

# Energy Environment & Economy =

## Where are you on the road to Sustainability?

### What are your answers to the following questions?

- Have your material costs increased?
- Are utility cost increases effecting your bottom line?
- Are you part of a supply chain demanding reductions in GHG?
- Do you know what your carbon footprint is?
- Have you conducted an energy audit of your facility?
- Are you a "Green" company?

The **Manufacturing Technology Center (MTC)** or **GENEDGE** can help you answer these questions and more.

### What is Sustainability?

The most popular definition of sustainability can be traced to a 1987 United Nations conference. It defined sustainable developments as those that ***"meet present needs without compromising the ability of future generations to meet their needs."***

As applied to business, sustainability principles focus around the triple bottom line of social, environmental and economic performance:

**Social** - Your communities, employees, and customers expect healthy, comfortable, safe environments.

**Environmental** - There is increased focus on reducing carbon footprints and being good stewards of the environment.

**Economic** - You're being asked to deliver all of the above and more with a budget that has never been tighter.

### What is E3?

Modeled after the Green Suppliers Network, E3 is a coordinated federal and local technical assistance initiative to help manufacturers adapt and thrive in a new business era focused on sustainability. The program provides technical assessments of production processes and training in four key areas:

- Lean
- Clean
- Energy
- Greenhouse Gas Emissions

Depending on the processes of a company, either large or small, the assessments and training target opportunities to:

- Maximize energy efficiency
  - Reduce environmental wastes
  - Identify opportunities for reducing carbon emissions
  - Promote sustainable manufacturing practices and growth
  - Reduce business costs

### Goals

- Make manufacturing plants more energy efficient and cost effective by offering technical assessments, advice, and support.
- Reduce the environmental impact of manufacturing plants through green manufacturing practices and improvements.
- Improve the regional economy by retaining jobs in more competitive companies and positioning them for growth and job creation in emerging green industries.
- Create incumbent workers certified in a variety of 'green' skills.
- Assist manufacturers to grow and succeed in a sustainable business environment.
- Reduce overall carbon emissions by decreasing energy consumption and increasing energy efficiency of facilities.

### What do manufacturers receive?

- A **Lean Review** that leads to increased productivity and reduced costs.
- An **Energy Audit** that provides tools and insights for reducing energy demand and costs.
- **Environmental Regulatory Compliance Training** is included in the assessment.
- A **Clean Review** that results in water and energy conservation, reduced emissions, and additional cost savings.
- **Post-Assessment Recommendations** that guide each facility toward improvements in overall efficiency, reduced waste, more efficient use of resources including energy and water, and cost savings.
- **Confidentiality** - Results of the assessment are shared only with the client. No violations of any kind are reported.



### What do I do next?

Manufacturers in Virginia should contact the **MTC** or **GENEDGE** to set up a site visit and begin your sustainability evaluation process.

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