



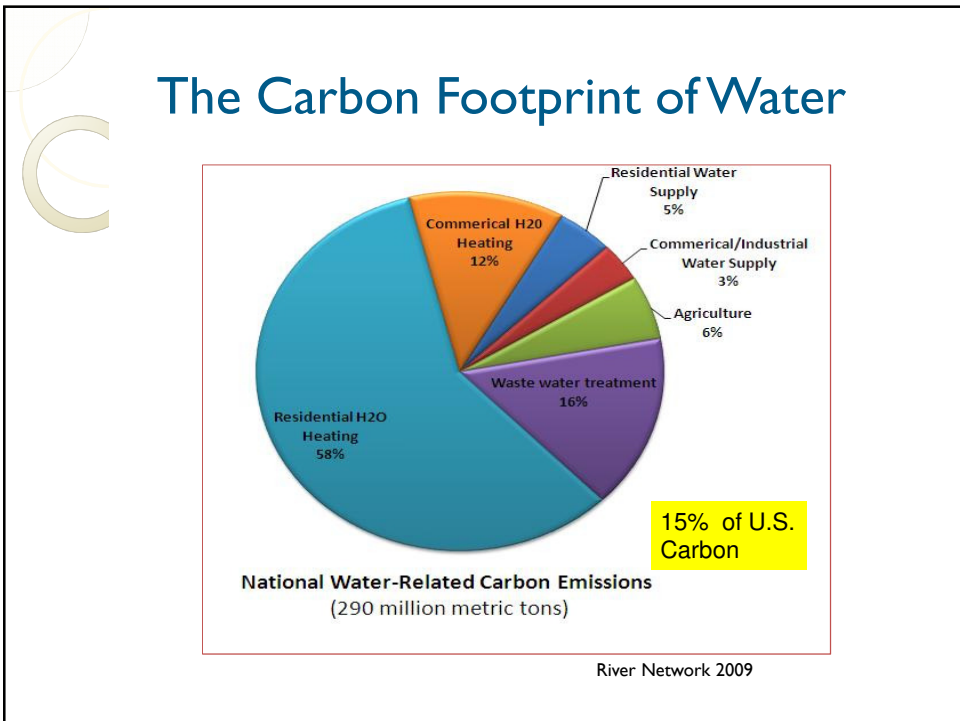
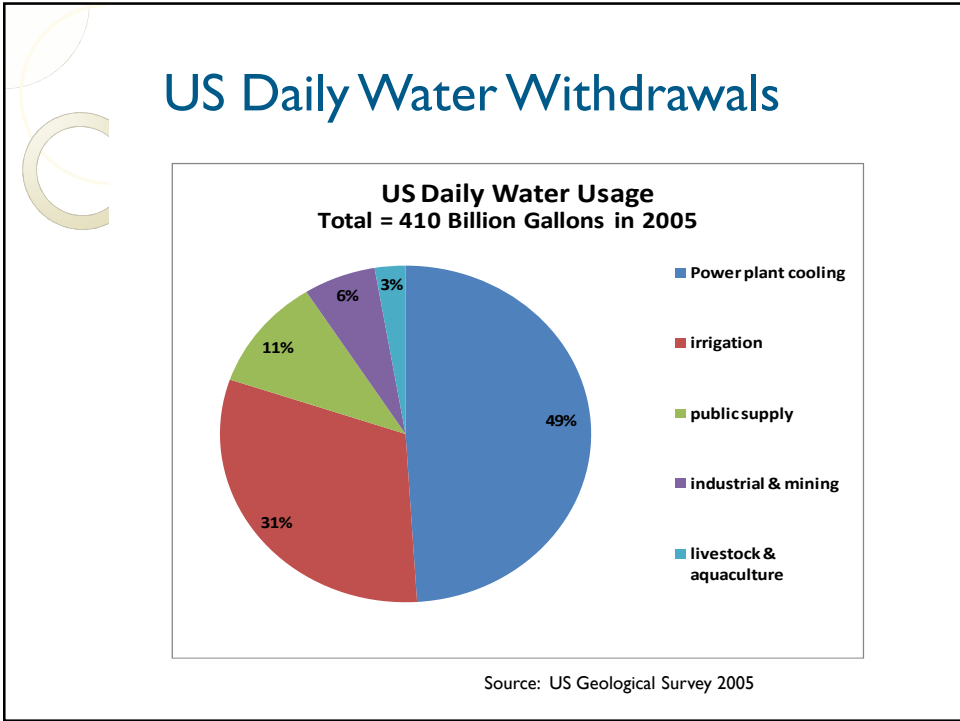
Mary Ann Dickinson, President and CEO
Alliance for Water Efficiency

