

FOR IMMEDIATE RELEASE

Shape and Hydro Bring Post-Consumer Recycled Aluminum into Structural Automotive Production for General Motors EV

Michigan-based circular supply chain turns end-of-life aluminum into safety-critical vehicle structure.

GRAND HAVEN, MI AND CASSOPOLIS, MI, August 5, 2026 — Shape Corp., a global Tier 1 supplier of lightweight structural systems, and Hydro have brought aluminum made with 75% post-consumer recycled scrap into production in a structural front bumper beam for General Motors' Cadillac OPTIQ. The project demonstrates how aluminum recovered from end-of-life products can be engineered into safety-critical vehicle structures at production scale — an important step forward for circular material use in the automotive industry.

"This work shows what is possible when material innovation and engineering come together in a real vehicle application," said Mark White, President and CEO, Shape Corp. "Finding structural applications for post-consumer scrap is one of the biggest opportunities — and challenges — in reducing the carbon footprint of our industry. Projects like this support Shape's commitment to reducing emissions and moving toward our goal of carbon neutrality, while continuing to deliver the safety and performance our customers expect."



The front bumper beam is a crash-management component located behind the visible bumper cover that absorbs and distributes impact energy in a collision, helping protect passengers, pedestrians, and critical vehicle systems. Successfully using post-consumer recycled aluminum in this type of safety-critical structure demonstrates that end-of-life material can be engineered to meet demanding automotive performance requirements.

Hydro CIRCAL is produced using aluminum recovered from end-of-life products such as vehicles, buildings, and electrical cables. The material is independently verified on a batch-by-batch basis by DNV, a global assurance and risk-management organization, to contain at least 75% post-consumer scrap, providing traceability and documentation to support customer sustainability and material transparency reporting. Hydro CIRCAL is estimated to deliver a 70% reduction in CO₂ emissions compared with the North American average for aluminum, based on Scope 1, 2, and 3 emissions.

SHAPE CORP.

1900 Hayes Street | Grand Haven, MI 49417 | USA | p. 616.846.8700
www.shapecorp.com | communications@shapecorp.com

USA | Mexico | Czech Republic | China | Japan | India | Germany | France

A Michigan-based circular supply chain supports this effort. Aluminum scrap collected in North America is recycled by Hydro in Cassopolis, Michigan, and then formed into components that Shape engineers and then assembles into the front bumper system for the Cadillac OPTIQ platform.

“Michigan built the automotive industry, and today it is helping build what comes next,” said Duncan Pitchford, President, Hydro Aluminum Metals USA. “By recycling aluminum in the U.S. and supplying it for programs like the Cadillac OPTIQ, we keep valuable material in the domestic supply chain and turn old aluminum into new vehicle structures.”

This project marks the first time Shape has brought Hydro CIRCAL into series production for a safety-critical structural automotive application and reflects the company’s continued investment in advanced aluminum extrusion, forming, and joining technologies used to produce lightweight structural systems for vehicles.

About Shape Corp.

Shape Corp. is a global leader in multi-material automotive impact energy management systems and lightweight body structures utilizing advanced high-strength steel roll forming, tight-tolerance aluminum extrusions, and large-tonnage injection molding. Founded in 1974, the company employs more than 4,000 team members across 20 facilities worldwide, serving customers in North America, Europe, and Asia. Shape has pledged to reduce its global carbon emissions by 30% by 2030 and to achieve carbon neutrality by 2035. For more information, visit shapecorp.com.

About Hydro CIRCAL

Hydro CIRCAL® is Hydro’s recycled aluminium product line containing a minimum 75% post-consumer scrap with third-party (DNV) verification for recycled content and carbon footprint. Each batch carries verified documentation to support customer traceability and reporting. In North America, Hydro produces Hydro CIRCAL at its U.S. recycling operations, including Cassopolis, Michigan.

Media Contact:

Shape Corp.

Sydney Owen
Global Communications Manager
owens@shapecorp.com
586.413.4112

SHAPE CORP.

1900 Hayes Street | Grand Haven, MI 49417 | USA | p. 616.846.8700
www.shapecorp.com | communications@shapecorp.com

USA | Mexico | Czech Republic | China | Japan | India | Germany | France