

Energy and Emissions

1. Solar Flowers

- Description: Installing portable “SmartFlower Solar” devices could produce solar energy for buildings and reduce greenhouse gas emissions.
- Helpful Links: <http://smartflowersolar.com/>
- Contact Information/References: Rich Heller, Senior Electrical Engineer, Facilities

Management Division, rjh16@pitt.edu

2. Electric Stoves

- Description: This project would involve replacing gas-fired stoves in certain residence halls with electric ones. Switching to electric stoves would reduce greenhouse gas emissions.
- Helpful Links: N/A
- Contact Information/References: Matthew Walaan, Business and Personnel Manager,

Department of Housing, mgw20@pitt.edu

3. Escalator Automation

- Description: This project involves the installation of buttons/sensors to existing escalators on campus (Petersen Events Center/Posvar) to reduce energy usage by having the escalators at rest when no one is going up or down them.
- Helpful Links: <https://www.nap.edu/catalog/22243/airport-escalators-and-moving-walkways-cost-savings-and-energy-reduction-technologies>
- Contact Information/References: Facilities Management

4. Energy-Producing Exercise Equipment

- Description: Installation of exercise equipment in campus gyms that produces energy through kinetic motion (rowing machines, stationary bikes, stair masters) to increase production of clean energy
- Helpful Links: <http://www.thegreenmicrogym.com/electricity-generating-equipment-2/>
- Contact Information/References: Facilities Management

5. Vertical Axis Wind Turbines

- Where on campus might be good to raise awareness about local wind resources, while generating electricity?
- Local manufacturer: <http://windstax.com/>

- Contact Information/References: Rich Heller (rjh16@pitt.edu), Aurora Sharrard (Asharrard@pitt.edu)