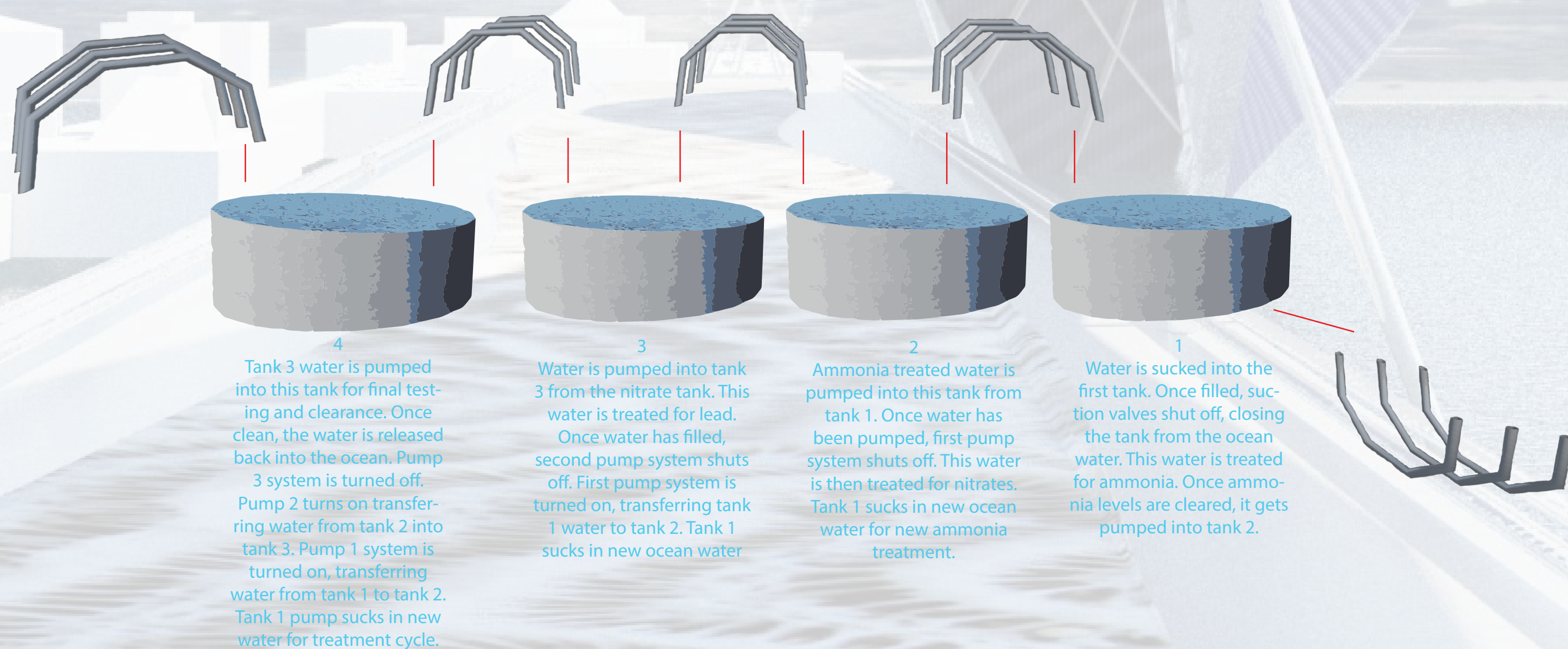




SOLAR POWER

SYSTEM GENERATES **11,601,408 kWh/month DC**
of electricity per month.
OUTPUT = Area(m2) x Conversion efficiency(16%) x Solar radiation according to NASA(557.76)

