

DIVISION OF ENVIRONMENTAL ASSISTANCE AND CUSTOMER SERVICE

2023 AND 2024 DEACS BIENNIAL REPORT



Friends and Colleagues,

DEACS is excited to share the 2023-24 biennial report with you. The past two years have been very productive, and we are pleased to share some of our activities, highlights and accomplishments which have a direct impact on the state's strong economy and environmental protection.

As you will see in the report, our work is diverse across the state. The DEACS team offers grants; helps entities navigate the permitting process; supports economic development; recognizes and assists organizations going beyond compliance; provides direct on-site technical assistance; serves as a customer service liaison for DEQ; and offers training and networking opportunities.

Our team has grown significantly through the addition of eight new positions to expand and increase the services we offer. We also received additional funding to provide more grants for recycling infrastructure through legislative support and federal funding.

We hope you find this report insightful and that it encourages you to reach out to DEACS to determine how we may be able to help you. Thank you for taking your time to learn more about us.

Best Regards,

Jamie Kagan

JAMIE RAGAN, DEACS DIRECTOR

CONTENT

WHAT IS DEACS?	2
ENVIRONMENTAL AND PERMIT ASSISTANCE	4
ON-SITE TECHNICAL ASSISTANCE	6
WASTE REDUCTION AND RECYCLING ASSISTANCE	8
REGIONAL OFFICE OPERATIONS	10
DEACS ASSISTANCE BY THE NUMBERS	12
ENVIRONMENTAL STEWARDSHIP INITIATIVE	14
GROWING THE CIRCULAR ECONOMY	16
ECONOMIC DEVELOPMENT	18
ADVANCING CLIMATE CHANGE SOLUTIONS	20
DEACS GROWTH EXPANDS BENEFITS	22
PROMOTING WATER USE EFFICIENCY	23
THE DEACS TEAM	24

WHAT IS DEACS? NON-REGULATORY TECHNICAL, PERMITTING

AND FINANCIAL ASSISTANCE

DEACS is a non-regulatory division in the North Carolina Department of Environmental Quality (DEQ) which protects the state's natural resources for the health and prosperity of all North Carolinians. The division accomplishes these goals by encouraging sustainable practices, advancing recycling efforts, reducing waste generation and disposal, and promoting more efficient resource consumption. The division also strives to promote going beyond regulatory compliance and help customers navigate environmental permitting. With a staff of more than 65, the division is organized in four sections: Environmental Assistance, Recycling and Materials Management, Waste Reduction Partners and Regional Office Operations and Administration.

HELPING OUR CUSTOMERS

- Navigate regulatory and permitting challenges.
- Use resources responsibly and move toward a more circular economy.
- Achieve and be recognized for environmental excellence.
- Interact with and access DEQ programs through seven regional offices.
 - Implement our pollution prevention strategies.

- Grow local economies and create jobs.
- Understand how to address environmental problems.
- Coordinate the State Environmental Protection Act (SEPA) process.
- Experience customer service excellence.
- Access grant funding and assistance to improve recycling infrastructure.

WHAT IS DEACS?

TECHNICAL SUPPORT	RECYCLING AND MATERIALS MANAGEMENT	RESOURCE AND ENERGY EFFIENCY
DEQ Toll-free Hotline Environmental and	Recycling Business Assistance	On-site Assessments Networking and
Pollution Prevention Assistance	Local Government Assistance	Benchmarking Events Waste Reduction
Permitting Guidance and Compliance Assistance	Grant Programs	Partners
RECOGNITION	OUTREACH	
AND LEADERSHIP PROGRAMS	PROGRAMS	OPERATIONS
Environmental Stewardship Initiative	Recycling Campaigns DEQ Prosperity Zone	Office Management Express and Scoping
NC GreenTravel	Liaisons Webinar and	Meeting Facilitation Financial Management
	In-person Training	



ENVIRONMENTAL A PERMIT ASSISTANC

NON-REGULATORY LIASON

DEACS Environmental Assistance Coordinators (EAC), provide non-regulatory, on-site consultation and coordinated permit reviews for proposed projects. They are conveniently located within the seven regional offices close to our customers. Their primary responsibility is to assist businesses, industries, local governments, other institutions, consultants, and private citizens to identify, understand and comply with the state's environmental requirements.

CUSTOMIZED PERMIT ASSISTANCE AND COORDINATION

EAC provide permitting assistance tailored to individual customer needs. The coordinator also provides personalized guidance through each step of the permitting process. Regional environmental coordinators provided clients with at least 140 customized permit lists in FY 2023 and 127 in FY 2024.

EXPRESS PERMITTING

EAC staff provides coordination and assistance to clients to facilitate expedited permitting decisions within the Express Permitting Program. This assistance is a key component that can lead to more timely permitting decisions in relation to DEQ regulatory requirements. Projects that involve the following permits may qualify for express permitting: CAMA Major, Erosion and Sediment Control, Post-Construction Stormwater (only available in 20 coastal counties), and Stream Determinations. In the past two years, Environmental Assistance Coordinators took part in a total of 519 DEMLR Express Permitting meetings.

MULTI-AGENCY MEETINGS

The DEACS staff arranges and leads multi-agency meetings for permitting applicants and their consultants to connect with federal and state permitting and resources agencies. These meetings aim to assist with the permitting processes, offer guidance to prevent and minimize environmental impacts, explain the distinction between requirements and recommendations, and recognize potential obstacles and how to avoid them. EAC staff facilitated 121 multi-agency meetings in FY 2023 and 99 in FY 2024.



