

4. Sustainability

4.1 Current Status

The Chesapeake Biological Laboratory continues to implement practices that enhance the environmental sustainability of operations at CBL and is seriously committed to the reduction of greenhouse emissions and its overall climate footprint. CBL has been an important part of the overall UMCES sustainability efforts and a significant contributor to the Climate Action Plan greenhouse gas reduction efforts.

The following are current initiatives and CBL's future sustainability goals and actions in relation to Capital Project and Facility Renewal Project planning.

4.2 Sustainable Approach

With continued monitoring of emissions, CBL's goal is to keep emissions on a downward slope as reflected in FY10. This will require continued close monitoring and better maintenance of equipment to gain as much energy efficiency as possible from existing equipment, replacement of non-energy efficient equipment, and continuation of recycling and conservation efforts already in place. In addition CBL will need to set aggressive energy efficiency targets for any new construction, equipment or systems being implemented in the next 10 years. In addition to setting high goals for LEED certification levels, (Silver certification should be a minimum, with Gold being the target), separate targets should be set for energy efficiency, (minimum of 35% savings over a similar code compliant building). The density of the CBL campus together with the upcoming Truitt Replacement Lab Project presents opportunities to implement larger and much more efficient campus-wide or precinct systems for utilities like chilled water. These kinds of systems combined with more sophisticated controls can yield significant savings in overall energy efficiency.

Focus on Water Conservation and Quality

Issues related to water quality and water security, which are an integral part of research at CBL, also play an important role which may have little direct affect on carbon emissions and energy use. Water use within the facility and on the site along with associated issues related to storm water runoff should be focused upon with a goal of implementing best practices in these areas.



1. Raingarden by Solomons House