



**INDIANA ENVIRONMENTAL STEWARDSHIP PROGRAM  
ANNUAL PERFORMANCE REPORT**

State Form 53475 (R5 / 2-17)  
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
ENVIRONMENTAL STEWARDSHIP PROGRAM

Indiana Department of Environmental Management  
Office of Program Support  
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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 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. 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](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  
**Toyota Motor Manufacturing, Indiana, Inc**

Name of parent company (if applicable)

Street address (number and street)  
**4000 Tulip Tree Drive**

City / State / ZIP code  
**Princeton, IN 47670**

Website of facility / company

**CONTACT INFORMATION**

Name of Contact (Mr. / Mrs. / Ms. / Dr.) <b>Paul Delor</b>		Title <b>Environmental Specialist</b>
Telephone number <b>(812) 387-2956</b>	FAX number ( )	E-mail address <b>paul.delor@toyota.com</b>
Mailing address (if different from facility address) <b>4000 Tulip Tree Drive, Mail Drop PE-I</b>		
City / State / ZIP Code <b>Princeton, IN 47670</b>		

**REPORTING PERIOD**

Reporting period dates (mm/dd/yyyy – mm/dd/yyyy)  
**Jan 1, 2016 - Dec 31, 2016**

1a. Is this the fourth Annual Performance Report of your membership term?  
 Yes—If yes, answer question 1b.  
 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?  
 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: \_\_\_\_\_  
Increase in production volume

No

**SECTION B PUBLIC OUTREACH AND PERFORMANCE REPORTING**

<b>Why do we need this information?</b> IDEM needs to know how environmental information was shared with the public.	<b>What do you need to do?</b> 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. <b>Haz Household Waste Day, World Water Monitoring, Earth Camp, Visitor Center</b>	
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 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? <u>Nov 2016</u>
2.	Name, title, and organization of ISO 14001 EMS Lead Auditor who conducted the most recent EMS assessment: _____ <b>John Leaning, Lead Auditor, DNV GL</b>
3.	<p>Is the date of the most recent EMS assessment performed by an ISO 14001 EMS Lead Auditor within the past thirty-six (36) months?</p> <p><input checked="" type="checkbox"/> Yes—If yes, skip to Question 4.</p> <p><input type="checkbox"/> 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:</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Evidence of senior management support, commitment, and approval.</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No A written environmental policy directed toward compliance, pollution prevention, and continuous improvement.</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Identification of the environmental aspects at the entity.</p> <p><input checked="" 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.</p> <p><input checked="" 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.</p> <p><input checked="" 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.</p> <p><input checked="" 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.</p> <p><input checked="" 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.</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Documentation of the implementation procedures and the results of implementation.</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Appropriate written EMS procedures.</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No An annual evaluation of the EMS with written results provided to senior management and affected employees.</p>
	<p>_____ Signature of ISO 14001 EMS Lead Auditor</p> <p>_____ Date (month, day, year)</p>
4.	<p>Were any deficiencies found during the most recent EMS assessment?</p> <p><input type="checkbox"/> Yes—If yes, describe any deficiencies found and the corrective action taken to address each deficiency: _____</p> <p><input checked="" type="checkbox"/> No</p>
5.	<p>What type of protocol was used to perform the independent EMS assessment?</p> <p><input type="checkbox"/> ISO 14001:2015 Certified audit</p> <p><input checked="" type="checkbox"/> ISO 14001:2004 Certified audit</p> <p><input type="checkbox"/> ESP Independent Assessment Protocol</p> <p><input type="checkbox"/> Other (please specify): _____</p>
6.	<p>Is the EMS certified to a recognized standard?</p> <p><input checked="" type="checkbox"/> Yes—If yes, what standard does the EMS follow (please provide a copy of the most recent certificate)?</p> <p><input type="checkbox"/> ISO 14001:2015</p> <p><input checked="" type="checkbox"/> ISO 14001:2004</p> <p><input type="checkbox"/> Responsible Care EMS</p> <p><input type="checkbox"/> Responsible Care 14001</p> <p><input type="checkbox"/> No</p>

**SECTION C ENVIRONMENTAL MANAGEMENT SYSTEM ASSESSMENT**  
**CONTINUED**

7. When was the last Senior Management review of your EMS completed?  
 Month / Year: Oct 2016  
 Who headed the review (name and title)? Bill Harper, Assistant Manager, Environmental Affairs

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: Corporate Environmental Compliance Audit  
 Month(s) / Year(s): Jan 2016  
 Who conducted the audit(s) (e.g., facility staff, corporate, third party)? Corporate

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? There were no reported emergencies at TMMI last year. Drills were conducted and contingency plans proven to be effective. No changes made to plan at this time.

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).  
Observations were documented and investigated.  
"Plan, Do, Check, Act" utilized to resolve observations  
 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.  
Partners for Pollution Prevention, Adopt-a-Highway, Wildlife Habitat Council, National Public Lands Day

2. Has your facility taken advantage of any ESP incentives? If so, please describe the implementation process and list additional benefits IDEM should consider.

