



Sustainability
MGMC Summit
Bill Urban









@marketoonist.com

A small ATM room having two ACs and 4 tubelights, working 24 hours, is asking me not to print a receipt to save the environment.



#### **About Americhem**

Over 80
years of growth
and innovation in
a privately held company



Your global partner in manufacturing polymer solutions

10 manufacturing plants across
North America,
Europe, and Asia



Americhem is focused on optimizing performance, innovating solutions and earning trust. Our premium brands help solve the most unique challenges—which we approach in the pursuit of excellence, groundbreaking technology and total responsiveness. The enhanced range of industries we serve gives us the potential to realize new opportunities through cross-market innovation.



Cutting edge organization of skilled, diverse people



Over 1,200 global employees



Recognized global technology leader in the plastics industry



We have the power to transform the way your product:













#### World Headquarters

Cuyahoga Falls, OH, USA

#### Manufacturing

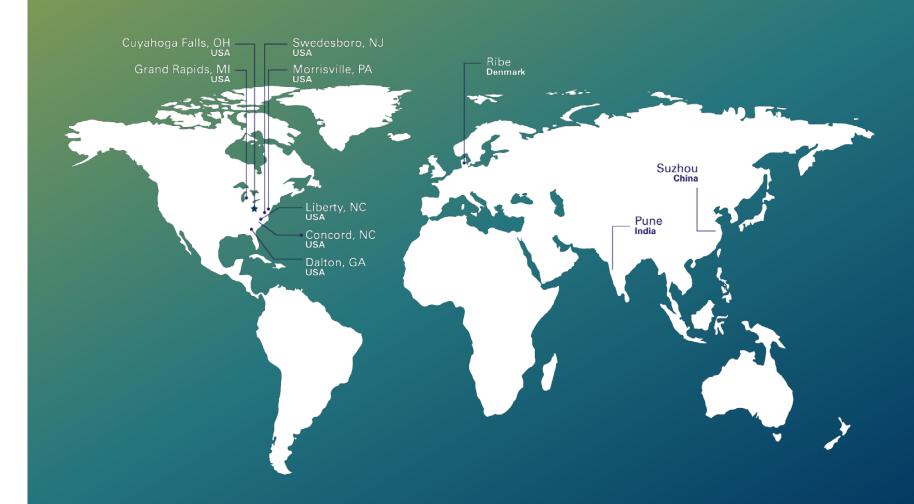
Concord, NC, USA Cuyahoga Falls, OH, USA Dalton, GA, USA Grand Rapids, MI, USA Liberty, NC, USA Morrisville, PA, USA Pune, India

Ribe, Denmark Suzhou, China

Swedesboro, NJ, USA

**❖** Sites servicing healthcare market

# LOCATIONS





# **Value Proposition**

## Americhem has the power to transform your products

#### Service

- Collaborative partnership with technical support
- Speed to respond, develop, and quote

#### **Specialization**

- Domain expertise in the highly regulated healthcare industry
- Clean manufacturing capabilities

#### Reach

- Commercial translation of products & applications globally
- Global scope with localized support

#### Quality

- Formulation and quality rigor throughout product journey
- Improved outcomes via unbiased material selection and service



# **Industry Standards**



**USP Class VI** 



ISO 10993



FDA 21 CFR



ISO 13485 (US, Europe, Asia)



