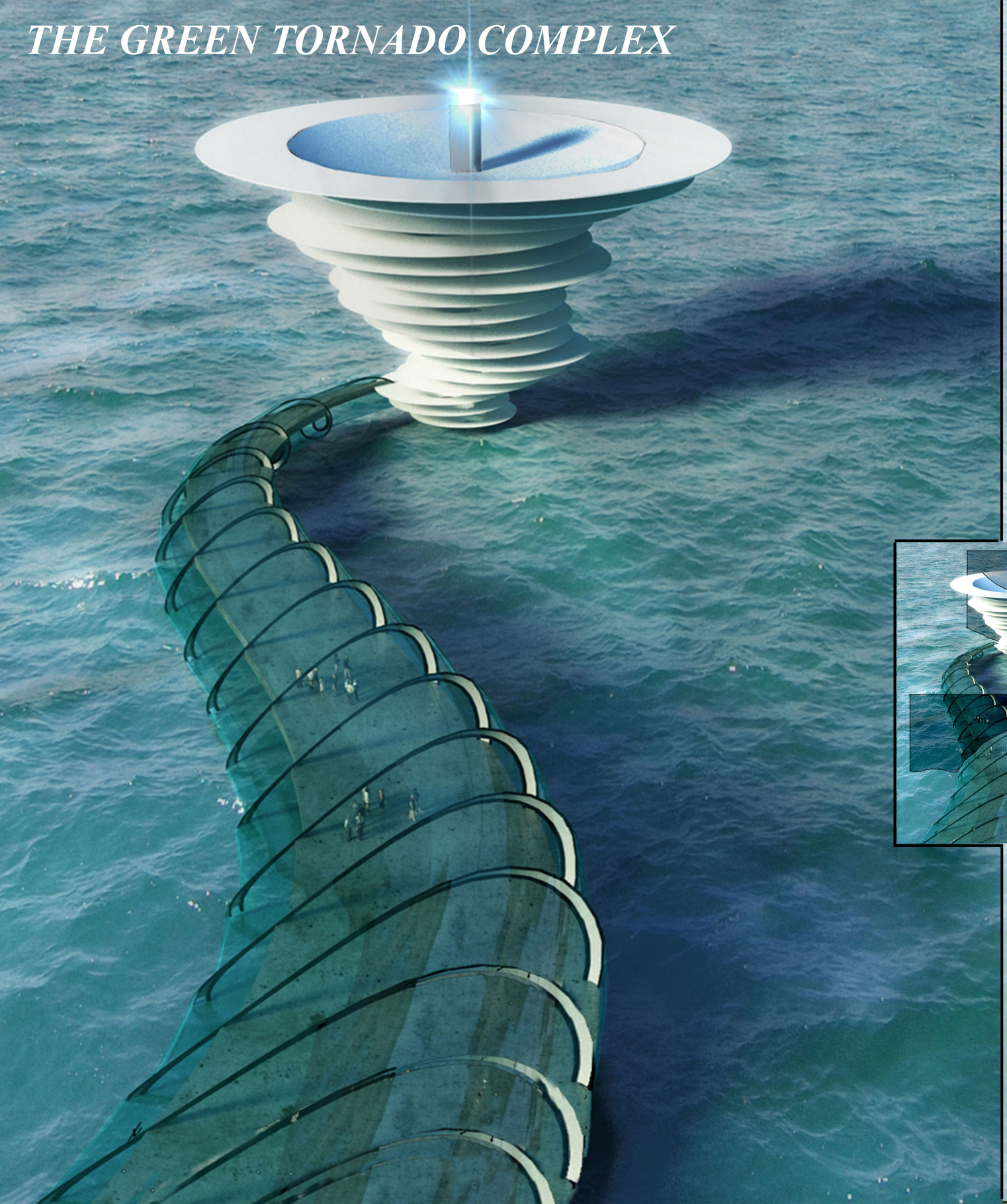
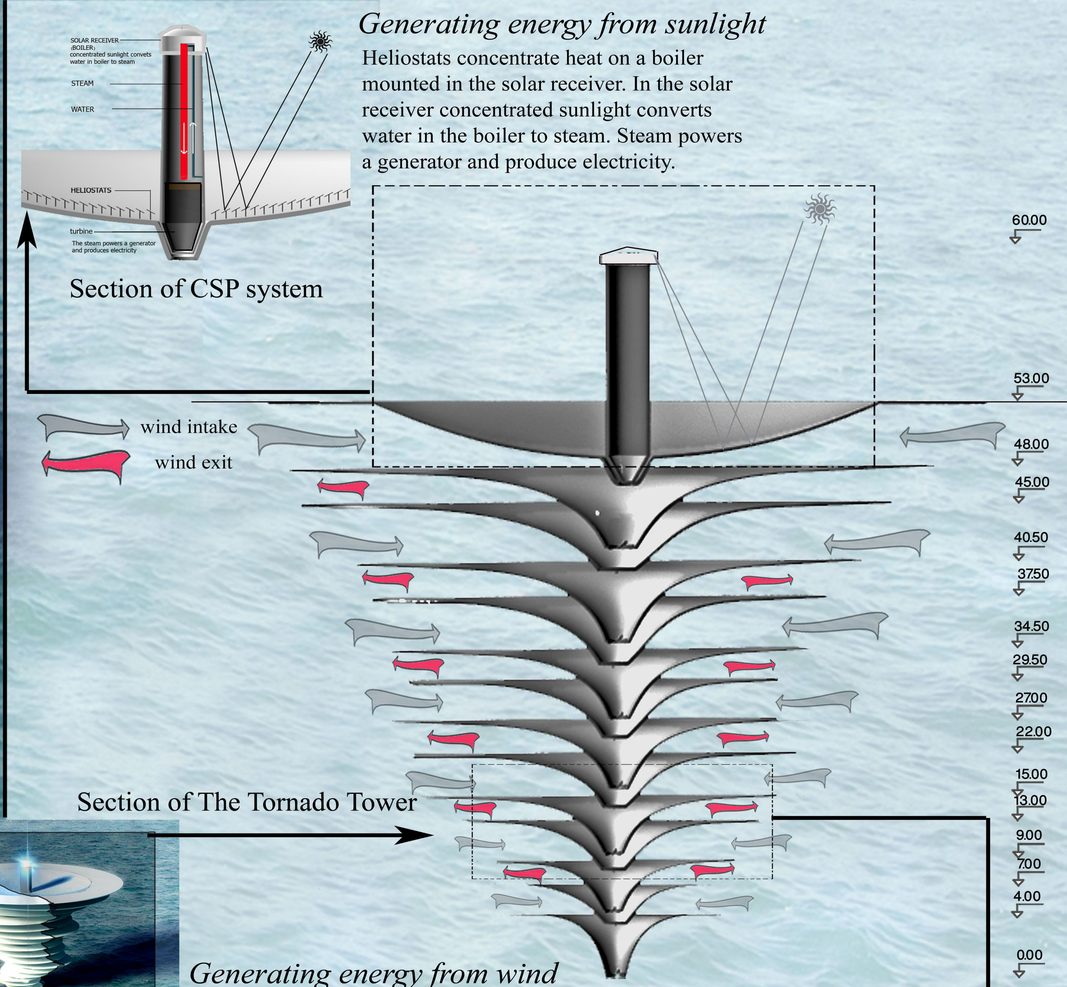
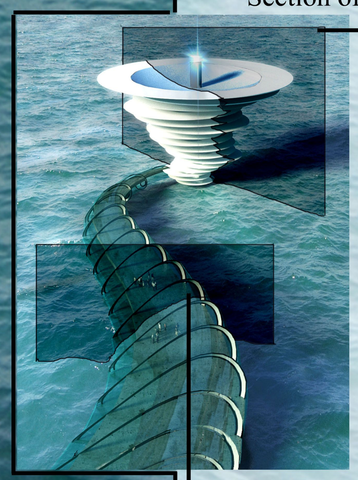
THE GREEN TORNADO COMPLEX





