

Performance Data (CSV) Documentation

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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
 - 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

	Name	Bulk Name or Formula	fem2020	fem2017
1	survey_id	surveyid		
2	survey_status	status		
3	account_id	groupid		
4	fem_foundation	fpreview	undefined	undefined
5	verified_posted	verifierPosted		
6	version	version		
7	total_accuracy	totalAccuracy		
8	site_country	sitecountry		
9	sector	sipindustrysector		
10	tier_one			
11	tier_two			
12	tier_three			
13	tier_four			
14	cut_sew			
15	footwear_assembly			
16	yarn_product_manufacturer			
17	wet_mill			
18	facility_type	sipfacilitytype		
19	operating_days	sipoperatingdays		
20	employees_full_time	sipfulltimeemployees		
21	employees_temp	siptempemployees		
22	annual_prod_vol_amount	sipfacilityannualprodvolquant		
23	annual_prod_vol_units	sipfacilityannualprodvolunits		
24	total_ghg_kgco2e	totalGHGEmissions		
25	total_normalized_ghg_kgco2e_unit	totalNormalizedGHGEmissions		
26	total_non_renewable_ghg_kgco2e	totalNonRenewableEmissions		
27	total_refrigerant_ghg_kgco2e	totalRefrigerantEmissions		
28	air_emissions_refrig1_ghg_kgco2e	airsourcerefrig1totalghg		
29	air_emissions_refrig2_ghg_kgco2e	airsourcerefrig2totalghg		
30	air_emissions_refrig3_ghg_kgco2e	airsourcerefrig3totalghg		
31	air_emissions_refrig4_ghg_kgco2e	airsourcerefrig4totalghg		
32	air_emissions_refrig5_ghg_kgco2e	airsourcerefrig5totalghg		
33	ghg_biodiesel_kgco2e	ensourcebiodieseltotalghg		ensourcebiomassbiodieseltotalghg
34	ghg_biomassgen_kgco2e	ensourcebiomassgentotalghg		
35	ghg_biomasswood_kgco2e	ensourcebiomasswoodtotalghg		
36	ghg_chilledwater_kgco2e	ensourcechilledwatertotalghg		
37	ghg_coal_kgco2e	ensourcecoaltotalghg		
38	ghg_diesel_kgco2e	ensourcedieseltotalghg		
39	ghg_electricpurch_kgco2e	ensourceelectricpurchtotalghg		
40	ghg_fueloil_kgco2e	ensourcefueloiltotalghg		
41	ghg_geotherm_kgco2e	ensourcegeothermtotalghg		
42	ghg_hydro_kgco2e	ensourcehydrototalghg		
43	ghg_lpg_kgco2e	ensourcelpgtotalghg		ensourcenatgaslpgtotalghg
44	ghg_lng_kgco2e	ensourcelngtotalghg	undefined	ensourcenatgaslngtotalghg
45	ghg_microhydro_kgco2e	ensourcemicrohydrototalghg		
46	ghg_naturalgas_kgco2e	ensourcenaturalgastotalghg		
47	ghg_petro_kgco2e	ensourcepetrototalghg		
48	ghg_propane_kgco2e	ensourcepropanetotalghg		ensourcenatgaspropanetotalghg
49	ghg_purchrenew_kgco2e	ensourcepurchrenewtotalghg		undefined
50	ghg_solarphoto_kgco2e	ensourcesolarphotototalghg		
51	ghg_solarthermal_kgco2e	ensourcesolarthermtotalghg		undefined
52	ghg_steampurch_kgco2e	ensourcesteampurchtotalghg		
53	ghg_wind_kgco2e	ensourcewindtotalghg		
54	total_energy_mj	ensourcetotal		
55	energy_biodiesel_mj	ensourcebiodieseltotal		ensourcebiomassbiodieseltotal
56	energy_biomassgen_mj	ensourcebiomassgentotal		
57	energy_biomasswood_mj	ensourcebiomasswoodtotal		
58	energy_chilledwater_mj	ensourcechilledwatertotal		
59	energy_coal_mj	ensourcecoaltotal		
60	energy_diesel_mj	ensourcedieseltotal		
61	energy_electricpurch_mj	ensourceelectricpurchtotal		
62	energy_fueloil_mj	ensourcefueloiltotal		
63	energy_geotherm_mj	ensourcegeothermtotal		
64	energy_hydro_mj	ensourcehydrototal		
65	energy_lpg_mj	ensourcelpgtotal		ensourcenatgaslpgtotal
66	energy_lng_mj	ensourcelngtotal	undefined	ensourcenatgaslngtotal
67	energy_microhydro_mj	ensourcemicrohydrototal		
68	energy_naturalgas_mj	ensourcenaturalgastotal		
69	energy_petro_mj	ensourcepetrototal		
70	energy_propane_mj	ensourcepropanetotal		ensourcenatgaspropanetotal
71	energy_purchrenew_mj	ensourcepurchrenewtotal		undefined
72	energy_solarphoto_mj	ensourcesolarphotototal		
73	energy_solarthermal_mj	ensourcesolarthermtotal		undefined

