



## 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.

# SUN Automation Group

66 Loveton Circle

Sparks, Maryland 21152

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

Industrial machinery in the corrugated industry

Member since January 2015

## Management and Leadership



### Environmental Team

*SUN Automation developed a Green Team dedicated to assisting the Company with energy conservation and waste reduction as well as to contribute to reducing costs associated with energy consumption. The role of the Green Team is to help identify opportunities and assist with improving awareness within the organization to add an aspect to the Company culture that benefits all employees.*

*The Green Team consists of employees from all different areas of the company with different areas of expertise. Our members are as follows:*

- *Steve Adamski – Director of Manufacturing*
- *Bob Wilson – Maintenance Assistant*
- *Jenn Andrews – Recruiting & Development Specialist*
- *Len Hartka – Inventory Analyst*
- *JR Vain – Mechanical Engineer*
- *Bob Dannenfelser – Electrical Controls Engineer*
- *Charlie Bosley – Technical Advisor*
- *Patricia Casalena – Parts & Service Administrator*

*The Green Team meets twice a month. The first meeting of the month is to identify projects and goals, assign necessary tasks, and discuss completed goals. The second meeting of the month is to identify any difficulties members have completing individual tasks and allows the team to come up with solutions.*

*The Team provides articles for the company newsletter requesting suggestions from employees to improve our carbon footprint as well as reduce costs for the company. We have also created an email group for employees to offer their suggestions. The Green Team does their own research and discusses potential improvements at each meeting.*

**Annual Environmental Goals**

*With the previous success of our Lighting Efficiency Improvement Project completed in our Edgewood location with an annual illumination expenditure reduction of 66%, we will continue to improve our lighting efficiency in our Sparks, MD location. We expect to save 75% annually on our energy bills by replacing the bulbs in our assembly and office areas with high efficiency LED bulbs.*

## Waste

**Solid Waste Reduction and Reuse**

*SUN Automation currently utilizes the following standards in our work practices:*

- *Most documents are sent via email, unless it is required to print for signature.*
- *The majority of employees use their own dishes, cups and mugs in lieu of disposable supplies.*
- *Most communication is done by email or phone; paper communication is limited to necessity.*
- *Learning opportunities are suggested and provided online with materials available in electronic form.*
- *Integrated systems limit printing and require departments to communicate requirements of jobs electronically.*

**Recycling**

- *Recycling bins for cans/bottles are available to employees in all 3 SUN Automation locations in Maryland.*
- *Paper recycling bins are available to all office staff in our Headquarters for confidential and non-confidential papers*
- *Maintenance staff is trained and held responsible to carry out recycling initiatives.*
- *All old electronic equipment to include computers, monitors, phones, printers, etc. are sent to an electronics recycling facility.*
- *When furniture is no longer needed in one area, it is repurposed and used in other areas of the company or stored for future use.*

## Energy

### Energy Efficiency

*SUN Automation completed a Lighting Efficiency Improvement Project in 2012 for our Edgewood, Maryland location which houses our Manufacturing and Distribution Operations. The project replaced all in house metal halide and fluorescent lighting fixtures in the facility with high efficiency fluorescents and energy efficient ballasts. Prior to the project completion, SUN Automation's annual illumination expenditure was \$13,148. After the project completion, the expenditure decreased by 66% at \$4,507. Our annual savings are \$8,642. Our ten year cumulative savings are estimated at \$86,416 with an Internal Rate of Return of 23.65%.*

Previous Configuration			New Configuration		
Qty	Fixture	Watts	Qty	Fixture	Watts
12	Metal Halide, (1) 400W lamp, magnetic Ballast	456	12	4' FME - Series Highbay Fixture, 4 lamp T5 50W	209
6	Fluorescent, (2) 60W lamps	138	6	lamp 28W T8, High Efficiency	48
33	Metal Halide, (1) 400W lamp, magnetic Ballast	456	27	4' FME - Series Highbay Fixture, 4 lamp T5 50W	209
			24	8' FSL - Series Fixture, White Paint Reflector; 4 lamp 28W T8, 120-277V Energy Efficient Ballast,	96
21	Metal Halide, (1) 400W lamp, magnetic Ballast	456	21	4' FME - Series Highbay Fixture, 4 lamp T5 50W	209
4	Metal Halide, (1) 400W lamp, magnetic Ballast	456	4	4' FME - Series Highbay Fixture, 6 lamp 28W T8	189
			11	4' FME - Series Highbay Fixture, 4 lamp T5 50W	209
			2	4' FME - Series Highbay Fixture, 4 lamp T5 50W	209
<b>Annual Savings</b>					
Previous Annual Illumination Expenditure			\$13,148.00		
New Annual Illumination Expenditure			\$4,507.00		
Annual Savings			<b>\$8,642.00</b>		
Savings as a %			<b>66.00%</b>		
<b>Key Financial Metrics</b>					
Effective Payback		44.7 mo.	Internal Rate of Return (IRR)		23.65%
Net Present Value (NPV 10 yrs, 10%)		\$20,934	10 Year Cumulative Savings		\$86,416
<b>Energy Consumption from Lighting</b>					
Previous Consumption (in kWh)			119,530		

New Consumption (in kWh)	40,970
Total Energy Consumption (in kWh)	<b>78,559</b>
<b>Estimated Environmental Savings</b>	
Carbon Dioxide	157,118 lbs.
Nitrogen Oxide	397 lbs.
Sulfur Dioxide	1,161 lbs.

*We also remind employees to turn off computers and monitors at the end of each work day. When employees walk away from their desks, they should be turning off monitors. The company does not allow space heaters or additional electronic devices at workstations to limit consumption. The heating and air system is monitored and kept at a constant temperature and blinds are opened in the front of the building to welcome heat from the sun during colder days.*



*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)*

