

Timeline: Power-in-a-Box



2010 – *Power-in-a-Box project started*

- The idea behind Power-in-a-Box was inspired by the 2010 earthquake in Haiti. Princeton Professors and students wanted to find sustainable technologies to provide readily deployable electrical power generators in a disaster recovery scenario.



Spring 2012 – *Prototype won \$90,000 EPA Grant*

- By 2012, the team had built a rough prototype of Power-in-a-Box that embodied the portable, sustainable, hybrid system nature that the professors and students had drawn up at the projects inception. This model was brought to the EPA P3 National Sustainable Design Expo and won a \$90,000 grant to continue/further the work.



Spring 2013 – *Working model built*

- From here, with the grant, the team worked to work out the kinks/unfinished work with the prototype. The team bought a new container that was shipping approved, more solar panels were bought, the solar panel deployment system was built, and a new electrical system was installed.



Summer 2013 – *System field testing*

- After completing a fully functional model, the team deployed the system in order to test the systems power production/efficiency and functionality. This testing unveiled problems with the electrical system, sensors, and the tarp system.



2014/Present – *Solidified final design/fixed kinks*

- This year was spent cleaning up the system and fixing all of the problems discovered during testing. We re-did the entire electrical system, the solar panel deployment system, and tarp system. We now have fully functional system that works smoothly.



Future – *Increase power production*

- Now that we have a smoothly working system, we are designing a new model with a bigger turbine, trying to maximize power output

while maintaining the power system's hybrid nature, sustainability, portability, and ease of use.