Higg | Trusted Sustainability Data

Performance Data (CSV) Documentation

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Contents

1 Introduction **1**

2 What's different **1**

2.1 When should one use the bulk csv export? 2

2.2 Facility Classification 2

3 Performance Data (CSV) with Bulk CSV REF IDs **3**

1 Introduction

The Higg FEM Performance Data (CSV) is geared towards supporting 90% of analyses we see conducted with FEM data. Which is to say, most users have been concerned with facility performance on quantitative metrics. It only contains the necessary data–key metadata, facility classifiers, scores, and quantitative values–for these analyses.

We've also tried to reduce the data wrangling and comprehension burden. We've cleaned up the column names to make them human-readable and informative, simplified the available data (no more suffixes for self and verified), and made a few handy translations and calculations. And this documentation file should provide some more insight into the actual data.

2 What's different

1. Variables renamed to be human-readable and analyst-friendly
    - Units in the name (e.g., `total_ghg_emissions_kgco2e`)
    - Words separated by _
    - Common structure for easy grabbing
2. Built for 90% of analyses
    - Metadata
    - Main Facility Filters: Country, etc.
    - Operating Data
    - Quantitative Data: GHGs, Energy, Water, Waste

- Scores
- Other Filters: Product Categories, Processes, Materials

3. Takes the best available data
    - Only completed, posted, and shared assessments
    - If verified data is available, that is in the dataset; Else, it is self-reported. Use "verified_posted" to segment your dataset.
4. Data is pre-wrangled
    1. Mapped and coalesced REF IDs that changed over multiple FEM versions
    2. Classified facilities into tiers and common types for easy analysis (more details below)
    3. Hazardous and Non-Hazardous waste totals calculated

2.1 When should one use the bulk csv export?

1. We hope the Performance Data (CSV) actually *helps* you navigate the bulk csv export by making the data more approachable.
2. The bulk csv export will offer the most comprehensive view of your facilities' sustainability performance.
3. If you want to answer questions such as:
    1. How does verification change within-facility scores and responses?
    2. What targets and baselines are facilities setting?
    3. Which questions prevent facilities from "leveling up" (in FEM parlance)?
    4. Are facilities up-to-date with required permits?
    5. Are facilities compliant with [X] brand-specific requirement?

2.2 Facility Classification

1. Tiers (One to Four)
    - Based on facility processes
    - Numeric, not boolean!
        - Scores correspond to number of processes reported in a given tier
2. Types (Four total)
    - Types
        - Cut Sew
        - Footwear Assembly
        - Yarn Product Manufacturer
        - Wet Mills
    - Based on facility sector and processes
    - Boolean value (0,1)

For more details, please reach out to the Higg Data Team. We'd love your feedback to improve our facility classification and create more "types" that matter to you. The current types focus on the apparel, footwear, and textile sectors, and we'd love to produce types that are more important in other sectors.

3 Performance Data (CSV) with Bulk CSV REF IDs

Table 1: Performance Data (CSV) with Bulk CSV REF IDs

Section		Name	fem2021	fem2020	fem2017
Metadata	1	survey_id	surveyid	surveyid	surveyid
Metadata	2	account_id	accountid	accountid	accountid
Metadata	3	account_name	groupname	groupname	groupname
Metadata	4	account_country	accountcountry	accountcountry	accountcountry
Metadata	5	higg_id	sacid	sacid	sacid
Metadata	6	oar_id	oar	oar	oar
Metadata	7	parent_company	parentcompany	parentcompany	parentcompany
Metadata	8	facilityfoundations	facilityfoundations		
Facility Classifiers	9	site_country	sitecountry	sitecountry	sitecountry
Facility Classifiers	10	site_location	city/vicinity	city/vicinity	city/vicinity
Facility Classifiers	11	lat	lat	lat	lat
Facility Classifiers	12	long	long	long	long
Facility Classifiers	13	verified_posted	verifiedposted	verifiedposted	verifiedposted
Facility Classifiers	14	cadence	version	version	version
Facility Classifiers	15	total_accuracy	totalAccuracy	totalAccuracy	totalAccuracy
Facility Classifiers	16	sector	sipindustrysector	sipindustrysector	sipindustrysector
Facility Classifiers	17	tier_one			
Facility Classifiers	18	tier_two			
Facility Classifiers	19	tier_three			
Facility Classifiers	20	tier_four			
Facility Classifiers	21	cut_sew			
Facility Classifiers	22	footwear_assembly			
Facility Classifiers	23	yarn_product_manufacturer			
Facility Classifiers	24	wet_mill			
Facility Classifiers	25	facility_type	sipfacilitytype	sipfacilitytype	sipfacilitytypesew, sipfacilitytypetrim, sipfacilitytypeprint, sipfacilitytypematerial, sipfacilitytypepackaging, sipfacilitytypechem, sipfacilitytypeother
Facility Classifiers	26	tags	tags	tags	tags
Operating Data	27	operating_days	sipoperatingdays	sipoperatingdays	sipoperatingdays
Operating Data	28	employees_full_time	sipfulltimeemployees	sipfulltimeemployees	sipfulltimeemployees
Operating Data	29	employees_temp	siptempemployees	siptempemployees	siptempemployees
Operating Data	30	annual_prod_vol_amount	sipfacilityannualprodvolquant	sipfacilityannualprodvolquant	sipfacilityannualprodvolquant
Operating Data	31	annual_prod_vol_units	sipfacilityannualprodvolunits	sipfacilityannualprodvolunits	sipfacilityannualprodvolunits
GHG	32	total_ghg_kgco2e	totalGHGemissions	totalGHGemissions	totalGHGemissions
GHG	33	total_non_renewable_ghg_kgco2e	totalNonRenewableEmissions	totalNonRenewableEmissions	totalNonRenewableEmissions
GHG	34	total_refrigerant_ghg_kgco2e	totalRefrigerantEmissions	totalRefrigerantEmissions	totalRefrigerantEmissions