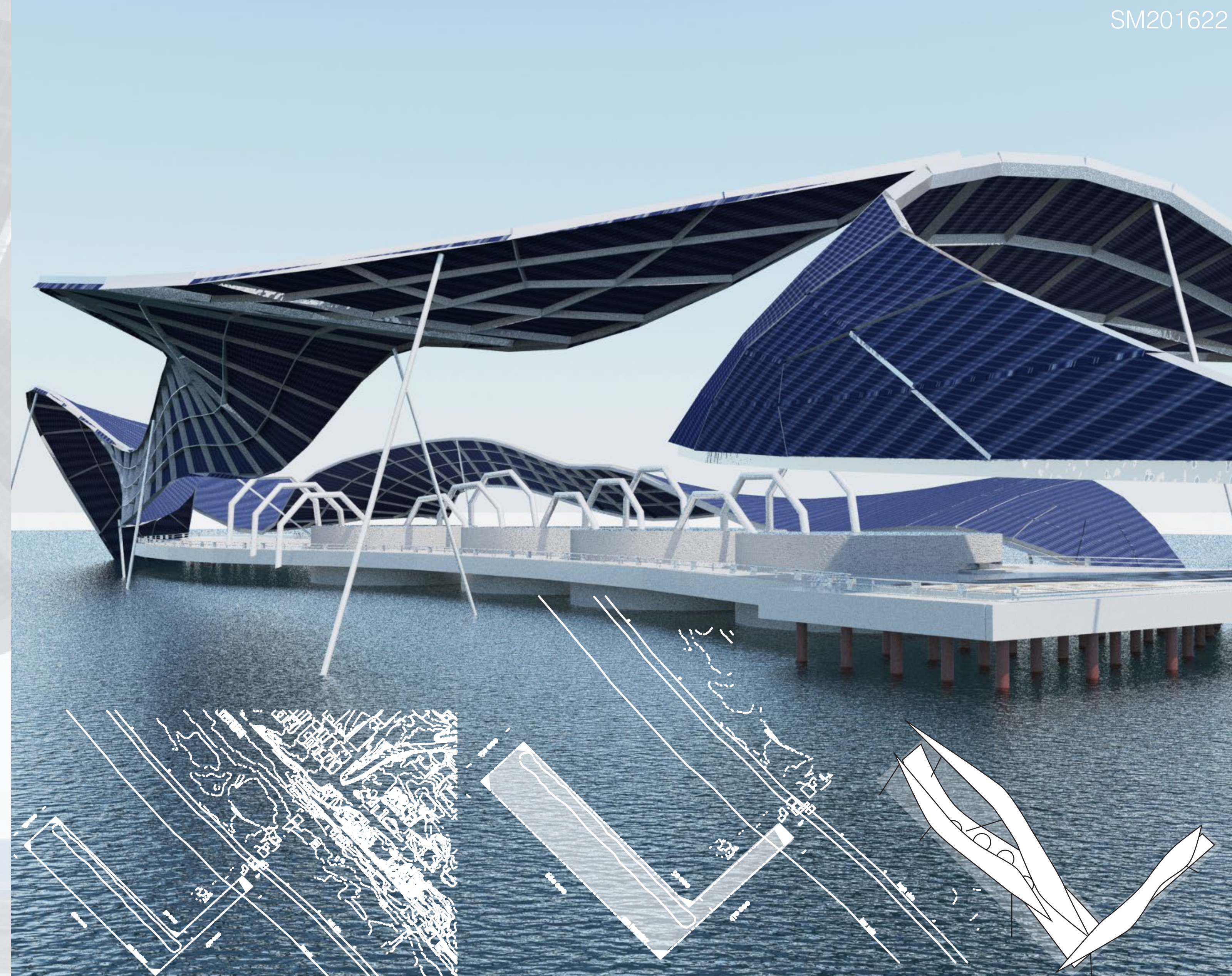


FILTRATION SYSTEM CLEANS **129,025.2 CUBIC METERS**
PER CYCLE = **340,850,000,000 billion gallons**

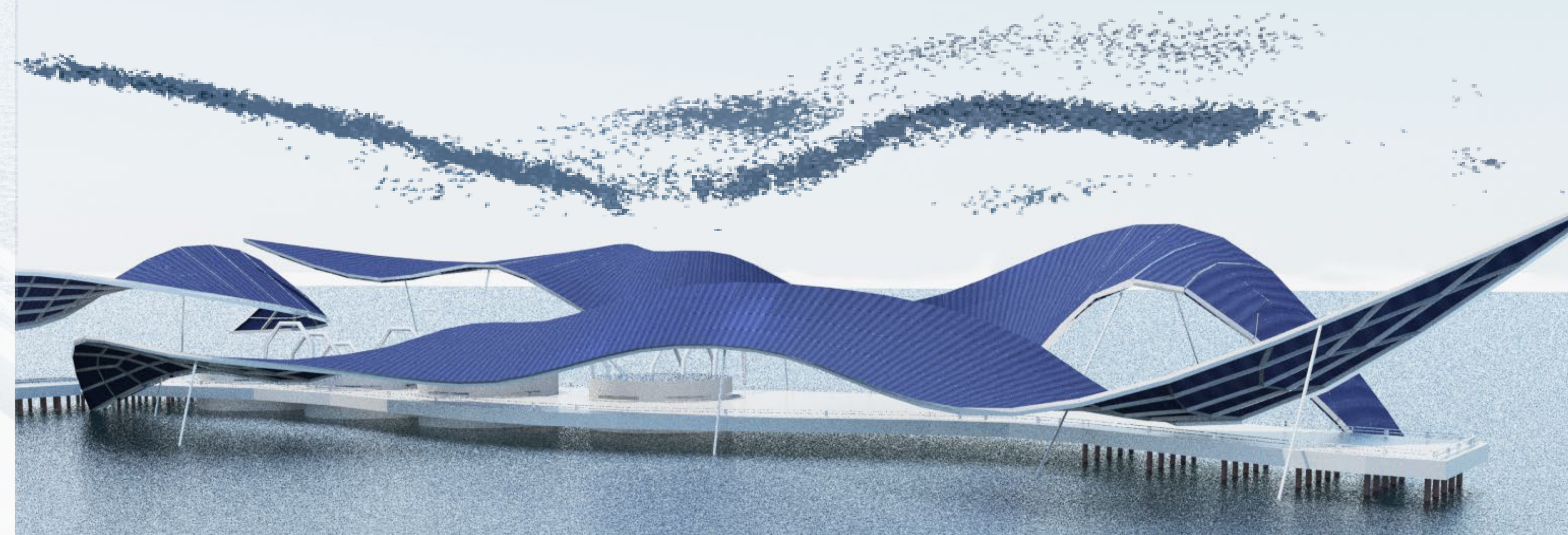


SALT WATER FILTRATION

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 Murruration 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 Murruration 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**