



## Building science and technology to support clients' goals

- 30+ Passive House projects
- 11 Zero Energy Ready projects
- 12 RESET Air Projects
- 1 WELL Building
- 1 WELL Performance Rating
- 1 Fitwell Certification
- 1 Pittsburgh Business Times Innovation Award
- 2 U.S. Patents for Innovation
- 1 Visionary Award from Urban Land Institute
- Award-winning Book, "The Power of Existing Buildings -- Save Money, Improve Health and Reduce Environmental Impacts"
- 1 Published Technical Paper, "Two Project Case Studies and the Lessons They Teach about Whole Building Envelope Air Leakage Testing" ASTM STP

"To decarbonize properly, any strategy must attack efficiency first. We use technology that bridges building science and data science to ensure decarbonization is achieved without overspending."

– Beth Eckenrode, Co-founder

CEOs *for*  
SUSTAINABILITY

**COMMITTED TO CARBON REDUCTION**



# Goal: Climate neutral by 2035

(Scope 1 and 2, base year 2020)

- 2021: Achieved its goal to reduce operational GHG emissions 50% by 2025 (base year 2005)
- 2023: Target for upstream and downstream (scope 3) emissions coming
  - Roadmap and measures to be based on transition to circular value chains
- 2030: Reduce absolute operational GHG emissions 60% (2.2 million tons)
- 2035: Climate neutral for operational GHG emissions, in alignment with the Paris Climate agreement's 1.5°C goal

*"This is a transformational endeavor, but one that's critical."  
– Haakan Jonsson, Chairman and President, Covestro LLC.*

## Goal: Carbon Neutral by 2032

- Track, analyze, monitor, and control emissions from electric, gas, and water services
- Explore renewable energy options
- Implement greenspace and other carbon reduction strategies
- Maintain and improve performance as a Gold-level TRUE Certified Zero Waste facility and KEEA energy-efficiency industry leader



“DMI looks toward the future as it embarks on reducing its environmental impact even further by becoming net neutral for CO2 emissions.”  
– Ray Yeager,  
President & CEO

# Achieving carbon neutrality by 2030 through six levers



*Powering Business Worldwide*

- 2030 goal: Reduce carbon emissions by 50%
  - As of 2021:
    - Reduced Scope 1 and 2 greenhouse gas emissions 16% since 2018
    - Reduced energy use at manufacturing sites 11% since 2018
- 2030 goal: Certify 100% of our manufacturing sites as zero waste-to-landfill
  - In 2021:
    - 94% of our manufacturing waste was diverted from landfills or traditional incineration without energy recovery
    - 65% of our sites are certified as zero waste-to-landfill
- 2030 goal: Certify 10% of our manufacturing sites as zero water discharge
  - More than halfway to goal as of 2021

“We’ve long believed that we not only have a commitment to our stakeholders, we have a broader commitment to society.”

– Craig Arnold,  
Chairman & CEO

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## Invested in clean energy

- Has generated more than 3,455,000 kWh of solar and wind energy
- Scalo Solar completed installation of 84 kW of additional solar panels
- 11 EV charging stations have displaced the burning of 19,560 gallons of gasoline.
- Combined these efforts have reduced CO2 emissions by an estimated 4,041,000 pounds.

“The wind and the sun are the answer.”

– David Landis, President



## Goal: Reduce absolute emissions 50% by 2025 (compared to 2007 baseline)

Through 2022, Koppers has reduced absolute GHG emissions 49.5% over its 2007 baseline.

“We understand the importance of operating in a safe, sustainable manner and believe that our license to operate is only as strong as our commitment to action and innovation. As climate change continues to impact our world, we remain dedicated to doing our part to improve our energy efficiency and reduce our greenhouse gas emissions.” – Leroy Ball, President & CEO

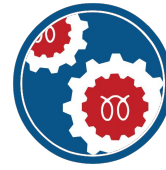
2020: Full material recycling of plastics, metals, paper, batteries, electronics and lighting

2022: Installed 324 solar panels which powers about 15% of yearly energy usage  
70% of all lighting moved to energy efficient LEDs  
All product packaging material now fully recyclable

2023: Additional solar installation planned to generate another ~20-25% of yearly energy usage  
Scope 1 & 2 measurement and targets for all North American facilities  
100% energy efficient lighting

2024: Scope 1, 2 and 3 measurement and targets for all facilities.

# Reducing fleet scope 1 carbon emissions 90%+



**OPTIMUS**  
T E C H N O L O G I E S

More than 300 medium- to heavy-duty diesel trucks have integrated Optimus' Vector System to operate on 100% biodiesel – offsetting 10 million+ pounds of carbon across business and municipal clients.

