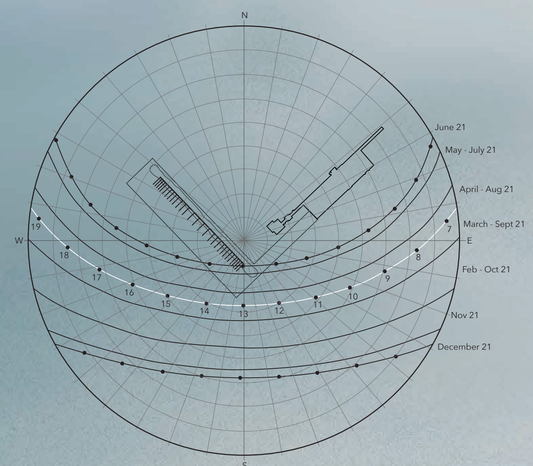
HORIZON LINES

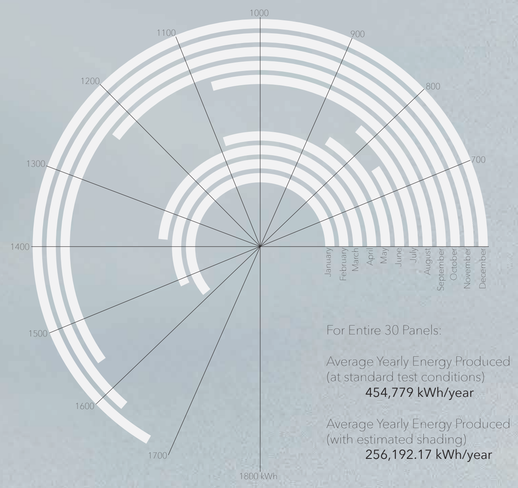
art = energy

HORIZON LINES is created from a series of 30 panels and base modules that can easily be scaled to fit the site. The panels are 40m long and 20m tall, creating a presence on the horizon without obstructing views. Each panel is also illuminated with an LED light strip. When connected to each panel's individual meter, the light will illuminate up to the point of the energy produced. Visitors will be able to see how much energy each panel has produced for that month.

The main material in the HORIZON LINES project is the energy generator itself. This is BIPV glass, also known as Building Integrated Photovoltaic glass. It is a thin film system between two layers of glass and acts as a transparent solar panel to harvest the energy of the sun. Even though Santa Monica's climate allows for a large amount of sun exposure, the thin film BIPV panels work in as low as 10% light and work even at non-optimal tilt angles. The modules estimated for this project are manufactured by Onyx Solar® and are specified as thin film photovoltaic panels with a 30% transparency.

