



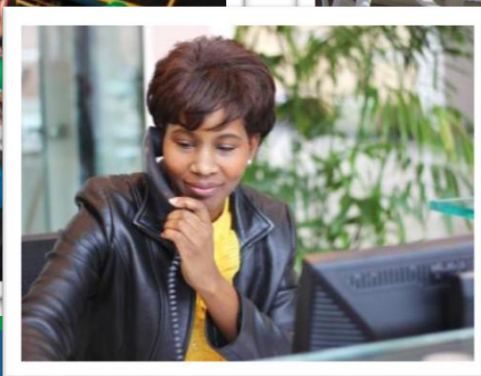
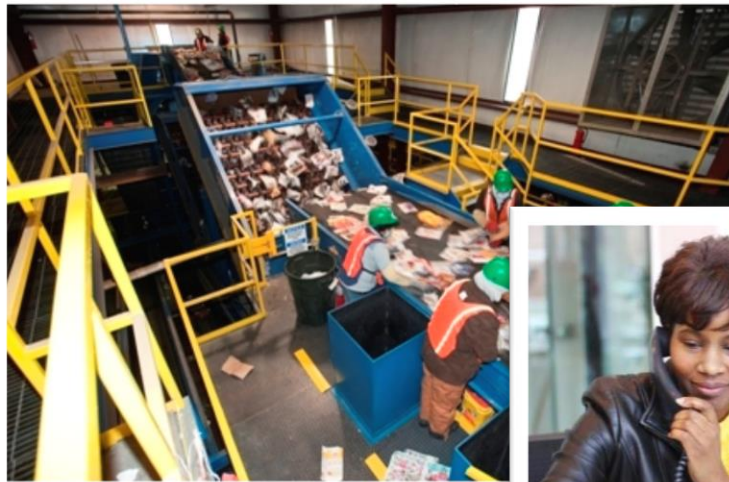
Environmental Stewardship Initiative

NOVEMBER 2017



Division of Environmental Assistance and Customer Service

- Non regulatory
- No cost-permit; compliance technical assistance
- Engineers, chemists, environmental specialists





Environmental Stewardship Initiative

- DEQ **recognition** program for superior environmental performance
- DEACS staff serve as coach to member and manage program
- **Voluntary** and **free**
- Funded through EPA Pollution Prevention Grant





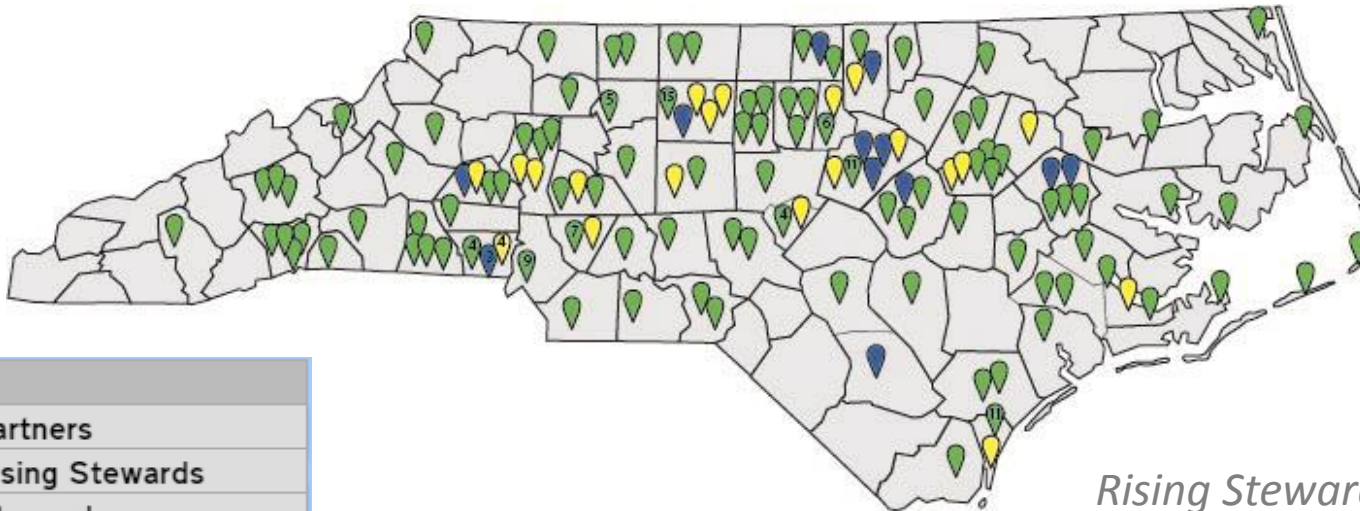
Environmental Stewardship Initiative

2002

- 1 Steward
- 27 Partners

2017

- 27 Steward
- 12 Rising Steward
- 56 Partners; 161 sites



Rising Steward level added in 2004



To Join ESI

- Commitment to compliance
- Not under environmental criminal indictment or conviction
- Report annually on progress towards environmental performance goals and any reportable non-compliance





