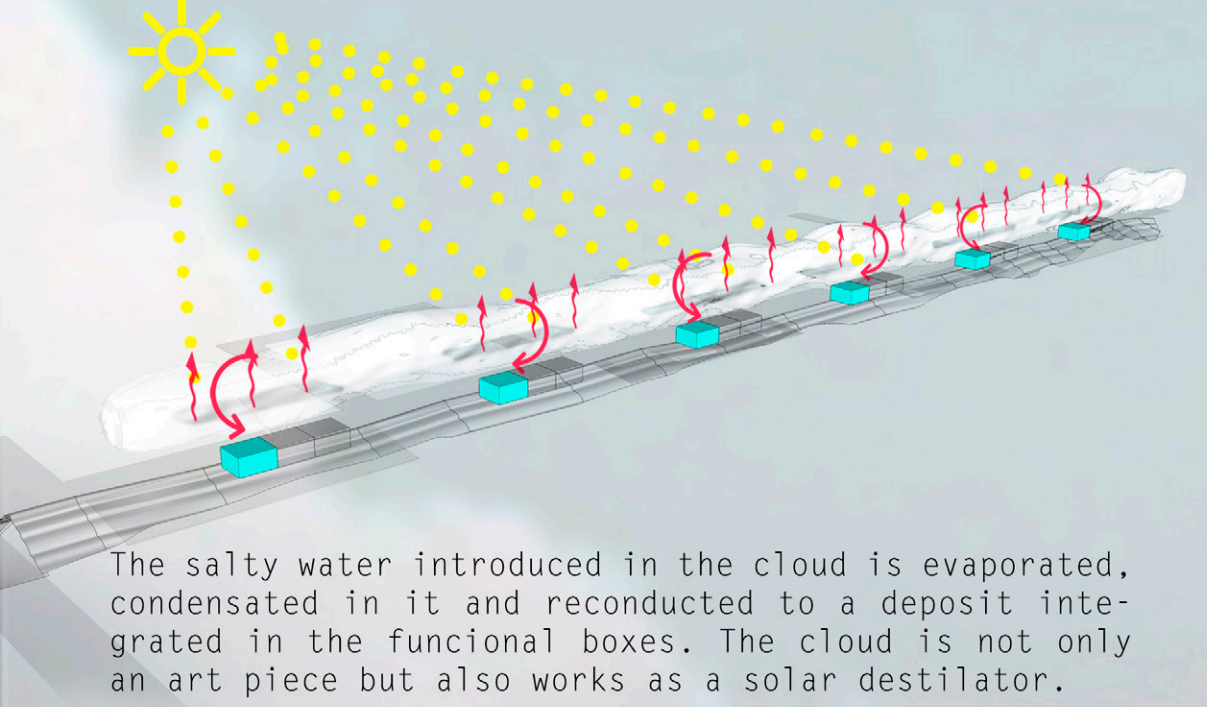
ENERGY & WATER CIRCLE

The caption of energy and water follows a circular path which cannot be broken. Everything works together in a integrated design. All the deposits and generatos are hidden to the public and do not interfere in the understanding of the whole proposal. The solution of a funcional box where the turbine, the deposits of water and salt and the foundations are integrated provides not only an easy check of the elements but also very flexible conditions in the designing process, not compromising the shape and the idea.