Table 1: Performance Data (CSV) with Bulk CSV REF IDs *(continued)*

Section		Name	fem2021	fem2020	fem2017
GHG	35	air_emissions_refrig1_ghg_kgco2e	airsourcerefrig1.GHG	airsourcerefrig1.GHG	airsourcerefrig1.GHG
GHG	36	air_emissions_refrig2_ghg_kgco2e	airsourcerefrig2.GHG	airsourcerefrig2.GHG	airsourcerefrig2.GHG
GHG	37	air_emissions_refrig3_ghg_kgco2e	airsourcerefrig3.GHG	airsourcerefrig3.GHG	airsourcerefrig3.GHG
GHG	38	air_emissions_refrig4_ghg_kgco2e	airsourcerefrig4.GHG	airsourcerefrig4.GHG	airsourcerefrig4.GHG
GHG	39	air_emissions_refrig5_ghg_kgco2e	airsourcerefrig5.GHG	airsourcerefrig5.GHG	airsourcerefrig5.GHG
GHG	40	ghg_biodiesel_kgco2e	biodiesel.GHG: nonrenewable	biodiesel.GHG: nonrenewable	biomassbiodiesel.GHG
GHG	41	ghg_biomassgen_kgco2e	biomassgen.GHG: renewable	biomassgen.GHG: renewable	biomassbeg.GHG, biomasscane.GHG, biomasscashew.GHG, biomasscorncob.GHG, biomasscornstalk.GHG, biomassefb.GHG, biomasseuca.GHG, biomassother.GHG, biomasspalmfiber.GHG, biomasspalmleaf.GHG, biomasspalmshell.GHG, biomasspalmtrunk.GHG, biomassparawood.GHG, biomasspeanutshells.GHG, biomassricehusks.GHG, biomassricestraw.GHG, biomasstapioca.GHG
GHG	42	ghg_biomasswood_kgco2e	biomasswood.GHG: renewable	biomasswood.GHG: renewable	biomasssawdust.GHG, biomassliverwood.GHG
GHG	43	ghg_chilledwater_kgco2e	chilledwater.GHG: nonrenewable	chilledwater.GHG: nonrenewable	chilledwater.GHG: nonrenewable
GHG	44	ghg_coal_kgco2e	coal.GHG: nonrenewable	coal.GHG: nonrenewable	coal.GHG: nonrenewable
GHG	45	ghg_diesel_kgco2e	diesel.GHG: nonrenewable	diesel.GHG: nonrenewable	diesel.GHG: nonrenewable
GHG	46	ghg_electricpurch_kgco2e	electricpurch.GHG: nonrenewable	electricpurch.GHG: nonrenewable	electricpurch.GHG: nonrenewable
GHG	47	ghg_fueloil_kgco2e	fueloil.GHG: nonrenewable	fueloil.GHG: nonrenewable	fueloil.GHG: nonrenewable
GHG	48	ghg_geotherm_kgco2e	geotherm.GHG: renewable	geotherm.GHG: renewable	geotherm.GHG: renewable
GHG	49	ghg_hydro_kgco2e	hydro.GHG: renewable	hydro.GHG: renewable	hydro.GHG: renewable
GHG	50	ghg_lpg_kgco2e	lpg.GHG: nonrenewable	lpg.GHG: nonrenewable	natgaslpg.GHG, natgaslng.GHG
GHG	51	ghg_lng_kgco2e	lng.GHG: nonrenewable		
GHG	52	ghg_microhydro_kgco2e	microhydro.GHG: renewable	microhydro.GHG: renewable	microhydro.GHG: renewable
GHG	53	ghg_naturalgas_kgco2e	naturalgas.GHG: nonrenewable	naturalgas.GHG: nonrenewable	naturalgas.GHG: nonrenewable
GHG	54	ghg_petrol_kgco2e	petrol.GHG: nonrenewable	petrol.GHG: nonrenewable	petrol.GHG: nonrenewable
GHG	55	ghg_propane_kgco2e	propane.GHG: nonrenewable	propane.GHG: nonrenewable	natgaspropane.GHG
GHG	56	ghg_purchrenew_kgco2e	purchrenew.GHG: renewable	purchrenew.GHG: renewable	purchrenew.GHG: renewable
GHG	57	ghg_solarphoto_kgco2e	solarphoto.GHG: renewable	solarphoto.GHG: renewable	solarphoto.GHG: renewable
GHG	58	ghg_solarthermal_kgco2e	solarthermal.GHG: renewable	solarthermal.GHG: renewable	solarthermal.GHG: renewable
GHG	59	ghg_steampurch_kgco2e	steampurch.GHG: nonrenewable	steampurch.GHG: nonrenewable	steampurch.GHG: nonrenewable
GHG	60	ghg_wind_kgco2e	wind.GHG: renewable	wind.GHG: renewable	wind.GHG: renewable
Energy	61	total_energy_mj	ensourcetotal	ensourcetotal	ensourcetotal
Energy	62	energy_biodiesel_mj	ensourcebiodieseltotal	ensourcebiodieseltotal	ensourcebiomassbiodieseltotal
Energy	63	energy_biomassgen_mj	ensourcebiomassgentotal	ensourcebiomassgentotal	ensourcebiomassbegtotal, ensourcebiomasscanetotal, ensourcebiomasscashewtotal, ensourcebiomasscorncobtotal, ensourcebiomasscornstalktotal, ensourcebiomassefbtotal, ensourcebiomasseucatotal, ensourcebiomassothertotal, ensourcebiomasspalmfibertotal, ensourcebiomasspalmleaftotal, ensourcebiomasspalmshelltotal, ensourcebiomasspalmtrunkto-tal, ensourcebiomassparawoodtotal, ensourcebiomasspeanutshellsto-tal, ensourcebiomassricehuskstotal, ensourcebiomassricestrawtotal, ensourcebiomasstapiocatotal
Energy	64	energy_biomasswood_mj	ensourcebiomasswoodtotal	ensourcebiomasswoodtotal	ensourcebiomasssawdusttotal, ensourcebiomassliverwoodtotal
Energy	65	energy_chilledwater_mj	ensourcechilledwatertotal	ensourcechilledwatertotal	ensourcechilledwatertotal
Energy	66	energy_coal_mj	ensourcecoaltotal	ensourcecoaltotal	ensourcecoaltotal
Energy	67	energy_diesel_mj	ensourcedieseltotal	ensourcedieseltotal	ensourcedieseltotal
Energy	68	energy_electricpurch_mj	ensourceelectricpurchtotal	ensourceelectricpurchtotal	ensourceelectricpurchtotal
Energy	69	energy_fueloil_mj	ensourcefueloiltotal	ensourcefueloiltotal	ensourcefueloiltotal
Energy	70	energy_geotherm_mj	ensourcegeothermtotal	ensourcegeothermtotal	ensourcegeothermtotal
Energy	71	energy_hydro_mj	ensourcehydrototal	ensourcehydrototal	ensourcehydrototal
Energy	72	energy_lpg_mj	ensourcelpgtotal	ensourcelpgtotal	ensourcenatgaslpgtotal, ensourcenatgaslngtotal
Energy	73	energy_lng_mj	ensourcelngtotal		
Energy	74	energy_microhydro_mj	ensourcemicrohydrototal	ensourcemicrohydrototal	ensourcemicrohydrototal
Energy	75	energy_naturalgas_mj	ensourcenaturalgastotal	ensourcenaturalgastotal	ensourcenaturalgastotal
Energy	76	energy_petrol_mj	ensourcepetroltotal	ensourcepetroltotal	ensourcepetroltotal
Energy	77	energy_propane_mj	ensourcepropanetotal	ensourcepropanetotal	ensourcenatgaspropanetotal
Energy	78	energy_purchrenew_mj	ensourcepurchrenewtotal	ensourcepurchrenewtotal	

