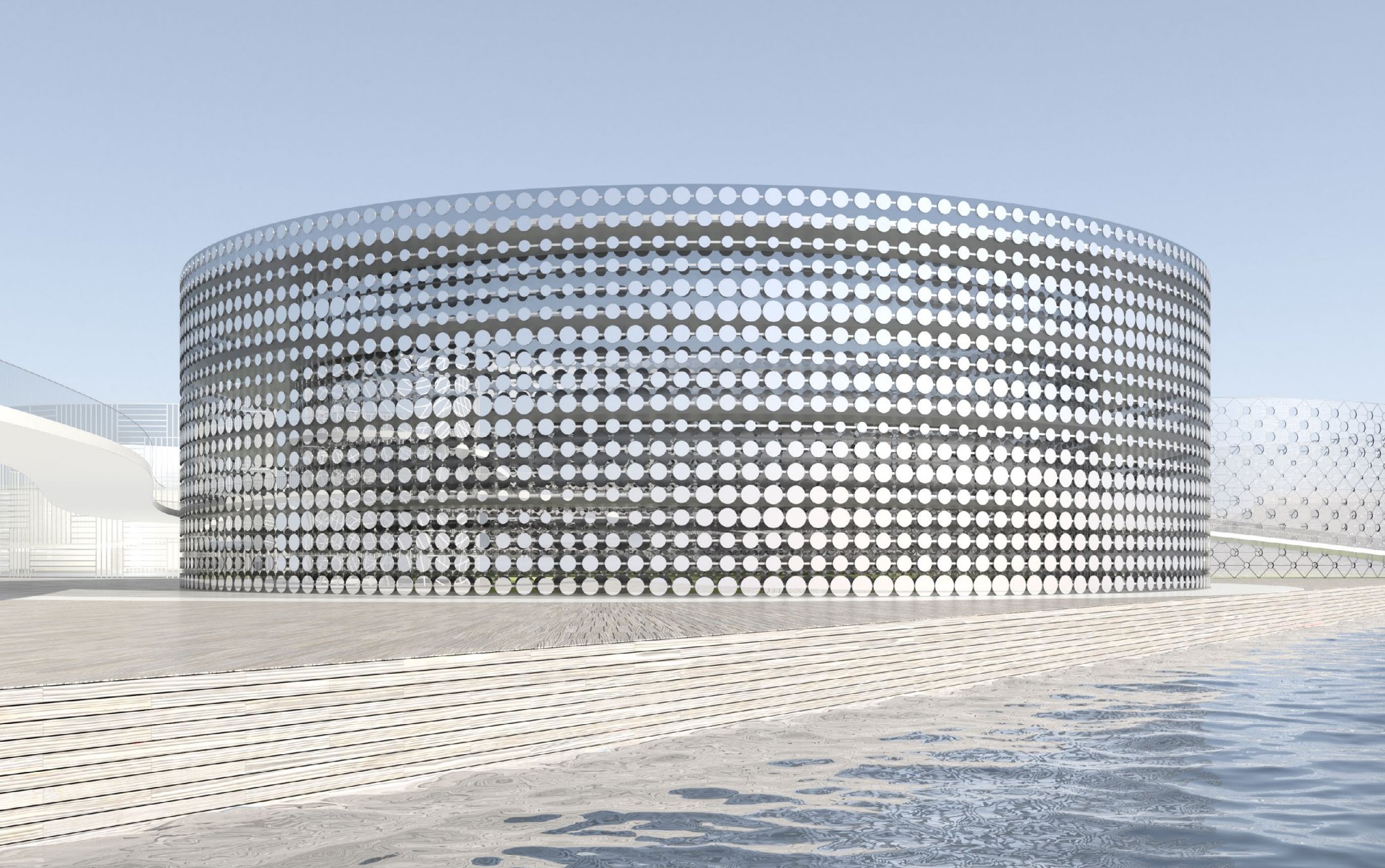
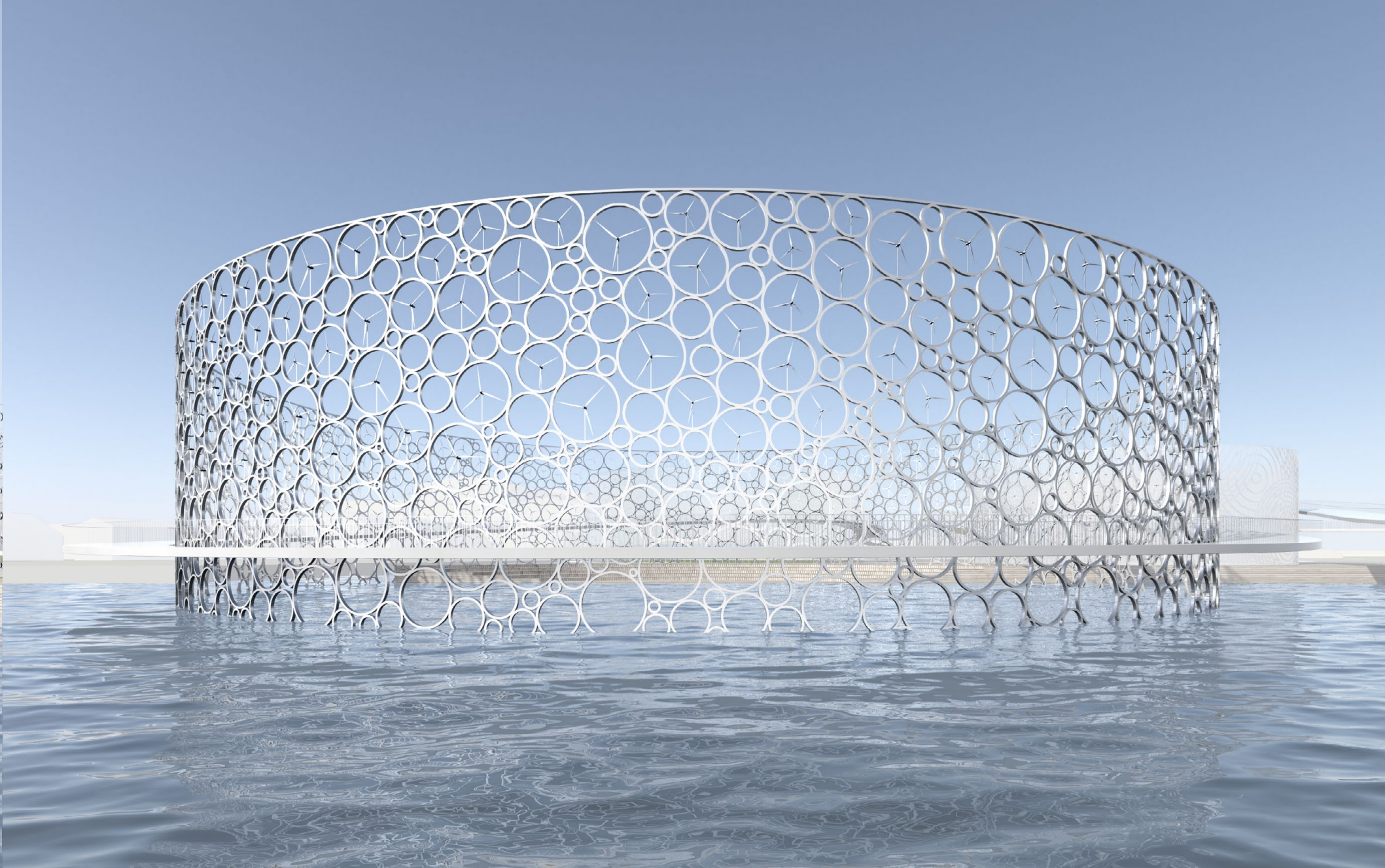


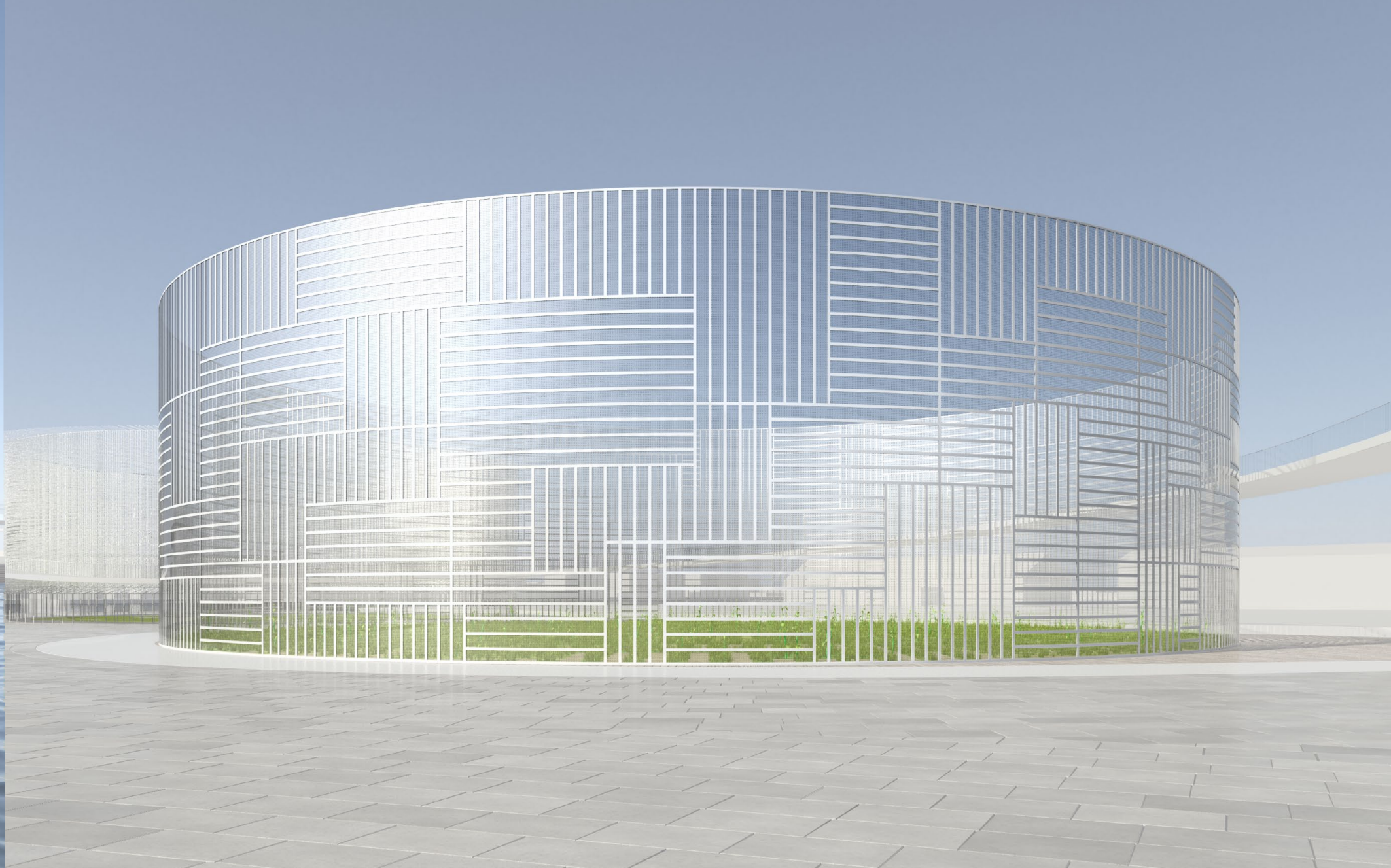
Energy EcoSystems of