

advancement towards **Sustainable Manufacturing**



**Business
Strategy
Policy
Jobs**

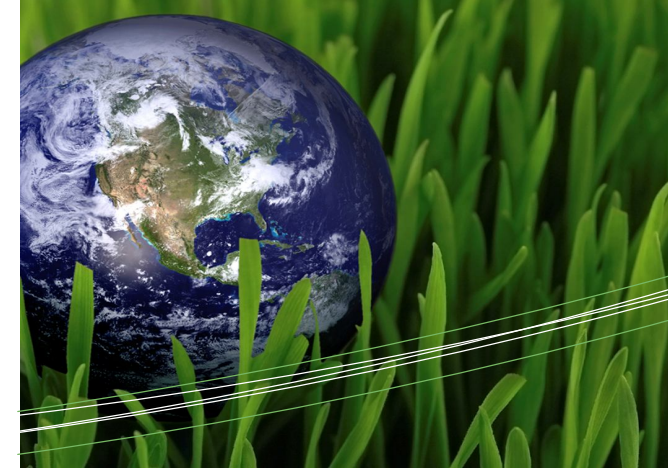
**Save Money, Jobs and
the Environment**



We have worked collaboratively since 1989 with key leaders of industry, education, labor, and government to shape public policies and industry initiatives to make U.S. manufacturing globally competitive. We convene our members and other key stakeholders to identify, research, formulate and communicate proposals in a non-partisan, non-lobbying environment. Members include small, medium and large manufacturing firms, associations, universities and community colleges, members of Congress and their staffs, federal agencies, etc.

Our goal is to provide leadership and services to help U.S. industry to achieve higher levels of productivity, innovation and competitiveness. Our scope includes:

- Sustainable Manufacturing
- Supply Network Relationships
- Process Technology & Innovation
- Manufacturing Education & Training



NACFAM

**Sustainable Manufacturing
Council (SMC)**

The Goal of the SMC:

Advance U.S. manufacturers toward sustainable manufacturing by helping them close resource and supply chain loops, drive through efficiency into industrial ecology, develop objective research-based policy recommendations, and create business opportunities within the sustainable manufacturing paradigm.

The SMC addresses topics determined by our membership and current issues, such as:

- Sustainable Manufacturing of any product
- Manufacturing of "sustainable" products (e.g., renewable energy, energy efficiency products, etc.)
- Manufacturing of products for end-of-life management
- Green Jobs in Manufacturing
- Life Cycle Sustainable Manufacturing Concepts & Models
- Regional Sustainable Manufacturing
- Sustainable Supply Chains
- And more

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What Is Sustainable Manufacturing?

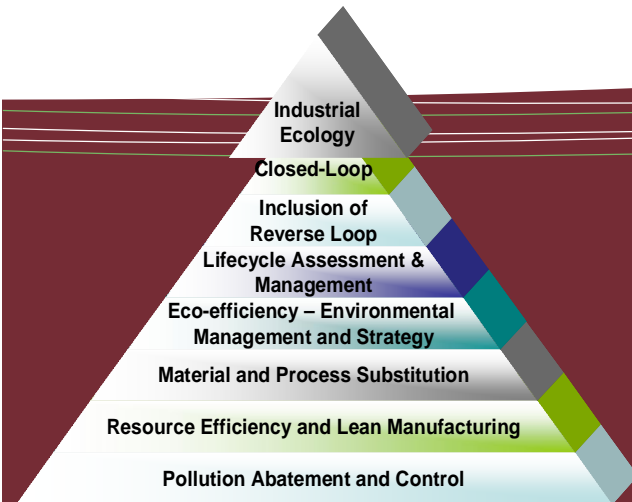


The U.S. Department of Commerce defines Sustainable Manufacturing as “the creation of manufactured products that use processes that are non-polluting, conserve energy and natural resources, and are economically sound and safe for employees, communities, and consumers.”

NACFAM builds off the concept of the triple bottom line (developed by John Elkington), which incorporates financial profitability, environmental integrity and social equity into a comprehensive framework to help companies analyze current processes, innovate, identify new sources of revenue and cost reduction, and more.

One of the goals of advancing toward sustainable manufacturing is to drive through efficiency and up into industrial ecology as illustrated in the diagram below:

(inspired by multiple sources)



Sustainable Manufacturing Increases Efficiency and Reduces Costs

Reduce Environmental Compliance & Pollution Reduction Costs

U.S. companies violating environmental laws will spend almost \$12 Billion on pollution reduction measures. Sustainable Manufacturing initiatives can lower and eliminate compliance costs through more systems– and life cycle-based analyses.



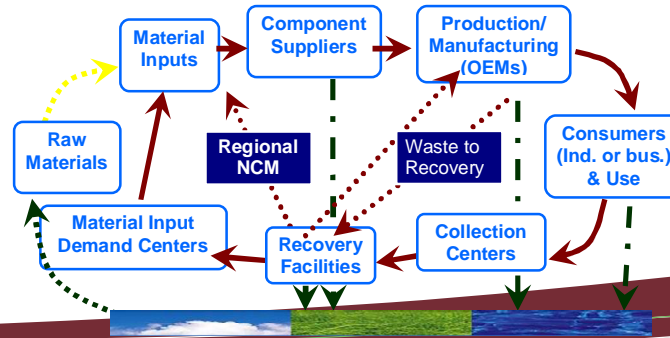
Reduce Operations & Maintenance Costs

Some companies have seen as much as a 300% return on investment from their green initiatives.



Reduce Costs & Improve Supplier Relationships

Network Centric Manufacturing (NCM) principles help supply chains or other companies within a region close resource loops, reduce waste disposal and material input costs, produce new revenue generating opportunities, and create new “greener” jobs.



Increase Efficiencies & Decrease Resource Inputs

New management strategies can reduce chemical use by more than 30% with quick paybacks and high cost savings.



Companies Recognized for Sustainability Outperform Their Peers

An AT Kearney study showed that industrial goods & services companies recognized as sustainability-focused outperformed their competitors by 15% over 3 months and 23% over 6 months.



Benefits of the Sustainable Manufacturing Council (SMC)

How Does NACFAM Help Discover Ways to Reduce Costs and Increase Revenues, Efficiency & Speed?

1. Facilitates communication, collaboration and partnership among industry, education, labor and government 
2. NACFAM performs sustainable manufacturing projects as a service for each of our Advancement Members
3. Development and continuous enhancement of NACFAM's **Sustainability Framework Model** for use by our Advancement Members 
4. Continuous interaction with other SMC members, learning & sharing of best practices, ongoing support for sustainable manufacturing-related questions, etc.
5. Ongoing deliverable-based working groups on issues such as Green Jobs, Energy Efficiency, Water Use Reduction, Dematerialization, and many others as determined by Council members. 
6. Newsletters with information related to sustainable manufacturing issues

How does my organization join?

NACFAM's SMC membership is open to all stakeholders; including, but not limited to, manufacturing companies, educational and training institutions, labor organizations, government entities, economic development entities, etc. Your organization can get involved by becoming an Advancement Member, Founding Member or Charter Member of the SMC or through membership in the Advanced Manufacturing Leadership Forum (AMLF).

See website for details: www.nacfam.org