Table 1: Performance Data (CSV) with Bulk CSV REF IDs *(continued)*

Section		Name	fem2021	fem2020	fem2017
Energy	79	energy_solarphoto_mj	ensourcesolarphotototal	ensourcesolarphotototal	ensourcesolarphotototal
Energy	80	energy_solarthermal_mj	ensourcesolarthermaltotal	ensourcesolarthermaltotal	
Energy	81	energy_steampurch_mj	ensourcesteampurchtotal	ensourcesteampurchtotal	ensourcesteampurchtotal
Energy	82	energy_wind_mj	ensourcewindtotal	ensourcewindtotal	ensourcewindtotal
Water	83	water_surface_l	watsourcesurfacetotal	watsourcesurfacetotal	watsourcesurfacetotal
Water	84	water_rain_l	watsourceraintotal	watsourceraintotal	watsourceraintotal
Water	85	water_ground_l	watsourcegroundtotal	watsourcegroundtotal	watsourcegroundtotal
Water	86	water_municipal_l	watsourcemunicipaltotal	watsourcemunicipaltotal	watsourcemunicipaltotal
Water	87	water_sea_l	watsourceseatotal	watsourceseatotal	watsourceseatotal
Water	88	water_prod_l	watsourceprodtotal	watsourceprodtotal	watsourceprodtotal
Water	89	water_wastewater_l	watsourcewasteltotal	watsourcewasteltotal	watsourcewasteltotal
Water	90	water_comb_l	watsourcecombtotal	watsourcecombtotal	watsourcecombtotal
Water	91	total_water_l	watsourcetotaltotal	watsourcetotaltotal	watsourcetotal
Waste	92	total_waste_kg	wstsourcetotal	wstsourcetotal	wstsourcetotal
Waste	93	nonhazardous_waste_materials_kg	wstsourcenhmaterialstotal	wstsourcenhmaterialstotal	wstsourcenhmaterialstotal
Waste	94	nonhazardous_waste_metal_kg	wstsourcenhmetaltotal	wstsourcenhmetaltotal	wstsourcenhmetaltotal
Waste	95	nonhazardous_waste_plastic_kg	wstsourcenhplastictotal	wstsourcenhplastictotal	wstsourcenhplastictotal
Waste	96	nonhazardous_waste_paper_kg	wstsourcenhpapertotal	wstsourcenhpapertotal	wstsourcenhpapertotal
Waste	97	nonhazardous_waste_cans_kg	wstsourcenhcanstotal	wstsourcenhcanstotal	wstsourcenhcanstotal
Waste	98	nonhazardous_waste_food_kg	wstsourcenhfoodtotal	wstsourcenhfoodtotal	wstsourcenhfoodtotal
Waste	99	nonhazardous_waste_glass_kg	wstsourcenhglasstotal	wstsourcenhglasstotal	wstsourcenhglasstotal
Waste	100	nonhazardous_waste_cartons_kg	wstsourcenhcartonstotal	wstsourcenhcartonstotal	wstsourcenhcartonstotal
Waste	101	nonhazardous_waste_other_kg	wstsourcenhothertotal	wstsourcenhothertotal	wstsourcenhothertotal
Waste	102	nonhazardous_waste_domtotal_kg	wstsourcenhdomtotaltotal	wstsourcenhdomtotaltotal	wstsourcenhdomtotaltotal
Waste	103	hazardous_waste_prodchemdrum_kg	wstsourcehprodchemdrumtotal	wstsourcehprodchemdrumtotal	wstsourcehprodchemdrumtotal
Waste	104	hazardous_waste_prodfilmprint_kg	wstsourcehprodfilmprinttotal	wstsourcehprodfilmprinttotal	wstsourcehprodfilmprinttotal
Waste	105	hazardous_waste_prodsludge_kg	wstsourcehprodsludgetotal	wstsourcehprodsludgetotal	wstsourcehprodsludgetotal
Waste	106	hazardous_waste_prodchem_kg	wstsourcehprodchemtotal	wstsourcehprodchemtotal	wstsourcehprodchemtotal
Waste	107	hazardous_waste_prodcompgas_kg	wstsourcehprodcompgastotal	wstsourcehprodcompgastotal	wstsourcehprodcompgastotal
Waste	108	hazardous_waste_prodcontammat_kg	wstsourcehprodcontammattotal	wstsourcehprodcontammattotal	wstsourcehprodcontammattotal
Waste	109	hazardous_waste_dombatteries_kg	wstsourcehdombatteriestotal	wstsourcehdombatteriestotal	wstsourcehdombatteriestotal
Waste	110	hazardous_waste_domflolight_kg	wstsourcehdomflolighttotal	wstsourcehdomflolighttotal	wstsourcehdomflolighttotal
Waste	111	hazardous_waste_dominkcart_kg	wstsourcehdominkcarttotal	wstsourcehdominkcarttotal	wstsourcehdominkcarttotal
Waste	112	hazardous_waste_domoilgrease_kg	wstsourcehdomoilgreasetotal	wstsourcehdomoilgreasetotal	wstsourcehdomoilgreasetotal
Waste	113	hazardous_waste_domemptycont_kg	wstsourcehdomemptyconttotal	wstsourcehdomemptyconttotal	wstsourcehdomemptyconttotal
Waste	114	hazardous_waste_domelectronic_kg	wstsourcehdomelectronictotal	wstsourcehdomelectronictotal	wstsourcehdomelectronictotal
Waste	115	hazardous_waste_domcoalcomb_kg	wstsourcehdomcoalcombtotal	wstsourcehdomcoalcombtotal	wstsourcehdomcoalcombtotal
Waste	116	hazardous_waste_other_kg	wstsourcehothertotal	wstsourcehothertotal	wstsourcehothertotal
