**Masdar Iceberg**

Sensation - an iceberg appeared in the United Arab Emirates in Abu Dhabi. This is the 8th wonder of the world Since icebergs have never been so far away from the Antarctic! A brave idea to deliver an iceberg to the UAE came true. What could be a more powerful symbol of the changes in our planet and of environmentally friendly renewable energy? The need for renewable energy is growing every year to reduce the effects of global warming that our environment is facing. We are surrounded by many renewable sources of energy, especially solar, which can be used efficiently and safely all year round. Our world has become so small today with the development of technology that it is not surprising to meet the guest of the Arctic Ocean in Masdar City! And this is not just iceberg, but a renewable iceberg, giving rise to saving the ecosystem of the planet. Icebergs will start to appear again in the future. Because it consists of solar panels that perfectly imitate the ice top. And I propose to make this iceberg the gate to Masdar City, and the gate to a new ecological future. Its size allow producing annual capacity is about 8000 MWh.

Solar panels have an anti-reflective coating that increases the absorption of sunlight and allows silicon cells to get maximum exposure to sunlight. Let's ideally pick up a blue shade and iceberg texture. And this is not a building, not an abstract installation, but a real natural object 1 in 1 imitating a real iceberg.

It is also possible to make a laboratory for the production of water from the vapors formed on specially made panels. It is possible to create Solar Cooling. The presentation says that Masdar city is already developing these technologies, and the iceberg is a perfect symbol of that. Solar thermal cooling, which is likely to constitute a significant source of cooling in Masdar City. This technology drastically reduces electricity consumption by using a thermo-chemical process that involves a mixture of water and special salts, such as lithium chloride or lithium bromide, to condition air – rather than electric-powered vapor compressors.

Like all icebergs, in addition to the visible part: this is a tourist magnet, an art object that makes you think about the problems of planet and humanity. There is a largely invisible part: these are Laboratories, Museums, coworkings, libraries. In the hidden part of the iceberg, people can go on excursions and become involved in restoring the eco-balance in the region, see how Solar Cooling works, the process of power generation, water production.

And in the upper part, the contrast with the nature of the region will work perfectly: ice skating rink, exhibitions of ice sculptures and so on. Outside, at the expense of the cooling system, it is good to create an effect, when the iceberg will give cold and be felt by hand. It is enough to make this effect 1.5 m from the ground. The second half of the iceberg can be multi-storey. We can make a shallow pool for the effect of immersion in water. The visual feeling that a real iceberg sailed to our area.

Depending on the budget and planning of the city, we can make additional underground floors, an ice rink, or only overhead installation with solar panels and the production of water and cold, and inside the training and guided tours of this process. The budget is possible from $ 380,000. We will provide more detailed calculations with final measurements and approval of concept options. I, my colleagues, Ukrainian engineers in the field of solar energy will create accurate drawings.

Modeled after ancient cities such as Cairo and Muscat, the city is designed to passively create cooling microclimates with the use of thermal mass materials that absorb heat, shading elements, wind towers, and the breezes created by the narrow pedestrian-friendly corridors. And here our iceberg is organic. And the Cairo pyramids resemble icebergs, maybe they knew something?

In the future, we can develop a network of huge icebergs that collect energy in the oceans, and when entering the water area, they distribute it. Or they will be near the shore, as a reminder to people of the global problems of the planet.

In order to popularize The Land Art Generator initiative and the 24th World Energy Congress, we can produce floating iceberg and it can appear for example on the canals of Venice and cause a sensation (the Venice Biennale is just taking place), and then with it we will popularize LAGI, participating in various events around the world net and showing the possibilities of solving ecological problems. The art object is a symbol that pays attention to the fact that we now have to live differently on Earth.

In the future, the picture will be familiar already, when there is an iceberg near Manhattan, on the Thames in London, Abu Dhabi, Tokyo there will be snow-white handsomes near the coast, changing the life of the planet for the best.

In the future, they will be controlled by artificial intelligence.