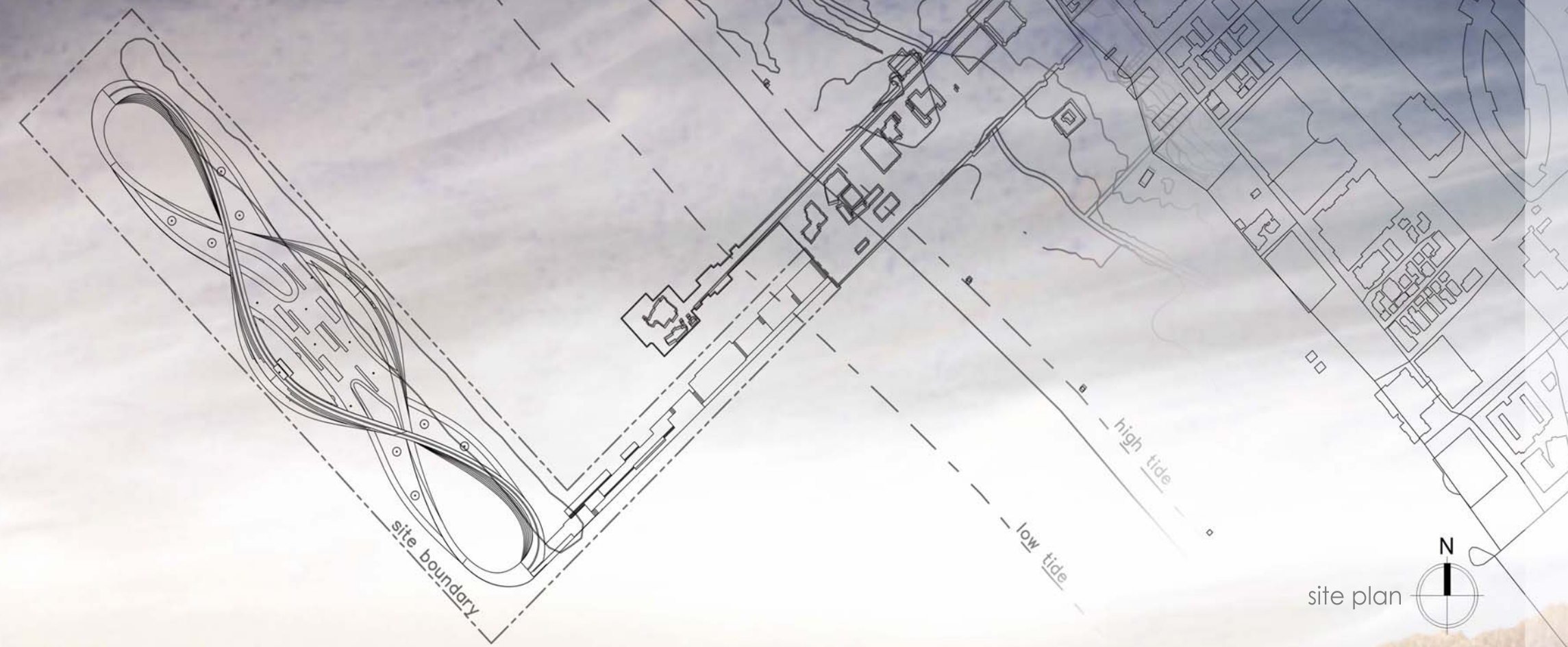


Wave energy harvesting strategy has shown great potential for an alternative renewable energy. Being a consistent source of energy, The Loop incorporates buoy technology for energy harvesting. The Loop offers a glimpse of what the technology is capable of and how it works. Wave energy harvesting is still in research and development phase, which would make this a low-cost investment as well as to test a finished prototype for the city of Santa Monica. The landscape design invites visitors, locals, runners, and cyclist to experience Santa Monica from a new perspective. Visual connection is established between the occupants and the technology. The buoys can be viewed at various locations of the site to provide a sense of contemplation while educating the public. Moreover, the water features within the site is a visual representation of how much energy is being produced by the waves.

