



## INDIANA ENVIRONMENTAL STEWARDSHIP PROGRAM ANNUAL PERFORMANCE REPORT

State Form 53475 (R3 / 1-11)  
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
ENVIRONMENTAL STEWARDSHIP PROGRAM

### Indiana Department of Environmental Management Office of Pollution Prevention and Technical Assistance

MC 64-00, Room IGCS W041  
100 North Senate Avenue  
Indianapolis, IN 46204-2251  
Telephone: (800) 988-7901  
FAX: (317) 233-5627  
E-mail: [esp@idem.IN.gov](mailto:esp@idem.IN.gov)

Please use this form if you are a member of the Indiana Environmental Stewardship Program (ESP) to report on progress toward objectives and targets AND certify ESP requirements continue to be achieved. Indiana ESP facilities must submit an Annual Performance Report (APR) by April 1<sup>st</sup> of every year, for each calendar year in which the entity has been a member for at least three (3) full months. Section C of your APR should be signed by your ISO 14001:2004 EMS Lead Auditor. Your APR should be reviewed and signed by a senior manager at your facility prior to submittal. Once signed, e-mail the APR to IDEM at [esp@idem.IN.gov](mailto:esp@idem.IN.gov). Please do not include any confidential business information in your annual performance report. Public access laws require IDEM to make the APR publicly available, which may include posting all portions of your report on the Indiana ESP Web site. If you have any questions, please contact IDEM at [esp@idem.IN.gov](mailto:esp@idem.IN.gov) or (800) 988-7901.

SECTION A		FACILITY INFORMATION	
Name of facility		Metaldyne SinterForged	
Name of parent company (If applicable)		Metaldyne	
Street address (number and street)		3100 N. State Hwy 3	
City / State / ZIP code		North Vernon, Indiana 47265	
Web site of Facility/Company		<a href="http://www.metaldyne.com">www.metaldyne.com</a>	
		CONTACT INFORMATION	
Name of Contact (Mr. / Mrs. / Ms. / Dr.)		Mr. Jeff Gee	
Title		Environmental Coordinator/Facilities Maintenance Group Leader (FMGL)	
Telephone number		812-346-0363	
FAX number		812-346-4970	
E-mail address		<a href="mailto:jeffgee@metaldyne.com">jeffgee@metaldyne.com</a>	
Mailing address (if different from facility address)			
City / State / ZIP Code			
		REPORTING PERIOD	
Reporting period dates (month, day, year)			
1a. Is this the third Annual Performance Report of your membership term?		<input type="checkbox"/> Yes—If yes, answer question 1b. <input checked="" type="checkbox"/> No—If no, skip to the "Change in Information" section of this report.	
1b. Do you wish to renew your Indiana Environmental Stewardship Program membership?		<input type="checkbox"/> Yes—If yes, please complete all sections of this annual report. <input type="checkbox"/> No—If no, please complete all sections of this annual report except for Section F.	
		CHANGE IN INFORMATION	
In your ESP application and, perhaps, in previous annual performance reports, you described what your facility does or makes. Have there been any changes or additions to your facility's list of products or activities?		<input type="checkbox"/> Yes—If yes, please describe them: <input checked="" type="checkbox"/> No	
SECTION B		PUBLIC OUTREACH AND PERFORMANCE REPORTING	
Why do we need this information?		What do you need to do?	
IDEM needs to know how environmental information was shared with the public.		Describe how the facility has shared and plans to share environmental information.	
Please briefly describe the activities that your facility conducted during this reporting period to interact with the community on environmental issues and to report publicly on its environmental performance. All environmental communication is handled via corporate EHS/Legal			
Please indicate which of the following methods your facility plans to use to make its ESP Annual Performance Report available to the public. Please check as many as appropriate.			
<input type="checkbox"/> Web site ( <a href="http://www.">http://www.</a> ) <input type="checkbox"/> Open house <input type="checkbox"/> Meetings <input type="checkbox"/> Press releases <input type="checkbox"/> Other			

## SECTION C

## ENVIRONMENTAL MANAGEMENT SYSTEM ASSESSMENT

**Why do we need this information?**

Facilities need to have implemented an EMS that meets certain criteria and use an ISO 14001:2004 EMS Lead Auditor at least every 36 months to assess the EMS.