Atlantic Council Workshop on Energy and Water Efficiency
June 19, 2012

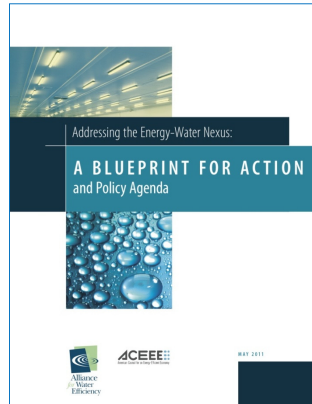
WATER-ENERGY NEXUS: PRESENT EFFORTS & ISSUES

Water and Energy are linked





The Project



- Joint effort of AWE and ACEEE.
- Supported by funding from the Turner Foundation.
- Purpose: to identify the major research, program, and policy needs of the water-energy nexus for decision-makers and funders.
- Establish the beginning of a national long term energy-water community.

<http://www.allianceforwaterefficiency.org/blueprint.aspx>


December 9, 2010 Workshop

- Over 75 organizations in the water/energy communities invited.
- 54 individuals from 41 diverse organizations attended workshop.
- 8 Main Themes with recommendations.
- 5 Priority areas for immediate action.





ACEEE
American Council for an Energy-Efficient Economy


**Alliance
for Water
Efficiency**



8 Themes of Recommendations



1. Increase the level of collaboration between the water and energy communities in planning and implementing programs.
2. Achieve a deeper understanding of the energy embedded in water and the water embedded in energy.
3. Learn from and replicate best practice integrated energy-water efficiency programs.
4. Integrate water into energy research efforts and vice versa.



8 Themes of Recommendations

5. Separate water utility revenues from unit sales, and consider regulatory structures that provide an incentive for investing in end-use water and energy efficiency.
6. Leverage existing and upcoming voluntary standards that address the energy-water nexus.
7. Implement codes and mandatory standards that address the energy-water nexus.
8. Pursue education and awareness opportunities for various audiences and stakeholders.



The Policy Agenda


- Implementing the preceding recommendations will require intense collaboration among stakeholders and advocates.
- Also will require government engagement and leadership.
- Blueprint contains 9 needed policy directions for the national, state, and local levels.



Nine Policy Needs



1. Regulatory structures and incentives that reward water and energy efficiency.
2. DOE Appliance and Equipment Standards for water-using appliances and equipment.
3. Building Codes that recognize water and energy efficiency.
4. Specific energy-water elements to add to existing legislation.
5. Tax incentives for water and energy efficiency.






Nine Policy Needs



6. Collection of water and energy end-use data by federal agencies.
7. Better communication between regulatory and governance bodies.
8. Collaboration among federal, state, and local agencies in integrating water and energy in grant funding research, regulation, and technical assistance.
9. Coordination in new power plant siting or significant expansion of existing plants.



Moving Forward: 5 Key Priorities

1. Develop baseline of total energy use by water & wastewater utilities and water use by electric utilities.
2. Incorporate cost-effective energy/water measures into building codes, equipment standards, and tax credits.
3. Survey existing programs for best practices.
4. Prepare a report for local and state policymakers addressing the rate-related barriers and pricing disincentives for efficiency in water.
5. Establish ongoing water and energy workgroups.

2012 Joint Working Groups

1. Codes, standards and tax incentives.
2. Water utility disincentives and ways to address them.
3. Joint energy and water-saving programs.
4. Research on energy-use connected to water and water use connected to energy.



Getting National Attention

- Water/Energy Connection is still largely driven by energy efficiency policy at the national level.
- How do we get decision-makers in Congress and in State Legislatures to expand their focus?.
- How do we get the research money we need?
- S 1343: Energy-Water Integration Act of 2011 introduced on July 11, 2011 (Senator Bingaman of NM).
- HR 5827: Energy and Water Research Integration Act of 2012 introduced on May 18, 2012 (Rep. John of TX).



What Is Being Proposed?

- Water and energy efficiency studies, research priorities and assessments on water-related energy consumption.
- Strategic Plan examining energy-water issues.
- Energy-water resource and development roadmap.
- Energy-Water Architecture Council composed of relevant federal agencies.



National Outlook for 2012

- S 1343 or HR 5827 (or any other energy/water bill) not likely to pass in this Congress.
- Rogue amendments in this Congress need to be followed (e.g. Ban on DOE showerhead enforcement).
- Energy efficiency programs (like the proposed Home Star program or the Homes Act) should include measures for water efficiency along with energy efficiency.
- Consumers need to be educated.



homewaterworks
A project of the Alliance for Water Efficiency

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HOW MUCH WATER DO YOU REALLY USE?

