

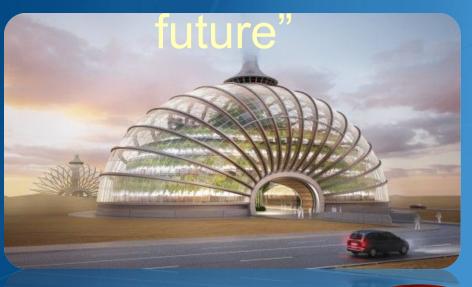
The Ark

Winner of the contest "Radical innovations in hospitality" 2011

Submitted by Alexander Remizov (Russian architecture)

"The Ark" is...

• a bioclimatic building with independent life-support systems that can be built on land or sea"The house of



Can be constructed quickly and withstand environmental disasters through its structural integrity







Architectural features

maintenance of security and precautions against extreme environmental conditions and climate changes

protection of natural environment from human activities

The Ark project makes an attempt to answer these challenges of our Time





Structure

Timber arches



Steel ropes





The framework is covered with a special foil



Self-cleaning

Highly transparent

 More durable, more economical and lighter that glass

Structure



The building has a cupola form



An optimum relationship between the building's volume and its outer surface

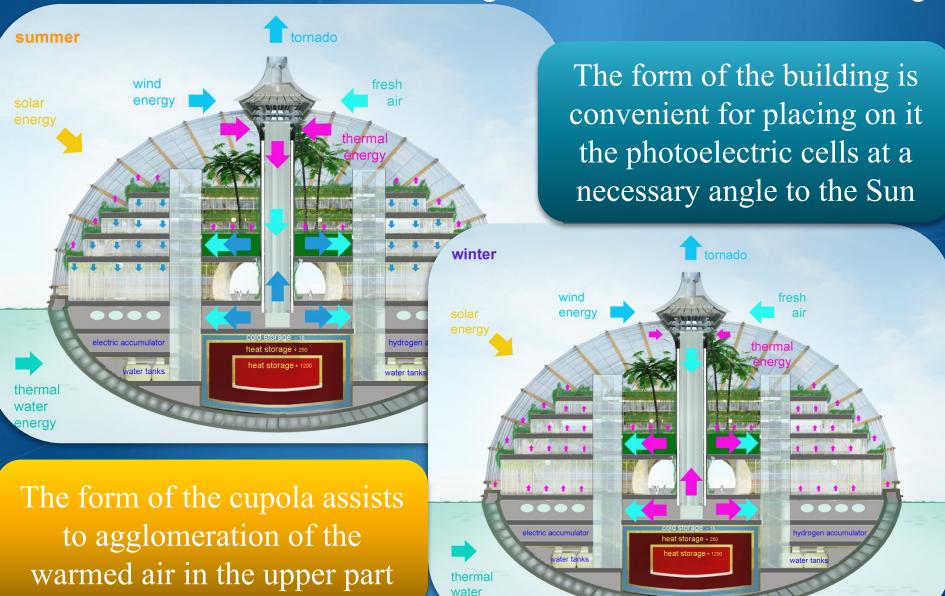
Special metal profiles



Solar collectors for water heating + gutters intended for collecting rainwater from the roof

Energy system

Wind power generator and tornado generator are at the central bearing



energy

The main purpose

• The building could be constructed in different climatic zones and in seismically dangerous regions, because the structure of the basement represents a shell without any ledges or angles.

• A stressed structure of arches and ropes permits to distribute load along the whole bulk in case of earthquake



• The structure of the building permits it to float in case of water leveling up in the World Ocean

Planting of greenery

• All the plants are chosen according to principles of compatibility, illumination and efficiency of oxygen producing, as well as with the aim of creating an attractive and comfort space.





Thank you for your attention!