the Loop

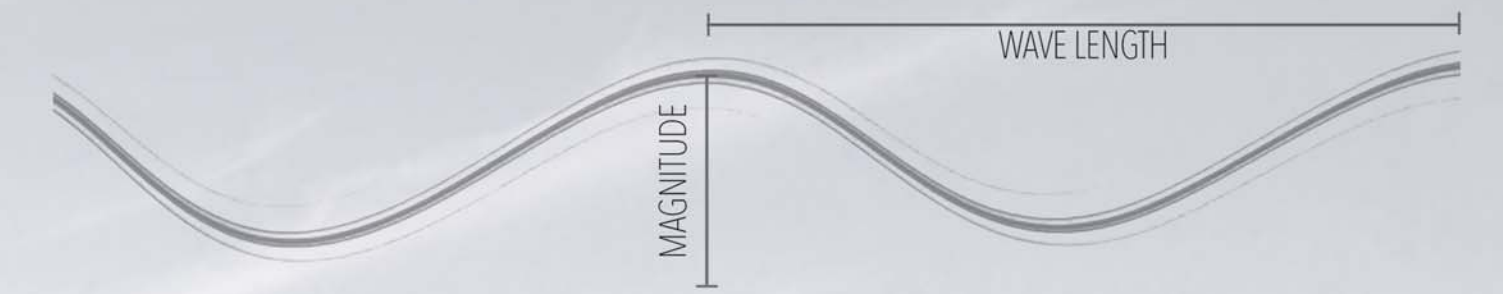


Santa Monica's Wave Energy Loop

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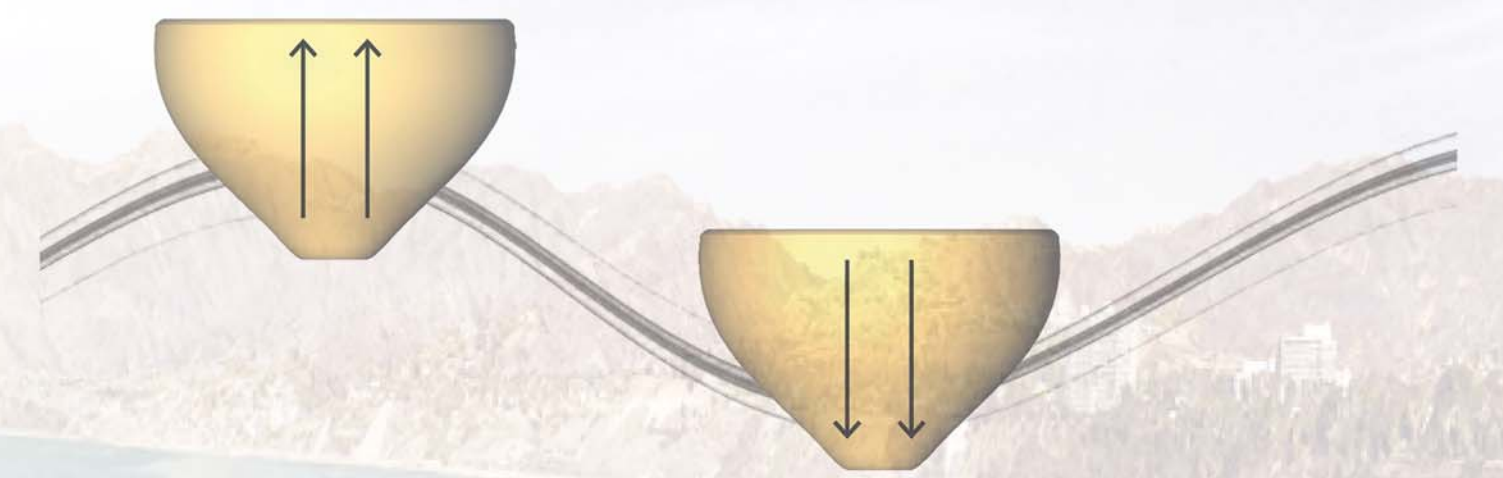
[motion]

Waves provide constant vertical motion which can be quantified by the magnitude of the wave.



