Water
Current Targets

Reduce potable water usage and its associated emissions from a fiscal year 2008 baseline:

• 20 percent by 2015
• 30 percent by 2020
• 40 percent by 2025.

Current targets are meaningful and feasible.
Revised Targets

Targets should not only address campus as a whole, but also for its constituent parts. The following should be added to existing targets.

- Normalized levels of 20,000 gallons per weighted campus user in 2020 and 16,500 gallons per weighted campus user by 2025.

- Normalized levels of 46 gallons per total buildings sq. ft) by 2020 and 39 gallons per sq. ft. in 2025.

- Increase storm water capture by 25% by 2020, of which 50% will be re-used on campus and 50% will contribute to infiltration and recharge.
Current Strategies

• Commission an internal, student-assisted study to determine a detailed water use baseline, the "true cost of water," and the related emissions.

• Include "true cost of water" charges with the energy billing program.

• Begin utilizing non-potable water, including untreated raw water, sump pump discharge, cooling wastewater, stormwater and graywater.

• Connect the raw water system by 2020.

Current iCAP strategies are signals for more comprehensive water use measures.
Revised Strategies

Strategies for the long term:

• Undertake a bottoms-up approach to estimate consumption by end-use using best practices to determine reductions achievable by water conservation alone.

• Plan for water reuse to be a major strategy for reducing campus fresh water demand in the present and beyond 2025

• Integrate the physical and natural elements of campus topography to reduce water demand on campus and facilitate reuse
Revised Strategies

Strategies for the **short term**:

*Data collection and Monitoring*

- Make available water quantity and quality data on a publicly accessible site to encourage transparency, instructional use, and campus-wide participation in conservation activities. The site interface may be most effective if modeled after the energy dashboard and could be used in tandem with the energy dashboard.

- Establish/publicize anticipatory yearly goals for achieving water reduction
Revised Strategies

Strategies for the **short term**:  

*Utility and Building Operations*

- Begin utilizing non-potable water, including untreated raw water, sump pump discharge, cooling wastewater, storm water and gray water.

- Require a review of the water impact of all new construction, modifications, or expansion across all campus units including auxiliaries.

- Implement recommendations in the SSC sponsored project on water conservation in cooling tower operations.
Revised Strategies

Strategies for the short term:

*Landscape Design*

- Take inventory of current landscape performance relative to existing pavement and landscape surfaces and features, against the long-term transition toward a water-positive campus environment.

- Calculate the true cost/benefit of the traditional versus sustainable campus landscape maintenance and operations.
Revised Strategies

Strategies for the short term:

*Landscape Design Cont.*

- Integrate rainwater capture strategies with other physical campus commitments and objectives such as carbon sequestration.

- Utilize the Sustainable Sites Initiative (SITES) as a rating systems for all projects on campus, to promote education and assist coordination in developing high-performing sustainable landscape practices.

- Maintain that the campus landscape preserves regional identity by avoiding “off-the-shelf” materials in favor of regionally specific ones.
Revised Strategies

Strategies for the short term:

**Education**

- Partner with campus units such as PRI and outside agencies such as Alliance for Water Efficiency, WateReuse Foundation, AWWA etc to promote water conservation efforts.

- Provide classroom opportunities to develop water use reduction projects on campus.

- Require orientation for sustainable water use in dormitories, potentially alongside implementation of more water efficient installations.
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