Denmark: a New Nature for Copenhagen



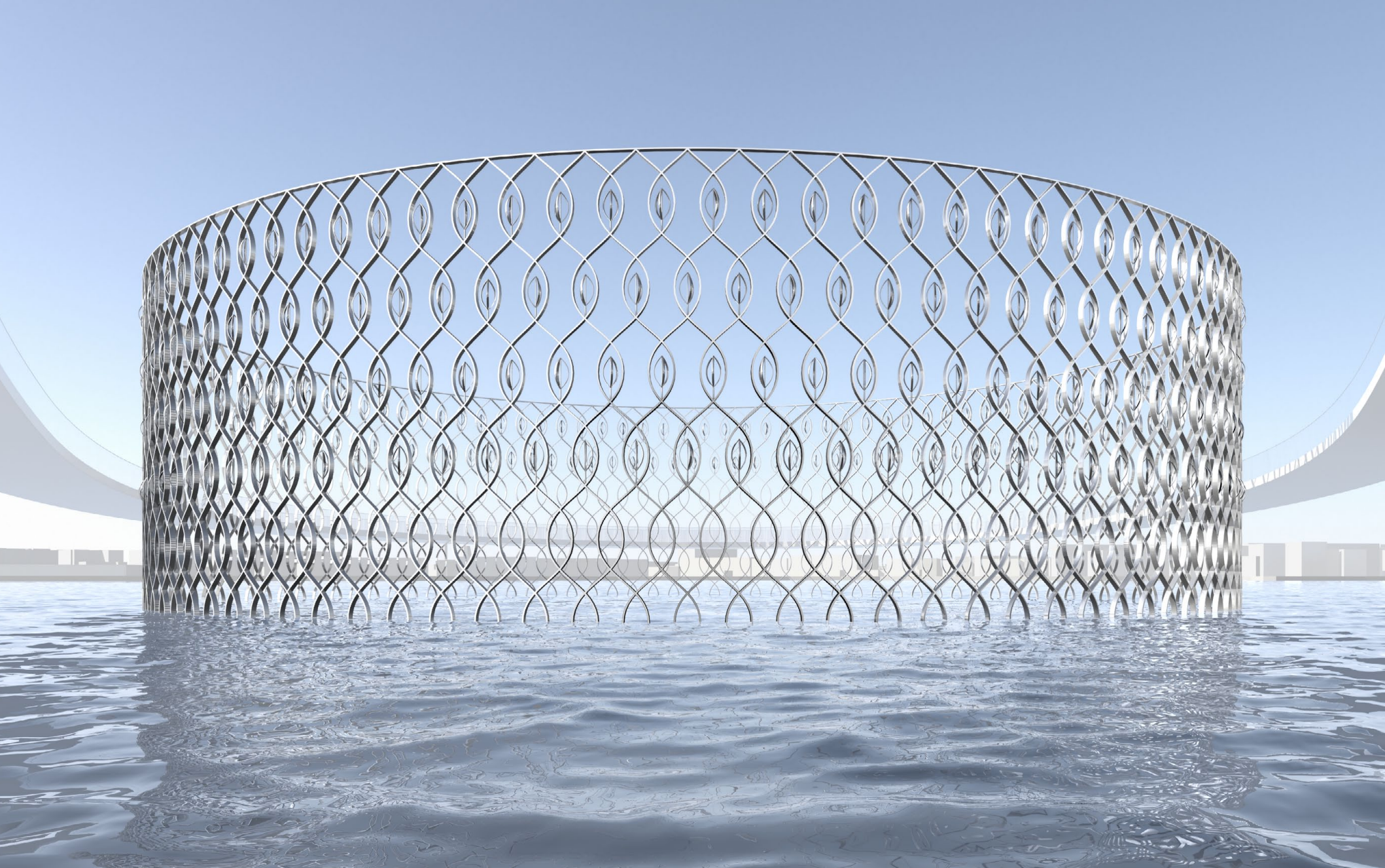
The "**Urban Ecosystem**" hosts a "Renewable Energy Museum", dedicated to Hans Christian Oersted and Niels Bohr, representing the motion of electrons in a solenoid with round photovoltaic panels. The Museum has a rooftop terrace and hosts different activities, such as exhibitions, education, restaurant and technical equipments, while the green area is a sculpture garden.