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Explore Your Water Usage With Our Water Calculator

How much water do I use? How do I compare? Estimate daily and annual water use with the Water Calculator.

Answer a few simple questions and the Water Calculator does the rest. It's quick and easy. Once you have an estimate of your water usage, the calculator can help you identify ways to conserve water based on your usage.

How much water do you use?

Blog

- Happy Friday! We end this week with an inspiring image shot at Yellowstone Park.
- Cool picture we made with Frametastic
- Bravo to those who made the top green U.S. cities list! Are you on the list?

[More](#)

Does Your Landscape Have a Drinking Problem?

Read about [outdoor water conservation](#) for helpful information on how to keep your landscape looking beautiful while staying water efficient.

Quick & Easy Tips For Saving Water at Home and Work

Looking for quick and easy ways to save water? Read our [water conservation and saving tips](#) to see how easy it can be to conserve water at home and in the workplace!

How much water do you use?

Let's Get Started!
Click an area on the home to input how much water you use, and learn how you can conserve water there. Answer for yourself only, and assume you are in your home for a 24-hour cycle.

My Daily Usage
Roll over for results

Carbon Footprint:
(lbs. CO2 / year)

Percent Complete

Areas to Complete
Roll over for number of questions



Alliance for Water Efficiency
Promoting the Efficient and Sustainable Use of Water

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Next Step on the Showerhead Budget Amendment

AWE alerted you last week that the House passed an amendment to the Energy Appropriations Bill to prohibit the Department of Energy from enforcing national showerhead flow standards. [Learn more here.](#)

AWE Releases State Scorecard

The Alliance for Water Efficiency and the Environmental Law Institute have released a draft of the report, The Water Efficiency and Conservation State Scorecard: An Assessment of Laws and Policies. The report represents a research effort that identified and graded state level water efficiency and conservation policies and laws throughout the 50 states. [Learn more here.](#)

Water Related Legislation Introduced by Rep. Johnson

Legislation to require \$300 million in new federal research into the energy-water nexus and to create a new White House initiative on water policy has been introduced in the House by Rep. Eddie Bernice Johnson, D-TX. [Learn more here.](#)

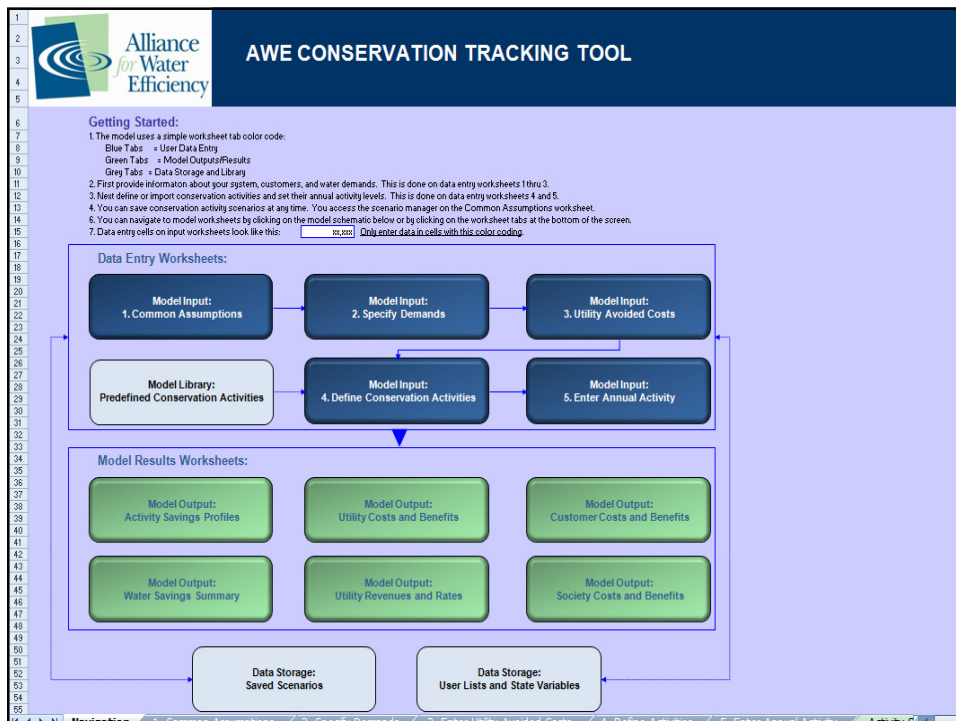
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Calendar of Events

- 6/19/2012 Atlantic Council Energy-Water Nexus and Saving Energy Workshop
- 6/21/2012 Brazos Valley Conservation Symposium: The Business Case for Water Conservation
- 9/16/2012 IWA World Water Congress & Exhibition
- 10/2/2012 AWE WaterSense & Water-Efficient Products Committee Meeting
- 10/2/2012 AWE Water Efficiency Research Committee Meeting