Scoping meeting.

MILITARY PERMITTING ASSISTANCE

In 2023 Cameron Weaver, Environmental Assistance Coordinator in the Wilmington Regional Office, supported U.S. military installations by organizing three multi-agency meetings for environmental permitting of construction projects and numerous Express Permit meetings. These efforts resulted in the issuance of Express Permits by the Stormwater and Erosion Control programs within the Division of Energy, Mineral, and Land Resources (DEMLR) for military projects in the Wilmington Region. In 2022, over 45 DEMLR Express Permits were issued for military projects, and in 2023, more than 17 were issued.

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SMALL BUSINESS ASSISTANCE

The DEQ Small Business Environmental Assistance Program (SBEAP) provides free, confidential, and nonregulatory technical assistance to small businesses across North Carolina. Staff engineer Tony Pendola recently worked with Andersen Products, a commercial sterilizer/ manufacturer which developed an innovative process to substantially reduce the use of ethylene oxide (EtO) in sterilization. Mr. Pendola facilitated the engagement of Andersen Products on an EPA review panel, facilitated on-site visits to provide critical feedback on new national rulemaking on EtO use, and provided permitting and compliance assistance.



Site visit with EPA rule writers, supervisor, and regional office.

"We are fortunate here in North Carolina to have experts who take an interest not just in our regulatory compliance, but in our growth and success as a North Carolina Company.."

> WILLIAM K. ANDERSEN, M.D., F.A.A.O.S., CEO ANDERSEN STERILIZERS, INC.

ENHANCING COASTAL REEFS THROUGH MULTI-AGENCY FACILITATION

Recently, the Division of Marine Fisheries (DMF) requested that the Environmental Assistance Coordinators schedule and facilitate a meeting to discuss the creation and monitoring of artificial reefs and oyster sanctuaries in North Carolina coastal waters. Staff from state and federal regulatory and resource agencies were invited to a meeting to discuss the construction of two new estuarine artificial reef sites for oyster sanctuary habitat and enhance two existing sites all positioned in the Pamlico Sound. The success of this project hinged on comments from the US Army Corps of Engineers, Division of Coastal Management, Division of Water Resources, US Coast Guard, US Fish and Wildlife, National Oceanic and Atmosphere Administration Fisheries, State Historic Preservation Office, Division of Energy, Minerals, and Land Resources, and N.C. Wildlife Resources Commission.

On March 12, 2024, DMF received a major permit for the creation of Maw Point and Brandt Island Oyster Sanctuary and the placement of additional reef development material for existing artificial reefs AR-296 and AR-298.

ON-SITE TECHNICA ASSISTANCE

Businesses and institutions can call on DEACS staff to provide on-site, one-on-one technical assistance to help achieve their environmental performance goals. Unique to NCDEQ, these technical assistance services address resource efficiency, recycling, water and energy-use management, greenhouse gas emission reduction, pollution prevention and sustainability strategies.

AIDING INDUSTRY WITH HARD-TO-RECYCLE MATERIALS

In October 2022, Tri-Hishtil, a plant grafting greenhouse in Mills River reached out to Waste Reduction Partners for help finding a recycler for their harder-to-recycle, high impact polystyrene seed trays. With a dedication to waste reduction, Tri-Hishtil was already baling cardboard and plastic films for recycling in nearby Asheville. WRP connected them with Verity Recycling, a specialty agricultural plastics recycler that is now processing 24 tons of seed trays annually and saving Tri-Hishtil about \$70,000 on waste disposal.

AMERICAN RED CROSS: SUSTAINABILITY PILOTS

The American Red Cross engaged Waste Reduction Partners' on-site consultative services to identify environmental and energy management improvements for four pilot operation centers across North



Red Cross

Carolina in 2022 and 2023. The assistance focused on energy management, waste reduction, recycling, water efficiency practices and is being utilized to craft a national program to reduce the Red Cross's environmental and carbon footprints.

"Tri-Hishtil is proud of the fact that we recycle, and we appreciate WRP's help in finding markets for our recyclable materials. Last year we saved about \$70,000 on trash pickup!"

> YULIA MCBRIDE, OPERATIONS MANAGER TRI-HISHTIL

ESI ENERGY TOOLKIT ADVANCES PERFORMANCE

The Environmental Stewardship Initiative launched a diagnostic equipment loaner program for members seeking to improve energy management performance. The equipment ranges from an infrared camera, ultrasonic leak detector, and light meter to AC recording probes, power quality and data loggers.

In December 2022, ESI staff, Don Burke worked with Mattamy Homes in Cary to evaluate the performance of home insulation products using the infrared camera. ESI and WRP staff supported Precor Manufacturing in Whitsett to undertake a compressed air leak repair program. WRP staff trained Precor technicians on the use of the detector and provided a spreadsheet tool to quantify energy and cost savings. Precor tagged and repaired 45 leaks, measured a 21 percent reduction in compressed air leakage, and estimated utility cost saving of \$12,300 per year for the initiative.



WRP staff trains Precor technicians to use of ultrasonic air leak detectors.

ASSISTING WICKED WEED BREWING WITH SUSTAINABILITY

Wicked Weed Brewing continually seeks to enhance its strong environmental sustainability programs. In October 2022 Wicked Weed engaged Waste Reduction Partners to assist with a waste stream sort to help optimize management practices. The project team analyzed the garbage stream to measure the amount of recyclables and compostables that slipped in, and the team also analyzed the recycling stream to determine the percentage of contamination. Later in March 2023, WRP staff conducted a greening assessment for Wicked Weed's Brew Pub in Asheville addressing energy and water efficiency, recycling and food waste reduction efforts. Wicked Weed recently joined both the NC GreenTravel and ESI recognition programs.