**UL-94 Listings** 



Reach Compliance







# **Market Segments**

Clinical Mobility 7

Critical Care 2

Diabetes Management 3,13

Diagnostics Imaging 14

Diagnostics 8

Drug Delivery 4,6

Lifestyle 5,13

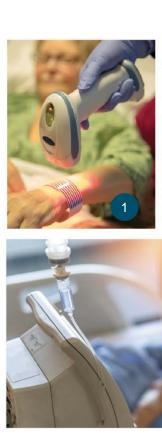
Patient Monitoring 6,11

Point of Care 1,7

Respiratory 10

Surgical 9,12

Women's Health 14

























# Sustainability





# **Americhem's Mission & Vision for Sustainability**

Sustainability on Americhem's Blueprint

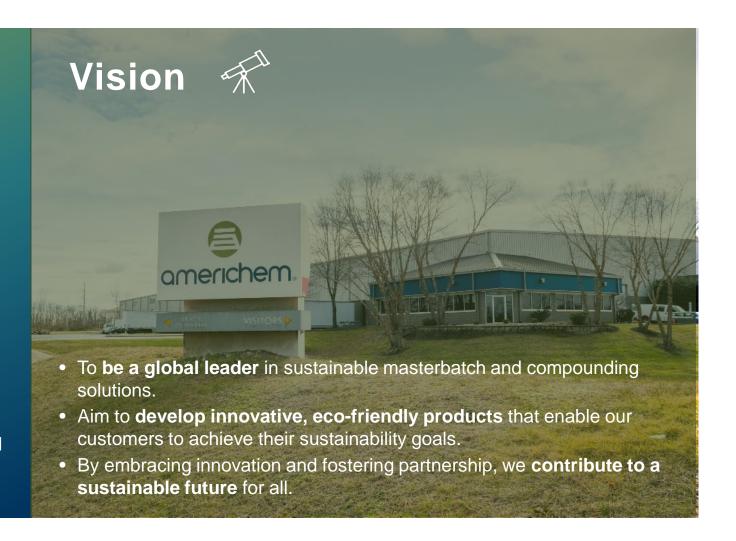
# Mission



At Americhem, we are dedicated to sustainable solutions for a better tomorrow.

We strive to

- minimize our environmental impact
- promote social responsibility
- **drive innovation** in our masterbatch and compounding solutions.

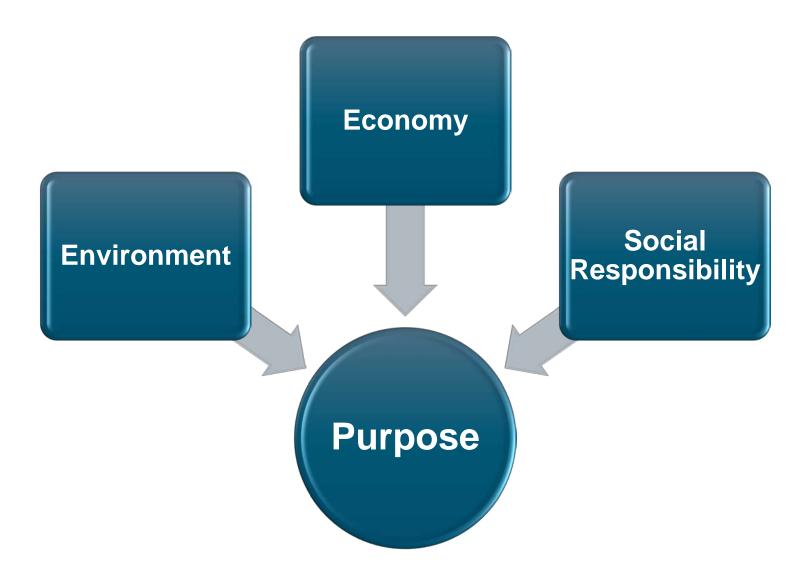


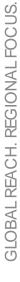


# **Sustainability Purpose**



Sharing resources and environment with future generations







# Americhem's Contributions (Answers) to SDGs



What Americhem has done through daily operation for UN SDGs?





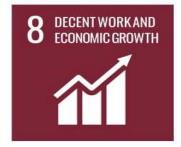


































# **Americhem's Sustainability Strategy Echoes UN Goals**



#### **Process**

At Americhem, we are committed to conducting our daily operations in a sustainable manner.

We strive to use affordable and clean energy, while minimizing our environmental impact throughout the production process.

Our focus is on consuming resources responsibly and implementing sustainable practices that contribute to reducing emissions and protecting the climate.











#### **Product**

Our extensive range of offerings contributes directly to multiple SDGs.

At Americhem, we take pride in delivering products that not only meet our customers' needs but also align with global sustainability objectives. By emphasizing the principles of reduce, recycle, and renewable, we strive to make a positive impact on the environment and society as a whole.













Americhem firmly believes that sustainable development is centered around people.