Waste	117	total_hazardous_waste_kg			
Waste	118	total_nonhazardous_waste_kg			
Applicabilities	119	air_applicability	air.applicability	air.applicability	air.applicability
Applicabilities	120	chemicals_applicability	chemicals.applicability	chemicals.applicability	chemicals.applicability
Applicabilities	121	ems_applicability	ems.applicability	ems.applicability	ems.applicability
Applicabilities	122	water_applicability	water.applicability	water.applicability	water.applicability
Applicabilities	123	wastewater_applicability	wastewater.applicability	wastewater.applicability	wastewater.applicability
Scores	124	total_fem_score	score.total	score.total	score.total
Scores	125	total_air_score	air.score	air.score	air.score
Scores	126	total_chemicals_score	chemicals.score	chemicals.score	chemicals.score
Scores	127	total_ems_score	ems.score	ems.score	ems.score
Scores	128	total_energy_score	energy.score	energy.score	energy.score
Scores	129	total_waste_score	waste.score	waste.score	waste.score
Scores	130	total_wastewater_score	wastewater.score	wastewater.score	wastewater.score
Scores	131	total_water_score	water.score	water.score	water.score
Scores	132	air_track_emissions_from_operations_score	air_airsourceopstrack	air_airsourceopstrack	air_airsourceopstrack
Scores	133	air_track_emissions_from_production_score	air_airsourceprodtrack	air_airsourceprodtrack	air_airsourceprodtrack
Scores	134	air_add_new_refrigerants_score	air_airsourcerefrignew	air_airsourcerefrignew	air_airsourcerefrignew
Scores	135	air_control_device_point_source_emissions_score	air_aircontroldevopshtml	air_aircontroldevopshtml	air_aircontroldevopshtml
Scores	136	air_control_device_non_point_source_emissions_score	air_aircontroldevprodhtml	air_aircontroldevprodhtml	air_aircontroldevprodhtml
Scores	137	air_beyond_permit_score	air_airbeyondpermit	air_airbeyondpermit	air_airbeyondpermit
Scores	138	air_process_implement_modern_equipment_score	air_airimplementprocess	air_airimplementprocess	air_airimplementprocess
Scores	139	air_no_emissions_score	air_airnoemissions	air_airnoemissions	air_airnoemissions
Scores	140	chemicals_track_inventory_score	chemicals_chemtrack	chemicals_chemtrack	chemicals_chemtrack
Scores	141	chemicals_sds_score	chemicals_chemsds	chemicals_chemsds	chemicals_chemsds
Scores	142	chemicals_training_score	chemicals_chemtraining	chemicals_chemtraining	chemicals_chemtraining
Scores	143	chemicals_emergency_plan_score	chemicals_chememergplan	chemicals_chememergplan	chemicals_chememergplan
Scores	144	chemicals_safety_equipment_score	chemicals_chemsafetyequip	chemicals_chemsafetyequip	chemicals_chemsafetyequip
Scores	145	chemicals_hazard_sign_score	chemicals_chemhazardsign	chemicals_chemhazardsign	chemicals_chemhazardsign
Scores	146	chemicals_purchase_requirements_rsl_score	chemicals_chempurchasereq	chemicals_chempurchasereq	chemicals_chempurchasereq
Scores	147	chemicals_health_safety_program_score	chemicals_chemhealthprogram	chemicals_chemhealthprogram	chemicals_chemhealthprogram
Scores	148	chemicals_storage_score	chemicals_chemstorage	chemicals_chemstorage	chemicals_chemstorage
Scores	149	chemicals_training_rsl_score	chemicals_chemtrainingrsl	chemicals_chemtrainingrsl	chemicals_chemtrainingrsl
Scores	150	chemicals_process_identify_rsl_score	chemicalsprocess_identify_rsl_score	chemicalsprocess_identify_rsl_score	chemicalsprocess_identify_rsl_score
Scores	151	chemicals_process_monitor_rsl_score	chemicals_chemprocessmonitorrsl	chemicals_chemprocessmonitorrsl	chemicals_chemprocessmonitorrsl
Scores	152	chemicals_trace_inventory_score	chemicals_chemtraceinventory	chemicals_chemtraceinventory	chemicals_chemtraceinventory
Scores	153	chemicals_mgmt_improvement_plan_score	chemicals_chemimproveplan	chemicals_chemimproveplan	chemicals_chemimproveplan
Scores	154	chemicals_hazardous_chem_reduction_plan_score	chemicals_chemreduceplan	chemicals_chemreduceplan	chemicals_chemreduceplan
Scores	155	chemicals_source_beyond_rsl_score	chemicals_chemsourcelist	chemicals_chemsourcelist	chemicals_chemsourcelist

