



INDIANA ENVIRONMENTAL STEWARDSHIP PROGRAM ANNUAL PERFORMANCE REPORT

State Form 53475 (R7 / 2-21)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
ENVIRONMENTAL STEWARDSHIP PROGRAM

Indiana Department of Environmental Management
Office of Program Support
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Indianapolis, IN 46204-2251
Telephone: (800) 988-7901
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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 1st of every year, for each calendar year in which the entity has been a member for at least three (3) full months. Membership terms are renewed every four (4) years through submitting your APR. 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. 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 or (800) 988-7901.

This form will also be used for ESP members who are also members of the Indiana Partners for Pollution Prevention Program to recertify their membership and reaffirm their commitment to the Partners Pledge.

SECTION A		FACILITY INFORMATION	
Name of facility Cummins Inc., Columbus Engine Plant			
Name of parent company (if applicable) Cummins Inc.			
Street address (number and street) 500 Central Ave.			
City / State / ZIP code Columbus, IN 47201			
County Bartholomew			
Website of facility / company www.cummins.com			
How many employees (full time equivalents) currently work at your facility? 1400			
CONTACT INFORMATION			
Name of Primary Contact (Mr. / Mrs. / Ms. / Dr.) Mr. David Wehrkamp		Title Environmental Supervisor	
Telephone number (812) 530-6571	FAX number ()	E-mail address david.a.wehrkamp@cummins.com	
Mailing address (if different from facility address) 500 Central Avenue, MC14503			
City / State / ZIP Code Columbus, IN 47201			
Name of Secondary Contact (Mr. / Mrs. / Ms. / Dr.) Mr. Condell McPherson		Title Health, Safety, Environmental Associate	
Telephone number ()	FAX number ()	E-mail address condell.mcpherson@cummins.com	
Mailing address (if different from facility address) 500 Central Avenue, MC14503			
City / State / ZIP Code Columbus, IN 47201			
REPORTING PERIOD			
Reporting period dates from prior calendar year (mm/dd/yyyy – mm/dd/yyyy) 01/01/2020 - 12/31/2020			
1a. Is this the fourth ESP 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 checked="" 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.			
2a. Are you a member of the Indiana Partners for Pollution Prevention (Partners) Program? <input checked="" type="checkbox"/> Yes—If yes, answer question 2b. <input type="checkbox"/> No—If no, skip to the "Change in Information" section of this report.			

REPORTING PERIOD (CONTINUED)

- 2b. Do you wish to recertify your Partners for Pollution Prevention (Partners) Pledge?
- ☒ Yes—If yes, please complete all sections of this annual report.
- ☐ 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?

☒ Yes—If yes, please describe them: _____

☐ No

SECTION B**PUBLIC OUTREACH AND PERFORMANCE REPORTING****Why do we need this information?**

IDEM needs to know how environmental information was shared with the public.

What do you need to do?

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.

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.

☐ Web site (<http://www.>_____) ☐ Open house ☒ Meetings ☐ Press releases ☒ Other Email, Postings

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 EMS Lead Auditor at least every thirty-six (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 EMS Lead Auditor performed an EMS assessment at your facility? 05/24/2019

2. Name, title, and organization of ISO 14001 EMS Lead Auditor who conducted the most recent EMS assessment: Jan Hallberg, JEP HSE Tech, Cummins Inc. Certified Lead HSEMS Auditor

3. Is the date of the most recent EMS assessment performed by an ISO 14001 EMS Lead Auditor within the past thirty-six (36) months?

☒ Yes—If yes, skip to Question 4.

☐ No—If no, please have your ISO 14001 EMS Lead Auditor complete and sign the following checklist, indicating whether or not your EMS meets the listed criteria for ESP membership:

- | | |
|--|---|
| <input type="checkbox"/> Yes <input type="checkbox"/> No | Evidence of senior management support, commitment, and approval. |
| <input type="checkbox"/> Yes <input type="checkbox"/> No | A written environmental policy directed toward compliance, pollution prevention, and continuous improvement. |
| <input type="checkbox"/> Yes <input type="checkbox"/> No | Identification of the environmental aspects at the entity. |
| <input type="checkbox"/> Yes <input type="checkbox"/> 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. |
| <input type="checkbox"/> Yes <input type="checkbox"/> 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. |
| <input type="checkbox"/> Yes <input type="checkbox"/> 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. |
| <input type="checkbox"/> Yes <input type="checkbox"/> No | Incorporation of environmental and pollution prevention planning in the development of new products, processes, and services and modifications of existing processes. |
| <input type="checkbox"/> Yes <input type="checkbox"/> 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. |
| <input type="checkbox"/> Yes <input type="checkbox"/> No | Documentation of the implementation procedures and the results of implementation. |
| <input type="checkbox"/> Yes <input type="checkbox"/> No | Appropriate written EMS procedures. |
| <input type="checkbox"/> Yes <input type="checkbox"/> No | An annual evaluation of the EMS with written results provided to senior management and affected employees. |

Signature of ISO 14001 EMS Lead Auditor

Date (month, day, year)