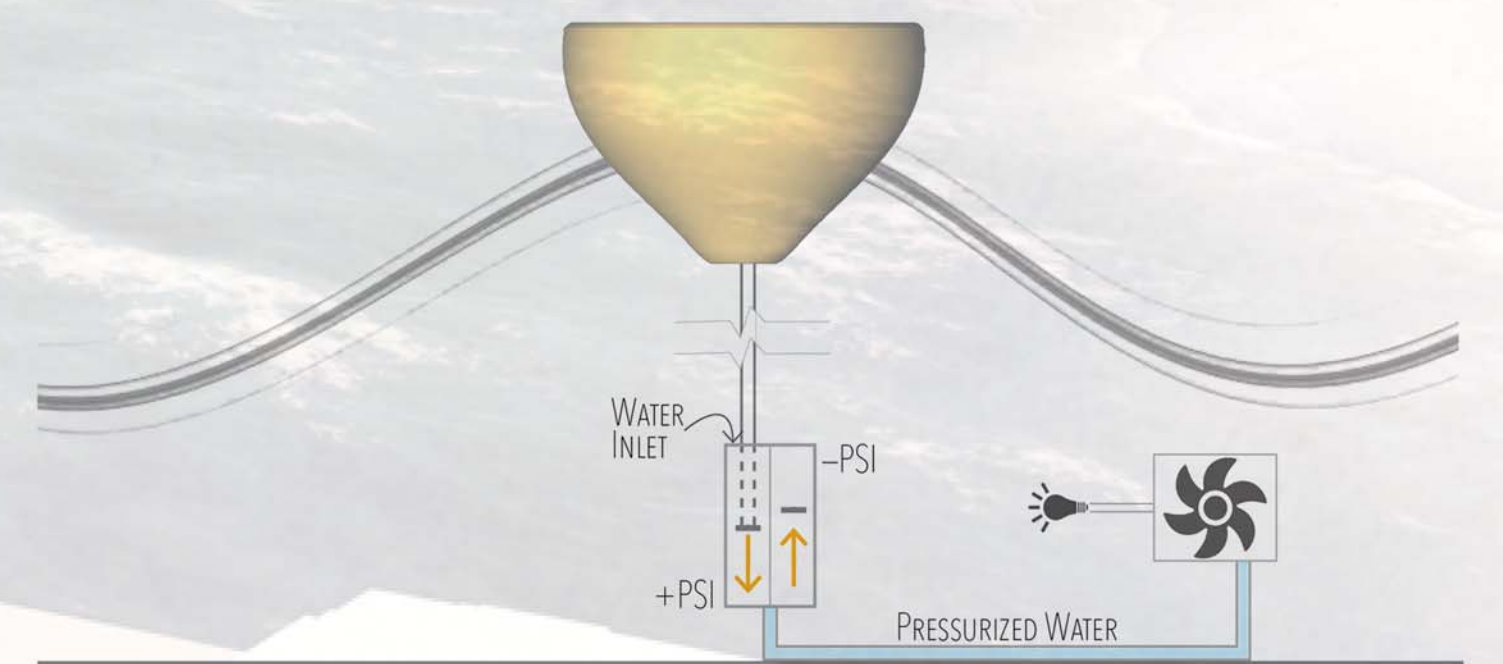
[energy]

The work being done by the waves translates into linear motion exerted on to the buoy.



[mechanics]

The linear motion is used to compress water using a piston to spin a generator and produce energy.



[interaction]

The water transfers upwards using the pressure provided by the buoy.

