



NATIONAL ENERGY TECHNOLOGY LABORATORY



DOE 2012 Sustainability Awards Water Resources



National Energy Technology Laboratory

MISSION

*Advancing energy options
to fuel our economy,
strengthen our security, and
improve our environment*



Oregon



Pennsylvania



West Virginia

Commitment – Key to Success

- **NETL senior management made a strong commitment to meet or exceed all mandated sustainability goals**
- **NETL assessed water-usage processes, prioritized water-saving opportunities, and developed and implemented reduction strategies**

Water-Reduction Strategies Implemented



- Replaced R&D once-through cooling systems with new, high-efficiency re-circulating cooling systems
- Reduced or eliminated R&D process water requirements
- Implemented an employee participation program to reduce water usage in laboratory processes
- Installed harvesting systems to reuse rain water for non-potable restroom usage
- Installed low-flow restroom fixtures

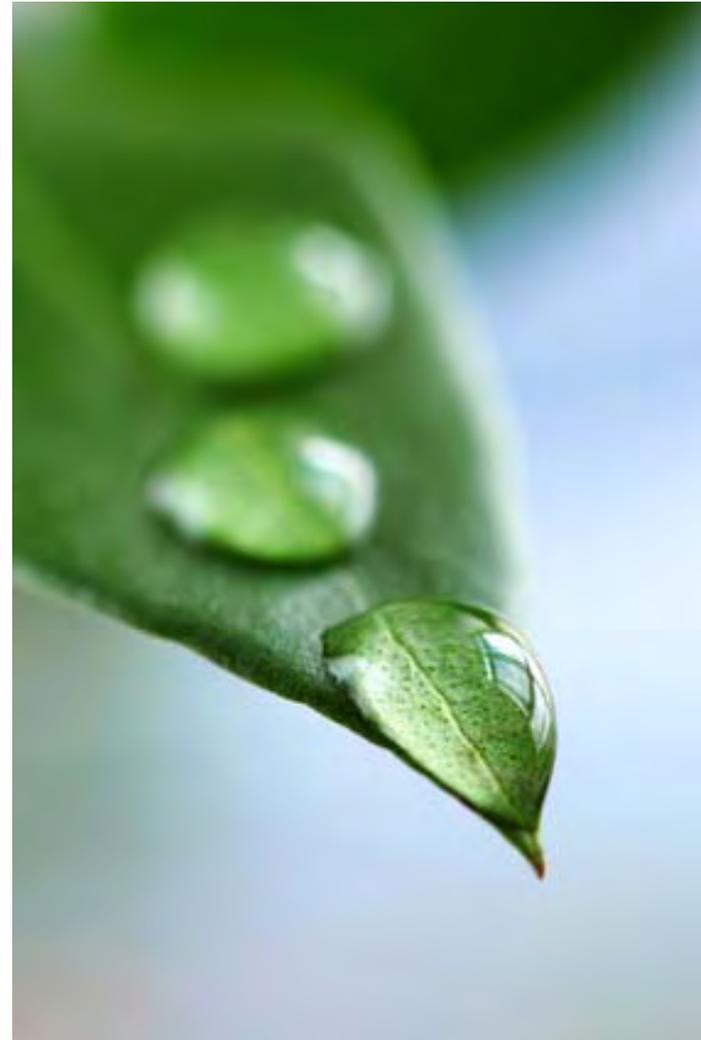
Fiscal Year 2011 Results

- Surpassed the FY 2020 EO 13513 goal by 16%
- Saved over 10 million gallons of water and \$28,000



Water-Reduction Strategies Planned

- **Eliminate steam boilers and water-conditioning systems; replace with satellite hot water boilers**
- **Install new water-saving technologies at waste water treatment facility to improve filtration process**
- **Utilize gray water from treatment facility for non-potable restroom usage**



NETL Water Intensity Actual vs. Goal

