Environmental Stewardship Program

Environmental Performance Table

Using the Environmental Performance Table
As stated in the ESP Eligibility Requirements, facilities must commit to continued environmental improvement in order to become an ESP member. Commitments are chosen by the facility, not by IDEM, and should relate to the facility's environmental aspects. ESP applicants and members should refer to the Environmental Performance Table to categorize and measure their environmental improvement initiatives so program results are standardized.

Selecting an Environmental Improvement Initiative
The Environmental Performance Table categorizes environmental impacts in the following stages:

- Upstream Stage: Environmental impacts that occur before a facility's processes begin.
- Inputs Stage: Environmental impacts from resources that are added to processes at your facility.
- Non-product Outputs Stage: Environmental impacts from the outputs of your facility's processes, except for product and product-related materials such as packaging.
- Downstream Stage: Environmental impacts from your facility's activities and decisions that occur after your processes.

Your environmental improvement initiative must meet the following criteria:

- Only two initiatives over a four-year membership term can be of the same category.
- Commitments should relate to the life cycle of the facility's products or services. A facility's set of commitments is limited to one commitment that is not related to the life cycle of its products or services (e.g., Land and Habitat category).
- All commitments should reflect facility-wide measurements. For example, while a facility may focus its efforts to reduce solvent usage on one particular process, the reported measurement should be of the solvent's usage across the entire facility.
- If the Environmental Performance Table includes the parenthetical "(total or specific)," you may choose to focus your commitment on a specific subset of that indicator. For example, for VOCs, you might choose to report on the total amount of VOC emissions at your facility, or you might instead choose to report only on ethane.
- If you select an indicator that is currently regulated, then your commitment must go beyond regulatory requirements.
- Ensure that there is no redundancy ("double-counting") among the indicators that you have selected. In other words, avoid including the same performance information in more than one measurement.

The following abbreviations are used in the table:

Btu	=	British thermal units
BOD	=	Biological oxygen demand
CFC	=	Chlorofluorocarbons
CFU	=	Colony forming units
CO	=	Carbon monoxide
COD	=	Chemical oxygen demand
dBA	=	Decibels adjusted to measure human response to sound
GHG	=	Greenhouse gases
kWh	=	Kilowatt hours
MMBtu	=	Million metric British thermal units
MPN	=	Most probable number
$MTCO_2E$	=	Metric tons of CO_2 equivalents
MWh	=	Megawatt hours
N	=	Nitrogen
NOx	=	Nitrous oxides
P	=	Phosphorus
PM	=	Particulate matter
SOx	=	Sulfur oxides
VOC	=	Volatile organic compounds

Category	Indicator	Units
Stage: Upstream		
Material Procurement	Recycled content (Total or specific)	Pounds, tons
	Hazardous/toxic components (Total or specific)	Pounds, tons
Suppliers' Environmental Performance	Any relevant indicators from the Inputs or Non-product Outputs stages	As specified for the particular indicator
Stage: Inputs		
Material Use	Materials used (Total or specific)	Pounds, tons
	Hazardous materials used (Total or specific)	Pounds, tons
	Ozone depleting substances used (Total or specific)	CFC-11 equivalent pounds
	Total packaging materials used	Pounds, tons
Water Use	Total water used	Gallons
Energy Use	Electricity	kWh / MWh, Btu / MMBtu
	Steam	kWh / MWh, gallons, ft^3
	Coal	kWh / MWh
	Natural gas	Btu / MMBtu
	Diesel	Gallons
	Propane / LPG	Btu / MMBtu, gallons
	Gasoline	Gallons
	Solar	kWh / MWh
	Wind	kWh / MWh
	Landfill gas	Btu / MMBtu
	Geothermal	kWh / MWh
	Hydroelectric	kWh / MWh
	Other fuel or source	
Land and Habitat	Land and habitat conservation	Square feet, acres
	Community land revitalization	Square feet, acres
Stage: Non-product Outputs		
Air Emissions	Total GHGs	MTCO2E
	VOCs (Total or specific)	Pounds, tons
	NOx, SOx, $PM_{2.5}$, PM_{10}, or CO	Pounds, tons
	Air toxics (Total or specific)	Pounds, tons
	Odor	European Odour Units
	Radiation	Curies, Becquerels
	Dust	Pounds, tons
Discharges to Water	COD, BOD, toxics (Total or specific), total suspended solids, or sediment from runoff	Pounds, tons
	Nutrients (Total or specific)	Pounds, tons of Total N or P
	Pathogens (Total or specific)	MPN/ml, CFU/ml
Waste (Non-hazardous or hazardous)	Landfill or incineration	Pounds, tons
	Reused/recycled off-site	Pounds, tons, gallons
	Other management method	Pounds, tons, gallons
Noise	Noise	dBA
Vibration	Vibration	Inches per second
Stage: Downstream		
Products	Expected lifetime energy or water use (Total or specific)	kWh / MWh, Btu / MMBtu, gallons
	Expected lifetime waste from product use, disposal, or recovery (Total or specific)	Pounds, tons