

of electricity per month.

Tank 3 water is pumped into this tank for final testing and clearance. Once clean, the water is released back into the ocean. Pump 3 system is turned off. Pump 2 turns on transferring water from tank 2 into tank 3. Pump 1 system is turned on, transferring water from tank 1 to tank 2. Tank 1 pump sucks in new

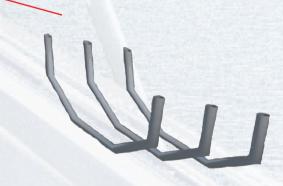
SOLAR POWER

Water is pumped into tank 3 from the nitrate tank. This water is treated for lead. Once water has filled, second pump system shuts off. First pump system is turned on, transferring tank

1 water to tank 2. Tank 1

Ammonia treated water is pumped into this tank from tank 1. Once water has been pumped, first pump system shuts off. This water

Water is sucked into the first tank. Once filled, suction valves shut off, closing the tank from the ocean water. This water is treated for ammonia. Once ammonia levels are cleared, it gets pumped into tank 2.



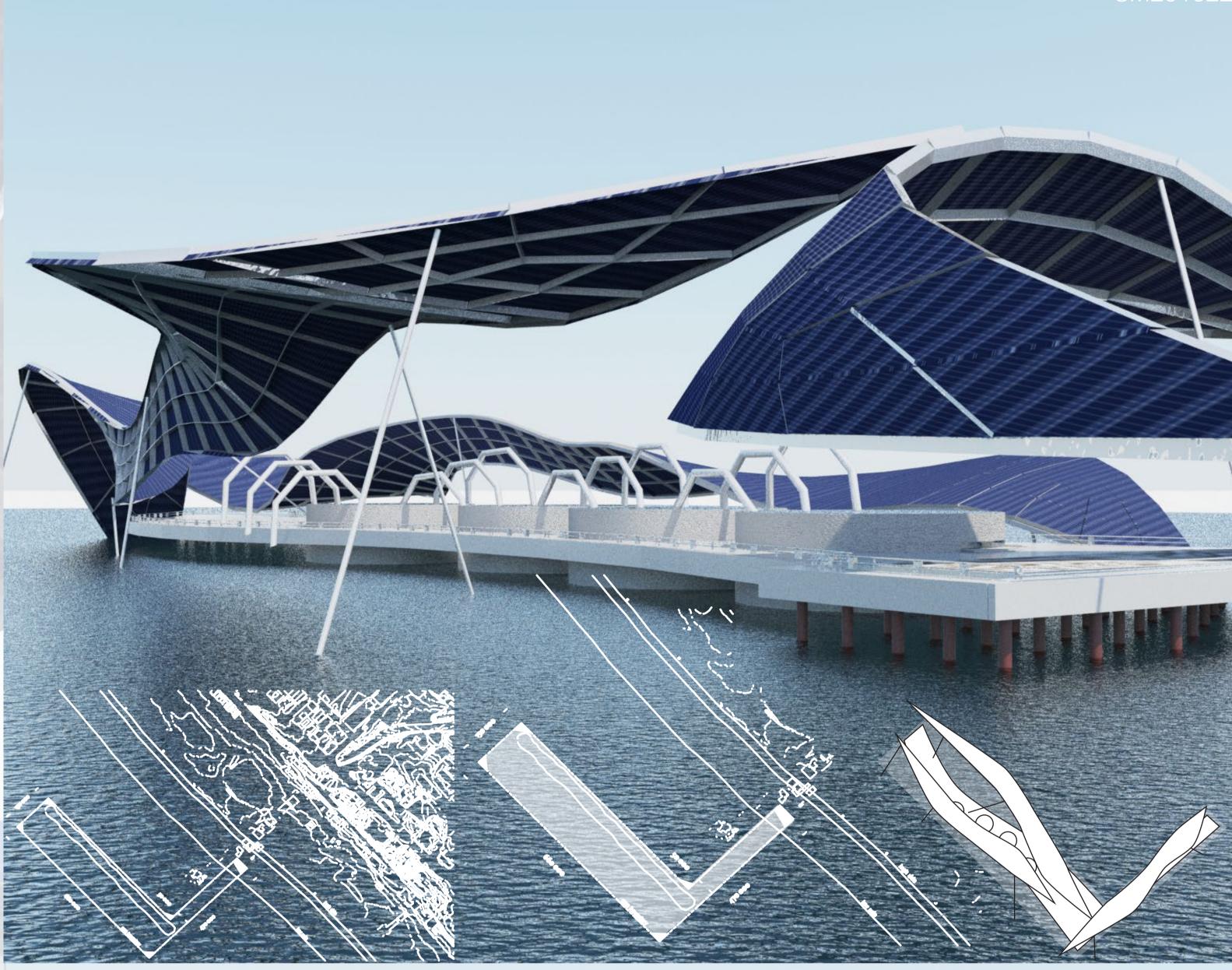
FILTRATION SYSTEM CLEANS 129,025.2 CUBIC METERS PER CYCLE = 340,850,000,000 billion gallons

