

Plastic Ingenuity, Inc. 2014 Annual Report for WDNR Green Tier Program

Executive Summary

Plastic Ingenuity, Inc. was formally accepted into the Wisconsin Department of Natural Resources Green Tier Program October 30, 2007. Plastic Ingenuity is enrolled in Tier I of the program.

Plastic Ingenuity has two facilities in Wisconsin that are covered by the Green Tier program. A facility located in Cross Plains, WI is home to Plastic Ingenuity's headquarters. The primary function of this facility is to manufacture thermoformed plastic packaging for the food, retail, and medical markets. A second facility is located in Mazomanie, WI. This facility extrudes plastic sheet and manufactures thermoformed plastic packaging. The two facilities in Wisconsin employ approximately 350 team members. Plastic Ingenuity has long been mindful of its impact on the natural environment and is fully committed to reducing its environmental footprint by participating and excelling at its Green Tier-related activities.

In 2014, Plastic Ingenuity's Wisconsin facilities were focused primarily on eight environmental initiatives in addition to the continuing work involving the four large rain gardens on/near the Plastic Ingenuity, Inc. property. Details of the construction and performance of these rain gardens can be found in previous annual reports submitted by Plastic Ingenuity.

Additionally, a required outside audit of Plastic Ingenuity's Environmental Management System was conducted by Environmental Compliance Systems, Inc. in 2012. This fulfilled the requirement of an outside audit for participation in the Green Tier program. In late 2015, the Environmental Management System is scheduled to be audited again.

By implementing resource use reduction, active and innovative recycling efforts, working to positively influence the health of the nearby Black Earth Creek, and implementing an Environmental Management System, Plastic Ingenuity continues to work on reducing its environmental footprint. Plastic Ingenuity has been dedicated to recycling for over 30 years by reusing rather than land-filling, scrap plastic. Recycling or reusing millions of pounds of plastics annually and reducing our impact on Black Earth Creek are but two ways this environmental burden is being reduced.

Critical Environmental Initiatives since Acceptance into Green Tier Program

Implementation and Auditing of an Environmental Management System (EMS): The written EMS is complete and in place. The system includes a full Management Review which is conducted annually. Plastic Ingenuity’s Environmental Management Review has occurred for a number of years preceding involvement with the Green Tier program. Internal audits encompassing applicable environmental aspects are completed annually in preparation for Management Review of the EMS. The EMS was audited in February 2012 by an outside firm, (Environmental Compliance Systems, Inc.). The audit showed that Plastic Ingenuity meets or exceeds the 12 requirements set forth by the Wisconsin Department of Natural Resources’ Green Tier program (Wisconsin Stats. 299.83(1)(dg)1-12).

Resource Use Reduction (Ongoing Initiative)

In 2007, a photovoltaic (solar) power generation system was installed at the Cross Plains facility. A goal for Plastic Ingenuity Inc. is to eventually derive at least 10% of its power from renewable sources. This will be a continual effort as new technologies emerge and become feasible options. The installation of the photovoltaic system is a first step in that direction. The kWh shown below is expected to be steady from year to year. For example, the kWh generated in 2008 was 13,438 kWh, 13,417kWh in 2009, 13,637kWh in 2010, 12,915kWh in 2011, 14,007kWh in 2012, and 12,903 in 2013.

kWh generated per year by photovoltaic system in 2014	Pounds CO2 prevented from being released in 2014	Total lbs. CO2 prevented from being released since installation of system
12,948	20,723 lbs.	156,791 lbs.

Cross Plains Heat Reclamation (Ongoing Initiative)

In 2008, a compressor heat recovery system was installed in the Cross Plains facility. During the design and implementation stages, the goal was to heat the warehouse in the Cross Plains facility with excess heat from our compressors. In the past, this heat was not reclaimed and subsequently lost. The system went fully on-line in November, 2008.

Months of operation in 2014	Btu’s recovered in 2014	lbs. CO2 prevented from being released in 2014 due to this project.	Lbs. CO2 prevented from being released since project inception
12	696,400,000	81,350 lbs.	553,730 lbs.

Mazomanie Heat Reclamation (Ongoing Initiative)

Since 2006, waste compressor heat has assisted in heating the Mazomanie facility. As was the case in the Cross Plains facility, prior to 2006, this heat was not reclaimed and subsequently lost.

Months of operation 2014	of in	Btu's recovered in 2014	lbs. CO2 prevented from being released in 2014 due to this project.	lbs. CO2 prevented from being released since 2009.
12		635,400,000	74,295 lbs.	420,751 lbs.

TOTAL CO2 prevented from release (since initiatives started) = 974,481 lbs.

Green Power Tomorrow (Ongoing Initiative)

In addition to Plastic Ingenuity's internal initiatives with renewable energy and other energy savings projects, Plastic Ingenuity's Cross Plains facility purchased 126,585 kWh through Madison Gas and Electric's (MG&E) Green Power Tomorrow Program. This calculates to 202,604 lbs of CO2 prevented from being released to the atmosphere. This is a voluntary program where customers can purchase electricity generated by wind and solar energy instead of electricity coming from traditional sources.

Clean Sweep (Ongoing Initiative)

In order to reduce the amount of salt, sand, and other debris being deposited into the Black Earth Creek during winter thaws or other melting events, Plastic Ingenuity has continued the use of a high efficiency street sweeper. This street sweeper vacuums salt, sand, and other debris into a central collection system as it sweeps the main employee parking lots. The goal of this sweeping, which occurs twice per year, is to reduce the amount of debris that could be swept into the Black Earth Creek during rain, snow, or melt events.

A secondary benefit to the high efficiency sweeping of the parking lots is the reduced load on our Gabion basket system, the 1st true filtration system of storm waters flowing from Plastic Ingenuity's main parking lot. While the sweeping occurs once per year, Plastic Ingenuity's Facilities Manager is continually reviewing whether additional sweeping is needed.

Additionally, storm drains in the employee parking lots are equipped with filters to catch any heavy deposits (sand and other floatables) before flowing into the storm sewer system.

Energy Reduction Projects - 2014

In 2014, Plastic Ingenuity's Wisconsin facilities undertook eight separate projects to reduce energy usage. The projects consisted of replacing older lamps with 28 watt bulbs from 32 watt bulbs in various areas of our Cross Plains facility. Additionally, the main office windows at the Cross Plains facility were replaced with more energy-efficient windows. Other projects were completed at both the Cross Plains and Mazomanie facilities throughout the year to reduce energy consumption. Projected kwh savings for the eight projects equates to 312,125 kwh.

Management Review of the EMS and Significant Aspects

The annual management review of Plastic Ingenuity's EMS and general environmental performance occurred in December, 2014. Prior to the management review, a thorough inspection and review of all Plastic Ingenuity sites occurs with members of our Management Staff and at times, outside parties. Plastic Ingenuity's environmental aspects are given priority attention during the audit. The annual Management Review had been completed for a number of years prior to inclusion into the Green Tier Program