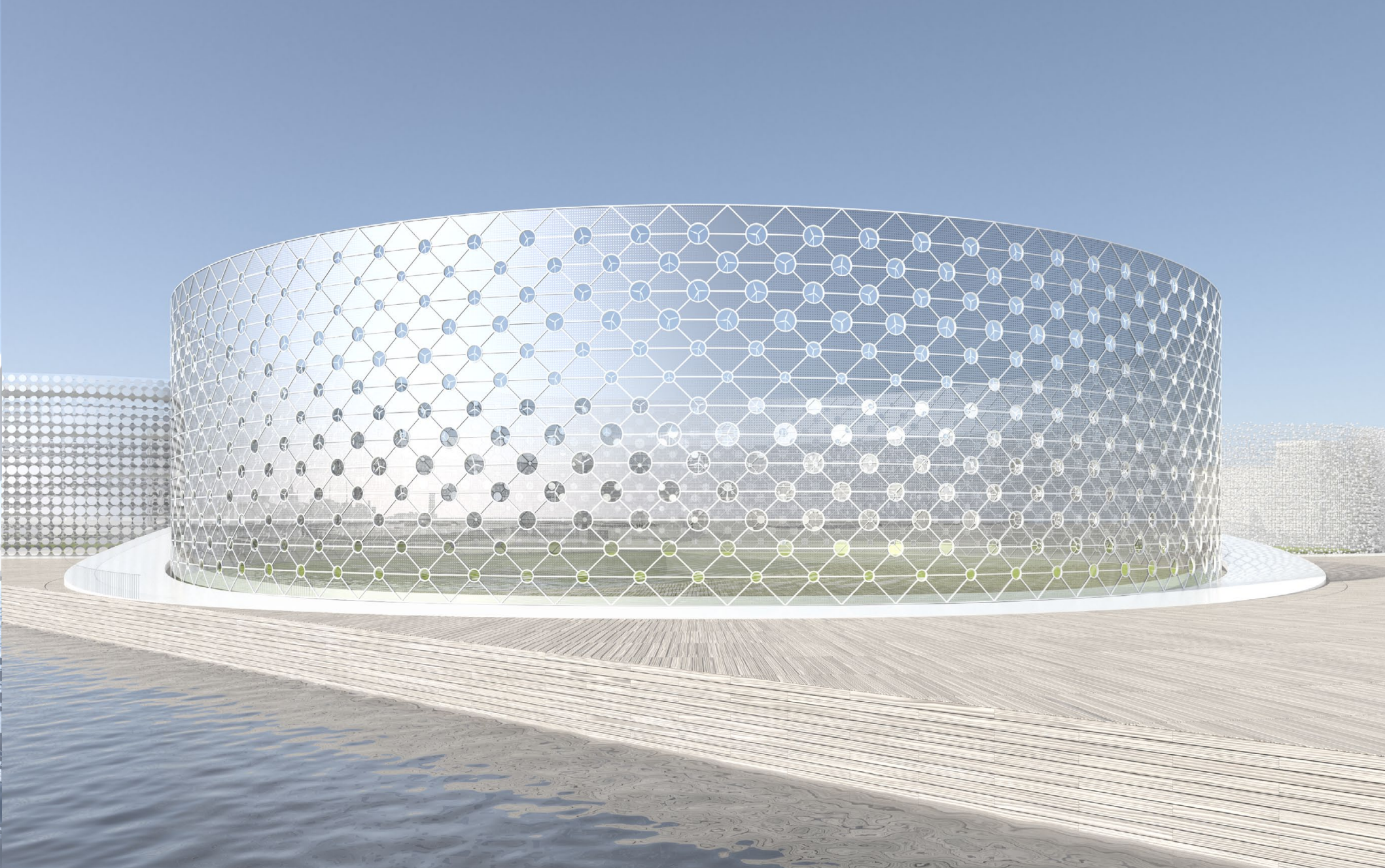
The "**Beach Ecosystem**" is the Harbour Bath with a wooden amphitheatre, realizing the transition from land to water as a terraced landscape where people can relax and reach the sea. The circles symbolize the beach waves and integrate horizontal axis wind turbines (HAWT), varying in dimensions depending on the internal diameters.



The "**Agricultural Ecosystem**", realized in semitransparent photovoltaic panels, reinterprets the rotational open field productions of agricultural crops. The "urban agriculture" garden showcases the biodiversity of plant life in Denmark, bringing to the public the knowledge of their country's different foods and plants.



