



ESW BIOFUELS

Newsletter Fall 2016



Engineers for a Sustainable World



Develop Promote Innovate Cooperate

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ESW Biofuels

New Members

This semester, ESW Biofuels welcomed 5 new members to the team! The new members acclimated to the team with ease.

ESW Apple Social, Project Symposium

Through the Apple Social and the Symposium, ESW Biofuels got the chance to meet and socialize with other ESW members on different teams, a great experience for all. It was not all fun and games though; the team as a whole continued to work on the goal of rendering the concept of biofuels more accessible throughout the semester.





Research & Development

Renewable Energy Demonstrations

The Research and Development team worked together with the Business and Outreach team on a demo that can be used during the educational presentations. Despite some setbacks, they have successfully built a wind turbine and a wave machine that will be able to produce power. The power will be used to light up LED light bulbs and ammeters to demonstrate the basic concepts of how engineers can use natural phenomenon to generate electricity.

Heat Pumps

Now they will move on to another topic of interest: heat pumps.





Bioenergy Implementation

Renewable Energy Demonstrations

The Bioenergy Implementation team is trying to work with the Ithaca Area Wastewater Treatment Facility. They drafted proposals that could aid the facility in cleaning resulting biogas. By cleaning the biogas, people will be able to use the gas to process electricity and power. Moreover, they also worked with the TCAT buses, trying to see if biological compressed natural gas would be a feasible replacement for fuel.

Geothermal Energy at Cornell

The team now looks to work on geothermal energy, and how it can be implemented on Cornell Campus.





Business & Outreach

Educational Presentations & Social Outreach

The Business and Outreach team has worked on the finishing touches of the presentations. Currently, the team has reserved time to present in local schools. Moreover, to accentuate the “outreach” part of business and outreach, the team decided to start updating the Biofuels website and Facebook page.

FOG Collection Station

Most importantly, the business team finally got to meet with the Tompkins County Solid Waste Recycling Center and discussed the impact of the FOG cones and collection stations.

