



**16250 W. Glendale Drive  
New Berlin, WI 53151**



**GREEN TIER**

Advantage: Business Advantage: Environment

## **Annual Report**

The ABB Inc. Glendale Drive location is located in New Berlin, WI. An average of 360 employees are working on site daily, across 2 shifts, beginning at 6 am. The facility is comprised of 3 business units: Discrete Automation and Motion, Low Voltage Products, and Power Systems. Products produced include low, medium, and high powered drives (AC inverters) and soft start controls. In addition, the site houses engineering for research and development and supply chain management.

In 2014, renovation and expansion of the ABB footprint in the area was completed. This included the opening of a new LEED-certified office facility in Wauwatosa, WI (Discovery Parkway) for approximately 300 employees who were formerly located at the Glendale Drive facility. Construction at the Glendale location included a complete renovation of the office area with all new interiors and finishes, replacement of the office façade, increased production capacity with the installation of a receiving dock. R&D and Applications laboratories were expanded. All new mechanical and HVAC systems were installed with state of the art controls. The LEED certification application was completed and LEED Silver is expected to be achieved in 2015 for the Glendale facility.

### **Environmental Management System Report:**

In May, 2014, an ISO 14001 environmental management system (EMS) external audit was conducted by Det Norske Veritas (DNV). The audit findings identified one minor non-conformance, which was quickly resolved. The facility EMS and corrective action was further reviewed during the February, 2015 DNV external audit.

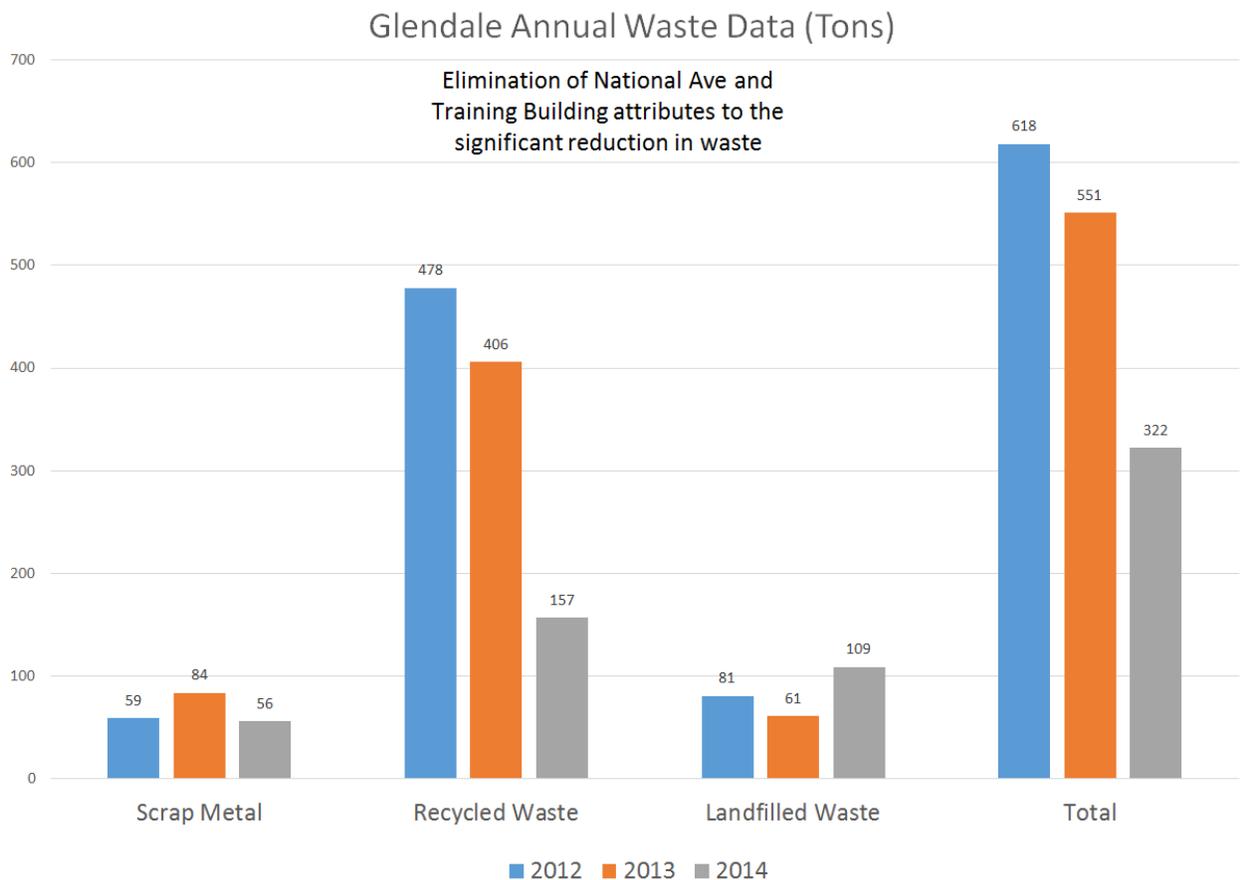
### **Environmental Compliance Report:**

In 2013, an environmental compliance audit was conducted by ABB corporate environmental professionals, external to the New Berlin location. The findings from this audit were addressed and resolved by the facility personnel in a timely manner to maintain compliance with applicable state and federal regulations.

