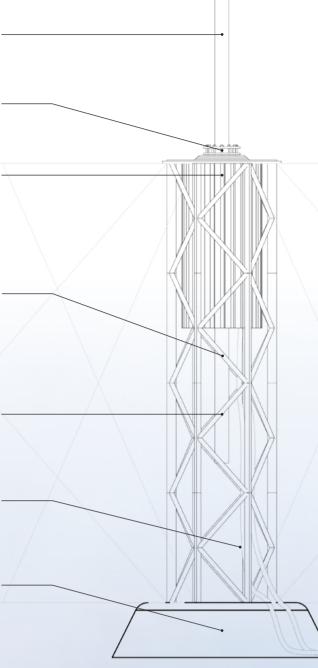
WEC ENGINE

FROM THE TROUGH THE BUOY IS DRAWN UPWARD WITH THE INCOMING WAVE, ENGAGING THE PISTON TO SUCK WATER IN THROUGH THE INTAKE VALVES AND ACROSS THE TURBINE GENERATOR. THE ENERGY CREATED IS THEN CHANNELED THROUGH TRANSFORMERS INTEGRATED INTO THE ACCESS DOCK AND DELIVERED TO THE PIER AND THE CITY GRID AT A USABLE VOLTAGE.

AS THE BUOY TRAVELS OVER THE WAVE AND IS AGAIN PUSHED DOWN, THE PISTON FORCES THE WATER WITHIN THE HOLDING CHAMBER THROUGH HOSES THAT MAINTAIN THE PRESSURE AS THEY ARE BROUGHT ON SHORE. FROM THERE THE PRESSURED OCEAN WATER PASSES THROUGH THE VARIOUS STAGES OF DESALINATION , OUTPUTTING POTABLE WATER FOR THE CITY OF SANTA MONICA.



GENERATOR TOWER

KINETIC PLATFORM

3D-PRINTED POLISHED BIOPLASTIC THAT FLEXIBLE IN X/Y/Z AXIS.

BUOY

PISTON FORGED TO BUOY, TRANSLATES WAVE MOTION TO SINGLE AXIS MOVEMENT.

GASKETED PISTON CONNECTION PROVIDES WATER-TIGHT SEAL FOR WEC ENGINE AND ITS COMPONENTS

WEC ENGINE UTILIZES THE WAVES MOTION TO GENERATE ELECTRICITY AND CREATE PRESSURIZED OCEAN WATER FOR DESALINATION ON LAND.

MODULAR STEEL SUPPORT STRUCTURE

A HEXAGONAL TRUSS SYSTEM THAT STACKS TO FACILITATE PLACEMENT OF WEC ENGINE AT PROPER DEPTH IN RELATION TO SURFACE.

GUY WIRE

TIED BETWEEN THE ARRAY OF GENERATOR TOWERS TO CREATE STABILITY WITHIN THE ENTIRE SYSTEM.

WEC OUTPUT CABLES/PIPES

CORROSION RESISTANT HOUSING OF WATER PIPING AND ELECTRICAL CABLES FOR UNDERWATER CONDITIONS.

BUTONG CONCRETE ANCHOR PRE-POURED CONCRETE BASE TO SECURE

TOWER TO OCEAN FLOOR MADE OF UNIQUELY FORMED CELLULAR CONCRETE.

THE LILYPAD ENERGY

