

## Submission Summary Slide

### Phase 1 – Air Pressure Creation

My waves to water design will use mechanical floating legs that extend out from a large floating box. The mechanics of the legs are designed so that every time there is movement in any direction at one of the joints it will turn gears that transfer auxiliary energy back to the floating box. Ultimately with as many as 30 floating legs total in every direction coming off the box with several mechanical joints attached to hydraulic shocks, these will create air pressure into a storage tank inside the floating box.

### Phase 2 – Air pressure forcing water through filter

This air pressure tank will have a spring pressure regulated valve so that when it reaches 200PSI it will drain the tank through the supplied exit line. This exit line will be hooked up to a reverse osmosis filter. Upon releasing the stored air pressure, this will force the reservoir water supply through the reverse osmosis filter at a set rate that is compatible with that reverse osmosis setup. Upon leaving the reverse osmosis tank, it will be sent into the shore line hose.