## Description of progress:

### 2014 Goals, Objectives & Results:

- Reduce energy consumption by 2.5% (ABB company goal)
  - Energy consumption decreased by 14% in 2014 due to building renovation and relocation of activities to the Discovery Parkway facility.
- Implement a recycling program for the following materials: fuses, metals, wire, circuit boards, & capacitors.
  - Completed – all of these materials are now being collected separately and recycled.
- Develop “6S” process for recyclable materials and the recycling room
  - Completed – a new recycling room was constructed with standardized bins and labeling.
- Track the volume of recycled material to develop a baseline for future year’s progress
  - Over 200 tons of material was recycled vs. 100 tons sent to landfill.
- Reduce hazardous waste generation
  - Purchased a spray can compressor to reduce aerosol can waste volumes.
- Building upgrade construction project – Obtain LEED Silver Certification
  - LEED certification application was completed and LEED Silver is expected to be achieved in 2015



## 2015 Goals & Objectives

- Obtain LEED Silver Certification for Glendale Drive
- Track the volume of recycling material on a quarterly basis and compare year over year improvement with a 10% improvement planned for 2015
- Conduct an internal environmental compliance assessment using the ABB Environmental Compliance Questionnaire
- Green Team all campus clean up & community outreach program
- Conduct an energy conservation audit

## Sustainability Metrics:

See attached form.

## Requested components

### Executive Summary

ABB New Berlin's Glendale Drive location is proud to be a Green Tier participant because sustainability is what ABB is all about! ABB is a leader in power and automation technologies that enable utility and industry customers to improve performance while lowering environmental impact. We aspire to create value for our stakeholders by meeting the needs of our customers, employees and the communities where we undertake business. We strive to reduce our own environmental impact. We contribute to eco-efficiency and environmental stewardship in the communities and countries where we operate. Our core businesses offer energy-efficient systems, products and services, which enables our customers to lower their use of energy and natural resources.

In early 2014 our senior leadership launched a drive to truly embed safety and integrity as a core company value. "Don't look the other way" defines the required behavior throughout the organization and activity under this banner is focused on positive behavioral change, emphasizing personal leadership and accountability as the basis for fundamentally improved performance. Our employees are empowered to identify, report, and fix environmental hazards and concerns.

ABB's commitment to sustainability is embedded in our culture, with a code of conduct that states "All ABB employees must respect the letter and spirit of environmental laws and regulations, respect the environment wherever they work." Our employees understand that we all may have a different impact, but we can all make a positive change. ABB's sustainability commitment is evident in our published annual Sustainability Performance Report, which informs stakeholders of our performance, engagement and challenges. The ABB Sustainability Report may be viewed [here](#).

Our focus at the ABB New Berlin, Glendale Drive facility is continuous improvement. We strive to proactively identify environmental hazards and minimize environmental impact, improving overall sustainability. This is demonstrated by the number of energy efficient

upgrades that were installed in 2014, including but not limited to low flow toilets, LED lighting systems, and a MEFOG HVAC system. The HVAC system was designed for maximum energy efficiency, using our own ABB drives manufactured within the facility. One of the special features is an exterior thermal storage system which generates ice at night, when local energy use is low, for the use in the building's air management process during the day, reducing drain on the power grid. Additionally, materials used in the renovation were locally sourced and, whenever possible, use recycled materials, such as the flooring and chairs in the cafeteria, made from recycled tires and soda bottles!

Areas of improvement include a more robust recycling program, continued environmental awareness training, and managing environmental impacts when changes to equipment and processes occur. One of our goals was to get our environmental safe work procedures in writing, therefore, our SPCC & SWPPP were updated, a Water Process Procedure was generated including a water inventory, and both the Environmental Aspect Identification and Waste Disposal programs were updated.

The focus for 2015 is the LEED Silver certification process for the Glendale facility, along with improving the organization of the recycling room, reduction of landfill waste by 10%, and an energy use survey to identify areas of improvement.

## **Environmental performance**

### **Transportation**

As a company, ABB reports on the greenhouse gas emissions and environmental impact of business travel in accordance with the Global Reporting Initiative and Carbon Disclosure Project. The facility promotes the use of video conferencing tools to reduce travel between sites and lower our carbon footprint.