The city of Washington, D.C., and other cities and private fleets have committed to integrating the fuel system on all future heavy-duty vehicles

- Closed a \$17.8MM Series A in 2023 to scale up fleet decarbonization
- Selected for Scale for ClimateTech's cohort for tech startups addressing climate change

*"Biodiesel is ready today, it is available at scale, and the Optimus Vector System brings the benefits of biodiesel to heavy-duty fleets." – Colin Huwyler, CEO*

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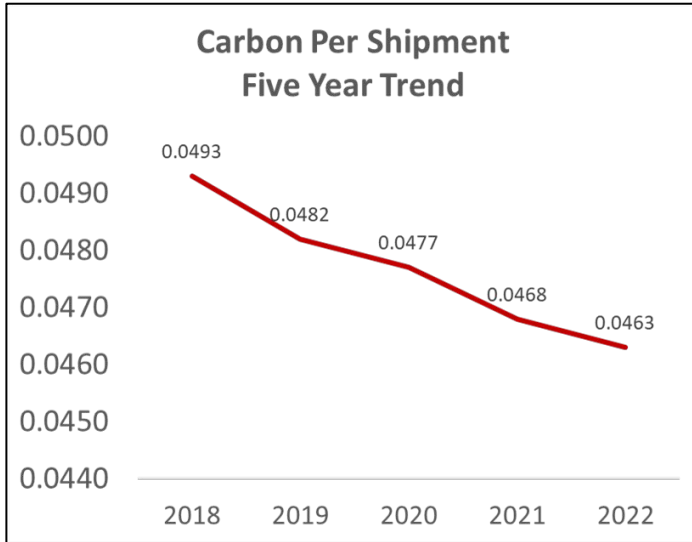
# OXFORD

## Leading with ESG to achieve responsible business goals

- Achieved Gold Sustainable Pittsburgh Workplace Designation
- Management of 3 Crossings campus using Well Health-Safety guidelines
- Modernization of parental leave policies for inclusivity
- Conducted meetings with tenants to find commonality between decarbonization goals

“Using a corporate responsibility lens, we have worked to enhance our business processes which have allowed us to create more innovative and inclusive projects and protect our planet. We are still learning, and it is my sincere hope that we continue to evolve, attract the best talent, and work every day to contribute to a better global community.”  
– Steve Guy, President and CEO

# Committed to reducing carbon footprint and providing leading-edge Scope 3 emissions reporting to customers



In 2023, we held 2 summits to hear directly from our customers on how we can partner to provide Scope 3 emission data and help decarbonize their supply chain

We are building new tools for understanding emissions when shipping freight

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## Leading clients by example

“While our footprint is small, we have an opportunity to make a tremendous impact with our clients, and this motivates us every day to make a difference.”

– Jana Lake, President

2018: GHG inventory

2019: Carbon Neutral goal

2023: Achieved Carbon Neutrality

- Purchased carbon offsets to cover 100% of scope 1 and 3 emissions.
- Purchased RECs covering 100% of electricity consumption.
- Creating a phased carbon reduction plan for scopes 1, 2, and 3.

**Handprint is 3R’s greatest impact, in helping companies define their scope 1, 2 and 3 inventories, carbon reduction and net zero targets, and climate transition roadmaps.**

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# Goal: Developing materials technology for improved efficiency and promoting



- **Key focus problem:** Only ~2% of polypropylene is recycled thus offering a huge opportunity to reduce carbon in the environment. We have been at the forefront of the development of technologies that can significantly improve the recycling of PP.

One ton of recycled PP saves ~8 tons of produced CO<sub>2</sub>.

PP Virgin/Kg	PP recycled/Kg
74.4MJ/Kg	8.9 MJ/Kg
8.9 Kg of CO <sub>2</sub>	1 Kg of CO <sub>2</sub>

“In next 10 years, our goal is to recycle 30% of PP annually, resulting in a reduction of a quarter of a billion tons of CO<sub>2</sub>.”

Batool Nulwala CEO

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## New Product Focus: Decarbonization of industrial heat using a novel, Natural Refrigerant, High Temperature Heat Pump

**Focus problem:** To shift industrial heat production away from carbon-intensive fossil fuels, using low or zero-carbon electricity, to decarbonize industrial heat. Thar Energy's High Temperature Heat Pump is being designed to efficiently convert waste heat in to process heat (e.g., air, water, steam) at temperatures up to 200°C, for the food and chemical industries.

*"Sustainable practices, like improving our energy efficiency or reducing waste, are important to our day-to-day strategies to build a more competitive company and region."*

Lalit Chordia, PhD  
Founder & President

# Net Zero Emissions in our own operations (Scope 1 and 2) by 2030 and achieve Net Zero Emissions across our supply chain (Scopes 1, 2 and 3) by 2040.

# Turner

- #1 Green Contractor according to ENR for 15th year in a row
- Announced ESG strategy in June 2023
- Tracking, monitoring, and reducing jobsite carbon emissions since 2019
- 75% of C&D waste diverted from landfill within the last year
- Analyzed and aggregated 60% of our 2022 revenue into an embodied carbon baseline
- Tracking and reporting scope 1&2 emissions
- Established an electric fleet policy

"Turner is proud to continue setting goals and leading the way for better implementation of green building and environmental practices in the building industry."

-Peter Davoren, President and CEO

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**GOAL: Build Climate Resiliency by reducing GHG emissions, decrease waste, empower employee engagement, and foster community partnerships.**

Key strategies: alternative energy sourcing, diversion of waste from landfills, EV strategic planning, community engagement, employee participation, internal and external communications

Key achievements: New sustainability leadership structure defined, establishment of the Center for Sustainability, sustainability incorporated into service lines systemwide, core sustainability teams at hospitals, Sustainability Steering Committee with executive level representation from each discipline, signed the Health and Human Services Pledge, banned Desflurane systemwide, national recognition for sustainability work in NPR, Becker's Story, and Modern Healthcare

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**UPMC**  
LIFE CHANGING MEDICINE

**UPMC HEALTH PLAN**

**UPMC has a strategic sustainability framework supported by a top to bottom and bottom to top approach with intentional alignment to service lines. The approach empowers employee engagement, internal and external communication with transparent metrics for accountability.**