

Midterm Requirements:

Presentation

A successful presentation will:

- Provide background information on:
 - Your problem
 - Your solution
- Provide technical details of your solution
 - hardware
 - software (if applicable)
- Provide a detailed, numerical energy analysis of your device, including
 - The input/storage/output graph discussed in class
 - Power source in watts
 - Conversion methodology and estimate of efficiency
 - Energy in joules per functional use (if applicable)
 - Stored energy in joules if appropriate

Prototype

A successful prototype:

- Uses the kinetic or solar concepts presented in class.
- Must run only on energy provided by the user and/or the ambient environment (no primary batteries, no plugs, no fuel).
- Is not a battery charger - what are the batteries for?
- Can be inexpensive and/or simple but should serve as a compelling proof of your larger concept.
- Will function in the demo on the first try!

Extra credit: Convince the class that your device can save the world