Our commitment to team building, personal growth, and social well-being aligns closely with multiple UNs' Sustainable Development Goals (SDGs)















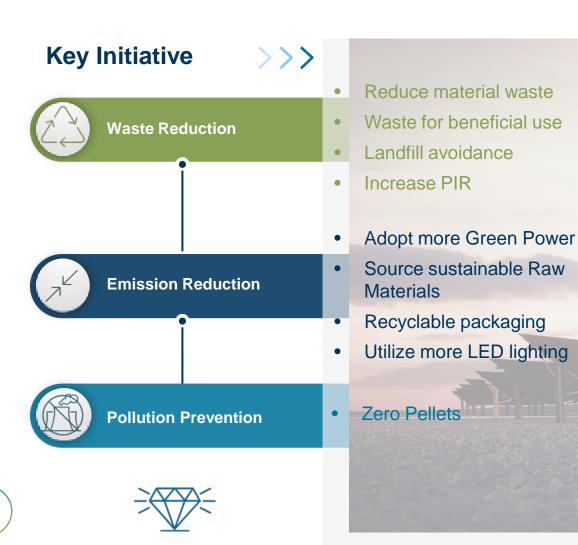








How Americhem Operates in a Sustainable way

















#### How Americhem Operates in a Sustainable way

#### **100% Adopt Green Electricity - RDK**



Americhem's Denmark plant sources green power from SEAS-NVE Danish Energy Corporation, leading to 100% electricity use generated from wind energy for production, and solar panel for office area.

Americhem is recognized as an Operation Clean Sweep member, having pledged to achieve zero resin pellet, flake, and powder loss to help keep this material out of the marine environment.

#### **OCS Pledge - Zero Resin Loss**



#### **LED Light - All Sites**



Most areas of the Americhem factories have replaced incandescent lights with LED lights for better efficiency.

#### **Package Recycling**



Americhem plants using pallets that meet the recycling requirements for reuse. Meanwhile work with client to recycle and reuse plastic drums.









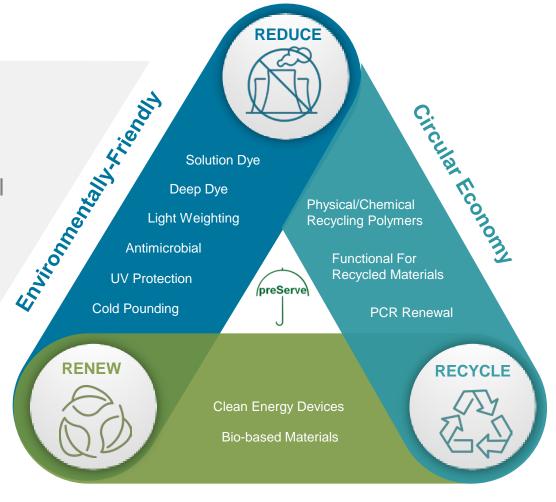


How Americhem's Products Support Sustainable Growth for the industry

Americhem's innovative solutions promote sustainable practices in the plastics industry through

- Reducing resources, emission and petro-material
- Adopting Renewable material or support renewable application
- Enabling more Recycling for bigger group of application





Renewable Resource















**REDUCE** 

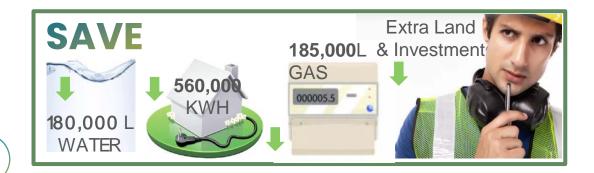
How Americhem's Products Support Sustainable Growth for the industry







Compared to post-dye, every 1000 MT solution dye automotive Carpet that Tesla purchased, could reduce 548 MT carbon emission



















#### How Americhem's Products Support Sustainable Growth for the industry

# Heat Stable Color and Functional Solution for Renewable PA

Americhem solution dye colors and functional solution for 100% Bio-based PA1010 monofilament Tynex® RS to adopt renewable resin in PA1010 filament



# **Weatherable White in Bo-PET For Renewable Energy**

Americhem's very durable, well dispersed, increased opacity, highly loaded TiO2 masterbatch performs with excellent pack thru 8-9 $\mu$ m filter at 285°C processing temperature to support solar panel applications for longer product life cycles.



# Renewable Raw Material Plant Extract for Antimicrobial

Innovative natural antimicrobial active ingredient eliminates odor and gives product lifetime protection against bacteria that can cause material degradation.



















How Americhem's Products Support Sustainable Growth for the industry







Americhem enables our customers to use more recycled content in their substrate compounds by providing the highest quality, **longest lasting cap-stocks** on the market today.

We enable our customers to test the limit of cap thickness to maximize recycle content in the substrate. We can also help with color consistency to tone recycle streams and give materials a revived, cleaner look.