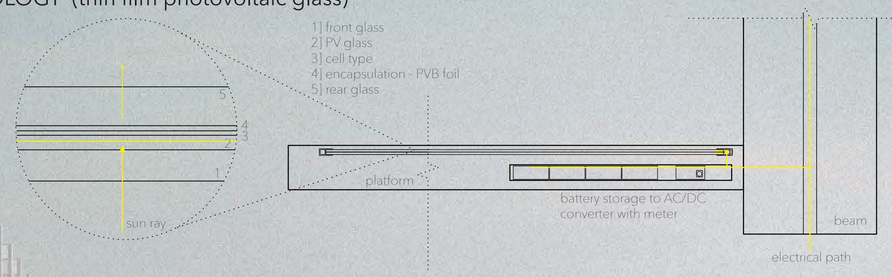


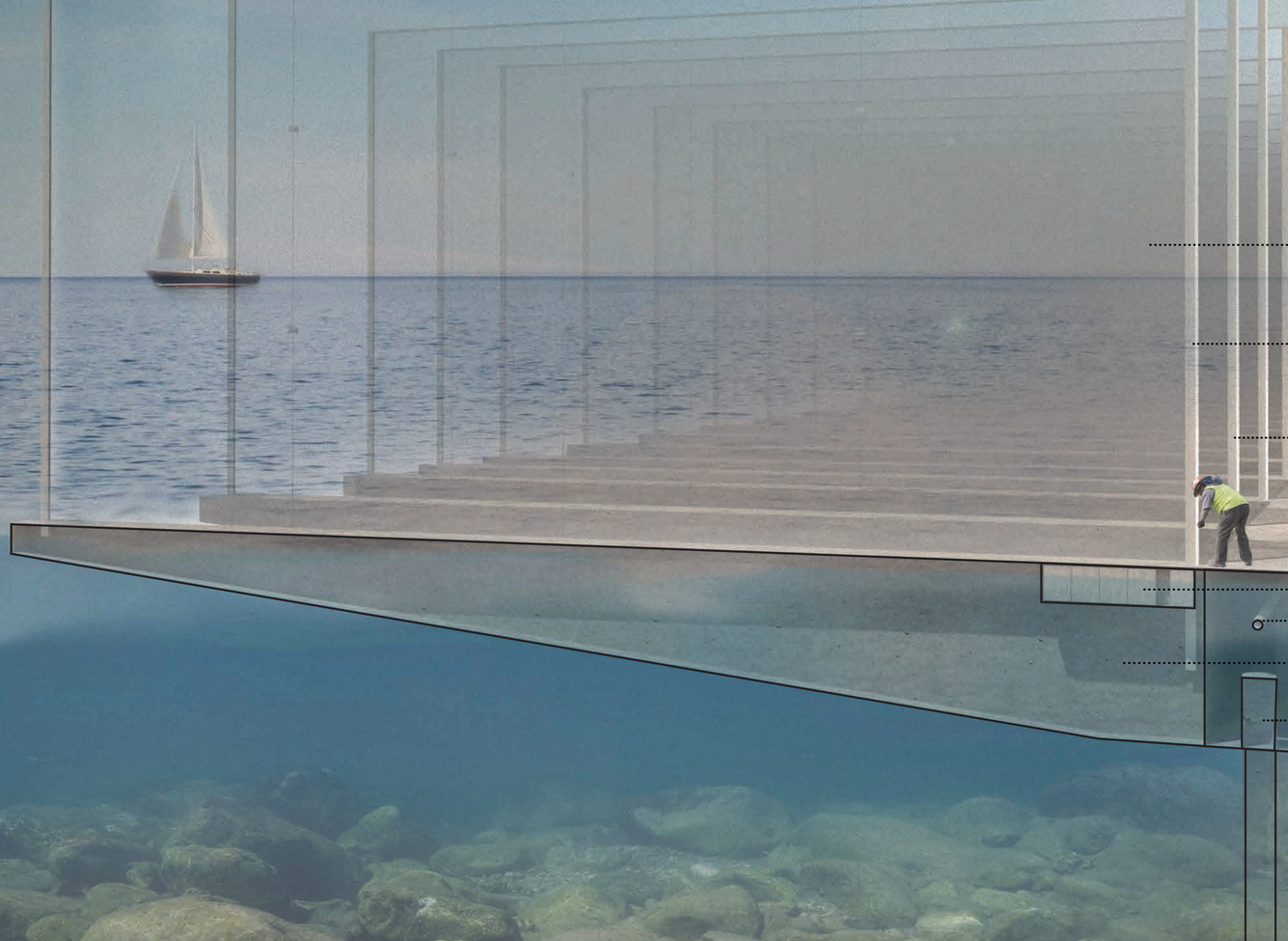
SUN PATH FOR SANTA MONICA PIER



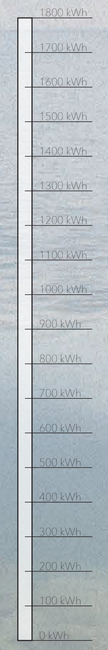
MONTHLY ENERGY PRODUCED (1panel)

TECHNOLOGY (thin film photovoltaic glass)





LED INDICATOR LIGHT



section cut