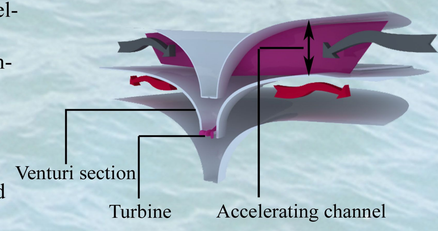
Generating energy from sunlight

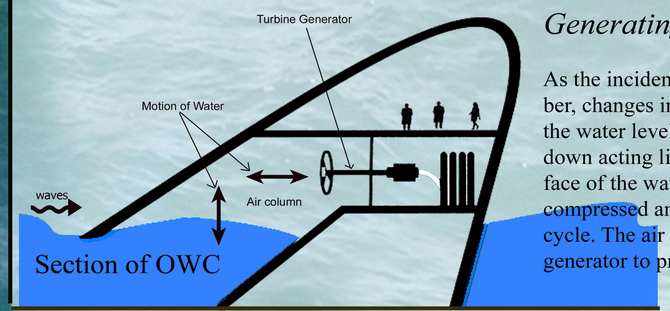
Heliostats concentrate heat on a boiler mounted in the solar receiver. In the solar receiver concentrated sunlight converts water in the boiler to steam. Steam powers a generator and produce electricity.



Generating energy from wind

The Wind Tower is simply a multi-storey wind capturing and delivery system that funnels wind energy to some conversion systems to convert the accelerated wind to electrical power. The five key components of this tower are (1) intakes, (2) accelerating channels, (3) Venturi sections, (4) turbine/generators, and (5) exit openings. The omnidirectional intake areas allow wind collection from any direction. When air stream passes through the intakes and proceeds towards the accelerating channels, it continuously speeds up. Wind is then concentrated and further accelerated in the Venturi Effect sections of the tower. This stream of wind energy is then delivered to some turbine/generators installed safely and economically at ground or upper-ground levels to convert the accelerated wind to electrical power. Finally, air returns to nature through the exit openings.





Generating energy from waves

As the incident waves outside enter and exit the chamber, changes in wave movement on the opening cause the water level within the enclosure to oscillate up and down acting like a giant piston on the air above the surface of the water, pushing it back and forth. This air is compressed and decompressed by this movement every cycle. The air is channelled through a wind turbine generator to produce electricity as shown.