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

Name	Bulk Name or Formula	fem2020	fem2017
74 energy_steam purch_mj	ensourcesteam purchtotal		
75 energy_wind_mj	ensourcewindtotal		
76 water_surface_l	watsourcesurfacetotal		
77 water_rain_l	watsourceraintotal		
78 water_ground_l	watsourcegroundtotal		
79 water_municipal_l	watsourcemunicipaltotal		
80 water_sea_l	watsourceseatotal		
81 water_prod_l	watsourceprodtotal		
82 water_wastewater_l	watsourcewastewatertotal		
83 water_comb_l	watsourcecombtal		
84 total_water_l	watsourcectotaltotal		
85 total_waste_kg	wstsourcectotal		
86 nonhazardous_waste_materials_kg	wstsourcehmaterialtotal		
87 nonhazardous_waste_metal_kg	wstsourcehmetaltotal		
88 nonhazardous_waste_plastic_kg	wstsourcehplastictotal		
89 nonhazardous_waste_paper_kg	wstsourcehpapertotal		
90 nonhazardous_waste_cans_kg	wstsourcehcanstotal		
91 nonhazardous_waste_food_kg	wstsourcehfoodtotal		
92 nonhazardous_waste_glass_kg	wstsourcehglasstotal		
93 nonhazardous_waste_cartons_kg	wstsourcehcartontotal		
94 nonhazardous_waste_other_kg	wstsourcehothertotal		
95 nonhazardous_waste_domtotal_kg	wstsourcehtotaldomtotal		
96 hazardous_waste_prodchemdrum_kg	wstsourcehprodchemdrumtotal		
97 hazardous_waste_prodfilmprint_kg	wstsourcehprodfilmprinttotal		
98 hazardous_waste_prodsludge_kg	wstsourcehprodsludgetotal		
99 hazardous_waste_prochem_kg	wstsourcehprochemtotal		
100 hazardous_waste_prodcmpgas_kg	wstsourcehprodcmpgastotal		
101 hazardous_waste_prodccontammatt_kg	wstsourcehprodccontammatttotal		
102 hazardous_waste_dombatteries_kg	wstsourcehdombatteriestotal		
103 hazardous_waste_domflight_kg	wstsourcehdomflighttotal		
104 hazardous_waste_dominkcart_kg	wstsourcehdominkcarttotal		
105 hazardous_waste_domoilgrease_kg	wstsourcehdomoilgreasetotal		
106 hazardous_waste_domemptycont_kg	wstsourcehdomemptyconttotal		
107 hazardous_waste_domelectronic_kg	wstsourcehdomelectronictotal		
108 hazardous_waste_domcoalcomb_kg	wstsourcehdomcoalcombtal		
109 hazardous_waste_other_kg	wstsourcehothertotal		
110 total_hazardous_waste_kg	wstsourcectotalhaz	wstsourcehprodchemdrumtotal + wstsourcehprod-filmprinttotal + wstsourcehprodsludgetotal + wstsourcehprochemtotal + wstsourcehprodcmpgastotal + wstsourcehprodccontammatttotal + wstsourcehdombatteriestotal + wstsourcehdomflighttotal + wstsourcehdominkcarttotal + wstsourcehdomoilgreasetotal + wstsourcehdomemptyconttotal + wstsourcehdomelectronictotal + wstsourcehdomcoalcombtal + wstsourcehothertotal	wstsourcehprodchemdrumtotal + wstsourcehprod-filmprinttotal + wstsourcehprodsludgetotal + wstsourcehprochemtotal + wstsourcehprodcmpgastotal + wstsourcehprodccontammatttotal + wstsourcehdombatteriestotal + wstsourcehdomflighttotal + wstsourcehdominkcarttotal + wstsourcehdomilgreasetotal + wstsourcehdomemptyconttotal + wstsourcehdomelectronictotal + wstsourcehdomcoalcombtal + wstsourcehothertotal
111 total_nonhazardous_waste_kg	wstsourcectotalnonhaz	wstsourcehmaterialtotal + wstsourcehmetaltotal + wstsourcehplastictotal + wstsourcehpapertotal + wstsourcehcanstotal + wstsourcehfoodtotal + wstsourcehglasstotal + wstsourcehcartontotal + wstsourcehothertotal + wstsourcehtotaldomtotal	wstsourcehmaterialtotal + wstsourcehmetaltotal + wstsourcehplastictotal + wstsourcehpapertotal + wstsourcehcanstotal + wstsourcehfoodtotal + wstsourcehglasstotal + wstsourcehcartontotal + wstsourcehothertotal + wstsourcehtotaldomtotal