Latest Information

- Water Efficiency Watch Newsletter June 2012
- JOBS BOARD
- AWE Water Conservation Tracking Tool
- ISAWWA Water Utility Survey Report March 2012
- FedCenter.gov Announces New Water Efficiency Program Area
- USGS Report - Estimated Use of Water in the U.S. in 2005
- Executive Order Sets Water Efficiency Goal for Federal Agencies
- Water Use Efficiency Guide for New Businesses



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AWE CONSERVATION TRACKING TOOL

Getting Started:

- The model uses a simple worksheet tab color code:
Blue Tabs = User Data Entry
Green Tabs = Model Outputs/Results
Grey Tabs = Data Storage and Library
- First provide information about your system, customers, and water demands. This is done on data entry worksheets 1 thru 3.
- Next define or import conservation activities and set their annual activity levels. This is done on data entry worksheets 4 and 5.
- You can save conservation activity scenarios at any time. You access the scenario manager on the Common Assumptions worksheet.
- You can navigate to model worksheets by clicking on the model schematic below or by clicking on the worksheet tabs at the bottom of the screen.
- Data entry cells on input worksheets look like this: . Only enter data in cells with that color coding.

Data Entry Worksheets:

- Model Input: 1. Common Assumptions
- Model Input: 2. Specify Demands
- Model Input: 3. Utility Avoided Costs
- Model Library: Predefined Conservation Activities
- Model Input: 4. Define Conservation Activities
- Model Input: 5. Enter Annual Activity

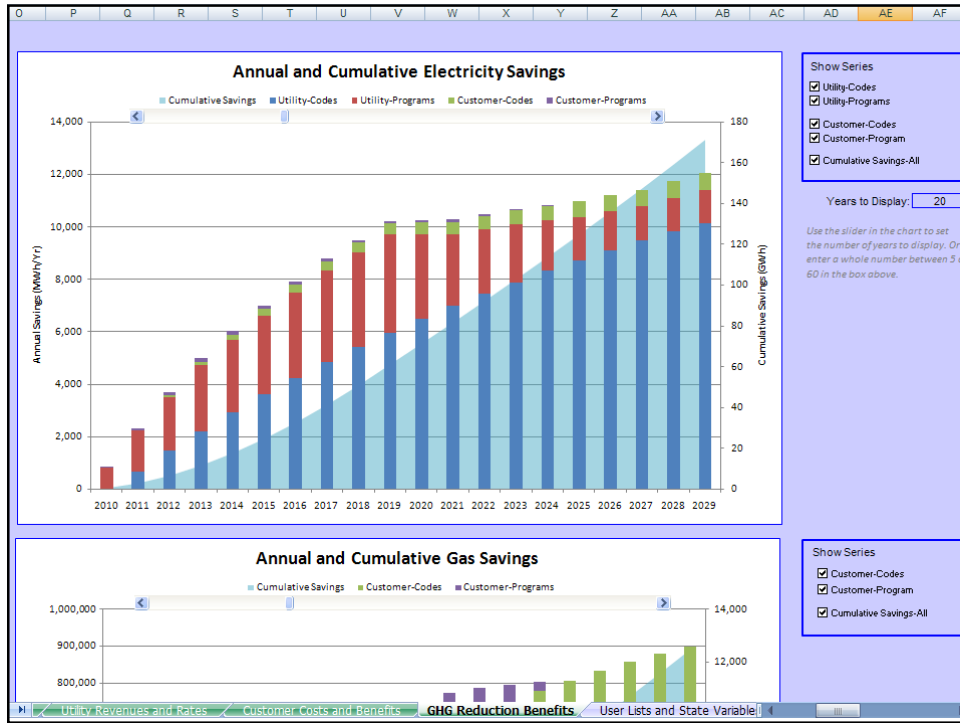
Model Results Worksheets:

- Model Output: Activity Savings Profiles
- Model Output: Utility Costs and Benefits
- Model Output: Customer Costs and Benefits
- Model Output: Water Savings Summary
- Model Output: Utility Revenues and Rates
- Model Output: Society Costs and Benefits

Data Storage:

- Saved Scenarios
- User Lists and State Variables

Navigation: Common Assumptions | Specify Demands | Define Conservation Activities | Utility Avoided Costs | Enter Annual Activity | Activity S...



Alliance for Water Efficiency

A VOICE AND A PLATFORM PROMOTING THE EFFICIENT AND SUSTAINABLE USE OF WATER

www.a4we.org
 (773) 360-5100
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