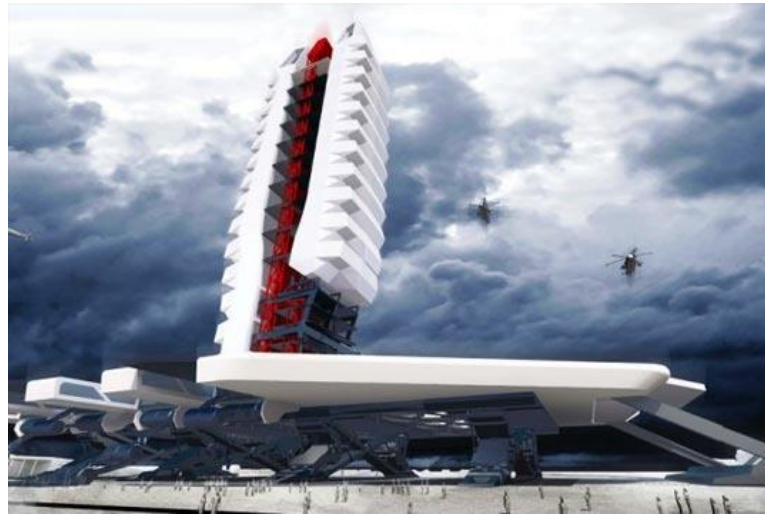


Case Study 7: Transient Response System



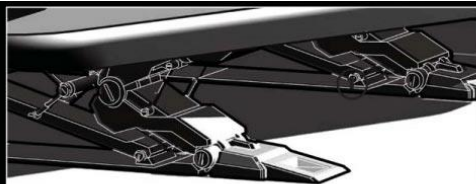
This futuristic and awe-inspiring shelter was designed by Adrian Ariosa and Doy Laufer at SCI-Arc in Los Angeles. It comes equipped with solar panels, wind turbines, and a rainwater catchment system to generate power and provide water. The MASTODON is a massive, all terrain, amphibious vehicle designed to bring the components of the rescue tower to the emergency site. The vehicle can also be used in flood rescues as it is equipped with multiple lifts. After a flood or earthquake, the MASTODON can provide robust emergency housing. The tower has four large jacks at its base that can lift it six stories above ground level, protecting its residents from any residual effects from flooding. The tower itself is comprised of three-story modules, and at the top of the structure, a solar power system and wind turbines collect energy to run the shelter.



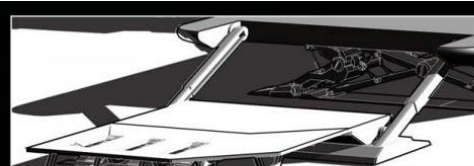
1
The MASTODON vehicle is an all terrain, amphibious vehicle designed to bring the components of the tower to the site. Along with the vehicles necessary to build the tower. The vehicle can also be used as a flood rescue vehicle, with one vehicle able to contain a few thousand people, it is also a workhouse and rescuer to the Jakarta people.



2
At the top of the tower there are two wind turbines and a solar powered generator providing energy to run the tower and the base. This is also the location of a rain water gathering system that collects rainfall and purifies it to provide running water for the residents of the tower.



3
Four mega jacks lift up the base of the tower, allowing it to exist six stories above the ground. They not only serve as a mechanism for deployment but also as a device for emergency situations. Openings in the base itself provide light under the base and in the spaces created by the four jack lifts.



4
There are a total of five lifts to bring the residents of Jakarta onto the base of the tower. The main lift in the front has a secondary dock that provides an immediate high ground for Jakartaans to escape the flood and/or wait for the lift to come back down. The secondary 4 other ramps can be used to bring people but is also primarily used to bring cargo and vehicles onto the tower base.