**What do you need to do?**

Answer the following questions about your EMS.

1. What is the most recent date that an ISO 14001:2004 EMS Lead Auditor performed an EMS assessment at your facility?
2. Is the date of the most recent EMS assessment performed by an ISO 14001:2004 EMS Lead Auditor within the past 36 months?
- ☒ Yes—If yes, skip to Question 3.
- ☐ No—If no, please have your ISO 14001: 2004 EMS Lead Auditor complete and sign the following checklist, indicating whether or not your EMS meets the listed criteria for ESP membership:
- ☐ Yes ☐ No Evidence of senior management support, commitment, and approval.
- ☐ Yes ☐ No A written environmental policy directed toward compliance, pollution prevention, and continuous improvement.
- ☐ Yes ☐ No Identification of the environmental aspects at the entity.
- ☐ Yes ☐ No Prioritization of the environmental aspects and a determination of those aspects deemed significant considering, at the minimum, environmental impacts and applicable laws and regulations.
- ☐ Yes ☐ No Established priorities, and environmental objectives and targets for continuous improvement in environmental performance and for ensuring compliance with applicable environmental laws, regulations, and permit conditions. Objectives and targets must go beyond current legal requirements and specify the environmental media, types of pollution to be prevented or reduced, implementation activities, and projected time frames.
- ☐ Yes ☐ No An established community outreach mechanism that includes identifying and responding to community concerns; informing the community of important matters that affect the community; and reporting on the EMS, including reporting to the public on the environmental policy and significant aspects.
- ☐ Yes ☐ No Incorporation of environmental and pollution prevention planning in the development of new products, processes, and services and modifications of existing processes.
- ☐ Yes ☐ No Evidence of clear responsibility for implementation, training, monitoring, EMS maintenance, taking corrective action, and ensuring compliance with applicable environmental laws, regulations, and permit conditions.
- ☐ Yes ☐ No Documentation of the implementation procedures and the results of implementation.
- ☐ Yes ☐ No Appropriate written EMS procedures.
- ☐ Yes ☐ No An annual evaluation of the EMS with written results provided to senior management and affected employees.

Signature of ISO 14001:2004 EMS Lead Auditor

Date (month, day, year)

3. Were any deficiencies found during the most recent EMS assessment?
- ☒ No—If no, skip to Question 4.
- ☐ Yes—If yes, describe any deficiencies found and the corrective action taken to address each deficiency:

4. Name, title, and organization of ISO 14001:2004 EMS Lead Auditor that conducted the most recent EMS assessment: Fraser Mackay, Client Mgr, BSI

5. What type of protocol was used to perform the independent EMS assessment?

- ☒ ISO 14001:2004 Certified audit
- ☐ Responsible Care EMS audit
- ☐ Responsible Care 14001 audit
- ☐ ESP Independent Assessment Protocol
- ☐ Other (please specify):

6. Is the EMS certified to a recognized standard?

- ☒ Yes—If yes, what standard does the EMS follow (please provide a copy of the most recent certificate)?
- ☒ ISO 14001:2004
- ☐ Responsible Care EMS
- ☐ Responsible Care 14001
- ☐ No.