Waste Reduction Partners staff assists Wicked Weed Brewing's Green Team to conduct a waste sort and optimize waste management practices at their production facility in Candler.

HELPING UNCA CONDUCT "WASTE SORT BUFFET"

DEACS staff partnered with UNC – Asheville to support their "waste sort buffet," an educational effort to highlight food waste awareness in their dining halls. A waste buffet displays the uneaten food in categories to visually show the volume of edible food that was discarded. UNCA's cafeteria had a total of 237 pounds of food waste during one lunch period! Nearly 80 pounds were edible portions resulting from 530 meal ticket swipes. With 15 percent of this purchased food being wasted, event organizers hope to encourage behavioral changes to reduce food waste.

WASTE REDUCTION RECYCLING ASSIST



RECYCLING GRANTS TO LOCAL GOVERNMENTS

DEACS grant funding to local governments helps expand and improve recycling programs to collect more and higher quality recyclables, which is critical to growing the state's recycling economy. During the most recent cycles, grant-funded projects helped local governments open new recycling drop-off sites, distribute effective recycling education to residents, and reinstate a curbside recycling program in Edenton after being suspended since 2020.

Cart tagging projects, which use educational materials such as cart hangers to inform residents of incorrect items placed in their recycling carts, have been successful in reducing contamination. With DEACS grant funding, the City of Rocky Mount focused their cart tagging program on the collection route with the highest contamination rate. Over three months, the effort successfully improved the recycling habits of 31.2 percent of households. As a result, the contamination rate for the specified route decreased by nearly 70 percent.



FEDERAL GRANT AWARD

For the first time in more than 20 years, EPA awards federal funding to states for waste reduction and recycling infrastructure planning and development. In the fall of 2023, EPA awarded DEACS more than \$612,000 through the Solid Waste Infrastructure for Recycling (SWIFR) grant program. DEACS will use the funding for three major projects:

- The division will conduct a statewide materials management optimization study to better understand the composition of the state's municipal solid waste and identify opportunities for source reduction and diversion.
- DEACS will mount a statewide education campaign aiming to increase awareness about sustainable materials management, restore confidence in the recycling system, and improve recycling behaviors.
- DEACS will provide additional grant funding to local governments for education and outreach projects to concentrate the RecycleRightNC messaging at the local and regional level.

10-YEAR SOLID WASTE AND MATERIALS MANAGEMENT PLAN

State law requires the North Carolina DEQ to develop and periodically update a comprehensive statewide solid waste and materials management plan, with an objective of promoting alternatives to landfilling. DEACS and the Division of Waste Management are working together to develop the 10-Year Solid Waste and Materials Management Plan for the 2024-2034 cycle. Staff use public and stakeholder feedback to develop an action-based, achievable, and inclusive plan for the coming decade. inclusive plan for the coming decade.

WASTE REDUCTION AND RECYCLING ASSISTANCE

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USE THE FOOD NC CAMPAIGN LAUNCH

In fall 2022, DEACS officially launched the Use the Food NC Campaign, drawing more than 60 attendees and featuring presentations from the N.C. Department of Agriculture and Customer Services, the U.S. and N.C. Composting Councils, EPA, City of Asheville, and Garbage to Gardens. The campaign aims to engage consumers, government, and businesses in reducing food waste by offering outreach materials, resources, and a food waste grant program. Following the launch event, DEACS found additional opportunities to bring various stakeholders together including two notable events in 2023 for food banks and food hubs across the state. DEACS staff continue to share and expand resources on the usethefood.nc.gov website, including a social media toolkit, resource map, hand-out guidance, business self-assessment guide, onsite consultations and more.



FOOD WASTE REDUCTION GRANTS

After the Use the Food NC campaign launch, DEACS awarded two rounds of the Food Waste Reduction grant to 23 organizations, investing \$747,100 for state infrastructure. The goal of the grant program is to help local governments, non-profits and businesses reduce the amount of wasted food disposed at landfills by expanding food donation networks and composting operations. Collectively, the 2023 and 2024 grants are projected to provide 57,983 meals and divert 36,066 tons of organics from landfills.

Grant projects have already made an immediate impact. For example, McGill Environmental Systems was able to utilize its funding to build a food waste sort station at its Merry Oaks Facility. As a result of the new infrastructure, they were able to accept 16 tons of bananas that were no longer salable due to refrigeration issues during transport. Using the new pad, they were able to sort and compost the bananas, boxes, and pallets, turning them into premium soil amendments that will be used to help improve NC soils.



Christine Wittmeier speaking at the Food Waste Stakeholder Meeting.

EVERY TRAY COUNTS

Established in 2013 within the Chapel Hill-Carrboro City School system, Every Tray Counts began as a campaign to reduce Styrofoam tray usage in school lunchrooms. The volunteer group evolved into a 501(c)(3) non-profit with a mission to prioritize compostable trays and food waste diversion. They created a school kit with a lunchroom composting startup guide, posters, and educational resources. School closures during the COVID-19 pandemic hindered efforts. Recognizing alignment with the DEQ Use the Food NC campaign and the value of the developed resources, board members helped DEACS assume program responsibility in early 2023. As of 2024, staff progress includes launching a pilot program, rebranding, website development, and widespread resource distribution to ensure ongoing support.