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

	Name	Bulk Name or Formula	fem2020	fem2017
112	air_applicability	airemissions_applicability		
113	chemicals_applicability	chemicals_applicability		
114	ems_applicability	ems_applicability		
115	water_applicability	water_applicability		
116	wastewater_applicability	wastewater_applicability		
117	total_fem_score	total		
118	total_air_score	total_air		
119	total_chemicals_score	total_chemicals		
120	total_ems_score	total_ems		
121	total_energy_score	total_energy		
122	total_waste_score	total_waste		
123	total_wastewater_score	total_wastewater		
124	total_water_score	total_water		
125	air_track_emissions_from_operations_score	airemissions_airsorceopstrack		
126	air_track_emissions_from_operations_score_percent			
127	air_track_emissions_from_production_score	airemissions_airsorceprodtrack		
128	air_track_emissions_from_production_score_percent			
129	air_add_new_refrigerants_score	airemissions_airsorcefrigenew		
130	air_add_new_refrigerants_score_percent			
131	air_control_device_point_source_emissions_score	airemissions_aircontroldevopsthtml		
132	air_control_device_point_source_emissions_score_percent			
133	air_control_device_non_point_source_emissions_score	airemissions_aircontroldevprodhtml		
134	air_control_device_non_point_source_emissions_score_percent			
135	air_beyond_permit_score	airemissions_airbeyondpermit		
136	air_beyond_permit_score_percent			
137	air_process_implement_modern_equipment_score	airemissions_airimplementprocess		
138	air_process_implement_modern_equipment_score_percent			
139	air_no_emissions_score	airemissions_ainoemissions		
140	air_no_emissions_score_percent			
141	chemicals_track_inventory_score	chemicals_chemtrack		
142	chemicals_track_inventory_score_percent			
143	chemicals_sds_score	chemicals_chemsds		
144	chemicals_sds_score_percent			
145	chemicals_training_score	chemicals_chemtraining		
146	chemicals_training_score_percent			
147	chemicals_emergency_plan_score	chemicals_chememergplan		
148	chemicals_emergency_plan_score_percent			
149	chemicals_safety_equipment_score	chemicals_chemsafetyequip		
150	chemicals_safety_equipment_score_percent			
151	chemicals_hazard_sign_score	chemicals_chemhazardsign		
152	chemicals_hazard_sign_score_percent			
153	chemicals_purchase_requirements_rsl_score	chemicals_chempurchasereq		
154	chemicals_purchase_requirements_rsl_score_percent			
155	chemicals_health_safety_program_score	chemicals_chemhealthprogram		
156	chemicals_health_safety_program_score_percent			
157	chemicals_storage_score	chemicals_chemstorage		
158	chemicals_storage_score_percent			
159	chemicals_training_rsl_score	chemicals_chemtrainingRSL		
160	chemicals_training_rsl_score_percent			
161	chemicals_process_identify_rsl_score	chemicals_chemprocessidentifyRSL		
162	chemicals_process_identify_rsl_score_percent			
163	chemicals_process_monitor_rsl_score	chemicals_chemprocessmonitorRSL		
164	chemicals_process_monitor_rsl_score_percent			
165	chemicals_trace_inventory_score	chemicals_chemtraceinventory		
166	chemicals_trace_inventory_score_percent			
167	chemicals_mgmt_improvement_plan_score	chemicals_chemimproveplan		
168	chemicals_mgmt_improvement_plan_score_percent			
169	chemicals_hazardous_chem_reduction_plan_score	chemicals_chemreduceplan		
170	chemicals_hazardous_chem_reduction_plan_score_percent			
171	chemicals_source_beyond_rsl_score	chemicals_chemsourcelist		
172	chemicals_source_beyond_rsl_score_percent			
173	chemicals_collaborate_find_alternatives_score	chemicals_chemcollabalternatives		
174	chemicals_collaborate_find_alternatives_score_percent			
175	chemicals_alternatives_analysis_against_human_env_criteria_score	chemicals_chemanalysisishumanenv		
176	chemicals_alternatives_analysis_against_human_env_criteria_score_percent			
177	chemicals_alternatives_analsis_lifecycle_impacts_score	chemicals_chemanalysisilifecycle		
178	chemicals_alternatives_analsis_lifecycle_impacts_score_percent			
179	chemicals_trace_lot_number_score	chemicals_chemtracelotnumber		
180	chemicals_trace_lot_number_score_percent			
181	chemicals_documented_qa_score	chemicals_chemdocumentedqa		
182	chemicals_documented_qa_score_percent			
183	chemicals_contractors_rsl_score	chemicals_chemcontractorsRSL		
184	chemicals_contractors_rsl_score_percent			
185	chemicals_documented_innovation_goals_score	chemicals_chemdocumentedgoals		
186	chemicals_documented_innovation_goals_score_percent			
187	ems_mgmt_score	ems_emsmgmt		
188	ems_mgmt_score_percent			
189	ems_strategy_score	ems_emsstrategy		

