

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 CIRCLE Project sustainability activities, education, and conference programming. This included supporting all projects under CIRCLE including, LCI data generation, LCA study materials, PCR standards development and the EPDgenerator.
- **Produced** a comprehensive resource list of composites recyclers in the U.S. that ACMA members can use to make the initial inquiries on how to recycle their composites scrap.
- **Completed** the ACMA / IACMI Composites Recycling Project to study, commercialize the scale-up, and growth of recycling technologies.
- **Established** the Global Composites Sustainability Coalition, a global committee of organizations that provides leadership through cooperation, shared practices, and projects to improve the sustainability of composites.
- **Created** a composite recycling supply chain for composite materials, particularly wind blades. As part of this initiative, the CSC provided a market study to the Electric Power Research Institute (EPRI) to explore options for wind blade recycling.
- **Provided** direction and content past ACMA Composites Recycling Conferences that attracted global experts and industry professionals.
- **Collected** raw industry data on the most common composites materials and processes that were converted into Life Cycle Inventory (LCI) data and populated the Life Cycle Inventory (LCI) database and laid the foundation to allow composites manufacturers to conduct LCA of their products to quantify the sustainability of their products and compare them to competing materials.
- **Supported** the creation of an industry reference library on LCA studies for composites.
- **Supported** ACMA's Climate Impact Reduction through Composites Lifecycle Evaluation (CIRCLE) program to proactively address sustainability needs and demands of the construction and infrastructure industry with the performance of composites. The aim of the LCA+EPD Program is to standardize the format of LCA information and develop EPD based on the requirements of ISO 14025 and Product Category Rules (PCR).

Current and Future Projects:

- **Education:** Support the development of educational materials for the composites industry helping composites manufacturers to reduce their climate impacts and educate their customers about the climate benefits of using composite products.
- **Standards:** Support other CGI committees in standard and specification development to characterize sustainability and recycling of composites for those standards including development of PCR and EPD for products.
- **Outreach:** Engage with global trade associations to coordinate activities to inform, educate, and implement composite recycling programs.

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

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AMERICAN | COMPOSITES | MANUFACTURERS | ASSOCIATION

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ACMA
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MEMBERSHIP

Manufacturers:

- ✓ Avient
- ✓ Core Molding Technologies Inc.
- ✓ Deceuninck North America
- ✓ Envirow, LLC
- ✓ Gordon Development, LLC
- ✓ Insituform Technologies, Inc.
- ✓ Kreysler & Associates, Inc.
- ✓ Mar-Bal, Inc.
- ✓ Marshall Composite Technologies, LLC
- ✓ Marvin Composites LLC
- ✓ Material6 Building Composites
- ✓ McClarin Composites
- ✓ Molded Fiber Glass Companies
- ✓ Teijin Automotive Technologies
- ✓ Vartega
- ✓ Xerxes Corporation

Academics:

- ✓ Blade Repair Academy
- ✓ Cegep Saint-Jerome
- ✓ Clemson Composites Center
- ✓ Kansas State University – Salina Campus
- ✓ Mississippi State University Advanced Composites Institute
- ✓ Purdue University
- ✓ 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, Inc.
- ✓ Blue Wind Technology
- ✓ Composites One, LLC
- ✓ Covestro LLC
- ✓ Environmental Living Industries
- ✓ Endeavor Composites
- ✓ Fairmat
- ✓ INEOS Composites
- ✓ Interplastic Corporation
- ✓ IPCO US, LLC
- ✓ Johns Manville
- ✓ Jushi Canada Fiberglass Co., Ltd.
- ✓ Owens Corning
- ✓ Polynt Reichhold
- ✓ Pro-set, Inc.
- ✓ RTM North LTD
- ✓ Scott Bader
- ✓ SGL Carbon Fibers, LLC
- ✓ Toray Composite Materials America, Inc.
- ✓ United Initiators, Inc.
- ✓ Zoltek Corporation

Consultants/Associations:

- ✓ Benchmark International LLC
- ✓ Compeng Composite Solutions (OPC)
- ✓ Composites Association of New Zealand (CANZ)
- ✓ Environmental Compliance & Risk Mgmt. Inc.
- ✓ Frost Engineering & Consultants
- ✓ FX Consulting LLC
- ✓ Lucintel
- ✓ Partners Environmental Consulting
- ✓ Rhode Island Marine Trade Association
- ✓ RMK Industries Association
- ✓ Sustainable Composites
- ✓ Toden Industries