REGIONAL OFFICE

THE FACE OF CUSTOMER SERVICE IN THE REGIONS

DEACS OFFICE MANAGEMENT AND CUSTOMER SERVICE FOR DEQ'S SEVEN REGIONAL OFFICES

DEACS provides the administrative support for DEQ's seven regional offices, including customer service, lease and space management, budgeting, operational logistics, and emergency operations.

Each regional office connects the Department to the surrounding community and addresses the unique needs, customers, demographics, industries, and geography, creating variations in workloads, activity levels and decision outcomes.

The administrative workload in each office is specifically tailored to the needs of the regulatory programs staff at each location.

- Customer assistance and outreach
- Fiscal management
- Support to DEQ permit and inspection staff
- Facility improvements
- Electronic records transition and management



Left to right, Anne Jones, Tina Burd, Jan Davis and Daisha Williams at the WiRO reception desk, new phone system in background.

ADMINISTRATIVE SUPPORT TO DEQ DIVISIONS IN THE REGIONAL OFFICES

- Daily processing of deposits and audits of permit fees
- Entering data into permit tracking databases
- Tracking and recording of monthly and annual inventories
- Conducting fire and risk inventory assessments
- Managing safety equipment and state vehicles
- Assisting with file reviews and public records requests

DEACS ENHANCES CUSTOMER SERVICE THROUGH CROSS-TRAINING

DEACS held its first cross-training event for all administrative staff, aimed at improving customer service. This event brought together administrative assistants from all seven regional offices, fostering improved collaboration and a unified approach to serving our clients. Staff engaged in team-building exercises that not only strengthened their relationships but also provided a platform for sharing best practices across different regional offices.

A comprehensive overview of DEQ and DEACS, presented by Eula Alexander, Regional Office Operations & Administration Section Chief, Andrea Knight, HR Representative, and Jamie Ragan, DEACS Division Director, provided the administrative team with deeper organizational information to deliver efficient, knowledgeable and responsive customer service.

OPERATIONS

REGIONAL OFFICE ADMINISTRATIVE TEAM MEETING NEW OPPORTUNITIES

- Learning new online permit application processes and tracking.
- Adapting DEACS workflows to accommodate a more modern DEQ.
- Gathering and analyzing staffing information to assist in lease renewal development.
- Assisting a growing DEQ staff with new priorities determined by various federal funding sources.



Raleigh Regional Office staff left to right, Valerie Ealey, Sandee Roof, Cheryl Richardson and Barbara Parker.

REGIONAL OFFICE ASSISTANCE 2023-2024 REPORTING

* 10,439 walk-INS

C 67,034 CALLS



DEACS ASSISTANCE

DATA FROM JULY 2022-JUNE 2024



67,034 Regional Office Customer Phone Calls









92,462 DEACS Webpage Views



220 Multi-Agency Meetings



EXAMPLE 5 SEPA and Related Reviews



Site Visits

Presentations Audience reached: **4,926**

Webinar Trainings Audience reached: 614

* Latest two reporting years.

BY THE NUMBERS







210 Environmental Stewardship Initiative Members Sites





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NC GreenTravel Members

DEQ WASTE SORT LEADS TO COMPOSTING PILOT

DEACS staff led NCDEQ's first waste sort of its Green Square headquarters in November 2022. With support of many volunteers, staff sorted and characterized a oneday sample of waste generated at Green Square. The results showed that a full 52 percent of the materials were compostable and another 25 percent were recyclable in the existing programs offered in the building.

Recycling signage was improved in 2023 and a pilot composting program was launched in April 2024. During this first month, Green Square staff diverted 210 pounds of organics from the landfill, avoiding 22 pounds of methane and producing enough compost to grow 158 tomato plants! N.C. Department of Administration is monitoring the DEQ pilot to determine if there is an opportunity for broader deployment of composting programs at other state agencies.

NC GREEN TRAVEL

The NC GreenTravel Program helps North Carolina's tourism businesses improve their brand through being more environmentally sustainable. By earning recognition, these businesses showcase their best practices, contributing to a more eco-friendly and prosperous travel industry in North Carolina.





DEACS staff at Green Square's waste sort.

NORTH CAROLINA DEQ TOLL-FREE NUMBER: 1-877-623-6748

DEACS staff manages DEQ's toll-free hotline, fielding customer calls and leading the department's response to customer needs. Their technical expertise addresses questions and guides callers to appropriate staff. Historically, 85 percent of calls are handled through programs administered by DEQ. During this two year period, 15,237 calls were fielded by the hotline.



Established in 2002, the Environmental Stewardship Initiative's mission is to assist organizations in reducing their environmental impacts beyond regulatory requirements and recognize those that achieve and maintain this commitment.

ESI MEMBERSHIP BENEFITS

The Environmental Stewardship Initiative (ESI) is unique from other state and federal efforts because it provides no-cost training, education, networking and technical assistance to help members improve their environmental performance and pollution prevention objectives. These ESI trainings and technical assistance opportunities are provided through peer sharing events among members to advance environmental management systems, sustainability and beyond compliance efforts. This program approach leverages technical and organizational resources across member businesses, industries, local municipalities, and government agencies far beyond those that can be provided by ESI and DEQ.

Members are encouraged to address all significant environmental impacts, including air, water, waste, energy and resource consumption, through their environmental management system goals.



ESI Members Mentoring at ESI Annual Conference.