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

	Name	Bulk Name or Formula	fem2020	fem2017
190	ems_strategy_score_percent			
191	ems_ops_impact_score	ems_emsopsimpact		
192	ems_ops_impact_score_percent			
193	ems_permit_status_score	ems_emspermitstatus		
194	ems_permit_status_score_percent			
195	ems_regulation_system_score	ems_emsregulationsystem		
196	ems_regulation_system_score_percent			
197	ems_maintain_equipment_score	ems_emsequipmaintain		
198	ems_maintain_equipment_score_percent			
199	ems_review_strategy_score	ems_emsstrategyreview		
200	ems_review_strategy_score_percent			
201	ems_mgmt_competence_score	ems_emsmgmtcompetence		
202	ems_mgmt_competence_score_percent			
203	ems_strategy_awareness_score	ems_emsstrategyawareness		
204	ems_strategy_awareness_score_percent			
205	ems_higg_index_subcontract_score	ems_emshiggindexsubcontract		
206	ems_higg_index_subcontract_score_percent			
207	ems_engage_local_score	ems_emsengagelocal		
208	ems_engage_local_score_percent			
209	ems_higg_index_upstream_score	ems_emshiggindexupstream		
210	ems_higg_index_upstream_score_percent			
211	energy_track_sources_score	energy_ensourcetrackopt		
212	energy_track_sources_score_percent			
213	energy_baseline_amount_score	energy_enbaselinesource		
214	energy_baseline_amount_score_percent			
215	energy_identify_highest_use_processes_score	energy_enhighestuse		
216	energy_identify_highest_use_processes_score_percent			
217	energy_target_amount_score	energy_entargetsresource		
218	energy_target_amount_score_percent			
219	energy_improvement_plan_score	energy_enimproveplan		
220	energy_improvement_plan_score_percent			
221	energy_reduction_score	energy_enimprovesource		
222	energy_reduction_score_percent			
223	water_track_sources_score	water_watwsources		
224	water_track_sources_score_percent			
225	water_baseline_amount_score	water_watbaselineopt		
226	water_baseline_amount_score_percent			
227	water_identify_highest_use_processes_score	water_wathighestuse		
228	water_identify_highest_use_processes_score_percent			
229	water_target_amount_score	water_wattargetopt		
230	water_target_amount_score_percent			
231	water_improvement_plan_score	water_watimproveplan		
232	water_improvement_plan_score_percent			
233	water_reduction_score	water_watimproveopt		
234	water_reduction_score_percent			
235	water_balance_analysis_score	water_watbalanceanalysis		
236	water_balance_analysis_score_percent			
237	wastewater_track_volume_score	wastewater_wwtrack		
238	wastewater_track_volume_score_percent			
239	wastewater_offsite_treatment_contact_score	wastewater_wwoffsitetreatplant		
240	wastewater_offsite_treatment_contact_score_percent			
241	wastewater_emergency_plan_score	wastewater_wwemergplan		
242	wastewater_emergency_plan_score_percent			
243	wastewater_hazardous_sludge_disposal_score	wastewater_wwhsludgedisposal		
244	wastewater_hazardous_sludge_disposal_score_percent			
245	wastewater_nonhazardous_sludge_disposal_score	wastewater_wwnhsludgedisposal		
246	wastewater_nonhazardous_sludge_disposal_score_percent			
247	wastewater_treat_septic_score	wastewater_wwsepticwater		
248	wastewater_treat_septic_score_percent			
249	wastewater_standard_reporting_score	wastewater_wwstandard		
250	wastewater_standard_reporting_score_percent			
251	wastewater_quality_test_score	wastewater_wwqualitytest		
252	wastewater_quality_test_score_percent			
253	wastewater_recycle_score	wastewater_wwrecycle		
254	wastewater_recycle_score_percent			
255	waste_nonhazardous_track_streams_score	waste_wstsourcech		
256	waste_nonhazardous_track_streams_score_percent			
257	waste_hazardous_track_streams_score	waste_wstsourcech		
258	waste_hazardous_track_streams_score_percent			
259	waste_seggregate_streams_score	waste_wstseggregatestreams		
260	waste_seggregate_streams_score_percent			
261	waste_hazardous_storage_score	waste_wsthstorage		
262	waste_hazardous_storage_score_percent			
263	waste_nonhazardous_storage_score	waste_wsthstorage		
264	waste_nonhazardous_storage_score_percent			
265	waste_open_burning_dumping_score	waste_wstpolhtml		
266	waste_open_burning_dumping_score_percent			

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

Name	Bulk Name or Formula	fem2020	fem2017
267	waste_hazardous_training_score	waste_wsthrain	
268	waste_hazardous_training_score_percent		
269	waste_baseline_amount_score	waste_wstbaseline	
270	waste_baseline_amount_score_percent		
271	waste_baseline_disposal_methods_score	waste_wstbaselinedisp	
272	waste_baseline_disposal_methods_score_percent		
273	waste_target_amount_score	waste_wsttarget	
274	waste_target_amount_score_percent		
275	waste_target_disposal_methods_score	waste_wsttargetdisp	
276	waste_target_disposal_methods_score_percent		
277	waste_reduction_improvement_plan_score	waste_wstredimpplan	
278	waste_reduction_improvement_plan_score_percent		
279	waste_reduction_improvement_from_baseline_score	waste_wstredimp2018	
280	waste_reduction_improvement_from_baseline_score_percent		
281	waste_reduction_improvement_disposal_methods_score	waste_wstredimpdisp	
282	waste_reduction_improvement_disposal_methods_score_percent		
283	waste_validate_treatment_disposal_score	waste_wsthazdisvalidate	
284	waste_validate_treatment_disposal_score_percent		
285	waste_divert_90_percent_score	waste_wstdispzeroscore	
286	waste_divert_90_percent_score_percent		
287	waste_upcycle_score	waste_wstdispupcycle	
288	waste_upcycle_score_percent		
289	air_levels_achieved	airemissions_levelsAchieved	
290	chemicals_levels_achieved	chemicals_levelsAchieved	
291	ems_levels_achieved	ems_levelsAchieved	
292	energy_levels_achieved	energy_levelsAchieved	
293	water_levels_achieved	water_levelsAchieved	
294	wastewater_levels_achieved	wastewater_levelsAchieved	
295	waste_levels_achieved	waste_levelsAchieved	
296	facility_apparel_pc	sipfacilityapparelpc	
297	facility_footwear_pc	sipfacilityfootwearpc	
298	facility_home_tex_pc	sipfacilityhometexpc	
299	facility_accessory_pc	sipfacilityaccessorypc	
300	facility_hard_goods_pc	sipfacilityhardgoodspc	
301	facility_processes_sew	sipfacilityprocessessew	
302	facility_processes_print_dye	sipfacilityprocessesprintdye	
303	facility_processes_materials	sipfacilityprocessesmaterials	
304	facility_processes_trim	sipfacilityprocessestrim	
305	facility_processes_chem	sipfacilityprocesseschem	
306	facility_processes_pkg	sipfacilityprocessespkg	
307	material_barriers	sipmaterialbarriers	
308	material_foams	sipmaterialfoams	
309	material_insulation	sipmaterialinsulation	
310	material_leather	sipmaterialleather	
311	material_metals	sipmaterialmetals	
312	material_plastics	sipmaterialplastics	
313	material_rubbers	sipmaterialrubbers	
314	material_synth_leather	sipmaterialsynthleather	
315	material_textiles	sipmaterialtextiles	
316	material_wood_based	sipmaterialwoodbased	
317	watsourcectrackopt	watsourcectrackopt	
318	watbaselineopt	watbaselineopt	
319	wathighestuse	wathighestuse	
320	wattargetopt	wattargetopt	
321	watimproveplan	watimproveplan	
322	watimproveopt	watimproveopt	
323	watbalanceanalysis	watbalanceanalysis	
324	airsourceopstrack	airsourceopstrack	
325	airsourceprodtrack	airsourceprodtrack	
326	airsourcefrignew	airsourcefrignew	
327	aircontroldevops	aircontroldevops	
328	aircontroldevprod	aircontroldevprod	
329	airbeyondpermit	airbeyondpermit	
330	airimplementprocess	airimplementprocess	
331	wwtrackopt	wwtrackopt	
332	wwoffsitetreatplant	wwoffsitetreatplant	
333	wwemergplan	wwemergplan	
334	wwhsludgedisposal	wwhsludgedisposal	
335	wwnhsludgedisposal	wwnhsludgedisposal	
336	wwsepticwater	wwsepticwater	
337	wwstandard	wwstandard	
338	wwqualitytest	wwqualitytest	
339	wwrecycle	wwrecycle	
340	chemtrack	chemtrack	
341	chemsds	chemsds	
342	chemtraining	chemtraining	
343	chememergplan	chememergplan	
344	chemsafetyequip	chemsafetyequip	