Partners

Alliance One International Inc. (5)*
American Emergency Vehicles
American Snuff Company / Taylor Brothers
Baker Furniture – Hildebran
Baker Furniture – High Point
Borg Warner Thermal Systems – Fletcher
BorgWarner Turbo Systems – Arden
Burt's Bees Inc. – Morrisville
Cape Fear Public Utility Authority (9)*
Cascades Tissue Group – North Carolina Inc. – Rockingham
Caterpillar BCP – Sanford
Caterpillar – Clayton
Charlotte-Mecklenburg School System
City of Gastonia Public Works Division
City of Hendersonville Water Treatment Plant
City of Shelby First Broad River Wastewater Treatment Plant
City of Shelby Water Plant
CMI Plastics
CommScope – Greensboro
Core Technology Molding Corporation
Crown Equipment – Kinston
Domtar Paper Company, LLC – Plymouth
Eaton Corporation CPO – Raleigh
Freudenburg Nonwovens – Durham
General Electric Company – Aviation – RTP
General Electric Company – Industrial Solutions – Mebane

Haeco Airframe Services – Greensboro
Herbalife Innovation and Manufacturing – Winston Salem
High Point Furniture (2)*
International Paper – Riegelwood Mill
Iredell Fiber, Div. of Leggett & Platt – Statesville
Kao Specialties Americas, LLC – High Point
Leggett & Platt ON64 – High Point
Liberty Tire Recycling, LLC (2)*
Linamar Corporation
Martin Marietta (58)*
Michelin Aircraft Tire Co. – Norwood
MVP Group International – Elkin
NIEHS – RTP
N.C. DOT Ferry Division (9)*
North State Communications – High Point
Pfizer – Sanford
Piedmont Service Group - Raleigh
PRC Industries – Spruce Pine
PSNC Energy Carolinas Inc. (21)*
RJ Reynolds Tobacco (3)*
SELEE Corporation – Hendersonville
Siemens Medical Solutions, CSG Service Headquarters – Cary
Smithfield Clinton Plant
Southern Research Institute
Universal Leaf North America US Inc. (2)*
Water and Sewer Authority of Cabarrus County (4)*

* - multi-site member



Rising Stewards

Ajinomoto North America, Inc. – Raleigh
ASMO North America Inc. – Greenville
Bridgestone-Bandag, LLC – Oxford
City of Gastonia Resource Recovery Farm
Eaton Corporation, Raleigh Production Operations
GKN Driveline – Roxboro
GKN Sinter Metals – Conover
Grifols Therapeutics – Clayton
Hyster-Yale Group – Greenville
Mecklenburg County Solid Waste Operations
Smithfield Farmland – Tar Heel Facility
Qorvo, Inc – Greensboro



Stewards

ASMO North Carolina Inc. – Statesville
Bridgestone Americas Tire Operations LLC – Wilson
City of Gastonia Crowders Creek Resource Recovery Facility
City of Gastonia Long Creek Resource Recovery Facility
City of Gastonia Water Treatment Plant
Corning Inc. – Wilmington
Daimler Trucks North America LLC – Cleveland
Daimler Trucks North America LLC – Gastonia
Daimler Trucks North America LLC – Mt. Holly
Dell – Apex
Eaton Corporation - Youngsville
Engineered Sintered Components – Troutman
Firestone Fibers & Textiles – Gastonia & Kings Mountain
Fleet Readiness Center East – Cherry Point

GKN Driveline- Sanford Precision Forming Facility – Sanford
Hickory Cable Facility, Corning Cable Systems
John Deere Turf Care – Fuquay-Varina
Keihin Carolina System Technology, LLC – Tarboro
N.C. Zoological Park – Asheboro
Santa Fe Natural Tobacco Knotts Grove Campus – Oxford
Smithfield Packing Company – Wilson
Stanley, Black & Decker – Kannapolis
TE Connectivity - Pegg Rd – Greensboro
TE Connectivity – Burgess Rd – Greensboro
Thomas Built Buses, Inc. – High Point
Uchiyama - Goldsboro
U.S. Environmental Protection Agency – RTP