ESI MEMBERS' TWO YEAR REDUCTIONS AND SAVINGS

WATER REDUCTIONS





WASTE REDUCTIONS



Hazardous Waste reduced more than

AIR EMISSION REDUCTIONS



Air Emissions:

COST SAVINGS



More than \$7.897.274

www.ncenvironmentalassistance.org

ITAL STEWARDSHIP

ESI SUPPORTS ENERGY EFFICIENCY

The energy toolkit developed by ESI allows clients to analyze energy usage and identify areas where pollution prevention strategies can be deployed to reduce their energy consumption. These tools are available at no-cost to members and can be used to achieve energy efficiency and carbon reduction targets. The ESI Energy Toolkit is especially valuable to those organizations that do not have the internal resources needed to achieve their energy management strategy. With these diagnostic tools, paired with experienced guidance by Waste Reduction Partners engineers, ESI members can reduce energy costs, greenhouse gas emissions and improve environmental resiliency. Not only will these actions prevent pollution, they contribute to achievement of the N.C. DEQ Clean Energy Plan and N.C. Executive Order 80.

ESI ENVIRONMENTAL BENCHMARKING SERIES (EBS)

The ESI Environmental Benchmarking Series (EBS) is designed to facilitate peer-sharing of information and opportunities for attendees to learn from each other. ESI members host events that focus on a specific environmentally related topic. Those in attendance get a rare opportunity to see how another organization achieves its environmental performance goals or compliance obligations and can take that information and know-how back to their own facility. All events include real world application of environmental efforts, networking opportunities and tours of implemented projects. Uchiyama Manufacturing America-LLC in Goldsboro hosted an EBS in 2023 on the benefits of using ProMoss to eliminate chemical use in industrial chillers, cooling towers and effluent wastewater tanks.

New ESI Steward Highlight

Eaton RPO (Raleigh Production Operations) joined the ESI as a Partner in 2010 and rose to the Rising Steward level in 2012. Eaton RPO was recognized as a Steward by DEQ Secretary Elizabeth Biser during an in-person ceremony and plant tour on April 18th, 2023.





GROWING ECONOMY

CIRCULAR ECONOMY COUNCIL

Secretary Elizabeth Biser formed the <u>North Carolina</u> <u>Circular Economy Council</u> to identify ways to expand and accelerate beneficial impacts of recycling in the state. Members of the Council include leading recycling companies, non-profit organizations, industry associations, and product manufacturers. DEACS supports the Council's promotion of innovative materials management solutions, such as business and infrastructure development.

CIRCULAR ECONOMY COUNCIL TOURS

In its first year, the Circular Economy Council invited state leaders to tour a series of leading and innovative recycling facilities. DEACS staff coordinated with Council members and organized three separate facility tours to provide local and statewide leaders with an in-depth look at the operations behind the recycling process and perspective on the larger circular economy. Decision-makers were given tours of Southeastern Container, a Coca-Cola Consolidated PET preform and bottle manufacturer, Unifi Inc., the manufacturer of REPREVE fiber from 100 percent PET recycled materials, and Powerhouse Recycling, an IT asset and electronics recycler which also opened North Carolina's first dedicated solar panel recycling line this past year.



Circular Economy Council tour of Southeastern Container.

1. RECYCLING

2. COLLECTION

3. SORTING

4. PROCESSING

5. MANUFACTURING

6. CONSUMPTION AND USE

curbi

THE CIRCULAR

RECYCLING BUSINESS GRANTS

DEACS' Recycling Business Assistance Center (RBAC) continues to stimulate growth and expansion in the private recycling industry through its Recycling Business Development Grant Program. During FY 2022 and FY 2023, DEACS awarded 31 grants to North Carolina recycling businesses and nonprofits, resulting in additional annual recycling of 83,742 tons of material and 157 jobs created.

Gateway Recovery processes coaxial cables, a highly landfilled material, and recovers 95 percent of the cables' metals for resale to domestic mills. Recently the company began using the recovered plastic to make plastic lumber for fence posts and other uses, diverting even more materials from the landfill and circulating them back into the economy. DEACS awarded Gateway Recovery a grant to purchase a shredder to enhance its capacity to recycle coax cables, which is expected to divert 500 tons of material annually.



"North Carolina has an opportunity to further advance the circular economy by ensuring that the state's infrastructure and markets support productive economic use of end-of-life materials".



ECONOMIC DEVELO

ENVIRONMENTAL COMPLIANCE REVIEWS

Environmental compliance reviews (ECRs) are performed when businesses are applying for job development investment grants (JDIGs). These grants are available for new and expanding companies to help offset expansion and/or locating costs. JDIGs are based on North Carolina Department of Commerce (N.C. Commerce) criteria for operation via the One North Carolina Fund (OneNC). The OneNC Fund is a discretionary cash-grant allowing for quick response to job creation projects. Previously a N.C. Commerce responsibility, DEACS has taken over the ECR process.

To complete an ECR, the regional Environmental Assistance Coordinators review the project information including location, industrial processes, and whether it's a new site or expansion. The EAC then creates a compliance report form for the project, and DEQ regulatory program staff are contacted for historical compliance information and potential permitting suggestions. The Environmental Assistance Coordinator also gather information from internal and external sources including state database searches and U.S. EPA's Enforcement and Compliance History Online database (ECHO). This information is compiled, summarized, and added to the final ECR report, which is shared with the Secretary's office for submission to N.C. Commerce.

DEACS completed 48 ECRs in FY 2023 and FY 2024. These projects will lead to the creation of more than 15,393 jobs and a total capital investment of as least \$13.8 billion.



Construction at the North Carolina Battery plant in Liberty.