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

Name	Bulk Name or Formula	fem2020	fem2017
345	chemhazardsign	chemhazardsign	
346	chempurchaseeq	chempurchaseeq	
347	chemhealthprogram	chemhealthprogram	
348	chemstorage	chemstorage	
349	chemtrainingRSL	chemtrainingRSL	
350	chemprocessidentifyRSL	chemprocessidentifyRSL	
351	chemprocessmonitorRSL	chemprocessmonitorRSL	
352	chemtraceinventory	chemtraceinventory	
353	chemimproveplan	chemimproveplan	
354	chemreduceplan	chemreduceplan	
355	chemsourcelist	chemsourcelist	
356	chemcollabalternatives	chemcollabalternatives	
357	chemanalysisishumanenv	chemanalysisishumanenv	
358	chemanalysisilifecycle	chemanalysisilifecycle	
359	chemtracelotnumber	chemtracelotnumber	
360	chemdocumentedqa	chemdocumentedqa	
361	chemcontractorsRSL	chemcontractorsRSL	
362	chemdocumentedgoals	chemdocumentedgoals	
363	emsmgmt	emsmgmt	
364	emsstrategy	emsstrategy	
365	emsopsimpact	emsopsimpact	
366	emspersmitstatus	emspersmitstatus	
367	emsregulationsystem	emsregulationsystem	
368	emsequipmaintain	emsequipmaintain	
369	emsstrategyreview	emsstrategyreview	
370	emsmgmtcompetence	emsmgmtcompetence	
371	emsstrategyawareness	emsstrategyawareness	
372	emshiggindexsubcontract	emshiggindexsubcontract	
373	emsenagelocal	emsenagelocal	
374	emshiggindexupstream	emshiggindexupstream	
375	ensourcetrackopt	ensourcetrackopt	
376	enbaselinesource	enbaselinesource	
377	enhighestuse	enhighestuse	
378	entargetssource	entargetssource	
379	enimproveplan	enimproveplan	
380	enimprovesource	enimprovesource	
381	enscope3ghg	enscope3ghg	
382	wstsourcech	wstsourcech	
383	wstsourceh	wstsourceh	
384	wstsegregatestreams	wstsegregatestreams	
385	wsthstorage	wsthstorage	
386	wstnhstorage	wstnhstorage	
387	wstpolburn	wstpolburn	
388	wsthtrain	wsthtrain	
389	wstbaseline	wstbaseline	
390	wstbaselinedisp	wstbaselinedisp	
391	wsttarget	wsttarget	
392	wsttargetdisp	wsttargetdisp	
393	wstredimpplan	wstredimpplan	
394	wstredimp2018	wstredimp2018	
395	wstredimpdisp	wstredimpdisp	
396	wsthazdispvalidate	wsthazdispvalidate	
397	wstdispzerowaste	wstdispzerowaste	
398	wstdispupcycle	wstdispupcycle	
399	wastewater_recycle_percent	wwrecycleamt	
400	energy_baseline_coal_mj	enbaselinesourcecoaltotal	
401	energy_baseline_biomassgen_mj	enbaselinesourcebiomassgentotal	
402	energy_baseline_biomasswood_mj	enbaselinesourcebiomasswoodtotal	
403	energy_baseline_naturalgas_mj	enbaselinesourcenaturalgastotal	
404	energy_baseline_lng_mj	enbaselinesourcenlngtotal	undefined
405	energy_baseline_diesel_mj	enbaselinesourcedieseltotal	
406	energy_baseline_fueloil_mj	enbaselinesourcefueloiltotal	
407	energy_baseline_lpg_mj	enbaselinesourcepgtotal	
408	energy_baseline_petro_mj	enbaselinesourcepetrototal	
409	energy_baseline_propane_mj	enbaselinesourcepropanetotal	
410	energy_baseline_biodiesel_mj	enbaselinesourcebiodieseltotal	
411	energy_baseline_solarphoto_mj	enbaselinesourcesolarphotototal	
412	energy_baseline_wind_mj	enbaselinesourcewindtotal	
413	energy_baseline_geotherm_mj	enbaselinesourcegeothermtotal	
414	energy_baseline_hydro_mj	enbaselinesourcehydrototal	
415	energy_baseline_electricpurch_mj	enbaselinesourceelectricpurchtotal	
416	energy_baseline_microhydro_mj	enbaselinesourcemicrohydrototal	
417	energy_baseline_solarthermal_mj	enbaselinesourcesolarthermtotal	undefined
418	energy_baseline_steampurch_mj	enbaselinesourcesteampurchtotal	
419	energy_baseline_chilledwater_mj	enbaselinesourcechilledwatertotal	
420	energy_baseline_purchrenew_mj	enbaselinesourcepurchrenewtotal	undefined
421	energy_baseline_coal_year	enbaselinesourcecoalyear	enbaselinesourcecoalyear