Table 1: Performance Data (CSV) with Bulk CSV REF IDs *(continued)*

Section		Name	fem2021	fem2020	fem2017
Scores	156	chemicals_collaborate_find_alternatives_score	chemicals_chemcollabalternatives	chemicals_chemcollabalternatives	chemicals_chemcollabalternatives
Scores	157	chemicals_alternatives_analysis_against_human_env_criteria_score	chemicals_chemanalysishumanenv	chemicals_chemanalysishumanenv	chemicals_chemanalysishumanenv
Scores	158	chemicals_alternatives_analsis_lifecycle_impacts_score	chemicals_chemanalysislifecycle	chemicals_chemanalysislifecycle	chemicals_chemanalysislifecycle
Scores	159	chemicals_trace_lot_number_score	chemicals_chemtracelotnumber	chemicals_chemtracelotnumber	chemicals_chemtracelotnumber
Scores	160	chemicals_documented_qa_score	chemicals_chemdocumentedqa	chemicals_chemdocumentedqa	chemicals_chemdocumentedqa
Scores	161	chemicals_contractors_rsl_score	chemicals_chemcontractorsrsl	chemicals_chemcontractorsrsl	chemicals_chemcontractorsrsl
Scores	162	chemicals_documented_innovation_goals_score	chemicals_chemdocumentedgoals	chemicals_chemdocumentedgoals	chemicals_chemdocumentedgoals
Scores	163	ems_mgmt_score	ems_emsmgmt	ems_emsmgmt	ems_emsmgmt
Scores	164	ems_strategy_score	ems_emsstrategy	ems_emsstrategy	ems_emsstrategy
Scores	165	ems_ops_impact_score	ems_emsopsimpact	ems_emsopsimpact	ems_emsopsimpact
Scores	166	ems_permit_status_score	ems_emspermitstatus	ems_emspermitstatus	ems_emspermitstatus
Scores	167	ems_regulation_system_score	ems_emsregulationsystem	ems_emsregulationsystem	ems_emsregulationsystem
Scores	168	ems_maintain_equipment_score	ems_emsequipmaintain	ems_emsequipmaintain	ems_emsequipmaintain
Scores	169	ems_review_strategy_score	ems_emsstrategyreview	ems_emsstrategyreview	ems_emsstrategyreview
Scores	170	ems_mgmt_competence_score	ems_emsmgmtcompetence	ems_emsmgmtcompetence	ems_emsmgmtcompetence
Scores	171	ems_strategy_awareness_score	ems_emsstrategyawareness	ems_emsstrategyawareness	ems_emsstrategyawareness
Scores	172	ems_higg_index_subcontract_score	ems_emshiggindexsubcontract	ems_emshiggindexsubcontract	ems_emshiggindexsubcontract
Scores	173	ems_engage_local_score	ems_emsengagelocal	ems_emsengagelocal	ems_emsengagelocal
Scores	174	ems_higg_index_upstream_score	ems_emshiggindexupstream	ems_emshiggindexupstream	ems_emshiggindexupstream
Scores	175	energy_track_sources_score	energy_ensourcetrackopt	energy_ensourcetrackopt	energy_ensourcetrackopt
Scores	176	energy_baseline_amount_score	energy_enbaselinesource	energy_enbaselinesource	energy_enbaselinesource
Scores	177	energy_identify_highest_use_processes_score	energy_enhighestuse	energy_enhighestuse	energy_enhighestuse
Scores	178	energy_target_amount_score	energy_entargetssource	energy_entargetssource	energy_entargetssource
Scores	179	energy_improvement_plan_score	energy_enimproveplan	energy_enimproveplan	energy_enimproveplan
Scores	180	energy_reduction_score	energy_enimprovesource	energy_enimprovesource	energy_enimprovesource
Scores	181	water_track_sources_score	water_watsources	water_watsources	water_watsources
Scores	182	water_baseline_amount_score	water_watbaselineopt	water_watbaselineopt	water_watbaselineopt
Scores	183	water_identify_highest_use_processes_score	water_wathighestuse	water_wathighestuse	water_wathighestuse
Scores	184	water_target_amount_score	water_wattargetopt	water_wattargetopt	water_wattargetopt
Scores	185	water_improvement_plan_score	water_watimproveplan	water_watimproveplan	water_watimproveplan
Scores	186	water_reduction_score	water_watimproveopt	water_watimproveopt	water_watimproveopt
Scores	187	water_balance_analysis_score	water_watbalanceanalysis	water_watbalanceanalysis	water_watbalanceanalysis
