

CASE STUDY

Magellan
Engagement



3,500
Employees
Worldwide

25%
GHG Reduction

1,500
Employees in
Canada

“Magellan Aerospace practices corporate environmental stewardship and showcases exceptional practices by setting clear corporate environmental objectives and making informed choices for the environment.”

“The continuous improvement programs have given rise to several environmental benefits such as a reduction in waste scrap and raw material usage, lower demand for productions associated energy requirements, and the manufacture of lighter products.”

ENGAGEMENT

Magellan, a Canadian manufacturer of aerospace systems and components, has over 80 years of experience in the aerospace industry. It designs, engineers and manufactures aeroengine and aerostructure components for the civil aerospace and defense market as well as industrial power applications for aerospace engine technology. Magellan currently operates in Canada, the United States and the United Kingdom, with approximately 3,500 employees globally and 1,500 within Canada.

Corporate Governance

Magellan Aerospace practices corporate environmental stewardship and showcases exceptional practices by setting clear corporate environmental objectives and making informed choices for the environment. Since it was approved in 2009, Magellan’s corporate environmental policy has helped to ensure all divisions work to the same

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Magellan Engagement

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level and take a standard approach. Some of Magellan’s environmental actions include implementing the ISO 14001 international standard for environmental management, committing to pollution prevention and establishing an environmental committee and council. Magellan’s Environmental Council promotes collaboration between divisions, provides structure to regulate environmental improvement efforts and effectively apply Magellan’s knowledge base. Through a forum lead by the council, innovative ideas in dealing with waste and potential cost savings have been achieved.

Employee Engagement

Aircraft makers today are looking at ways to lessen their environmental impact and fuel usage by evaluating aircraft design, manufacture and end-of-life impacts. Magellan recognizes its role and has effectively engaged its employees and suppliers in this effort through its improvement programs. These programs include the Lean six-sigma method, the 5S Program and the Accelerated Improvement Workshop. The lean-six Sigma method seeks to improve the quality of process outputs by identifying and removing the causes of defects as well as minimizing variability. This results in the ability to decrease waste generation and improve the

corporation’s energy efficiency. The 5S Program uses five stages, sort, set in order, shine, standardize and sustain the system, to help simplify the work environment, reduce workplace waste, optimize productivity and eliminate activities that provide no value, while improving quality efficiency and safety. Finally, the Accelerated Improvement Workshops bring employees from various Magellan divisions to work together as a team and tackle specific problems in an area on the shop floor.

These continuous improvement programs have given rise to several environmental benefits such as a reduction in waste scrap and raw material usage, lower demand for productions associated energy requirements, and the manufacture of lighter products. To date there has been a 25% reduction in the Magellan carbon footprint.

Magellan continues to recognize that gains can be made in the aerospace industry and that they have a role in reducing material use, energy use, water use, and waste generation. Through their programs and policies, Magellan has effectively set corporate environmental objectives and engaged their employees and supply chain in their efforts to lessen their environmental impact.