

*Waste
Reduction
Partners
Showcase*

Terry Albrecht, Resource and Energy Efficiency
Section Chief

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Authority

Alesia Griesmyer, SELEE Corporation





Waste Reduction Partners

Waste Reduction Partners

Engaging Services to Meet Your Goals



Terry Albrecht
WRP Director/Section Chief
DEACS/LOSRC Partnership



WRP Statewide Volunteers

- Retired Business Professional and Staff
- Engineers
- Scientists
- 40 Field Team members Across the State
- Recycling “Brain Power”
- 2,300 Years Experience
- Passionate About Providing Assistance



WRP Technical Services Offerings 2018

Confidential, no-cost
services for business
and institutions

Energy Efficiency

- Level I & II Reports
- Cost/Benefits Analysis

Water Efficiency

- Benchmarking
- Cost/Benefits

Leaning / P2

- Lean & Greening Assessments
- Innovative Approaches
- DENR Referrals

Waste Reduction

- Recycling Program Reviews
- Resources for Tough Discards



A photograph of a warehouse interior with high ceilings, metal shelving units filled with cardboard boxes, and a forklift in the center. Two men are standing in the foreground, one pointing towards the shelves. The text 'Energy Efficiency Assistance' is overlaid on the left side of the image.

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
- Review Benchmarking
- Understand Financing Options
- Provide Reports with Cost/Benefit Analysis
- Support Strategic Energy Planning Initiatives

Assessment Process

- Initiate a Project
WasteReductionPartners.org
- Needs Discussion
- Pre-Assessment Form
Utility Use & Cost History
What to Expect
- On-site Team Assessment
- Report Delivery (3-4 weeks)
- Follow-up

The image shows a screenshot of a 'PRE-ASSESSMENT SURVEY' form from Waste Reduction Partners. The form is titled 'Waste Reduction Partners PRE-ASSESSMENT SURVEY' and includes several sections for data entry: 'Client' (Name, Building, Year Built), 'Site Contact' (Name, Title, Street, City, County, Phone, Mobile, Mailing Address, State - NC, Zip, Email), and 'Site Information' (No. of floors, No. of occupants, Meter-hours usage/yr., Use (office, etc.)).

Initiate a Project

WRP technical assistance is provided at no cost to our clients, funded by government-sponsored grants, contracts, and private contributions. North Carolina only.

Organization *

Your Name *

Street Address

Zip

Report Summary Table

Energy Savings Measure	Electricity Savings (kWh/yr)	Natural Gas Savings (MMBtu/yr)	Cost Savings (\$/yr)	Installed Cost (\$)	Payback Period (yrs)
Air Compressors					
11 Reduce compressed air pressure.	13,104	0	\$839	\$0	Immediate
12 Implement compressed air leak detection program.	87,360	0	\$5,591	\$5,000	0.9
Subtotal	100,464	0	\$6,430	\$5,000	0.8
Laboratory Hoods					
13 Upgrade lab hoods.	115,817	534	\$12,097	\$84,000	6.9
Subtotal	115,817	534	\$12,097	\$84,000	6.9
Limit Demand					
14 Limit demand with Tracer Summit BMS.	50,000	0	\$11,644	\$5,000	0.4
Subtotal	50,000	0	\$11,644	\$5,000	0.4
Water Heating					
15 Replace electric water heaters with nat. gas WHs.	9,500	0	\$608	\$2,000	3.3
Subtotal	9,500	0	\$608	\$2,000	3.3
Chillers					
16 Cut off Chiller No. 3 during weekends.	124,800	0	\$7,987	\$0	Immediate
Subtotal	124,800	0	\$7,987	\$0	Immediate
Totals	3,007,637	1,471	\$223,335	\$286,988	1.3

Water Efficiency Assistance

- Utility Bill Analysis
- Water Balance
- Domestic & Process Uses
- Report Recommendation, 5-25%
- Cost/Benefit Analysis
- Triangle Region C/I/I on-sites





On-site Solid Waste Assessments

- Zero Waste to Landfill
- Recycling Vendors
- Leaning Approaches
- Waste Sort Assistance
- 2017 Efforts
 - Worked with 86 businesses
 - Identified opportunities for clients to divert 6161 tons; saving \$363,000



Lean & Green Reviews

- Participation in Lean and Green Reviews
- Addresses both productivity and environmental improvements
- Pilot success stories
 - Winston-Salem Industries for the Blind
 - \$365,000 value-added
 - Automotive Collision Center
 - \$855,000 value-added





Initiate a Project
WasteReductionPartners.org

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