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

Name	Bulk Name or Formula	fem2020	fem2017
422 energy_baseline_biomassgen_year	enbaselinesourcebiomassgenyear		enbaselinesourcebiomassgenyear
423 energy_baseline_biomasswood_year	enbaselinesourcebiomasswoodyear		enbaselinesourcebiomasswoodyear
424 energy_baseline_naturalgas_year	enbaselinesourcenaturalgasyear		enbaselinesourcenaturalgasyear
425 energy_baseline_lng_year	enbaselinesourcelngyear	undefined	enbaselinesourcenatgasyearlng
426 energy_baseline_diesel_year	enbaselinesourcedieselyear		
427 energy_baseline_fueloil_year	enbaselinesourcefueloilyear		enbaselinesourcefueloilyear
428 energy_baseline_lpg_year	enbaselinesourcelpgyear		enbaselinesourcenatgasyearlpg
429 energy_baseline_petrol_year	enbaselinesourcepetrolyear		
430 energy_baseline_propane_year	enbaselinesourcepropaneyear		enbaselinesourcenatgasyearpropane
431 energy_baseline_biodiesel_year	enbaselinesourcebiodieselyear		enbaselinesourcebiomassyearbiodiesel
432 energy_baseline_solarphoto_year	enbaselinesourcesolarphotoyear		
433 energy_baseline_wind_year	enbaselinesourcewindyear		
434 energy_baseline_geotherm_year	enbaselinesourcegeothermyear		
435 energy_baseline_hydro_year	enbaselinesourcehydroyear		
436 energy_baseline_electricpurch_year	enbaselinesourceelectricpurchyear		
437 energy_baseline_microhydro_year	enbaselinesourcemicrohydroyear		
438 energy_baseline_solarthermal_year	enbaselinesourcesolarthermalyear		undefined
439 energy_baseline_steampurch_year	enbaselinesourcesteampurchyear		
440 energy_baseline_chilledwater_year	enbaselinesourcechilledwateryear		
441 energy_baseline_purchrenew_year	enbaselinesourcepurchrenewyear		undefined
442 energy_baseline_coal_abs_norm	enbaselinesourcecoaltype		enbaselinesourcecoaltype
443 energy_baseline_biomassgen_abs_norm	enbaselinesourcebiomassgentype		enbaselinesourcebiomassgentype
444 energy_baseline_biomasswood_abs_norm	enbaselinesourcebiomasswoodtype		enbaselinesourcebiomasswoodtype
445 energy_baseline_naturalgas_abs_norm	enbaselinesourcenaturalgastype		enbaselinesourcenaturalgastype
446 energy_baseline_lng_abs_norm	enbaselinesourcelngtype	undefined	enbaselinesourcenatgastypelng
447 energy_baseline_diesel_abs_norm	enbaselinesourcediesetype		
448 energy_baseline_fueloil_abs_norm	enbaselinesourcefueloiltype		enbaselinesourcefueloiltype
449 energy_baseline_lpg_abs_norm	enbaselinesourcelpgtype		enbaselinesourcenatgastypelpg
450 energy_baseline_petrol_abs_norm	enbaselinesourcepetrolytype		
451 energy_baseline_propane_abs_norm	enbaselinesourcepropanetype		enbaselinesourcenatgastypepropane
452 energy_baseline_biodiesel_abs_norm	enbaselinesourcebiodiesetype		enbaselinesourcebiomassyearbiodiesel
453 energy_baseline_solarphoto_abs_norm	enbaselinesourcesolarphototype		
454 energy_baseline_wind_abs_norm	enbaselinesourcewindtype		
455 energy_baseline_geotherm_abs_norm	enbaselinesourcegeothermtype		
456 energy_baseline_hydro_abs_norm	enbaselinesourcehydrotype		
457 energy_baseline_electricpurch_abs_norm	enbaselinesourceelectricpurchtype		
458 energy_baseline_microhydro_abs_norm	enbaselinesourcemicrohydrotype		
459 energy_baseline_solarthermal_abs_norm	enbaselinesourcesolarthermaltype		undefined
460 energy_baseline_steampurch_abs_norm	enbaselinesourcesteampurchtype		
461 energy_baseline_chilledwater_abs_norm	enbaselinesourcechilledwatertype		undefined
462 energy_baseline_purchrenew_abs_norm	enbaselinesourcepurchrenewtype		undefined
463 energy_target_coal_percent	entargetssourcecoalamt		entargetssourcecoalamtsba + entargetssourcecoalamtsbb + entargetssourcecoalamtsbc + entargetssourcecoalamtsbhvc + entargetssourcecoalamtbhvb + entargetssourcecoalamtbhva + entargetssourcecoalamtother

