DEACS Resource and Energy Efficiency Section



- Provides consulting services to businesses and institutions to identify cost-savings through
 - Water efficiency audits
 - Energy efficiency assessments
 - Solid waste reduction measures
 - Lean and Green reviews
- Staff highly experienced retired engineers and scientists
- \$91 million in client cost savings
- Services are **confidential**; provided at **no cost** to client; supported through government and utility-sponsored grants
- Contact: Terry Albrecht 828-251-7475, Terry.Albrecht@ncdenr.gov





WRP Statewide Volunteers



Western Team - 35
Land of Sky Regional Council, Asheville, North Carolina



PiedmontTeam - 27
Research Triangle Park, North Carolina

WRP utilizes retired and volunteer engineers and scientists.

- Engaging the "Baby Boomer" community resource – two million in 2025 in North Carolina.
- Staff is highly respected by clients, "Speak the Business Language."
- Over 2,300 years of cumulative experience.
- Staffing able to "stay with" clients through project implementation.
- Promotes sustainable economy and healthy environment.



Waste Reduction Partners - FY15-16 Accomplishments

173 Clients Assisted

51 Counties Served

8,8300 Volunteer and Staff Hours

Since 2000
243,316 hours tech
assistance
\$91 million in client savings

\$1.39 Million

Client Utility Savings 52,700 MMBtu Client Energy Savings

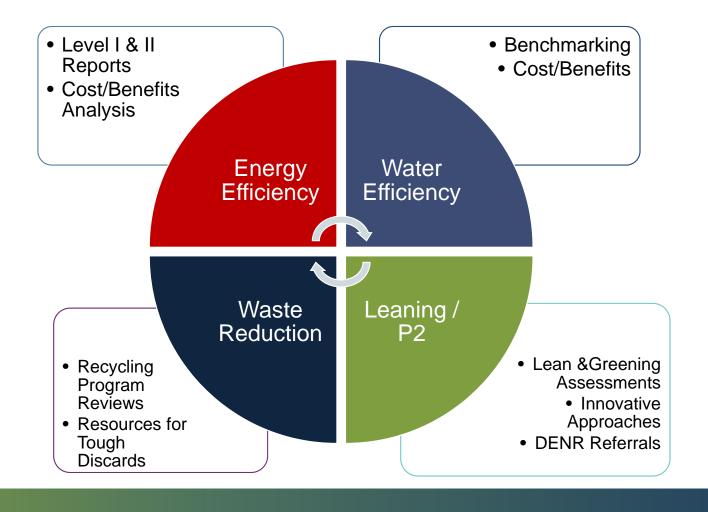
10.2 MGY

Water Usage Reduction 9,421 Tons

Solid Waste Diverted from Landfills



WRP Technical Services Offerings – 2016-17







WRP POTW Client Summary

		Energy Conservation Measures Recommended in Assessment Reports																		
Client	Date/Type	Lighting Un	, S. J. S. J	Motor	To the state of th	Mainte	Blog Envel	Sape day	Light of the light	Rate Struct	Review Coo	Reduce Pe	40,000 M	Juage West		Other Fam.	1	Aeration	0,40	Foucarie
Asheville Water	2000 Energy Audit	Х		х						х		Х	Х							
Cherokee Water	2010 Energy Audit	Х	Х			х			Х											
Mars Hill Water	2009 USI Checklist	х			х		Х									х				
Mayodan Water	2014 Energy Audit	х								х	Х									
Pittsboro Water	2013 Energy Audit	Х		х	х		х	Х			Х					х				
Cherokee W & WWater	2009 Energy Audit	Х	Х		х		х							х			х	х	х	
Gastonia W & WWater	2002 Energy Audit	х				х							х	х						
Littleton Wastewater	2009 Energy Audit		Х	х		х						х								
Mars Hill W & WWater	2009 USI Checklist	х			х				`						Х					
Marshall W & WWater	2009 USI Checklist	х		х					Х											х
Pittsboro W & Wwater	2013 Energy Audit	Х						х							Х					1
Snow Hill WWTP	2010 Energy Audit	х																		
Valdese W & WWater	2012 M&V ARRA Grant		х					Х												ı
	# Times Recommended	11	4	4	4	3	3	3	2	2	2	2	2	2	2	2	1	1	1	1



Do Your Large Customers Need Help?

- WRP Water Efficiency Assistance

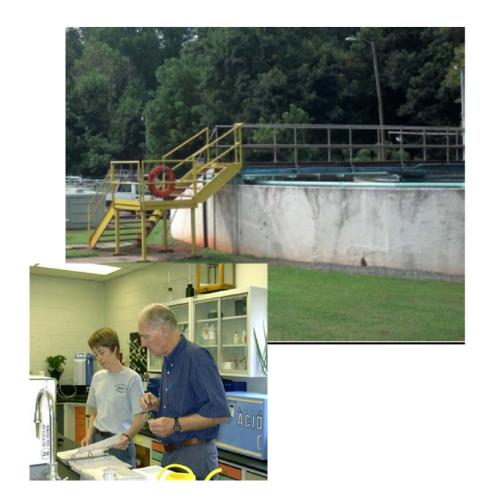
- -Utility Bill Analysis
- -Water Balance
- -Domestic & Process Uses
- -Report & Recommendation, 5-25%
- -Cost/Benefit Analysis
- -Demand Side Management Efforts
 - -City of Asheville ICI Assessments (15 yr.)
 - -Town of Cary Hotel Challenge
 - -City of Durham ICI Assessments
 - -OWASA Multifamily mass-metered
 - -Wake County Schools, City of Raleigh





Wastewater / Pollution Prevention / ESI

- Assisting customers with problematic discharges and pretreatment issues
- Examples: Town of Tryon Mercury, Farmville - Cyanide False Positive.
- Environmental Stewardship Initiative
 - City of Gastonia w/ww 3 plants
 - City of Shelby w/ww
 - City of Hendersonville w
 - Cabarrus County w/ww
 - Cape Fear Public Utility
 - www.ncesi.org
- ISO 14001 (City of Asheville assistance)



Utility Savings Initiative

- Provides assistance to public facilities:
 - Cut utility costs for both water and energy
 - Improve energy management and utility tracking
 - Develop Strategic Energy Plans
 - Provide guidance on project implementation and financial incentives
 - Examine facility upgrades through performance contracting process
- Avoided utility costs of more than \$1 Billion
- Achieved 32% energy reduction goal by 2003-2015
- (919) 707-9250, Len.Hoey@ncdenr.gov