#### Americhem Sustainable Product Matrix & Attribute







**Engineer Resins** Construction



**Fiber** 



Healthcare

**Industrial** 



**Packaging** 



**PVC/TPE** 

#### Sustainable **Attribute**

- Light-weighting
- Paint replacement
- Durability

- Durability
- Recycle enabler
- Thinner & Less material
- Less Petrochemical

#### Durability

- Weight Reduction
- Bio- Composition

Resource

Reduction

- Erosion Control
- Life Extension
- RPET Enabler

#### Metal Replacement

- Weight Reduction
- Durability

#### Weight Reduction

- Durability
- RPET Enabler
- Bio-composition
- · Less impact to water

#### • Light-weighting

Durability



ColorComplete™ nShield®

nDuramax®

nBalance<sup>®</sup>

InStruc™

ColorComplete<sup>™</sup>

nDuramax®

nGrain®

еСар™

ColorComplete<sup>™</sup>

nDuramax®

nShield®

xCelmax™ nBalance®

ColorComplete™ nShield®

nDuramax®

nBalance<sup>®</sup>

ColorFast®

ColorRx®

InStruc™

InLube™

InElec™

ColorComplete™

nShield®

InStruc™

nDuramax®

xCelmax™ nBalance®

nShield® xCelmax™

ColorComplete<sup>™</sup>

nBalance<sup>®</sup>

ColorComplete<sup>™</sup>

Sevrene<sup>®</sup>

Cerberon™

Uravin™

еСар™































#### How Americhem Grow as a Sustainable Group

# Safety& Health • Health and Well-being • Next Level Safety • Compliance PEOPLE Engagement • Advisory Council • Engagement Survey • D.E.I. • WIM

- EC Networking
- Young Professionals
- Weekly Leadership Message
- Support Education for Employee

Development & Communication

- Charity
- Volunteerism
- Sponsor Young Gen's sustainable project

**Society Community** 



**SLOBAL REACH. REGIONAL FOCUS.** 



# **Our Recognitions**

We always take social responsibility







# Other Considerations





### **Other Considerations**



# Conclusion

- Process | Product | People
- Line up with UN SDGs
- Socialize throughout organization
- Make it actionable





# Thank You





# Appendix





#### **Other Considerations**

# PPWR – Packaging and Packaging Waste Regulation

- Entry into force: expected Q1 2024
- Not included in the regulation: Logistics and Manufacturing
- Med Devices are also in scope (excluding secondary and tertiary packaging)
- Primary Packaging: Sales packaging e.g. injection pen "packages" the pharmaceutical drug
- Secondary Packaging: Grouped packaging
- Tertiary Packaging: Transport packaging
- Aim to get away from Single Use - can get around this but need to demonstrate the necessity for Single Use.
- Recyclability will not impact med devices directly but we're looking at a timeline of 5 years.

#### ESPR – Ecodesign for Sustainable Products Regulation

- •Entry into force: expected Q4 2023 earliest but likely Q1 2024
- •Part of EU Climate neutrality by 2050 (EU Green Deal)
- •Includes REACH, IED, WFD, PPWR, CFR
- •High priority industry: Fibers increase value retention (longer life cycle)
- •Med devices not targeted but biomedical and medical apparel are:
  - •Implantable plastics
  - Footwear
  - •Scrubs
  - •Linen

#### PFAS ban (part of REACH)

- Entry date: expected 2025
- Considers the ENTIRE value chain (no exceptions for processes)
- Transition period (see slide 19)
- 13,5 years for Medical and healthcare applications (currently exemption if already in use)
- Interplay with MDR regulation
- EU PFAS take the OECD definition, US PFAS is defined differently: US excludes Fluoropolymers.



PIR is an abbreviation for Post Industrial Recycled and is the raw material made from waste generated within the industry.

PCR is an abbreviation for Post Consumer Recycled and is the raw material made from waste from the consumer/end user.

Closed loop: recycling of a material can be done indefinitely without degradation of properties. In this case, conversion of the used product back to raw material allows repeated making of the same product over and over again.

Open loop: Open loop recycling refers to recycling a product into a different product. For example, often plastic water bottles are recycled into sleeping bags or fleece jackets. There's still a loop, with the plastic bottle going from manufacturing, to use, to recycling collection to recycling.

Net-Zero: Simply put, Net Zero means consuming only as much energy as produced, achieving a sustainable balance between water availability and demand, and eliminating solid waste sent to landfills.



# **Our Awards and Recognitions**

We always take social responsibility