TOYOTA - GREEN METALS INC.

Green Metals Inc., a wholly owned subsidiary of Toyota Tsusho America, announced a new facility location in Liberty that will create almost 50 jobs and is projected to invest more than \$198 million in the N.C. facility. This facility will support the handling and recycling processing for Toyota's EV battery manufacturing facility that will create an additional 5,000 jobs in Randolph County.

DEACS has awarded a recycling business development grant to GMI to support the purchase of recycling processing equipment for the EV and material handling operation.

"GMI will play a critical role in the EV battery ecosystem by ensuring safe and advanced waste processing, helping the company achieve its goal of 'battery-to-battery recycling' which benefits all of us."

> KEVIN FRANKLIN, PRESIDENT RANDOLPH COUNTY EDC

OPMENT

EPSILON ADVANCED MATERIALS

Electric Vehicle (EV) Material Manufacturer Epsilon Advanced Materials, Inc, a subsidiary of Indian-based Epsilon Carbon Private Limited, has announced that it will be building its first U.S. plant at the Brunswick County Industrial Park/ New Hanover Mega Site. This 1.5 million square foot facility is scheduled to break ground in 2024 and be operational by 2026. The plant will develop and manufacture "high performance" synthetic graphite for anode components that will be utilized in lithium-ion (LI) EV batteries. The project is expected to create at least 500 new jobs with a capital investment of more than \$640 million.

This project was facilitated by grant incentives through the Job Development Investment Grant (JDIG) program. DEACS staff provided project support through facilitation of a JDIG compliance evaluation, a pre-application site visit, and preliminary permitting information.

The Epsilon Advanced Materials project has been achieved through joint coordination and partnerships with N.C. DEQ, N.C. Commerce, EDPNC, the N.C. Community College System, N.C. Ports Authority, N.C. DOT, N.C. Railroad Co., Brunswick County Economic Development, among others.

SIEMENS MOBILITY

Siemens Mobility, Inc., a division of Siemens AG headquartered in Munich, Germany, has announced that it will build its first East Coast manufacturing facility in Lexington, North Carolina. The 200-acre site is scheduled to begin production in 2024 and will manufacture advanced passenger rail cars and provide revitalization services for rail coaches and locomotives. The project will create more than 500 new jobs, with an average salary of over \$51,000, while making a capital investment of more than \$200 million dollars.

Siemens Mobility is a leading provider of transport services, including mobility management, rail electrification, rolling stock, and customer services. This new Davidson County facility is planned to be carbon-neutral once completely operational and is estimated to grow the North Carolina economy by at least \$1.6 billion.

This project was facilitated by grant incentives through the Job Development Investment Grant (JDIG) program and incentives through the federal Infrastructure and Jobs Act. DEACS staff provided project support through facilitation of a JDIG compliance review and a multiagency meeting for preapplication permitting that also included representatives of NCDOT, and the U.S. Army Corps of Engineers.

The Siemens Mobility project has been achieved through joint coordination and partnerships with N.C. DEQ, N.C. Commerce, EDPNC, the N.C. Community College System, Davidson County Economic Development, Norfolk Southern, and others.

"Our manufacturing workforce and strong infrastructure will help Siemens Mobility succeed in Lexington."

> **ROY COOPER, GOVERNOR** STATE OF NORTH CAROLINA

ADVANCING CLIMA SOLUTIONS

North Carolina's carbon emission reduction legislation, Clean Energy Plan, and Executive Orders 80, 216, and 246 will transform how energy is generated and consumed in the state. The DEACS team are helping navigate the permitting process for renewable and clean energy related projects, promoting the recycling circular economy with its carbon impacts, and delivering technical assistance to organizations striving to meet their decarbonization goals.

ZERO CARBON ROAD MAPPING FOR MANUFACTURERS

Many N.C. companies are challenged with addressing greenhouse gas emission reductions objectives driven by industry standards, international regulations and corporate mandates. With EPA grant support, Waste Reduction Partners is assisting three manufacturing sectors to conduct carbon accounting and identify energy and carbon emission reduction strategies to address these very aggressive decarbonization objectives. The grant is funding graduate level internships to support automotive, textile and food & beverage manufacturers to advance carbon management skills, knowledge and resources. Thus far the project has assisted:

- Bombardier Recreational Products
- Culp Home Fashions
- Uchiyama Manufacturing
- Oiles America Corporation
- Wicked Weed Brewing
- Bridgestone Tire

The WRP team has identified cost-effective energy saving projects totaling more that \$502,000 for the above companies with the potential to cut their GHG emissions by 2,423 metric tons annually.

ASSISTING UCHIYAMA WITH CARBON REDUCTION REQUIREMENTS

In June 2023, Uchiyama America, an ESI Steward, partnered with Waste Reduction Partners, the Land of Sky Regional Council and Duke University to undertake carbon emission accounting for their Goldsboro site. The project team pursued the following action plan:

- Complete carbon accounting inventories for scope 1, 2 and 3 emissions.
- Conduct energy efficiency and renewables assessments.
- Create a road map plan to achieve target reductions.

The project created a carbon emission baseline, identified carbon reduction opportunities, created new key performance indicators for energy efficiency and addressed M2O3O automotive supplier surveys and other reporting needs. The project findings and results were presented that the 2023 ESI Annual Conference.

