
Sustainable Manufacturing Practices

Earth Friendly Products



Introduction

For the purposes of the U.S. Department of Commerce’s Sustainable Manufacturing Initiative, sustainable manufacturing is defined as the creation of manufactured products that use processes that minimize negative environmental impacts; conserve energy and natural resources; are safe for employees, communities, and consumers; and are economically sound. Earth Friendly Products integrates practices that reduce the environmental impacts of the manufacturing of products. This goal is achieved by including closed loop and industrial ecology processes, internal recycling of waste, elimination of waste and emissions, water conservation, and energy efficiency practices.

The Sustainable Manufacturing Program has focused on the areas of eco-efficiency improvements of manufacturing systems. The key focus of sustainable practice involve the evaluation of current manufacturing processes to reduce energy, water consumption, greenhouse gas emissions, and the redesigning of products and services to be environmentally friendly. In order to conserve natural resources, Earth Friendly Products is committed to implementing the manufacturing processes that are efficient in use of energy, water, and materials. When energy efficiency is factored into operations it reduces greenhouse gas emissions while increasing production at the same time. Earth Friendly Products is committed to overcome a number of challenges, such as improving efficiencies, reducing costs, improving quality, improving safety management, and improving shop floor training. Earth Friendly Products staff and employees who manufacture the products benefit from their work and their labor is not exploited.

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Implementing Sustainable Manufacturing Practices

Eliminate Waste: Earth Friendly Products is aiming for zero waste – to eliminate, not just reduce, wastage of materials in production, use of products and closing the loop. Reclaim products and used items after their useful life. Earth Friendly Products implements the fourth “R” in their sustainability programs (reduce, reuse, recycle, rethink).

Reduce and Redesign: Earth Friendly Products always finds ways to redesign its products, including packaging that uses less materials.

Alternative Energy Use: Earth Friendly Products has installed solar panel to use renewable energy as a substitute for fossil-based energy sources and to reduce greenhouse gases (GHG).

Efficient Transportation: Earth Friendly Products is the only green primary manufacturing company. We are a one-link supply chain and control the entire process, with plants strategically located in five geographic locations. We lower GHG emissions due to the reduction of delivery distances. We purchase raw materials and packaging from local businesses. This practice boosts each local economy, controls the manufacturing cost and reduces our carbon footprint. Earth Friendly Products has a preference for using trains as a mode of transportation to cut down on GHG emissions.

Life Cycle Assessment (LCA)

Earth Friendly Products runs a Life Cycle Assessment (LCA) study on the environmental impact of all products and services throughout their life spans. The LCA study provides our organization with a methodology to evaluate and quantify the impact of a product throughout all life-cycle phases and then



makes decisions on how to reduce the impacts in each life cycle phase to optimize the environmental performance of the product.

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