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

Name	Bulk Name or Formula	fem2020	fem2017
464 energy_target_biomassgen_percent	entargetsourcebiomassgenamt		entargetsourcebiomassamtbeg + entargetsourcebiomassamtcan + entargetsourcebiomassamtcashew + entargetsourcebiomassamtcorncob + entargetsourcebiomassamtcornstalk + entargetsourcebiomassamtefb + entargetsourcebiomassamteuca + entargetsourcebiomassampalmfiber + entargetsourcebiomassampalmleaf + entargetsourcebiomassampalmshell + entargetsourcebiomassampalmtrunk + entargetsourcebiomassamparawood + entargetsourcebiomassampeanutshells + entargetsourcebiomassamtricehusks + entargetsourcebiomassamtricesraw + entargetsourcebiomassamttapioca + entargetsourcebiomassamtother
465 energy_target_biomasswood_percent	entargetsourcebiomasswoodamt		entargetsourcebiomassamtwood + entargetsourcebiomassamtsawdust + entargetsourcebiomassamtsliverwood
466 energy_target_naturalgas_percent	entargetsourcenaturalgasamt		entargetsourcenatgasamtng + entargetsourcenatgasamtother
467 energy_target_lng_percent	entargetsourcelngamt	undefined	entargetsourcelngamt
468 energy_target_diesel_percent	entargetsourcedieselamt		entargetsourcefueloilamtone + entargetsourcefueloilamttwo + entargetsourcefueloilamtfour + entargetsourcefueloilamtfive + entargetsourcefueloilamtsix + entargetsourcefueloilamtother
469 energy_target_fueloil_percent	entargetsourcefueloilamt		entargetsourcelngamt
470 energy_target_lpg_percent	entargetsourcelpgamt		entargetsourcelngamt
471 energy_target_petrol_percent	entargetsourcepetrolamt		entargetsourcenatgasamtpropane
472 energy_target_propane_percent	entargetsourcepropaneamt		entargetsourcebiomassamtbiodiesel
473 energy_target_biodiesel_percent	entargetsourcebiodieselamt		
474 energy_target_solarphoto_percent	entargetsourcesolarphotoamt		
475 energy_target_wind_percent	entargetsourcewindamt		
476 energy_target_geotherm_percent	entargetsourcegeothermamt		
477 energy_target_hydro_percent	entargetsourcehydroamt		
478 energy_target_electricpurch_percent	entargetsourceelectricpurchamt		
479 energy_target_microhydro_percent	entargetsourcemicrohdroamt		
480 energy_target_solarthermal_percent	entargetsourcesolarthermalamt		undefined
481 energy_target_steampurch_percent	entargetsourcesteampurchamt		
482 energy_target_chilledwater_percent	entargetsourcechilledwateramt		
483 energy_target_purchrenew_percent	entargetsourcepurchrenewamt		undefined
484 energy_target_fueloil_year	entargetsourcefueloilyear		entargetsourcefueloilyear
485 energy_target_coal_year	entargetsourcecoalyear		entargetsourcecoalyear
486 energy_target_biomassgen_year	entargetsourcebiomassgenyear		entargetsourcebiomassgenyear
487 energy_target_biomasswood_year	entargetsourcebiomasswoodyear		entargetsourcebiomasswoodyear
488 energy_target_naturalgas_year	entargetsourcenaturalgasyear		entargetsourcenaturalgasyear
489 energy_target_lng_year	entargetsourcelngyear	undefined	entargetsourcelngyear