Scores	188	wastewater_track_volume_score	wastewater_wwtrack	wastewater_wwtrack	wastewater_wwtrack
Scores	189	wastewater_offsite_treatment_contact_score	wastewater_wwoffsitetreatplant	wastewater_wwoffsitetreatplant	wastewater_wwoffsitetreatplant
Scores	190	wastewater_emergency_plan_score	wastewater_wwemergplan	wastewater_wwemergplan	wastewater_wwemergplan
Scores	191	wastewater_hazardous_sludge_disposal_score	wastewater_wwhsludgedisposal	wastewater_wwhsludgedisposal	wastewater_wwhsludgedisposal
Scores	192	wastewater_nonhazardous_sludge_disposal_score	wastewater_wwnhsludgedisposal	wastewater_wwnhsludgedisposal	wastewater_wwnhsludgedisposal
Scores	193	wastewater_treat_septic_score	wastewater_wwsepticwater	wastewater_wwsepticwater	wastewater_wwsepticwater
Scores	194	wastewater_standard_reporting_score	wastewater_wwstandard	wastewater_wwstandard	wastewater_wwstandard
Scores	195	wastewater_quality_test_score	wastewater_wwqualitytest	wastewater_wwqualitytest	wastewater_wwqualitytest
Scores	196	wastewater_recycle_score	wastewater_wwrecycle	wastewater_wwrecycle	wastewater_wwrecycle
Scores	197	waste_nonhazardous_track_streams_score	waste_wstsourcenh	waste_wstsourcenh	waste_wstsourcenh
Scores	198	waste_hazardous_track_streams_score	waste_wstsourceh	waste_wstsourceh	waste_wstsourceh
Scores	199	waste_segregate_streams_score	waste_wstsegregatestreams	waste_wstsegregatestreams	waste_wstsegregatestreams
Scores	200	waste_hazardous_storage_score	waste_wsthstorage	waste_wsthstorage	waste_wsthstorage
Scores	201	waste_nonhazardous_storage_score	waste_wstnhstorage	waste_wstnhstorage	waste_wstnhstorage
Scores	202	waste_open_burning_dumping_score	waste_wstpolhtml	waste_wstpolhtml	waste_wstpolhtml
Scores	203	waste_hazardous_training_score	waste_wsthtrain	waste_wsthtrain	waste_wsthtrain
Scores	204	waste_baseline_amount_score	waste_wstbaseline	waste_wstbaseline	waste_wstbaseline
Scores	205	waste_baseline_disposal_methods_score	waste_wstbaselinedisp	waste_wstbaselinedisp	waste_wstbaselinedisp
Scores	206	waste_target_amount_score	waste_wsttarget	waste_wsttarget	waste_wsttarget
Scores	207	waste_target_disposal_methods_score	waste_wsttargetdisp	waste_wsttargetdisp	waste_wsttargetdisp
Scores	208	waste_reduction_improvement_plan_score	waste_wstredimpplan	waste_wstredimpplan	waste_wstredimpplan
Scores	209	waste_reduction_improvement_from_baseline_score	waste_wstredimp2017	waste_wstredimp2018	waste_wstredimp2019
Scores	210	waste_reduction_improvement_disposal_methods_score	waste_wstredimpdisp	waste_wstredimpdisp	waste_wstredimpdisp
Scores	211	waste_validate_treatment_disposal_score	waste_wsthazdispvalidate	waste_wsthazdispvalidate	waste_wsthazdispvalidate
Scores	212	waste_divert_90_percent_score	waste_wstdispzeroscore	waste_wstdispzeroscore	waste_wstdispzeroscore
Scores	213	waste_upcycle_score	waste_wstdispupcycle	waste_wstdispupcycle	waste_wstdispupcycle
Level Achievement	214	air_levels_achieved	air_levelsAchieved	air_levelsAchieved	air_levelsAchieved
Level Achievement	215	chemicals_levels_achieved	chemicals_levelsAchieved	chemicals_levelsAchieved	chemicals_levelsAchieved
Level Achievement	216	ems_levels_achieved	ems_levelsAchieved	ems_levelsAchieved	ems_levelsAchieved
Level Achievement	217	energy_levels_achieved	energy_levelsAchieved	energy_levelsAchieved	energy_levelsAchieved
Level Achievement	218	water_levels_achieved	water_levelsAchieved	water_levelsAchieved	water_levelsAchieved
Level Achievement	219	wastewater_levels_achieved	wastewater_levelsAchieved	wastewater_levelsAchieved	wastewater_levelsAchieved
Level Achievement	220	waste_levels_achieved	waste_levelsAchieved	waste_levelsAchieved	waste_levelsAchieved