ATE CHANGE

ADVISING PUBLIC FACILITIES ON EMISSION REDUCTIONS

Waste Reduction Partners engineers help state and municipal facilities identify energy efficiency and renewable projects to address North Carolina's clean energy plans, Executive Order 80 and climate goals adopted by local governments. Supported by N.C. DEQ's State Energy Office, WRP has worked with several state agencies to identify cost effective projects which can save selected buildings 20 – 50 percent in energy consumption. Projects have included Department of Revenue, Education, Transportation, Health and Human Services, Adult Corrections, ABC Commision and others. WRP has assisted the City of Hendersonville, Towns of Waynesville, Brevard and Davidson with energy saving strategies which help address their own adopted greenhouse gas reduction goals.

DEDICATED SOLAR PANEL RECYCLING OPENS IN N.C.

In 2023, Powerhouse Recycling opened a dedicated solar panel recycling line in Salisbury, N.C. making it the first facility of its kind in the state and on the east coast. Specialized machinery allows for 98-100 percent pure recovery of solar panel commodities; recovering the silicon, metals, glass, plastics, and aluminum. DEACS grant funding in 2023 and 2024 is supporting the purchase of a truck to expand transportation capability and a second glass removal system to double the line's capacity.



HELPING FARMS UPGRADE EQUIPMENT WITH USDA SUPPORT

The USDA provides grant funding to farms and rural small businesses to conduct energy saving upgrades such as lighting, ventilation, HVAC, center pivot irrigation and even robotic milking for dairies. WRP provides eligible businesses on-site energy assessments which are required for the USDA energy efficiency grant applications. Since July 2022, WRP engineers have provided more than 30 on-site energy assessments to farms and small businesses across 25 counties. The assistance is projected to reduce business utility costs by \$430,900 and cut GHG emissions by 2,240 tons annually. Many of the businesses assisted have received direct USDA project funding totaling more than \$516,000 including companies such as Aegis Power Systems and Multi-Cinemas Group.

DEACS GROWTH EXPANDS BENEFITS

GRANT FUNDING INCREASES FOR COMMUNITY RECYCLING

The legislature granted DEACS an additional, one-time \$500,000 for grantmaking to local governments, to be utilized in FY 2024-25 projects. As a result, DEACS awarded nine additional local government grants than the previous grant cycle for a total of 24. Nearly 750,000 North Carolinian households are expected to benefit from these grant investments. The increased funding focuses on local government recycling programs, providing services to more residents, improving the quality of recyclable materials used by manufacturers, and reducing the volume of materials sent to shrinking landfills.

These additional grants investment are supporting new curbside recycling programs which will offer individuals the convenience of recycling at home, while grants for cart stickers and educational materials will enhance existing curbside programs by reducing contamination and increasing participation. Other grant-funded projects will focus on away-from-home recycling programs, so residents can recycle bottles, cans, and paper at parks and special events like festivals and sporting events. Several communities will receive funding to improve and expand solid waste and recycling convenience sites. These projects include creating clear and informative directional signage, with DEACS design assistance, at convenience sites as well as installing large scale equipment like stationary compactors and roll-off containers to increase recycling capacity.



New compactor and signage at a Lenoir county convenience center.

STATE INVESTMENT GROWS STAFFING AND IMPACT

During the FY 2023 budget cycle, the State Legislature allocated funding for eight new DEACS positions. This noteworthy investment in new positions underscores the relevance, impact, and strength of the work undertaken by DEACS staff members. Across the state, more communities, businesses, institutions, and individual North Carolinians will receive environmental assistance and technical support.

The Recycling and Materials Management Section (RMMS) received four of these positions, which will provide support for program development, recycling businesses, and organics recovery. The Environmental Assistance Section received three positions, which will focus on permitting assistance and pollution prevention efforts. Lastly, Waste Reduction Partners received a new position to coordinate and expand on-site assistance work in pollution prevention, clean energy, resource efficiency and waste reduction efforts for businesses and institutions statewide.

LEADERSHIP POSITION TO FOCUS ON THE CIRCULAR ECONOMY

In May 2024, DEACS proudly announced that Wendy Worley accepted the Deputy Director position. Wendy joined DEACS in 2003 and had previously served as the Recycling and Materials Management Section Chief for six years. As an expert on recycling infrastructure and markets, Wendy will lead efforts to expand the state's circular economy and foster economic development partnerships. She will also help lead the division's strategic plan implementation and performance management.

PROMOTING WATER USE EFFICIENCY

To plan for future water supply needs of North Carolina's growing population, local governments are required to produce Local Water Supply Plans and Water Shortage Response Plans for drought periods. Some municipalities implement year-round water conservation programs to promote efficient water use. DEACS supports these programs.

WRP SUPPORTS DEMAND SIDE MANAGEMENT

Many municipalities lack water conservation programs for industrial, commercial, and institutional (ICI) customers, who use nearly a third of public water supplies. Waste Reduction Partners (WRP) assesses water use in these sectors, offering guidance on reductions through repairs, best practices,

CITY OF DURHAM TEAMS UP WITH DEACS

WRP contacted Durham Water Management as they planned an incentive program for hotels to upgrade toilets. The program offers up to \$100 for each efficient toilet installed. WRP assesses and verifies existing toilets, evaluates overall water use, and provides recommendations. Durham Water Management requires a full WRP audit to qualify for the toilet cost share. Launched in 2021, the program has replaced 600 toilets, saving 742,000 gallons of water, with hotel assessments saving an additional 3,281,500 gallons and \$42,156.