SECTION C**ENVIRONMENTAL MANAGEMENT SYSTEM ASSESSMENT
CONTINUED**

4. Were any deficiencies found during the most recent EMS assessment?
☒ Yes—If yes, describe any deficiencies found and the corrective action taken to address each deficiency: HSE Training. Updated to new training platform.
☐ No
5. What type of protocol was used to perform the independent EMS assessment?
☒ ISO 14001:2015 Certified 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 14001:2015
☐ Responsible Care EMS
☐ Responsible Care 14001
☐ No
7. When was the last Senior Management review of your EMS completed?
Month / Year: 01/31/2021
Who headed the review (name and title)? Haarish Venkitachalam, Site Leader
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: CEP HSEMS
Month(s) / Year(s): 11/2020
Who conducted the audit(s) (e.g., facility staff, corporate, third party)? 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?
COVID-19 Pandemic response. Many updates being made.
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).
Stormwater map.
☐ No—If no, please explain your plans to correct these instances.
☐ No such instances identified.

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 (12) months.
Received IDEM Governor's Award for Environmental Excellence; 5 Year's of Continual Improvement category. Cummins Inc. Business Impact Award for Continuous Environmental Improvement.
2. Has your facility taken advantage of any ESP incentives? If so, please describe the implementation process and list additional benefits IDEM should consider.
Yes. Advanced notice of inspections.
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. Site was already an ISO 14001 registered site.
4. Are the ESP and/or Partners group meeting your expectations? Please provide feedback or suggestions.
Yes. Good program to get ideas from other ESP and P2 partners.

SECTION D

ADDITIONAL INFORMATION (CONTINUED)

5. If you are a member of Partners, please reaffirm your facility's or organization's pledge to the Partners and provide additional information regarding commitment to pollution prevention (P2).

Yes	No	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. Ensure employees are aware of the facility's commitment to P2 and understand their role in implementing P2 objectives and goals in the facility.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. Your facility has incorporated P2 planning in the development of new products, processes, and/or services.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. Your facility established a mechanism to monitor waste generation and identify realistic P2 goals.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. Your facility has established a process to listen and respond to stakeholder concerns.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. Your facility makes available your general waste reduction and P2 information to members of our community, IDEM, and the Partners, if requested?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	6. Your facility has participated in or conducted outreach activities that include details of your P2 efforts; please specify: <u>Community Recycle Day/ Electronics Collection</u>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	7. Your facility has participated in two or more Partners meetings in the last year.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	8. Your facility supported the annual Pollution Prevention Conference and Trade Show. Please check all that apply: <input type="checkbox"/> Financial sponsorship <input checked="" type="checkbox"/> One or more attendees from your facility <input type="checkbox"/> Other (specify) _____

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. IDEM needs to report cumulative program reduction results.

What do you need to do?

Reference Section F for "Category" and "Indicator" options to complete this section. Summarize your facility's progress on achieving the initiative you identified in the application or last year's APR. For assistance, please call (800) 988-7901 or email esp@idem.IN.gov.

Initiative #1

Category 1: Energy Use Indicator 1: Solar	Baseline (indicate measurement unit)	Current (indicate measurement unit)	Cost Savings
Calendar year	2019	2020	
Actual quantity (per year)	0 kWh	-493 kWh	\$39.44
Production unit (select one)	Earned Labor Hours Other – specify (e.g. Gallons, length, etc.)	Production units Weather (cloud coverage)	Production lbs.
Production Quantity	100	72	NA
Normalization factor (Current year production ÷ Baseline year production) 0.72			
Normalized quantity (Actual current year quantity - Actual baseline quantity) x Normalization factor -355.68 kWh			
Briefly describe how you achieved improvements for environmental initiative #1 or, if relevant, any circumstances that delayed progress. Use solar energy to supplement washtank water heating during the month of December, 2020. UV Collector system commissioning delayed due to COVID-19			

Initiative #2

Category 2: Non-Hazardous Waste Indicator 2: Reused/Recycled Off Site	Baseline (indicate measurement unit)	Current (indicate measurement unit)	Cost Savings
Calendar year	2019	2020	
Actual quantity (per year)	273257 Gallons	186820	\$90,000.00
Production unit (select one)	Earned Labor Hours Other – specify (e.g. Gallons, length, etc.)	Production units X	Production lbs.
Production Quantity	209932	139647	NA
Normalization factor (Current year production ÷ Baseline year production) 0.67			
Normalized quantity (Actual current year quantity - Actual baseline quantity) x Normalization factor -57,497.99			
Briefly describe how you achieved improvements for environmental initiative #2 or, if relevant, any circumstances that delayed progress. Reduce waste water liquid sludge generated and disposed of offsite by rebuilding and restarting the waste water filterpress to de-water sludge.			

