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
• $115 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

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.

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

Piedmont Team - 27
Research Triangle Park, North Carolina
Waste Reduction Partners - FY15-16
Accomplishments

- $1.54 Million Client Utility Savings
- 40,792 MMBtu Client Energy Savings
- 5.0 MGY Water Usage Reduction
- 6,662 Tons Solid Waste Diverted from Landfills

164 Clients Assisted
45 Counties Served
11,895 Volunteer and Staff Hours

Since 2000
260,316 hours tech assistance
$115 million in client savings
WRP Technical Services Offerings – 2017-18

- Level I & II Reports
- Cost/Benefits Analysis

- Recycling Program Reviews
- Resources for Tough Discards

- Benchmarking
- Cost/Benefits

- Lean &Greening Assessments
- Innovative Approaches
- DENR Referrals

Energy Efficiency

Water Efficiency

Waste Reduction

Leaning / P2
On-site Solid Waste Assistance

- Zero Waste to Landfill
- Recycling Vendors
- Leaning Approaches to Waste Reduction
- Agricultural Plastics Recycling Project

New website launched: www.ncagplastics.org
WRP Water Efficiency Assistance

- Utility Bill Analysis
- Water Balance
- Domestic & Process Uses
- Report & Recommendation, 5-25%
- Cost/Benefit Analysis
- Demand Side Management Efforts
- Triangle Region C/I/I on-sites
- City of Asheville – C/I/I Assessments
- City of Durham – C/I/I Assessments
Energy Efficiency Assistance

- Analyze Utility Bills
- Conduct Walk-through Surveys
- Target Energy Uses
  - Process/motor
  - HVAC
  - Lighting
- Review Building Envelope
- Seek Demand Reduction/EMS/Policies
- Consider Benchmarking
- Understand Financing Options
- Written Reports with Cost/Benefit Analysis
- Support Strategic Energy Planning Initiatives
Lean & Green Reviews

Conduct value stream mapping VSM event for small enterprises
Addresses both productivity and environmental improvements
One- to two-day on-site training events
EPA funded compliments NC’s E3
Pilot success stories
  Winston-Salem Industries for the Blind
    $365,000 value-added
  Automotive Collision Center
    $855,000 value-added
WRP - Land of Sky Regional Council
Terry Albrecht, PE, CEM
828 251-7475
Terry.Albrecht@ncdenr.gov
Initiate a Project
WasteReductionPartners.org