Table 1: Performance Data (CSV) with Bulk CSV REF IDs *(continued)*

Section		Name	fem2021	fem2020	fem2017
Product Categories	221	facility_apparel_pc	sipfacilityapparelpc	sipfacilityapparelpc	
Product Categories	222	facility_footwear_pc	sipfacilityfootwearpc	sipfacilityfootwearpc	
Product Categories	223	facility_home_tex_pc	sipfacilityhometexpc	sipfacilityhometexpc	
Product Categories	224	facility_accessory_pc	sipfacilityaccessorypc	sipfacilityaccessorypc	
Product Categories	225	facility_hard_goods_pc	sipfacilityhardgoodspc	sipfacilityhardgoodspc	
Facility Processes	226	facility_processes_sew	sipfacilityprocessessew	sipfacilityprocessessew	sipfacilityprocessessew
Facility Processes	227	facility_processes_print_dye	sipfacilityprocessesprintdye	sipfacilityprocessesprintdye	sipfacilityprocessesprintdye
Facility Processes	228	facility_processes_materials	sipfacilityprocessesmaterials	sipfacilityprocessesmaterials	sipfacilityprocessesmaterials
Facility Processes	229	facility_processes_trim	sipfacilityprocessestrim	sipfacilityprocessestrim	sipfacilityprocessestrim
Facility Processes	230	facility_processes_chem	sipfacilityprocesseschem	sipfacilityprocesseschem	sipfacilityprocesseschem
Facility Processes	231	facility_processes_pkg	sipfacilityprocessespkg	sipfacilityprocessespkg	sipfacilityprocessespkg
Materials	232	material_barriers	sipmaterialbarriers	sipmaterialbarriers	sipmaterialbarriers
Materials	233	material_foams	sipmaterialfoams	sipmaterialfoams	sipmaterialfoams
Materials	234	material_insulation	sipmaterialinsulation	sipmaterialinsulation	sipmaterialinsulation
Materials	235	material_leather	sipmaterialleather	sipmaterialleather	sipmaterialleather
Materials	236	material_metals	sipmaterialmetals	sipmaterialmetals	sipmaterialmetals
Materials	237	material_plastics	sipmaterialplastics	sipmaterialplastics	sipmaterialplastics
Materials	238	material_rubbers	sipmaterialrubbers	sipmaterialrubbers	sipmaterialrubbers
Materials	239	material_synth_leather	sipmaterialsynthleather	sipmaterialsynthleather	sipmaterialsynthleather
Materials	240	material_textiles	sipmaterialtextiles	sipmaterialtextiles	sipmaterialtextiles
Materials	241	material_wood_based	sipmaterialwoodbased	sipmaterialwoodbased	sipmaterialwoodbased
Scored Questions	242	watsourcetrackopt	watsourcetrackopt	watsourcetrackopt	watsourcetrackopt
Scored Questions	243	watbaselineopt	watbaselineopt	watbaselineopt	watbaselineopt
Scored Questions	244	wathighestuse	wathighestuse	wathighestuse	wathighestuse
Scored Questions	245	wattargetopt	wattargetopt	wattargetopt	wattargetopt
Scored Questions	246	watimproveplan	watimproveplan	watimproveplan	watimproveplan
Scored Questions	247	watimproveopt	watimproveopt	watimproveopt	watimproveopt
Scored Questions	248	watbalanceanalysis	watbalanceanalysis	watbalanceanalysis	watbalanceanalysis
Scored Questions	249	airsourceopstrack	airsourceopstrack	airsourceopstrack	airsourceopstrack
Scored Questions	250	airsourceprodtrack	airsourceprodtrack	airsourceprodtrack	airsourceprodtrack
Scored Questions	251	airsourcerefrignew	airsourcerefrignew	airsourcerefrignew	airsourcerefrignew
Scored Questions	252	aircontroldevops	aircontroldevops	aircontroldevops	aircontroldevops
Scored Questions	253	aircontroldevprod	aircontroldevprod	aircontroldevprod	aircontroldevprod
Scored Questions	254	airbeyondpermit	airbeyondpermit	airbeyondpermit	airbeyondpermit
Scored Questions	255	airimplementprocess	airimplementprocess	airimplementprocess	airimplementprocess
Scored Questions	256	wwtrackopt	wwtrackopt	wwtrackopt	wwtrackopt
Scored Questions	257	wwoffsitetreatplant	wwoffsitetreatplant	wwoffsitetreatplant	wwoffsitetreatplant
Scored Questions	258	wwemergplan	wwemergplan	wwemergplan	wwemergplan
Scored Questions	259	wwhsludgedisposal	wwhsludgedisposal	wwhsludgedisposal	wwhsludgedisposal
Scored Questions	260	wwnhsludgedisposal	wwnhsludgedisposal	wwnhsludgedisposal	wwnhsludgedisposal
Scored Questions	261	wwsepticwater	wwsepticwater	wwsepticwater	wwsepticwater
Scored Questions	262	wwstandard	wwstandard	wwstandard	wwstandard
Scored Questions	263	wwqualitytest	wwqualitytest	wwqualitytest	wwqualitytest
Scored Questions	264	wwrecycle	wwrecycle	wwrecycle	wwrecycle

