



## FACT SHEET: WATER CONSERVATION - PLANNING AND PROGRAMS



### SUSTAINABILITY OPPORTUNITY

Stanford practices sustainable water use by managing available resources to meet university needs while preserving ecological systems and maintaining this vital resource for future generations. Key goals are to continuously improve our successful water efficiency and conservation program, develop new strategies to maximize use of surface runoff, preserve high quality treated domestic water for critical campus uses, and protect water-dependent habitat.

### TOP INITIATIVES & RESULTS

#### Water Planning and Management

- In 2009, Stanford received the Silicon Valley Water Conservation Award.
- Stanford is one of 26 members of the Bay Area Water Supply and Conservation Agency. In 2007, Stanford became the first university to join the California Urban Water Conservation Council which offers an opportunity to work with experts in innovative technologies and processes.
- Stanford is developing a Sustainable Water Management Plan to guide our long-term water supply development, water conservation, wastewater and storm-water management, and habitat conservation programs.
- The university is collaborating with regional water agencies to identify opportunities and potential for implementation of efficiency and conservation measures to stretch existing supplies and to ensure a reliable water supply for the future.
- The university completed dozens of water efficiency retrofit projects from 2001 through 2011, pushing down average domestic use from 2.7 mgd in 2000-01 to 2.12 mgd in 2010-11, despite campus growth.

#### Water Conservation Program

Stanford's Water Conservation Program is one of the most aggressive in the Bay Area. It encompasses 25 measures that, along with new projects, have decreased domestic water use 21% from 2.7 million gallons daily (mgd) in 2000-01 to 2.12 mgd in 2010-11. Implementing all measures is expected to save more than 0.6 mgd at an estimated cost of \$5.7 million. Measures include:

- Water-saving devices on 62 campus sterilizers
- Replacing all once-through cooling for equipment with re-circulating systems
- Replacing nearly 10,000 academic and student housing bathroom fixtures with water-efficient ones
- Reuse of the Central Energy Facility cooling tower wastewater for toilet/urinal flushing
- Replacing all campus pre-rinse nozzles to low-flow models
- Irrigating 85 percent of the campus with nonpotable lake water
- A demonstration program to test new water-efficient technologies

#### MORE INFORMATION

##### WATER CONSERVATION

[http://lbre.stanford.edu/sem/water\\_conservation](http://lbre.stanford.edu/sem/water_conservation)

##### CONTACTS

Water Resources and Environmental Quality: Marty Laporte, Associate Director 650.723.7864, [martyl@bonair.stanford.edu](mailto:martyl@bonair.stanford.edu)  
Sustainability Programs: Fahmida Ahmed, Associate Director 650.721.1518, [fahmida@stanford.edu](mailto:fahmida@stanford.edu)

