

# Summary of Hodgdon Hall Solar Panel Project

June – August 2018 Report

## Individuals Involved:

- Ryan Biette, Undergraduate Student & Tufts Energy Group member
- Shelley Kwok, Undergraduate Student & Tufts Energy Group member
- Chris Robinson, SunBug Solar
- Ray Santangelo, Tufts Construction Manager
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**Mission:** Renewable energy is discussed in many courses at Tufts, however it is done so in the abstract. This project, spearheaded by the Tufts Energy Group, seeks to provide a real life educational experience to the campus community to learn about and use renewable energy in an accessible fashion.

## Accomplishments:

- Installed solar panels on the side of Hodgdon Hall in a visible location
- Energy used to electrify outlets inside the Hodgdon Hall common room and the lower patio
- Signage designed and installed near the solar panels to educate the community about how the solar panels operate.

**SOLAR Charging Station**

Another project funded by the:  
**Tufts University GREEN FUND**

**Acknowledgments:**  
FACILITIES: Ray Santangelo, Betsy Isenstein  
SUNBUG SOLAR: Brandon Taylor, Christopher Robinson  
TUFTS ENERGY GROUP: Ryan Biette, Shelley Kwok, James Liu, Lily Buechler  
OFFICE OF SUSTAINABILITY: Tina Woolston  
ADMINISTRATION: Barb Stein

Supporting a university-wide commitment  
**sustainability**

**Tufts UNIVERSITY**

**FROM THE SUN TO YOUR CELL PHONE.**  
How Hodgdon's solar charging station works

**8 Solar Panels**  
Collect energy from the sun and produce 2700 kWh per year

**Charge Controller**  
Regulates the electricity transfer from panels to battery bank.

**Battery Bank**  
Saves power for future use. 6 kWh battery capacity –enough to charge 1000 phones!

**Inverter**  
Converts DC electricity to AC, which is suitable for powering computers, appliances, etc.

**AC Power to outlets**  
Charge up with clean, renewable energy!

**Tufts Solar Charging Station Project Timeline**

**Spring 2014:**  
SunBug Solar installs panels on Dowling and offers a 10k grant for a student project

**Fall 2016:**  
Tufts Energy Group (TEG) begins working on a project proposal for solar panels at Hodgdon

**Fall 2017:**  
TEG presents the project plan and gets approval from Tufts Administration

**Spring 2018:**  
TEG gets additional funding from the Tufts Green Fund

**Winter 2018:**  
Solar panels installed on Hodgdon's facade