



Humans have been changing the face of the earth for thousands of years. Some of these changes include clearing the land for agriculture and burning carbon sources for heat. As the human population began to increase rapidly, these "insignificant" changes began to have global impact. This suggest that the rapid increase of CO_2 in the last century is not the result of a natural process. The burning of fossil fuels converts carbon in the biomass into CO_2 , which is a greenhouse gas. This and other greenhouse gases tend to trap energy from the Sun on the earth.

We are living in a world in which the climate is deeply affected by the burning of fossil fuels for energy generation. Global weather disturbances like global warming are proof that weather and climate are not impervious to human intervention. If we can alter the weather inadvertently – through technological recklessness – we can also alter it willfully.

CLIMATE ART GENERATOR is what is trying to avoid, a human-induced climate change. It is contradictory, seemingly. Is a device that produces clean energy and generates a local climate change as an artistic experience. Is not produced by humans, just induced.

A great opportunity for us to rethink about the modern age culture of controlling everything. Weather is the center of a technological debate. Our cultural anxiety about the weather can be attributed to its unpredictability. As an expression of nature, the unpredictability of weather points out the limitations of technological culture. While advanced methods of detection and tracking help to warn and thus protect us from the ravages of nature, the weather is unstoppable. It's beyond our control.

CLIMATE ART GENERATOR is not inspired by nature, is activated by nature. As a secondary expression of nature, hasn't a constant shape. Is recursive, created by the weather and weather modifier. An alteration that unleashes a reaction.

It is the inflection point in a field of vectors. Form follows equation. It is mathematical. It has a maximum and a minimum. If stops, nothing happens. If nothing happens, stops.

All is hardware, does not have software, is not programmed. As it isn't an object, doesn't have use instructions. Can't control it, just enjoy! It's predictable as weather. It's unpredictable as weather

Has 4 dimensions, changes with time and has a little delay. Is not boring. You never get used to his presence. It's as natural as artificial.

Activates human attraction to natural phenomena. Being local, concentrated, becomes tangible and therefore emotional. While changes in time, allows us to relate inputs and learn, an educational experience. Acts as an antenna, sending constant information.

By avoiding CO_2 emissions and cancelling their effects, is both preventive and active. Has a double positive impact. We use a hybrid strategy that combines global long term and a local short time consequences.

We do not propose any technical innovation, we mix the existing ones. Adds technologies to multiply effects. It's not a tornado, neither a waterspout, it's just the opposite. It is not metaphorical, is phenomenological....and spectacular, why not?

As a vertical windmill, harness the kinetic energy of the wind to generate 1500kW of clean electricity. Doesn't need to face into the prevailing winds, eliminating the need for a yaw mechanism. The generator itself can be placed on the ground, where it can be made larger and is easier to service. The generator is driven directly, eliminating the need for an extra gearbox and improving generating efficiency.

It works, but converting wind into electricity and transporting it means that a lot of energy is lost.

In a more direct way, part of the energy generated is dedicated to pump sea water to the top, accumulating potential energy. There is no water accumulation. In a continuous process, water falls inside the blades accelerated by the force of gravity.

At the end of the pipe speed increases as the section reduces by Venturi effect. Series of humidifiers spray fine droplets of sea-water (about a 1000th of a millimeter in size) in the opposite direction of the turning movement, collaborating to the rotation by Action-Reaction Principles

When you spray saltwater into the air, you create nuclei that cloud condenses around, creating bigger and whiter clouds, thus bouncing more sunlight back into space

The idea is to increase the amount of sunlight reflected back into space from the tops of thin, low-level clouds

Solar energy is partly absorbed and partly reflected by the earth. In addition, some of the energy absorbed by the earth is radiated back into space. The net difference in energy absorbed vs. energy radiated determines whether the earth becomes warmer or cooler over time. The composition of the atmosphere greatly affects how much energy from the Sun is radiated back into space.

Clouds are a key component of the Earth's climate system. They can both heat the planet by trapping the longer-wavelength radiation given off from the Earth's surface and cool it by reflecting incoming shorter wavelength radiation back into space. The greater weight of the second mechanism means that, on balance, clouds have a cooling effect.

The scheme relies on the "Twomey effect", increasing the concentration of water droplets within a cloud raises the overall surface area of the droplets and thereby enhances the cloud's albedo. Albedo is the measurement of how reflective an object, like a planet, is. The more reflective Earth is the more solar radiation is reflected back into space, reducing the Sun's heating effect.

In addition to global temperature stabilization, the technique is used to remedy more regional problems. The Emirate has hyper arid climatic conditions, with hot and dry summers, and mild to warm winters with meager, sporadic rains.

A new type of oasis is created. As humidity rises, vegetation can colonize the plot. Mangrove trees grow in tropical and subtropical areas. With the natural availability of these shrubs in several coastal areas in the UAE, they can reduce desertification impacts. Using the sun energy green plants convert carbon dioxide and water into oxygen through photosynthesis. They can also contribute in improving coastal areas as natural habitat for birds, fisheries and other forms of life.

Nobody knows the size of the CLIMATE ART GENERATOR. It's as big as the effects that produces. It's not dangerous but doesn't seem safe. Is shaped like a catastrophe, but provides benefits.