



Environment – Our Products' Environmental Attributes

Overview

Improving our customers' environmental footprint is a key attribute of the products we design and produce in both our business segments. Weight savings that drive fuel efficiency and GHG reduction are essential for aircraft producers and this need has driven the increased use of composite structures in aircraft of all types. Albany has led the introduction of new process technologies that enable additional weight savings in certain aerospace applications. Within the machine clothing business, our products are designed to help improve energy efficiency and make the best use of the natural resources used to make all grades of pulp and paper products.

Key Initiatives

Engineered Composite Solutions

While there are commercial aircraft that are commonly described as "all composite" flying today, the fact is that there remain significant metallic structural components in even the most-recently designed commercial and civil aircraft. Albany's proprietary 3D woven composite technology is a commercially-proven lighter-weight solution for some of the most demanding applications in both today's most-advanced airliners and the next generation of commercial and military platforms. In addition to our proprietary composite technologies, we employ traditional laminated composites to produce a wide variety of lightweight structural solutions for commercial and military platforms.

Examples include:

- Our proprietary 3D composites help make the CFM International LEAP turbo-fan engine – currently in use on both the Boeing 737MAX family and the Airbus A320neo family – significantly lighter, durable, and more fuel efficient, helping make LEAP the powerplant of choice for airlines around the globe and the most popular commercial aircraft engine in production today.
- Our composite structures on the Sikorsky CH-53K heavy-lift helicopter for the United States Marine Corps improve fuel efficiency (achieved by significant weight savings vs. prior generation materials) and extend the range of that aircraft.

Paper Machine Clothing Products

Our paper machine clothing products enable our customers to minimize their environmental footprint by reducing energy consumption, improving resource efficiency, and helping maintain and improve water quality, while producing products from wood fiber, which is itself a renewable natural resource.

Today, our paper machine clothing products:

- Improve the efficient utilization of wood fiber used in the production of all grades of paper (the greatest cost component of paper making)

- Improve the energy efficiency of paper machines, decreasing energy consumption and, therefore, reducing GHG emissions
- Extend product life, ultimately reducing waste

Future Product Innovations

Looking ahead, we continue to develop and bring to market innovative products aimed at improving the energy efficiency, resource and utilization of our customers' products and production processes.

Engineered Composite innovation areas include:

- Expand 3D Composites' promise of furthering aircraft fuel efficiency including participation in the Airbus Wing of Tomorrow program, a next-generation wing development effort
- R&D efforts targeting recyclable thermoplastic structures

Machine Clothing proprietary product development efforts include:

- Furthering the production of lightweight packaging with the same strength (reduced basis weight without performance reduction), resulting in less energy being required to transport products throughout the supply chain and more efficient utilization of wood fiber
- Technologies to reduce energy consumption of paper machines, reducing load demands by 10 to 15%
- Technologies that reduce belt contamination, resulting in fewer wash-ups and lower water consumption
- Technologies deployed to improve drying efficiency, thereby improving the energy efficiency of the papermaking process

SASB Fuel Economy & Emissions In-Use Phase Disclosures:

Albany International is categorized in the Industrial Machinery & Goods industry under the SASB's Sustainable Industry Classification System® (SICS®) and discloses information and data to that standard. Given the company's significant aerospace composites business, the company has elected to supplement its disclosure by reporting certain relevant Sustainability Disclosure Topics and Accounting Metrics contained in the SASB Aerospace & Defense standard. The reporting boundaries for the disclosure metrics below include all parent and consolidated subordinate entities of Albany International Corp.

FUEL ECONOMY & EMISSIONS IN-USE PHASE

SASB CODE	ACCOUNTING METRIC	CATEGORY	UNIT OR MEASURE	DISCLOSURE
RT-IG-410a.1	Sales-weighted fleet fuel efficiency	Quantitative	Gallons per 1,000-ton-miles	Not applicable for our products. For a discussion of the fuel/energy consumption considerations that our products are designed to help address please see the discussion above.
RT-IG-410a.2	Sales-weighted fleet fuel efficiency for non-road equipment	Quantitative	Gallons per hour	
RT-IG-410a.3	Sales-weighted fleet fuel efficiency for stationary generators	Quantitative	Watts per gallon	
RT-IG-410a.4	Sales-weighted emissions of: (1) nitrogen oxides (NOx) and (2) particulate matter (PM) for: (a) marine diesel engines, (b) locomotive diesel engines, (c) on-road medium- and heavy-duty engines, and (d) other non-road diesel engines	Quantitative	Grams per kilowatt-hour	