



# GREEN GUARDIAN

**Ultimate Goal: To Effect Culture & Policy Change for a Greener Coast Guard**

**Project Overview:** Every Coast Guard officer and senior enlisted member filters through the Coast Guard Academy for training with the Leadership Development Center, Institute for Leadership, or commissioning programs. Green Guardian has a three-pronged approach towards improving sustainability in the Coast Guard using visible examples at CGA:

- 1) Place a solar array on the roof of McAllister Hall
- 2) Install a wind turbine onboard the Academy
- 3) Promote a sustainable curriculum

## Solar Initiatives

- Install 6KW solar panels on top of McAllister Hall
- Directly tie array into existing electrical grid system
- Create modular frames that are collapsible, stackable, and economical.



Prototype of solar panel and frame



## Sustainable Curriculum

- Add a green/sustainability curriculum component to every leadership program (Swab Summer, OCS, PCO/PXO school, Corps of Cadets)
- Measure cadets' perception of sustainability at CGA via survey
- Lead Cadet Corps to become a self-perpetuating culture founded on sustainability

## Wind Initiatives

- Install 5-10kw wind turbine system on CGA campus
- Install wind data collection system on a lower field track light pole
- Collect wind data for a year



Lower track light pole that wind data collection system is installed upon

## Timeline

- Nov 9-11: Attend Innovation Expo in Tampa, FL
- Feb 15-18: DC trip to Senate, Lockheed Martin, & CG Headquarters with ADM Loy
- Mar 15: Send out Cadet Sustainability Survey
- April 5: Construct & install solar panel materials
- April 19: Site visit for wind data collection system
- April 21: Install wind data collection system

## CG Culture & Policy Change

- Create "Champions" of Sustainable Leadership
- Monitor energy consumption across all CG Units
- Promote Healthy Competition among CG Units

## Future Green Guardians

- Implement sustainability curriculum within leadership programs at CGA
- Install 10 KW wind turbine on campus
- Duplicate and install more solar panels on base facilities
- Raise awareness about importance of sustainability

## Budget

\$10,000 from CG-43

Washington D.C. visit  
Solar & Wind Equipment

**YOU, as a Green Guardian, can help by recycling, turning off lights, and spreading the word!**