BUNCOMBE COUNTY SCHOOLS PURSUE WATER EFFICIENCY

Mandy Freel, Energy & Water Manager at Buncombe County Schools, collaborates with WRP for water assessments in high water-use schools. Annually, three or four schools undergo comprehensive assessments, revealing and fixing costly problems. Examples of last year's assistance include, updating cooling tower water metering to reduce sewer fees, upgrading a middles school's restrooms with 0.5-gallon flush urinals to reduce water use by 37,620 gallons a year, and improving irrigation methods for a high school baseball field to cut costs by 50 percent. This assistance is supported by Asheville Water Resources Department, which has funded such efforts for fifteen years. upgrades, and replacements. WRP, partnering with the Land of Sky Regional Council, supports ICI outreach for Asheville and Durham. Since 2014, assessments have saved 225 million gallons of water, amounting to \$1.6 million in savings for water customers.

THE DEACS TEAM

DEACS DIRECTOR

JAMIE RAGAN

DEPUTY DIRECTOR

WENDY WORLEY

PUBLIC INFORMATION OFFICER Katherine Lucas

DEACS ADMINISTRATION

GWENDOLYN PALMER

ENVIRONMENTAL ASSISTANCE SECTION

HIRING, Section Chief LYN BILES, Permitting Assistance Supervisor MARCIA ALLOCCO, Technical Assistance

Don BURKE, Technical Assistance

YOLANDA GRAHAM-GIBSON, Environmental Stewardship Assistance

RENEE KRAMER, Environmental Stewardship Assistance

Ron PRIDGEON, Technical Assistance

TONY PENDOLA, Small Business Assistance

HIRING, Environmental Assistance Coordinator, Washington RO, SEPA

HIRING, Environmental Assistance Coordinator, Fayetteville RO

CAMERON WEAVER, Environmental Assistance Coordinator, Wilmington RO

PAUL E WILLIAMS, Environmental Coordinator, Winston-Salem RO

JESSE MCDONNELL, Environmental Coordinator, Morrisville RO

TRAVIS SMITH, Environmental Coordinator, Asheville RO **DAVID LEE**, Environmental Assistance Coordinator,

Raleigh RO

RECYCLING AND MATERIALS MANAGEMENT SECTION

HEATHER CASHWELL, Section Chief SANDY SKOLOCHENKO, Program Development Coordinator ERIC MACDONALD, Recycling Business Assistance Team Lead

MIKE GREENE, Recycling Business Assistance MARK BOETTGER, Recycling Business Assistance LAURA MCCOY, Recycling Business Assistance CHRISTINE WITTMEIER, Organics Recycling Specialist Team Lead HIRING, Organics Recycling Specialist ALEX MILLER, Community Technical Assistance Team Lead DAVID HANCE, Community Technical Assistance DELANEY KING, Community Technical Assistance HIRING, Community Technical Assistance ELISE TRAYWICK, Community Technical Assistance ALEXA CHUMPITAZ, Graphic Design (T)

WASTE REDUCTION PARTNERS

TERRY ALBRECHT, Section Chief ANGELA MOORE, Project Manager JAN HARDIN, Solid Waste Manager (LOSRC) KIM VAN NIEKERK, Energy Program Manager TOM KIMMELL, Water Program Manager IRENA RADO, Office Manager 35 WRP STATEWIDE FIELD ASSESSORS (LOSRC), Employee of Land of Sky Regional Council



Environmental Assistance Section staff photo at the Lake Wheeler in-service training

THE DEACS TEAM



Recycling and Materials Management Section staff receiving the 2024 DEQ Distinguished Team Achievement Award.

DEQ REGIONAL OFFICE (RO) OPERATIONS AND ADMINISTRATION

SECTION CHIEF EULA ALEXANDER

ASHEVILLE RO

LINDA STAMEY, Manager TANEESHA DZIOBA LORI HICKS STEPHANIE FRADY DAVE MCKAIG, (T)

FAYETTEVILLE RO

LEE COTTRELL, Manager LEHEE GOWER DEVEN WILLIAMSON

MOORESVILLE RO

ANGELA EDMONDS, Manager CATHY SHIPP DEBORAH LUCKMAN SHERIAN BLACK TRUDY MCNEIL LUZ LIA, (T)

RALEIGH RO

SANDEE ROOF, Manager BARBARA PARKER CHERYL RICHARDSON VALERIE EALEY AUDREY HUNTER, (T)

WASHINGTON RO

KERI SPARKS, Manager TABITHA FULFORD MELANIE MCROY MATT SIDES PAMELA CADE TAMMY TURNAGE, (T)

WILMINGTON RO

Patricia Hay, Manager Jan Davis Lisa Emmons Tina Burd Daisha Williams Anne Jones, (T)

WINSTON-SALEM RO

SANDRA CASTLE, Manager AURELIA BOSEMEN SHEILA MCINTOSH PAYGE JORDAN CARLOTTA WINSTEAD

(T) = Temporary Employees Staff listing as of June 30, 2024.







From top to bottom: Sandy Skolochenko receiving the 2022 Distinguished Employee Achievement Award for Significant Contribution and Eula Alexander receiving the 2022 Distinguished Employee Achievement Award for Scope of Work; DEACS staff volunteers cleaning up the Apollo Heights Park stream; DEACS staff at Green Square Headquarter's first waste sort.



The North Carolina Division of Environmental Assistance and Customer Service (DEACS) is a non-regulatory division of North Carolina DEQ offering technical and financial assistance to businesses, manufacturers, local governments, institutions, economic developers and citizens in environmental management. For questions, call 1-877-623-6748.

Cover photo is of the Blue Ridges of the Appalachian Mountains on the Blue Ridge Parkway near Asheville and Waynesville.