Table 1: Performance Data (CSV) with Bulk CSV REF IDs *(continued)*

Section		Name	fem2021	fem2020	fem2017
Scored Questions	265	chemtrack	chemtrack	chemtrack	chemtrack
Scored Questions	266	chemsds	chemsds	chemsds	chemsds
Scored Questions	267	chemtraining	chemtraining	chemtraining	chemtraining
Scored Questions	268	chememergplan	chememergplan	chememergplan	chememergplan
Scored Questions	269	chemsafetyequip	chemsafetyequip	chemsafetyequip	chemsafetyequip
Scored Questions	270	chemhazardsign	chemhazardsign	chemhazardsign	chemhazardsign
Scored Questions	271	chempurchasereq	chempurchasereq	chempurchasereq	chempurchasereq
Scored Questions	272	chemhealthprogram	chemhealthprogram	chemhealthprogram	chemhealthprogram
Scored Questions	273	chemstorage	chemstorage	chemstorage	chemstorage
Scored Questions	274	chemtrainingRSL	chemtrainingRSL	chemtrainingRSL	chemtrainingRSL
Scored Questions	275	chemprocessidentifyRSL	chemprocessidentifyRSL	chemprocessidentifyRSL	chemprocessidentifyRSL
Scored Questions	276	chemprocessmonitorRSL	chemprocessmonitorRSL	chemprocessmonitorRSL	chemprocessmonitorRSL
Scored Questions	277	chemtraceinventory	chemtraceinventory	chemtraceinventory	chemtraceinventory
Scored Questions	278	chemimproveplan	chemimproveplan	chemimproveplan	chemimproveplan
Scored Questions	279	chemreduceplan	chemreduceplan	chemreduceplan	chemreduceplan
Scored Questions	280	chemsourcelist	chemsourcelist	chemsourcelist	chemsourcelist
Scored Questions	281	chemcollabalternatives	chemcollabalternatives	chemcollabalternatives	chemcollabalternatives
Scored Questions	282	chemanalysishumanenv	chemanalysishumanenv	chemanalysishumanenv	chemanalysishumanenv
Scored Questions	283	chemanalysislifecycle	chemanalysislifecycle	chemanalysislifecycle	chemanalysislifecycle
Scored Questions	284	chemtracelotnumber	chemtracelotnumber	chemtracelotnumber	chemtracelotnumber
Scored Questions	285	chemdocumentedqa	chemdocumentedqa	chemdocumentedqa	chemdocumentedqa
Scored Questions	286	chemcontractorsRSL	chemcontractorsRSL	chemcontractorsRSL	chemcontractorsRSL
Scored Questions	287	chemdocumentedgoals	chemdocumentedgoals	chemdocumentedgoals	chemdocumentedgoals
Scored Questions	288	emsmgmt	emsmgmt	emsmgmt	emsmgmt
Scored Questions	289	emsstrategy	emsstrategy	emsstrategy	emsstrategy
Scored Questions	290	emsopsimpact	emsopsimpact	emsopsimpact	emsopsimpact
Scored Questions	291	emspermitstatus	emspermitstatus	emspermitstatus	emspermitstatus
Scored Questions	292	emsregulationsystem	emsregulationsystem	emsregulationsystem	emsregulationsystem
Scored Questions	293	emsequipmaintain	emsequipmaintain	emsequipmaintain	emsequipmaintain
Scored Questions	294	emsstrategyreview	emsstrategyreview	emsstrategyreview	emsstrategyreview
Scored Questions	295	emsmgmtcompetence	emsmgmtcompetence	emsmgmtcompetence	emsmgmtcompetence
Scored Questions	296	emsstrategyawareness	emsstrategyawareness	emsstrategyawareness	emsstrategyawareness
Scored Questions	297	emshiggindexsubcontract	emshiggindexsubcontract	emshiggindexsubcontract	emshiggindexsubcontract
Scored Questions	298	emsengagelocal	emsengagelocal	emsengagelocal	emsengagelocal
Scored Questions	299	emshiggindexupstream	emshiggindexupstream	emshiggindexupstream	emshiggindexupstream
Scored Questions	300	ensourcetrackopt	ensourcetrackopt	ensourcetrackopt	ensourcetrackopt
Scored Questions	301	enbaselinesource	enbaselinesource	enbaselinesource	enbaselinesource
Scored Questions	302	enhighestuse	enhighestuse	enhighestuse	enhighestuse
Scored Questions	303	entargetssource	entargetssource	entargetssource	entargetssource
Scored Questions	304	enimproveplan	enimproveplan	enimproveplan	enimproveplan
Scored Questions	305	enimprovesource	enimprovesource	enimprovesource	enimprovesource

Table 1: Performance Data (CSV) with Bulk CSV REF IDs *(continued)*

Section		Name	fem2021	fem2020	fem2017
Scored Questions	306	wstsourcenh	wstsourcenh	wstsourcenh	wstsourcenh
Scored Questions	307	wstsourceh	wstsourceh	wstsourceh	wstsourceh
Scored Questions	308	wstsegregatestreams	wstsegregatestreams	wstsegregatestreams	wstsegregatestreams
Scored Questions	309	wsthstorage	wsthstorage	wsthstorage	wsthstorage
Scored Questions	310	wstnhstorage	wstnhstorage	wstnhstorage	wstnhstorage
Scored Questions	311	wstpolburn	wstpolburn	wstpolburn	wstpolburn
Scored Questions	312	wsthtrain	wsthtrain	wsthtrain	wsthtrain
Scored Questions	313	wstbaseline	wstbaseline	wstbaseline	wstbaseline
Scored Questions	314	wstbaselinedisp	wstbaselinedisp	wstbaselinedisp	wstbaselinedisp
Scored Questions	315	wsttarget	wsttarget	wsttarget	wsttarget
Scored Questions	316	wsttargetdisp	wsttargetdisp	wsttargetdisp	wsttargetdisp
Scored Questions	317	wstredimpplan	wstredimpplan	wstredimpplan	wstredimpplan
Scored Questions	318	wstredimp2018	wstredimp2018	wstredimp2018	wstredimp2018
Scored Questions	319	wstredimpdisp	wstredimpdisp	wstredimpdisp	wstredimpdisp
Scored Questions	320	wsthazdispvalidate	wsthazdispvalidate	wsthazdispvalidate	wsthazdispvalidate
Scored Questions	321	wstdispzerowaste	wstdispzerowaste	wstdispzerowaste	wstdispzerowaste
Scored Questions	322	wstdispupcycle	wstdispupcycle	wstdispupcycle	wstdispupcycle

Note:
If column is blank, there are no equivalent REF IDs for that year.