

COMPOSITES SUSTAINABILITY COUNCIL

The mission of the Composites Sustainability Council (CSC) is to nurture and expand the role of composites in sustainable development including initiatives that enable composite manufacturers to understand what sustainability means to their customers, achieve greater sustainability through best practices and recycling innovation, and conduct Life Cycle Assessment (LCA) of lightweight durable composites to grow business opportunities into a variety of markets.

Activities and Achievements:

- **Supported** the ACMA Climate Impacts Project and sustainability education.
- **Produced** a comprehensive resource list of composites recyclers in the U.S. that ACMA members can use to make the initial inquires on how to recycle their composites scrap.
- **Completed** the ACMA/IACMI Composites Recycling Project Phases 1&2 to foster the commercialization at scale and growth of recycling technologies.
- **Created** a composites recycling supply chain for composite materials and products, particularly wind blades. As part of this initiative, the CSC has provided a market study to the Electric Power Research Institute to explore options together for wind blade recycling.
- **Provided** direction, content, and organized the 2018 and 2020 ACMA Composites Recycling Conference that attracted experts and industry professionals from the U.S., Europe, and Asia.
- **Collected** raw industry data on the most common composites materials and processes that was converted into Life Cycle Inventory (LCI) data and populated the US Life Cycle Inventory (LCI) database. This project laid the foundation to allow composites manufactures to conduct LCA of their products to quantify the sustainability of their products and compare them to completing materials.
- **Created** an industry reference library on LCA studies for the composites industry.
- **Established** the Global Composites Sustainability Coalition that provides leadership through global cooperation to share practices and projects to improve the sustainability of composites.

Current and Future Projects:

- **Education:** Produce a comprehensive resource list of composites recyclers in Europe that ACMA members can use to make the initial inquires on how to recycle their composites scrap.
- **Training:** Frame and develop industry LCA to support PCR and EPD for common composite products
- **Marketing:** Create educational materials for the composites industry to make public the recycling initiative of composites at scale.
- **Standards:** Support other CGI committees in standard and specification development to characterize sustainability and recycling of composites for those standards.
- **Outreach:** Engage with Global Trade Associations to coordinate activities and target end-user industries to inform, educate, and implement composite recycling programs.

For more information or to join this committee, contact the Composites Growth Initiative Department at cgi@acmanet.org.

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ACMA
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MEMBERSHIP

Manufacturers:

- ✓ Avient
- ✓ Bradley Corporation
- ✓ Brand FX Body Company
- ✓ Core Molding Technologies Inc.
- ✓ Deceuninck North America
- ✓ Gordon Development, LLC
- ✓ Insituform Technologies, Inc.
- ✓ Kreysler & Associates, Inc.
- ✓ LyondellBasell
- ✓ Marshall Composite Technologies, LLC
- ✓ Marvin Composites LLC
- ✓ McClarin Composites
- ✓ Molded Fiber Glass Companies
- ✓ Shawcor
- ✓ Teijin Automotive Technologies
- ✓ Vartega

Academics:

- ✓ Cegep Saint-Jerome
- ✓ Clemson Composites Center
- ✓ Kansas State University
- ✓ Kansas Polymer Research Center
- ✓ Michigan State University
- ✓ Roane State Community College
- ✓ Skagit Valley College Marine Technology Center
- ✓ University of Alabama at Birmingham
- ✓ University of Delaware - CCM
- ✓ University Of Massachusetts Lowell
- ✓ University Of Miami; Civil, Architectural, & Environmental Engineering
- ✓ University of Tennessee Knoxville

Suppliers and Distributors:

- ✓ AOC
- ✓ Arkema
- ✓ BGF Industries, Inc.
- ✓ Brown's Milling & Industrial Supply
- ✓ Composites One, LLC
- ✓ Covestro LLC
- ✓ INEOS Composites
- ✓ Interplastic Corporation
- ✓ IPCO US, LLC
- ✓ Johns Manville
- ✓ Jushi Canada Fiberglass Co. Ltd.
- ✓ Nippon Electric Glass Co., Ltd.
- ✓ Owens Corning
- ✓ Polynt Reichhold
- ✓ Scott Bader
- ✓ SGL Carbon Fibers, LLC
- ✓ Teijin Automotive Technologies
- ✓ Toray Composite Materials America, Inc.
- ✓ United Initiators, Inc.
- ✓ Zoltek Coporation

Consultants/Associations:

- ✓ Benchmark International LLC
- ✓ Composites Association of New Zealand (CANZ)
- ✓ Environmental Compliance & Risk Management, Inc.
- ✓ FX Consulting LLC
- ✓ Lucintel
- ✓ Rhode Island Marine Trade Association
- ✓ Sustainable Composites