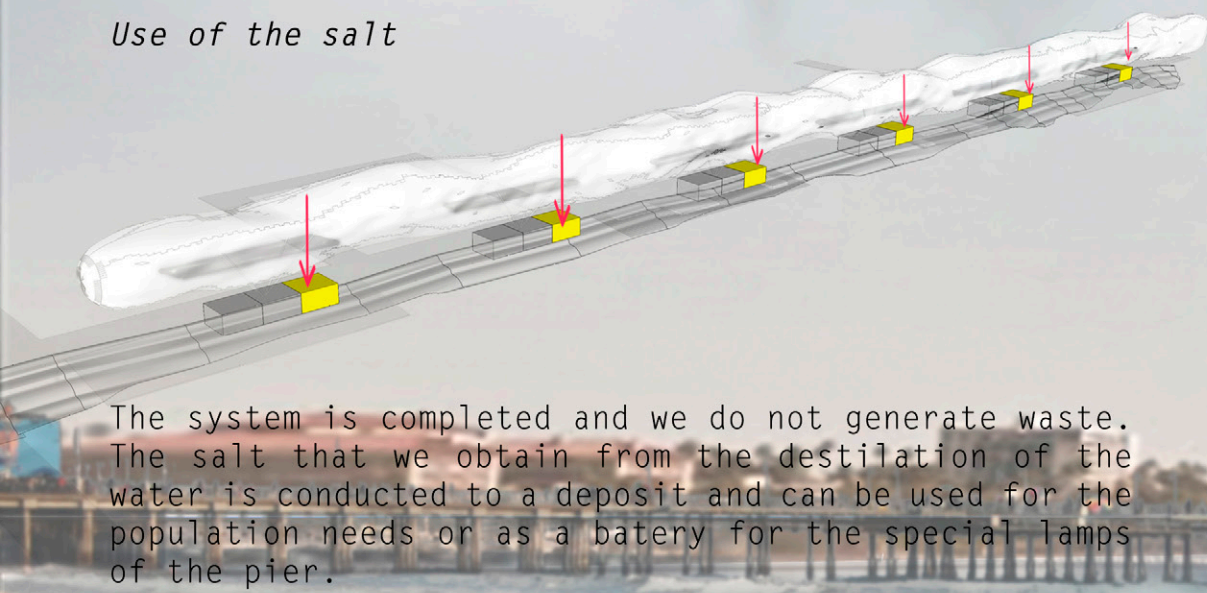
Generation of electricity



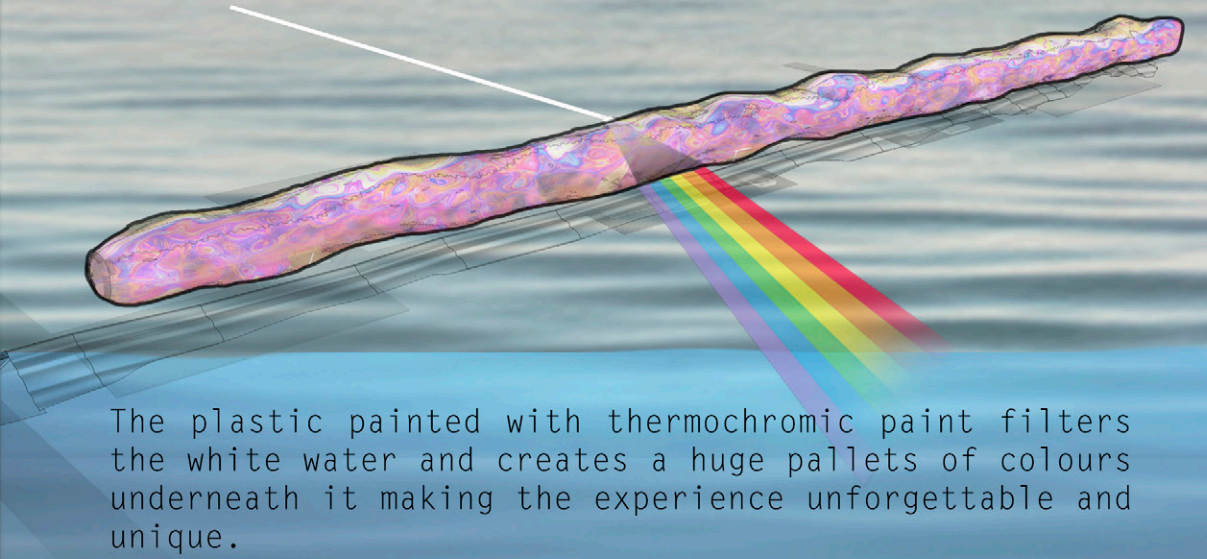
Generation of fresh water



Use of the salt



Material as light filter



STEP 1_OBTAINING ELECTRICITY

The marine turbine integrated in the breakwater takes and transform the kinetic energy of the water to electrical energy. This energy will be transported by cables to the general distribution.

STEP 2_PULLING WATER

The sea water which cross the turbine will be conducted by a pipe integrated in the pillars to the big trays integrated in the cloud.

STEP 3_WATER EVAPORATION

The thin layer of water in the tray will be evaporated because of the radiation of the sun and the help of the cloud which will work as a greenhouse and make the temperature inside higher. In that way we are separating the salt (that will stay in the tray and afterwards will be conducted to a deposit) and the fresh water.

STEP 4_WATER CONDENSATION

The evaporated fresh water will reach the skin of the cloud where it will be condensated. It will go down to the bottom of the cloud

STEP 5_WATER COLLECTION

The water will be collected inside the cloud and will be conducted to a deposit which is integrated in the waterbreak barrier next to the turbine. This water is fresh water and can be used for the needs of the population.

STEP 6_USE OF SALT

The remaining salt of the trays will be conducted with pipes integrated in the pillars to a deposit next to the turbine and the one for the water. This salt can be user either for the needs of the population or even to light the pier using special lamps which use salt as font of energy