SYSTEM GENERATES 11,601,408 kWh/month DC

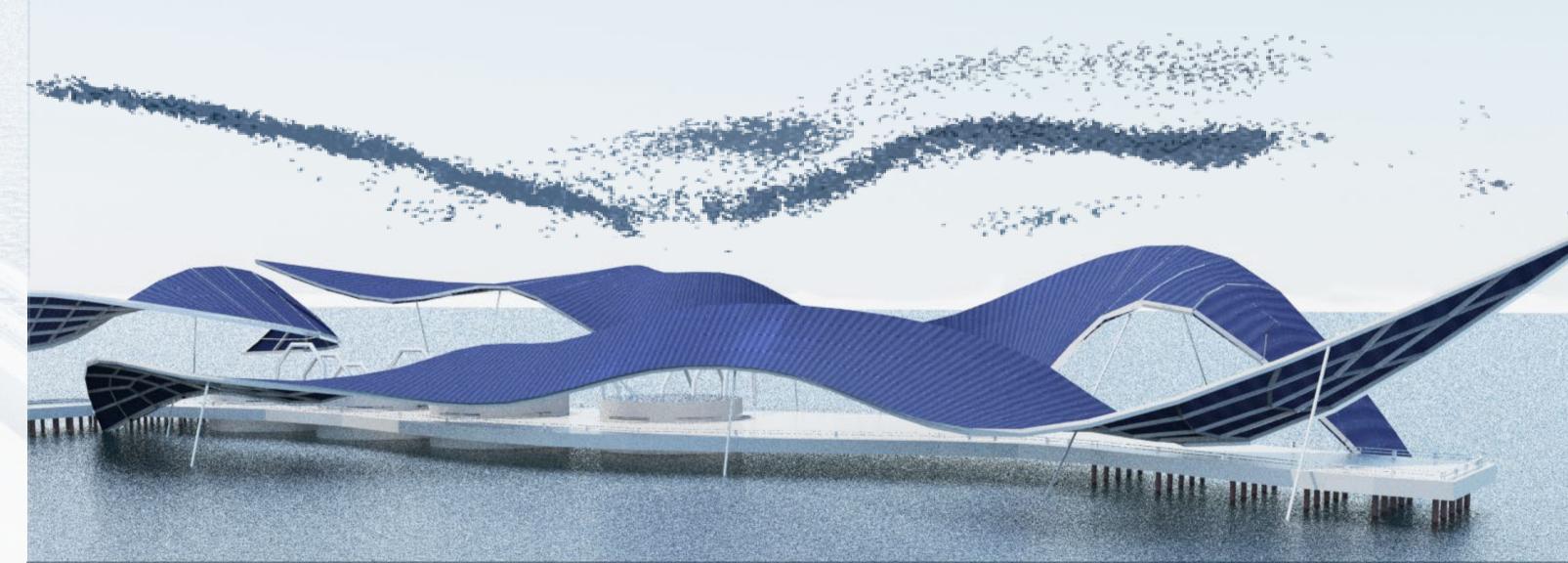
OUTPUT = Area(m2) x Conversion efficiency(16%) x Solar radiation according to NASA(557.76)

IN 1 YEAR 4,090,200,000,000

TRILLION GALLONS OF CLEAN WATER CAN BE RESTORED.



INSPIRATION: MURMURATION IS THE STUDY OF BIRDS TRANSFORMING THEIR FLIGHT PATTERNS AND THE MATHEMATICAL RELATIONSHIP TO BIOMIMICRY



Solar Murmuration takes sustainable concepts from inspiration in nature through murmuration and saltwater filtration systems for healthy marine life. This project is an "off grid" filtration system as an extension to the Santa Monica Pier by using photovoltaic technology. With this scale, over 4 trillion gallons of water can be cleaned and released back into the environment per year. The process is expanded on a massive scale with a 660m width and 470m extension from the end of the pier. The filtration process comes from personal experience of starting a saltwater marine tank at home. Cleaning our waters to improve the quality will bring back our nearly extinguished marine life. It is imperative to think about new architecture as an opportunity to solve environmental problems and to educate our families about the future. Solar Murmuration brings together sustainable concepts with new architecture and provides a solution to one of many environmental issues, improving the devastating state of our local marine ecosystem.

SANTA MONICA'S SOLAR MURMURATION