7. When was the last Senior Management review of your EMS completed?

Month / Year: November 2014

Who headed the review (name and title)? Dave Tempest, Plant Manager



8. When did your facility last conduct an internal or corporate environmental compliance audit? Do not include inspections or site visits by regulatory organizations.  
 Scope of the compliance audit: The continuing suitability of the EMS in meeting all required procedures of the company and standards  
 Month(s) / Year(s): December 2014  
 Who conducted the audit(s) (e.g., facility staff, corporate, third party)? Trained facility staff

9. Explain the emergencies experienced within the facility during the past year. Were the applicable emergency and contingency plans detailed in the EMS effective? What changes, if any, have been made to your facility's emergency or contingency plans?  
 None

10. Has your facility corrected all instances of potential environmental non-compliance and EMS non-conformance identified during your audits and other assessments?  
☐ Yes—If yes, briefly summarize corrective actions taken and other improvements made as a result of your EMS assessment(s) or compliance audit(s).  
☐ No—If no, please explain your plans to correct these instances. ☒ No such instances identified.

11. (Optional) Please provide a narrative summary of progress made toward EMS objectives and targets other than those reported as an Environmental Performance Initiative in Section E. You may limit the summary to environmental aspects that are *significant* and towards which *progress* has been made during the last calendar year. Attach additional sheets as necessary.

Environmental aspect	Progress made this year (e.g., quantitative or qualitative improvements, activities conducted)

**SECTION D** **ADDITIONAL INFORMATION**

**Why do we need this information?**  
 This information will help IDEM to effectively manage the Environmental Stewardship Program.

**What do you need to do?**  
 Answer the questions as completely as possible.

1. In addition to ESP, please list environmental awards received or voluntary programs participated in during the past twelve months.  
 Corporate EHS Blue Flag

2. Has your facility taken advantage of any ESP incentives? If so, please describe the implementation process and list additional benefits IDEM should consider.  
 Utilized access to permit writers for Title V/CTAP assistance for stormwater and various questions

3. If your facility was not registered to the ISO 14001 standard prior to becoming an ESP member, has ESP helped you to pursue registration? If so, how has ESP been instrumental in achieving registration?  
 N/A

**SECTION E** **ENVIRONMENTAL IMPROVEMENT INITIATIVE RESULTS**

**Why do we need this information?**  
 Facilities need to share the results of the environmental improvement initiative that was pursued during the reporting period.

**What do you need to do?**  
 Summarize your facility's progress on achieving the initiative you identified in the application or last year's APR.

Category: <u>Energy Use</u> Indicator: <u>kWh</u>	Baseline Quantity	Future Goal Quantity	Current Quantity	Cost Savings
Calendar year	6,333,480 (2014)	4,520,160 (2015)	4,520,160 (2015)	\$156,954.57 Reduced from 700 hp to 500hp for overall savings of 1.8 million kWh
Actual quantity (per year)				
Normalized quantity (per year)				
Basis for your normalizing factor (e.g., gallons of paint produced)	Installed state of the art 450 hp centrifuge air compressor			
Measurement unit (e.g., pounds)				

Briefly describe how you achieved improvements for this environmental initiative or, if relevant, any circumstances that delayed progress.  
 See attached progress report

Please list any state, U.S. EPA, or other partnership programs to which you are reporting this data (e.g., Energy Star, Project XL).  
 N/A

(Optional) If your facility has experienced continued results for environmental improvement initiatives pursued in past years of ESP membership, please share those results here.

**SECTION F**
**ENVIRONMENTAL IMPROVEMENT INITIATIVE**
**Why do we need this information?**

Facilities need to show they are committed to improving their environmental performance.

**What do you need to do?**

Refer to the Environmental Performance Table and answer the following questions.

1. Select the appropriate boxes in the following table to indicate the **category** and **indicator(s)** that represents the environmental improvement initiative selected by your facility. For the category and indicator selected, list the **baseline year** (e.g., 2009) and the **future year** (e.g., 2010). Next, list the **baseline annual quantity** (e.g., 5 tons) and **future annual quantity** (e.g., 2 tons) you are committing to achieve by the end of the future year.