2016 ESI Members Reported Reductions

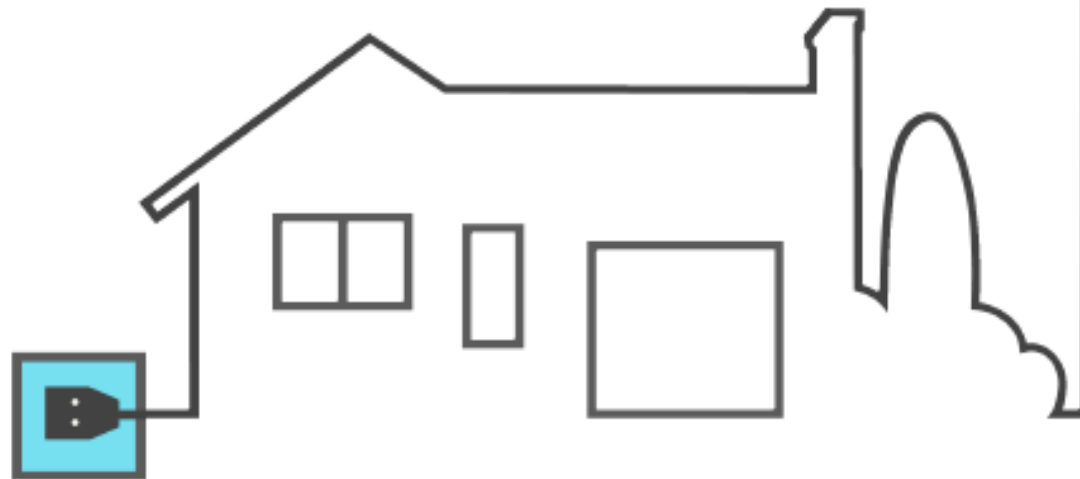
	Area	2016	Unit
Reductions	Air Emissions	2,973	Tons
	Greenhouse Gas Emissions*	3,562	Metric Tons CO2e
	Hazardous Waste	314	Tons
	Landfilled Waste	2,535	Tons
	Energy	291,695	mmBtu
	Water Use	1,239,254,545	Gallons
	Material Consumption	376	Tons
	Wastewater Pollutants	806	Tons
	Wastewater Volume	230,263,919	Gallons
Totals	Biomass Recovery**	93,888	Tons
	Total Recycled Volume	159,194	Tons
	Total Cost Savings	\$ 8,221,014.67	
*Indirect not reported in energy reductions			
**Category created for compost/mulch related goals			



ESI members saved enough energy in 2016 to power over

3,800

average North Carolina homes for a year





ESI members saved enough water in 2016 to fill more than

56,000

average-sized swimming pools





In 2016 ESI members reduced
greenhouse gas emissions
equivalent to over

6,470

passenger vehicles driven for
one year!



ESI members saved enough money on environmental projects in 2016 to pay the salary of

274

PEOPLE

earning \$30,000 per year



ESI Benefits and Services

- Technical Assistance
- Networking
- Recognition
- Electronic Newsletter
- DEACS Coach
- Trainings
- EMS Assistance
- Steward Forum
- ESI Listserv





ESI Activities

- Personalized onsite EMS assistance
- Internal Auditing Assistance
- EMS Gap Analysis
- Networking:
 - Annual ESI Conference
 - At ESI facilities
 - Facility tours
 - Networking with ESI members & DEQ
 - Topic based/facility lead
 - Energy
 - Solid waste reduction
 - EMS
- Training
 - ISO 14001 –
 - EMS Implementation Series (7 Modules)
 - EMS Internal Auditing
 - ISO 14001:2004 to 2015 Conversion
 - Managers' Overview of ISO 14001:2015
 - Lean and Green
 - Zero Waste to Landfill 101
 - Developing SMART Environmental Goals



Upcoming Events

- *Using and Understanding Boiler (5D) and RICE (4Z) Rules*

November 2-3 – Raleigh, NC

November 16-17 – Cleveland, NC

DAIMLER

- *ISO 14001:2004 to 2015 Conversion/Overview*
December 4-5 – Asheboro, NC



- *EMS Internal Auditing*
December 6 – Asheboro, NC





Contact Information

Jamie Ragan

Environmental Assistance Section Chief

919-707-8141

Davy Conners

Co-manager Environmental Stewardship Initiative

919-707-8131

Department of Environmental Quality

Division of Environmental Assistance and Customer Service



NC
**Environmental
Stewardship
Initiative**

www.ncesi.org