



## Maryland Green Registry MEMBER

The Maryland Green Registry promotes and recognizes sustainable practices at organizations of all types and sizes. Members agree to share at least five environmental practices and one measurable result while striving to continually improve their environmental performance.

# Cambridge International

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[www.cambridge-intl.com](http://www.cambridge-intl.com)

[www.cambridgearchitectural.com](http://www.cambridgearchitectural.com)

[www.cambridgeenvirotech.com](http://www.cambridgeenvirotech.com)

Manufacturing

Member since August 2011

## Management And Leadership



### **Environmental Policy Statement**

*Cambridge International is situated in the heart of the world's largest estuary, the Chesapeake Bay. The bountiful rewards we receive from our back yards include abundant plant life, animal life, birds, fish, and shellfish that don't occur in such abundance anywhere else on the planet.*

*As a manufacturing plant, fortunate enough to be situated in such an area, we all have a responsibility to maintain this fragile ecosystem. To ensure this environment is protected for all to enjoy, Cambridge International follows several guidelines to guarantee its safety.*

*We are committed to monitoring our usage of goods, waste and energy while working towards sustainable goals to reduce our carbon footprint.*



### **Environmental Team**

*The Cambridge Environmental team is composed of Bob Maine, General Manager, Heather Hillert, Director of Human Resources, responsible for employee environmental education, Paul Maloney, Supply Chain Director, responsible for purchasing of metals and raw materials, Dion Banks, Director of Governmental Affairs, responsible for regulations and policy, Mike Truitt, Director of Sales & Business Development, Max Keeling, Product Design Engineer, Matt O'Connell,*

*Engineering Manager, Grace Pokoo-Aikins, PhD, Application Engineer, Angela Visintainer, Business Development Manager, and our two on-site LEED APs, Heather Collins and Mike Moorhouse.*

*The team meets bi-annually to review the company's environmental policy and goals, develop operating procedures for meeting goals, assess implementation of procedures, measure progress towards environmental goals, develop new activities and programs to meet goals, create environmental awareness programs and employee educational activities.*

**Annual Environmental Goals**

*By 2015, Cambridge International will:*

- *Reduce energy consumption by 20 percent*
- *Produce 10 percent of energy required from renewable source*

**Environmentally Preferable Products and Services**

*Cambridge International offers products and services to biomass and coal-fired power plants, including an emissions control system, and Eco-Remedy biomass gasification system as a combined effort with Enginuity Energy LLC.*

*The Variable Biomass Gasification System (VBGS), a patented technology, gasifies highly variable moisture fuels with high ash and low energy content, such as composted dairy manure, processing sludge, spoiled feed, molded corn, peanut hulls, rice hulls, sawdust, fescue hulls, and poultry litter. Typically, operators dispose of poultry litter to fertilize fields, which can seep into waterways causing contamination.*

*The conveyorized (VBGS) addresses the varied density and moisture content issues, resulting in uniform gasification. Furthermore, the EcoRemedy system recovers the highly valuable nutrients from the resulting ash for sale to the fertilizer industry. The Delmarva Peninsula of Maryland produces over 700,000 tons of poultry manure annually, which the (VBGS) can safely and economically convert into heat or electricity.*

*Cambridge International has also developed and now manufactures the Kinetic ESP, a patent pending electrostatic precipitator (ESP) system, which reduces the emission of particle pollution in the air by filtering toxic flue gas before entering the environment. Toxic flue gases include sulfur, iron, cadmium, and zinc oxides.*

*Conventional ESPs cannot capture particles under 2.5 microns in diameter and suffer from re-entrainment issues, particles dislodging and releasing into the atmosphere. Recent test results show that Cambridge International's emissions control system removes 98 percent of pollutant particles from the atmosphere and is much more effective than current bag house technology. This technology can be used by other industries and we believe is a solution to the issues industries are facing with new EPA Boiler MACT regulations.*

## **Waste**

### **Recycling**

*Metals, wood, oil, paper, and florescent bulbs are collected from all of the facilities and stored in appropriate containers and holding tanks. Once enough waste material is collected, appropriate vendors remove the material for recycling and/or reclamation.*

## **Energy**

### **Energy Efficiency**

*During 2010 and 2011, Cambridge International has undertaken extensive renovations of its Cambridge MD manufacturing facilities to improve production and reduce energy consumption. These renovations include more energy efficient lighting; energy efficient windows, insulation, efficient HVAC, and mesh for solar shading. These improvements are estimated to provide 1,849,950 kWh in energy use reduction and provide \$192,545 in annual cost savings.*

## **Transportation**

### **Employee Commute**

*Cambridge International encourages and promotes an employee ride share program. The Human Resources Department is responsible for helping employees make connections with other employees.*

## **Water**

### **Water Conservation**

*As part of Cambridge International's 2011 extensive plant renovations, xeriscaping was used to minimize the need for watering landscape. Low flow toilets, urinals and faucets were also installed.*

**Stormwater Management and Site Design**

*Waste wash water used in the manufacturing process is captured and pumped for storage in two poly tanks and pre-soak water is left in the pre-soak tank until ready for disposal. Once the tanks are full, an approved vendor is contacted to pump out and transfer the waste water off-site for reclamation/recycling.*

**Other**



- *Cambridge International's architectural mesh products can aid in the LEED certification process*
- *Cambridge International (Dion Banks) participated on former Governor O'Malley's Green Jobs and Industry Task Force.*
- *Enrolled in Maryland Save Energy Now Program*

***Profile Updated January 2012***



*Help build a greener, more sustainable Maryland through voluntary practices that reduce environmental impacts and save money.*

*Learn more at [www.green.maryland.gov/registry](http://www.green.maryland.gov/registry)*