Category	Indicator	Baseline Year 20__14	Future Year 20__15	Unit
<input type="checkbox"/> Material Procurement	<input type="checkbox"/> Recycled content			Pounds, tons
	<input type="checkbox"/> Hazardous/toxic components			Pounds, tons
<input type="checkbox"/> Suppliers' Environmental Performance	<input type="checkbox"/> Specify indicator: _____			As specified for the particular indicator
<input type="checkbox"/> Material Use	<input type="checkbox"/> Materials used			Pounds, tons
	<input type="checkbox"/> Hazardous materials used			Pounds, tons
	<input type="checkbox"/> Ozone depleting substances used			CFC-11 equivalent pounds
	<input type="checkbox"/> Total packaging materials used			Pounds, tons
<input type="checkbox"/> Water Use	<input type="checkbox"/> Total water used			Gallons
<input checked="" type="checkbox"/> Energy Use	<input checked="" type="checkbox"/> Electricity	867,240 kWh	102,960 kWh	kWh / MWh, Btu / MMBtu
	<input type="checkbox"/> Steam			kWh / MWh, gallons, ft <sup>3</sup>
	<input type="checkbox"/> Natural gas			Btu / MMBtu
	<input type="checkbox"/> Diesel			Gallons
	<input type="checkbox"/> Propane / LPG			Btu / MMBtu, gallons
	<input type="checkbox"/> Gasoline			Gallons
	<input type="checkbox"/> Solar			kWh / MWh
	<input type="checkbox"/> Wind			kWh / MWh
	<input type="checkbox"/> Landfill gas			Btu / MMBtu
	<input type="checkbox"/> Combined heat and power			kWh / MWh, Btu / MMBtu
	<input type="checkbox"/> Other: _____			_____
<input type="checkbox"/> Land and Habitat	<input type="checkbox"/> Land and habitat conservation			Square feet, acres
	<input type="checkbox"/> Community land revitalization			Square feet, acres
<input type="checkbox"/> Air Emissions	<input type="checkbox"/> Total GHGs			MTCO <sub>2</sub> E
	<input type="checkbox"/> VOCs			Pounds, tons
	<input type="checkbox"/> NO <sub>x</sub> , SO <sub>x</sub> , PM <sub>2.5</sub> , PM <sub>10</sub> , or CO			Pounds, tons
	<input type="checkbox"/> Air toxics			Pounds, tons
	<input type="checkbox"/> Odor			European Odour Units
	<input type="checkbox"/> Radiation			Curies, Becquerels
	<input type="checkbox"/> Dust			Pounds, tons
<input type="checkbox"/> Discharges to Water	<input type="checkbox"/> COD or BOD			Pounds, tons
	<input type="checkbox"/> Toxics			Pounds, tons
	<input type="checkbox"/> Total suspended solids			Pounds, tons
	<input type="checkbox"/> Nutrients			Pounds, tons of N or P
	<input type="checkbox"/> Sediment from runoff			Pounds, tons
	<input type="checkbox"/> Pathogens			MPN/ml, CFU/ml
<input type="checkbox"/> Non-hazardous Waste	<input type="checkbox"/> Landfill			Pounds, tons
<input type="checkbox"/> Hazardous Waste	<input type="checkbox"/> Incineration			Pounds, tons
	<input type="checkbox"/> Reused/recycled off-site			Pounds, tons, gallons
	<input type="checkbox"/> Other: _____			Pounds, tons, gallons
<input type="checkbox"/> Noise	<input type="checkbox"/> Noise			dBA
<input type="checkbox"/> Vibration	<input type="checkbox"/> Vibration			Inches per second
<input type="checkbox"/> Products	<input type="checkbox"/> Expected lifetime energy use			kWh / MWh, Btu / MMBtu
	<input type="checkbox"/> Expected lifetime water use			Gallons
	<input type="checkbox"/> Expected lifetime waste to air, water, or land from product use			Pounds, tons
	<input type="checkbox"/> Waste to air, water, or land from disposal or recovery			Pounds, tons