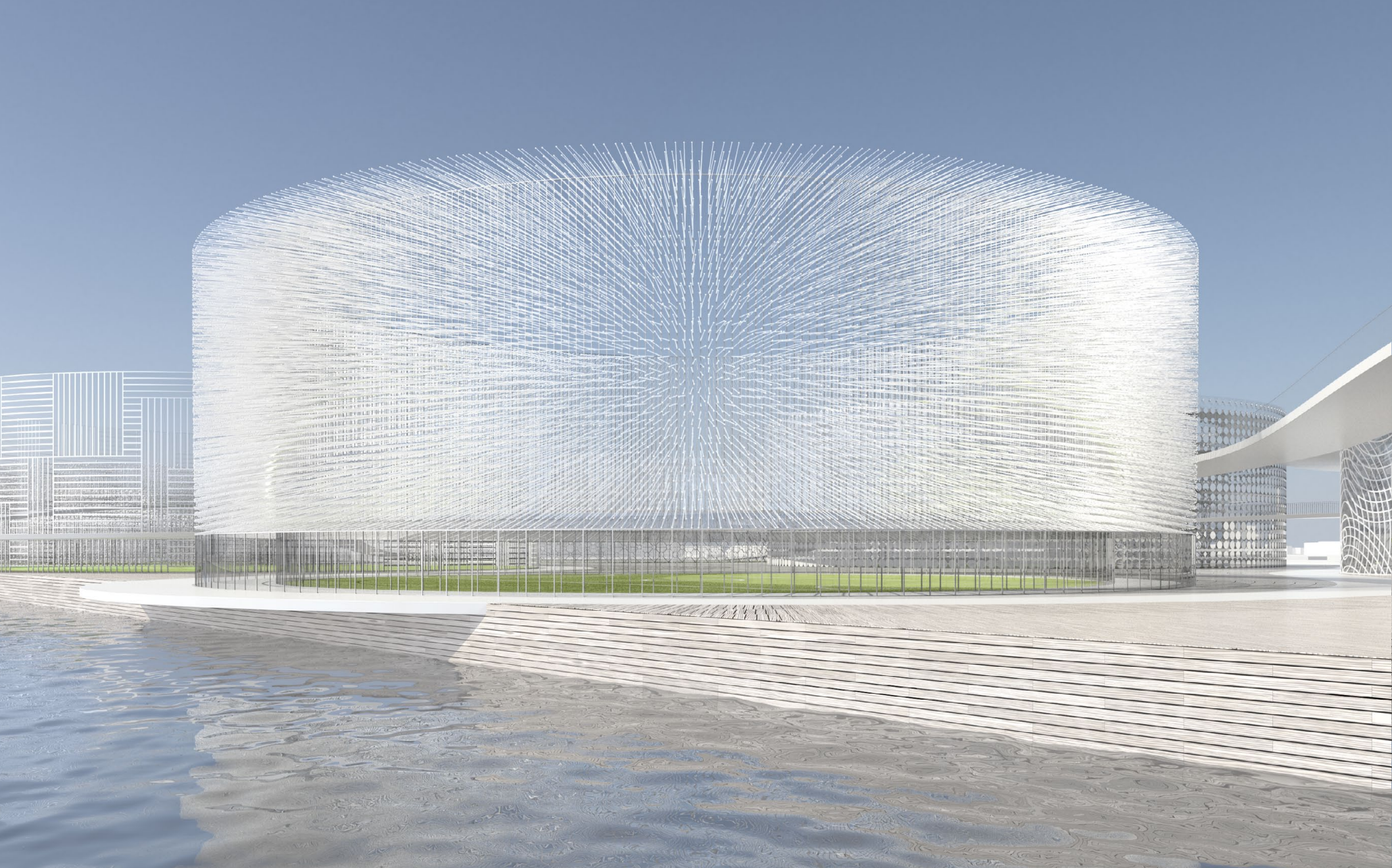
The "**Marine Ecosystem**" is the new stop of the "Blue Way" and houses many activities like swimming, scuba diving and kayaking. The intersecting sinusoids symbolize the overlapping sea waves and integrate vertical axis wind turbines (VAWT).