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, 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. 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](mailto:esp@idem.IN.gov).

**Initiative #1**

Category 1: <u>Energy- Electricity</u> Indicator 1: <u>Compressed Air</u>	Baseline (indicate measurement unit)	Current (indicate measurement unit)	Cost Savings
Calendar year	<b>2015</b>	<b>2016</b>	
Actual quantity (per year)	<b>32,237,903</b>	<b>32,58,064</b>	<b>\$0.33/veh (\$132,000/yr)</b>
Production unit (select one)	Earned Labor Hours      Production units      Production lbs. Other -- specify (e.g. Gallons, length, etc.) <b>Vehicles</b>		
Production Quantity	<b>375,000</b>	<b>400,000</b>	<b>NA</b>
Normalization factor (Current year production ÷ Baseline year production) <b>1.066</b>			
Normalized quantity (Actual current year quantity - Actual baseline quantity) x Normalization factor <b>21,505 kwh avoided</b>			
Briefly describe how you achieved improvements for this environmental initiative or, if relevant, any circumstances that delayed progress. TMMI has started an aggressive compressed air leak campaign that not only focuses on identification of air leaks to be fixed, but also education of the true energy impact that these leaks create. Through the use of an ultrasonic leak detector, leaks of all sizes can be identified and repaired, reducing the amount of time that TMMI needs to run the electric air compressors.			

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

**Initiative #2**

Category 2: <u>Haz Waste</u> Indicator 2: <u>Recycling</u>	Baseline <i>(indicate measurement unit)</i>	Current <i>(indicate measurement unit)</i>	Cost Savings
Calendar year	2015	2016	
Actual quantity <i>(per year)</i>	24,000 lbs	0 lbs	\$96,000/year
Production unit <i>(select one)</i>	Earned Labor Hours Other -- specify (e.g. Gallons, length, etc.)	Production units	Production lbs.
Production Quantity	375,000	400,000	NA
Normalization factor (Current year production ÷ Baseline year production) 1.066			
Normalized quantity (Actual current year quantity - Actual baseline quantity) x Normalization factor 25,584 lbs			
Briefly describe <i>how</i> you achieved improvements for this environmental initiative or, if relevant, any circumstances that delayed progress. Utilizing a new recycling vendor to recycle rejected airbags instead of sending to hazardous waste disposal, TMMI was able to avoid creating 24,000 lbs of additional hazardous waste.			

**Initiative #3**

Category 3: _____ Indicator 3: _____	Baseline <i>(indicate measurement unit)</i>	Current <i>(indicate measurement unit)</i>	Cost Savings
Calendar year			
Actual quantity <i>(per year)</i>			
Production unit <i>(select one)</i>	Earned Labor Hours Other -- specify (e.g. Gallons, length, etc.)	Production units	Production lbs.
Production Quantity			NA
Normalization factor (Current year production ÷ Baseline year production)			
Normalized quantity (Actual current year quantity - Actual baseline quantity) x Normalization factor			
Briefly describe <i>how</i> you achieved improvements for this environmental initiative or, if relevant, any circumstances that delayed progress.			

1. Briefly describe the *impacts or wastes* eliminated resulting from the environmental initiative(s). If multiple initiatives, please indicate which specifically.  
 Approximately 24,000lbs of hazardous waste per year is now being recycled instead of just destroyed. Compressed Air reductions result in an electrical demand decrease.

2. Are there other best management practices (BMPs) you can share correlating to your initiative(s)?  
 n/a

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.  
 n/a

4. Please provide a narrative summary of progress made toward *qualitative, significant* EMS objectives and targets, if any.  
 24,000lbs of annual hazardous waste reduction

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).  
 Wildlife Habitat Council, Energy Star (through corporate reporting)

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 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__15__	Future Year 20__18__	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 checked="" type="checkbox"/> Water Use	<input checked="" type="checkbox"/> Total water used	751/veh	689/veh	Gallons
<input checked="" type="checkbox"/> Energy Use	<input type="checkbox"/> Electricity			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 checked="" type="checkbox"/> Other: <u>Compressed Air</u>	99,000	90,000	<u>MMBTU</u>
<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"/> NOx, SOx, 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 checked="" type="checkbox"/> Hazardous Waste	<input type="checkbox"/> Landfill			Pounds, tons
	<input type="checkbox"/> Incineration			Pounds, tons
	<input checked="" 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

If you need assistance filling out the form, please contact the ESP program manager at either [esp@idem.in.gov](mailto: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)? \_\_\_\_\_  
Continued education of impact of compressed air leaks, continued identification and correction of air leaks.
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) Toyota Motor Manufacturing, Indiana

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, TMMI, 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 1<sup>st</sup> 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)  
2-13-17

Printed signature

Paul Delor

Title

Environmental Specialist