2. What activities or process changes do you plan to undertake at your facility to accomplish your initiative (e.g., technology changes in a particular process line, employee training)? Will be installing timed occupancy sensors throughout the facility; providing training to all employees regarding the new technology and overall cost savings
3. Does this initiative address a significant aspect in your EMS?
- ☒ Yes
- ☐ No—If no, please explain why you believe this indicator should be included as an environmental improvement initiative:




# CERTIFICATION AND PLEDGE

On behalf of (name of facility) Metaldyne SinterForged Products

I certify that the information contained in this Annual Performance Report and attachments is accurate to the best of my knowledge and that this facility is, to the best of my knowledge and based on reasonable inquiry, currently in compliance with all applicable federal, state, and local environmental requirements, or has a corrective action program in place to attain compliance.

We, Metaldyne SinterForged Products, commit to maintaining the principles and goals outlined in our Environmental Management System for our facility's Indiana Environmental Stewardship Program status. We agree to strive for full compliance with all regulations promulgated by the U.S. EPA, state, or local jurisdictions. We agree to promote the Indiana Environmental Stewardship Program and to share our success stories with other facilities. We understand that the Annual Performance Report must be submitted to IDEM by April 1<sup>st</sup> of each year and that we must reapply to the Indiana Environmental Stewardship Program every three years.

I understand that the information provided in this Annual Performance Report will be public record. I am the senior facility manager or authorized facility signatory, and fully authorized to execute this statement on behalf of the corporation or other legal entity whose facility is submitting this Annual Performance Report.

Signature 	Title Environmental Coordinator	Date (month, day, year) 04-01-15
Printed signature Jeff Gee		



## **2015 ESP Project**

April 01, 2015

Project Champion: Jeff Gee, Facilities Maintenance Group Leader

Significant Aspect: Energy Use

Objective: Reduce kilowatt hours (kWh) used

Target: To reduce the kWh used by lighting left on when no one is present in the area

Project: Install timed occupancy sensors throughout the facility

- Install occupancy sensors in restrooms, office spaces, storage areas, etc

Plan for evaluation:

- Reduce kWh used for lighting in the facility

Test Results:

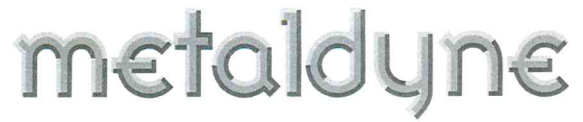
- Projections show a decrease of energy use of 75-80%

Cost Savings:

- Decrease annual energy costs by approximately \$60,000 at a 75% reduction
- Decrease annual kWh usage by approximately 764,280

Plan for Installation:

- Project completion target Fourth Quarter 2015
- Monitor



## 2014 ESP Project

April 01, 2015

Project Champion: Jeff Gee, Facilities Maintenance Group Leader

Significant Aspect: Energy Use

Objective: Reduce kilowatt hours (kWh) used

Target: To reduce the kWh used by the 400 horsepower twin rotary screw air compressor by 10-15%

Project: Install new 450 horsepower centrifugal air compressor

- Replace current 400 horsepower twin rotary screw air compressor with new 450 horsepower centrifugal air compressor
- Current Air Compressor is "start/stop"; replacement is auto dial
- Current must be taken out of service for maintenance; new can have maintenance performed while in service

Plan for evaluation:

- Reduce kWh used to power the air compressors used in the facility
- Reduce noise level in the air compressor room

Test Results:

- Have already demonstrated >20% kWh usage; reduced from running 700 hp to 500 hp overall
- Decibel level decreased in air compressor room of approximately 50 dB

Cost Savings:

- Decrease annual energy costs by approximately \$156,954 at >20% reduction
- Decrease annual kWh usage from 6.3 million kWh to 4.5 million kWh for an annual savings of 1.8 million kWh

Plan for Installation:

- New air compressor installed 12/22/14
- Monitor

Project considered highly successful