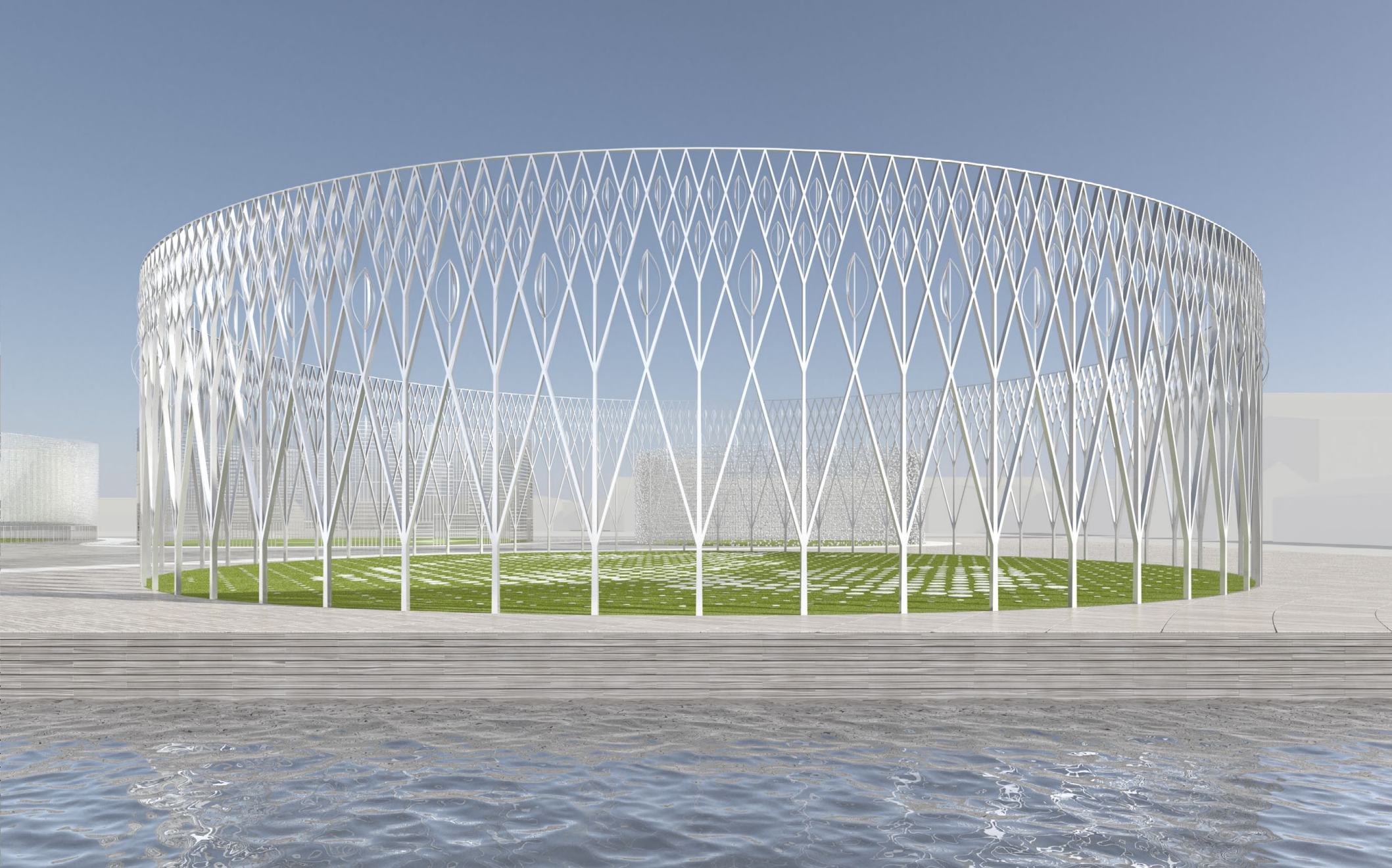
The "**Sand Dune Ecosystem**" represents the aeolian sediment transport of the migrating sand dunes. Its facade is composed by thin-film semitransparent photovoltaic panels and by horizontal-axis wind turbines. The garden, composed of round slabs evoking the grains of the sand, outlines the silhouette of Denmark.



The "**Lake Ecosystem**" draws its inspiration from the phenomenon of the superimposition of the waves on the still surface of a lake. The structure, representing the interferences of the overlapping concentric wave propagations, support semitransparent photovoltaic panels which enclose a water playground.



The "**Grassland Ecosystem**", an ideal representation of a grass field, is composed by piezoelectric energy systems moved by the wind. The green area offers a recreational open grassland for sport activities, while the peripheral ring hosts visitors support facilities.



The "**Forest Ecosystem**" is symbolized by a pattern of overlapped tree silhouettes that support vertical axis wind turbines, giving the sensation of a mobile frondage. It defines a recreational garden for sports and relax.



The "**Arctic Ecosystem**" reminds of a snowfall in a typical frozen arctic landscape. The floating snowflakes are oscillating piezo-electric energy systems. The ecosystem creates a public space, hosting an outdoor ice skating rink during the winter time.