SECTION E

ENVIRONMENTAL IMPROVEMENT INITIATIVE RESULTS
CONTINUED

Initiative #3

Category 3: Products Indicator 3: Expected lifetime waste from prod	Baseline (indicate measurement unit)	Current (indicate measurement unit)	Cost Savings
Calendar year	2019	2020	
Actual quantity (per year)	0	150	
Production unit (select one)	Earned Labor Hours Production units X Production lbs. Other – specify (e.g. Gallons, length, etc.)		
Production Quantity	150	150	NA

Normalization factor (Current year production ÷ Baseline year production) 1.0

Normalized quantity (Actual current year quantity ÷ Actual baseline quantity) x Normalization factor (-62.40 NOx + -2,714.50 GHG) Tons

Briefly describe how you achieved improvements for environmental initiative #3 or, if relevant, any circumstances that delayed progress.

Fully Electric School Bus: This project from our New Power Business Unit production here at CEP is the reduction in emissions from electric school buses. At CEP we manufacture the battery packs and drive for the new electric school buses. The electric buses will replace current gasoline or diesel powered buses and the resultant reduction in lifetime GHG emissions are captured here. 62.4 ton NOx over the life of 150 all electric school buses.

1. Briefly describe the impacts or wastes eliminated resulting from the environmental initiative(s). If multiple initiatives, please indicate which specifically.
 - Liquid Sludge Reduction - CEP's waste water sludge is approximately 70% water. By bringing the filter press back on line we were able to separate the water from sludge, reducing transportation (GHG reduction) and cost.
 - UV Collector - Utilize solar energy to supplement wash tank heating energy use. Project to be studied as a pilot for possible future solar heating project

2. Are there other best management practices (BMPs) you can share correlating to your initiative(s)?
 - Utilizing the continuous improvement process.

3. If the objectives and targets associated with the environmental improvement initiative(s) were not attained, please verify continued progress toward the environmental initiative(s). If multiple initiatives, please indicate which specifically.
 Most of the targets were attained but the pandemic did affect production and normalization.

4. Please provide a narrative summary of progress made toward qualitative, significant EMS objectives and targets, if any.
 A major driver in CEP's continuous improvement program is using data to identify possible improvements and solutions. One example of this is the liquid sludge reduction project. The site still does not have enough capacity to process all the liquid sludge. A study was completed in 2020 that a larger filter press was needed. The financial analysis was completed and a part of our 2021 plan is to install a new press and totally eliminate liquid sludge disposal.

5. Please list any state, U.S. EPA, or other partnership programs to which you are reporting this data (e.g., Energy Star, Project XL).
 Department of Energy - Superior Energy Performance.

6. Is your entity willing to share the environmental improvement initiative(s) and its best management practices (BMPs) at the ESP Annual Meeting and/or a Partners for Pollution Prevention quarterly meeting or conference? ☒ Yes ☐ No

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 next environmental improvement initiative selected by your facility. For the category and indicator selected, list the **baseline year** (e.g., 2015) and the **future year** (e.g., 2016). 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 20	Future Year 20 21	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"/> Materials used			Pounds, tons
	<input type="checkbox"/> Hazardous materials used			Pounds, tons
<input type="checkbox"/> Material Use	<input type="checkbox"/> Ozone depleting substances used			CFC-11 equivalent pounds
	<input type="checkbox"/> Total packaging materials used			Pounds, tons
<input checked="" type="checkbox"/> Water Use	<input checked="" type="checkbox"/> Total water used	37,826,000 (normalize to CDD or production)	2020 - 2million	Gallons
	<input type="checkbox"/> Electricity			kWh / MWh, Btu / MMBtu
	<input type="checkbox"/> Steam			kWh / MWh, gallons, ft ³
	<input type="checkbox"/> Natural gas			Btu / MMBtu
	<input type="checkbox"/> Diesel			Gallons
	<input type="checkbox"/> Propane / LPG			Btu / MMBtu, gallons
<input type="checkbox"/> Energy Use	<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"/> Total GHGs			MTCO2E
<input type="checkbox"/> Air Emissions	<input type="checkbox"/> VOCs			Pounds, tons
	<input type="checkbox"/> NOx, SOx, PM _{2.5} , PM ₁₀ , 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 checked="" type="checkbox"/> Reused/recycled off-site		-200,000 lbs	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"/> Expected lifetime energy use			kWh / MWh, Btu / MMBtu
<input type="checkbox"/> Products	<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

If you need assistance filling out the form, please contact the ESP program manager at either esp@idem.in.gov or 1-(800) 988-7901.

SECTION F

FUTURE YEAR ENVIRONMENTAL IMPROVEMENT INITIATIVE
CONTINUED

2. If the environmental improvement initiative(s) will be *qualitative* in nature, please describe: _____
3. 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)? _____
 Install a new filter press to further reduce sludge generated at the facility.
 Utilize new technology to increase cooling tower cycles to reduce cooling tower water blow down, reducing plant water consumption.
4. 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

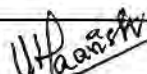
On behalf of (name of facility) _____

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, _____, 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 we must meet the requirement of implementing one (1) new, independent environmental improvement initiative each year of membership (for a total of four (4) initiatives), that the Annual Performance Report must be submitted to IDEM by April 1st of each year, and that we must reapply to the Indiana Environmental Stewardship Program every four (4) 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



Date (month, day, year)

03/24/2021

Printed signature

Haarish Venkitachalam

Title

CEP Site Leader