At both our Glendale Drive and Discovery Parkway facilities, electric vehicle chargers are provided free of cost to our employees. There is bicycle parking and shower facilities at both sites as well. There is a bus stop near the Glendale Drive facility to facilitate employees who take Milwaukee Public Transportation to work.

### **Supply Chain**

Environmental compliance and sustainability is included in our Management of Change process. When we make a change to a process, including materials and suppliers, we evaluate the impact on the recycling program, encouraging the team to select materials that can be recycled.

For example, the purchase of sustainable materials was a key factor for obtaining LEED certification. The flooring and chairs made from recycled materials.

### **Stakeholder Involvement**

The Green Team onsite is made up of 10 volunteer employees from all aspects of the business: Facilities, Engineering, Supply Chain, & Production. This team has developed communication tools to increase awareness in our environmental sustainability programs.

They utilize our shop floor monitors to communicate “green” messages to the teams. Activities in 2014 included a campus clean up, closer monitoring of the battery recycling program, and recycling room set up.

### Aspect Signs with Accumulation Points



In 2014 the Green Team visited a local radio station to learn about the sustainability activities they’ve implemented, this included a CD rack made of old pallets.

Employees were trained on the following compliance topics: Hazardous Waste Management, Spill Prevention & Storm Water, and Spill Cleanup. The Health, Safety & Environmental Team attended the local Federation of Environmental Technologist conference to network and expand their environmental knowledge.

The ABB location on Discovery Parkway participated in the Windows into Wauwatosa program. Over 185 community members toured the facility in which the energy efficient tools used were highlighted and the benefits of ABB products as it relates to the environment was explained.

### DNR Relationship

Being a Conditionally Exempt Small Quantity Generator without a water or air permit, our contact with the DNR is limited. However, the HSE Manager has made contact with the Waste and Materials Management Department on many occasions. The assistance provided has always been clear, consistent, and delivered in a timely manner.

### Conclusion

ABB is proud to be a Green Tier Participant and is looking forward to sharing many accomplishments in the next report!

**WISCONSIN DNR GREEN TIER  
SUSTAINABILITY METRICS**

Rev. 7/23/2013

Period Covered: 12/1/2013 - 11/30/2014

Company Name:	ABB, INC.
Facility Name:	Glendale Drive
Address:	16250 W. Glendale Drive
City, State, Zip:	New Berlin, WI 53151
Environmental Coordinator:	Nicole M. Broom
Coordinator Phone:	262-785-3217
Coordinator E-Mail:	<a href="mailto:nicole.m.broom@us.abb.com">nicole.m.broom@us.abb.com</a>

Metric	Not Collected/ Not Available	Quantity	Units	Period - if not Calendar Year
<b>DEMOGRAPHICS</b>				
Sales		392M	\$	
Money saved because of material or process improvements		15M	\$	
Profit or Loss		19	%	
Employees		359	Each	
Multiple between highest paid and lowest paid employee	NC		%	
Alternative Transportation Support	NA		\$ or ?	
Total Purchases		221M	\$	
In-State Purchases		21M	\$	
% of Purchases Made from Companies that participate in Green Tier or Green Masters:			5.80%	
<b>LAND</b>				
Total Land		15	Acres	
Paved/Covered Land		4.7	Acres or sq ft	
<b>ENERGY</b>				
Electricity		3692	kWh	
		14	% reduction	
Natural Gas		2173	btu	
Renewable Energy		0	%	
<b>WATER</b>				
Total Water Used		1250000	gallons/year	
		0	% reduction	
Water Recycled/Reused		0	gallons/year	
		0	% reduction	
Regulated Pollutants Discharged		0	lbs/ year	
		0	% reduction	
<b>AIR</b>				
Total Air Emissions	NC		lbs/ year	
	NC		% reduction	
Ozone-Depleting Substances	NC		lbs/ year	
	NC		% reduction	
Greenhouse Gas Emissions	NC		lbs/ year	
	NC		% reduction	
<b>WASTE</b>				
Hazardous Waste Disposal		164	lbs/ year	
	NC		% reduction	

Non-Hazardous Waste Disposal		240,472	lbs/ year	
		0	% reduction	
Material Recycled/ Reused		345,541	lbs/ year	
		0	% increase	
Recycled/ Reused Content		0	% of product	
<b>TRANSPORTATION</b>				
Hybrid Vehicles	NC		Each	
Gasoline Used	NC		Gallons	
Diesel Used	NC		Gallons	
Alternative Fuels Used	NC			
<b>ADDITIONAL METRICS</b>				
Please list all other certifications (for example: LEED, Energy Star, ISO 14001):			ISO 14001	
			Green Masters	