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

Name	Bulk Name or Formula	fem2020	fem2017
490	energy_target_diesel_year	entargetssourcedieseyear	
491	energy_target_lpg_year	entargetssourcelpgyear	entargetssourcenatgasyearlpg
492	energy_target_petro_year	entargetssourcepetroyear	
493	energy_target_propane_year	entargetssourcepropanyear	entargetssourcenatgasyearpropane
494	energy_target_biodiesel_year	entargetssourcebiodieseyear	entargetssourcebiomassyearbiodiesel
495	energy_target_solarphoto_year	entargetssourcesolarphotoyear	
496	energy_target_wind_year	entargetssourcewindyear	
497	energy_target_geotherm_year	entargetssourcegeothermyear	
498	energy_target_hydro_year	entargetssourcehydroyear	
499	energy_target_electricpurch_year	entargetssourceelectricpurchyear	
500	energy_target_microhydro_year	entargetssourcemicrohydroyear	
501	energy_target_solarthermal_year	entargetssourcesolarthermalyear	undefined
502	energy_target_steampurch_year	entargetssourcesteampurchyear	
503	energy_target_chilledwater_year	entargetssourcechilledwateryear	
504	energy_target_purchrenew_year	entargetssourcepurchrenewyear	undefined
505	ghg_target_baseline_year	enghgssourceghgbaseline	undefined
506	ghg_target_percent	enghgssourceghgamt	undefined
507	ghg_target_target_year	enghgssourceghgyear	undefined
508	ghg_scope_3_co2e	enscope3ghgamt	
509	water_baseline_surface_l	watbaselinesourcesurfacetotal	
510	water_baseline_rain_l	watbaselinesourceairtotal	
511	water_baseline_ground_l	watbaselinesourcegroundtotal	
512	water_baseline_municipal_l	watbaselinesourcemunicipaltotal	
513	water_baseline_sea_l	watbaselinesourceseatotal	
514	water_baseline_prod_l	watbaselinesourceprodtotal	
515	water_baseline_wastewater_l	watbaselinesourcewastewatertotal	
516	water_baseline_comb_l	watbaselinesourcecombttotal	
517	water_baseline_surface_year	watbaselinesourcesurfaceyear	
518	water_baseline_rain_year	watbaselinesourceairyear	
519	water_baseline_ground_year	watbaselinesourcegroundyear	
520	water_baseline_municipal_year	watbaselinesourcemunicipalyear	
521	water_baseline_sea_year	watbaselinesourceseayear	
522	water_baseline_prod_year	watbaselinesourceprodyear	
523	water_baseline_wastewater_year	watbaselinesourcewastewateryear	
524	water_baseline_comb_year	watbaselinesourcecombyear	
525	water_baseline_surface_abs_norm	watbaselinesourcesurfacetype	
526	water_baseline_rain_abs_norm	watbaselinesourceairtype	
527	water_baseline_ground_abs_norm	watbaselinesourcegroundtype	
528	water_baseline_municipal_abs_norm	watbaselinesourcemunicipaltype	
529	water_baseline_sea_abs_norm	watbaselinesourceseatype	
530	water_baseline_prod_abs_norm	watbaselinesourceprodtype	
531	water_baseline_wastewater_abs_norm	watbaselinesourcewastewatertype	
532	water_baseline_comb_abs_norm	watbaselinesourcecombttype	
533	water_target_surface_percent	wattargetssourcesurfacetamt	
534	water_target_rain_percent	wattargetssourceairamt	
535	water_target_ground_percent	wattargetssourcegroundamt	
536	water_target_municipal_percent	wattargetssourcemunicipalamt	
537	water_target_sea_percent	wattargetssourceseatamt	
538	water_target_prod_percent	wattargetssourceprodamt	
539	water_target_wastewater_percent	wattargetssourcewastewateramt	
540	water_target_comb_percent	wattargetssourcecombamt	
541	water_target_surface_year	wattargetssourcesurfaceyear	
542	water_target_rain_year	wattargetssourceairyear	
543	water_target_ground_year	wattargetssourcegroundyear	
544	water_target_municipal_year	wattargetssourcemunicipalyear	
545	water_target_sea_year	wattargetssourceseayear	
546	water_target_prod_year	wattargetssourceprodyear	
547	water_target_wastewater_year	wattargetssourcewastewateryear	
548	water_target_comb_year	wattargetssourcecombyear	
549	nonhazardous_waste_baseline_materials_kg	wstbaselinesourcenhmaterialtotal	
550	nonhazardous_waste_baseline_metal_kg	wstbaselinesourcenhmetaltotal	
551	nonhazardous_waste_baseline_plastic_kg	wstbaselinesourcenhplastictotal	
552	nonhazardous_waste_baseline_paper_kg	wstbaselinesourcenhpapertotal	
553	nonhazardous_waste_baseline_cans_kg	wstbaselinesourcenhcanstotal	
554	nonhazardous_waste_baseline_food_kg	wstbaselinesourcenhfoodtotal	
555	nonhazardous_waste_baseline_glass_kg	wstbaselinesourcenhglasstotal	
556	nonhazardous_waste_baseline_cartons_kg	wstbaselinesourcenhcartontotal	
557	nonhazardous_waste_baseline_other_kg	wstbaselinesourcenhothertotal	
558	nonhazardous_waste_baseline_domtotal_kg	wstbaselinesourcenhtotaldomtotal	
559	hazardous_waste_baseline_prodchemdrum_kg	wstbaselinesourcehprodchemdrumtotal	
560	hazardous_waste_baseline_profilmprint_kg	wstbaselinesourcehprofilmprinttotal	
561	hazardous_waste_baseline_prodsludge_kg	wstbaselinesourcehprodsludgettotal	
562	hazardous_waste_baseline_prodchem_kg	wstbaselinesourcehprodchemtotal	
563	hazardous_waste_baseline_prodcompogas_kg	wstbaselinesourcehprodcompogastotal	
564	hazardous_waste_baseline_prodcontammatt_kg	wstbaselinesourcehprodcontammatttotal	
565	hazardous_waste_baseline_dombatteries_kg	wstbaselinesourcehdombatteriestotal	
566	hazardous_waste_baseline_domflight_kg	wstbaselinesourcehdomflighttotal	

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

Name	Bulk Name or Formula	fem2020	fem2017
567	hazardous_waste_baseline_dominkcart_kg	wstbaselinesourcehdominkcarttotal	
568	hazardous_waste_baseline_domoilgrease_kg	wstbaselinesourcehdomoilgreasetotal	
569	hazardous_waste_baseline_domemptycont_kg	wstbaselinesourcehdomemptyconttotal	
570	hazardous_waste_baseline_domelectronic_kg	wstbaselinesourcehdomelectronictotal	
571	hazardous_waste_baseline_domcoalscomb_kg	wstbaselinesourcehdomcoalscombttotal	
572	hazardous_waste_baseline_other_kg	wstbaselinesourcehotherttotal	
573	nonhazardous_waste_baseline_materials_year	wstbaselinesourcesematerialsyear	
574	nonhazardous_waste_baseline_metal_year	wstbaselinesourcesemetalyear	
575	nonhazardous_waste_baseline_plastic_year	wstbaselinesourceseplasticyear	
576	nonhazardous_waste_baseline_paper_year	wstbaselinesourcesepaperyear	
577	nonhazardous_waste_baseline_cans_year	wstbaselinesourcesecansyear	
578	nonhazardous_waste_baseline_food_year	wstbaselinesourcesefoodyear	
579	nonhazardous_waste_baseline_glass_year	wstbaselinesourceseglassyear	
580	nonhazardous_waste_baseline_cartons_year	wstbaselinesourcesecartonsyear	
581	nonhazardous_waste_baseline_other_year	wstbaselinesourceootheryear	
582	nonhazardous_waste_baseline_domtotal_year	wstbaselinesourcesetotaldomyear	
583	hazardous_waste_baseline_prodchemdrum_year	wstbaselinehprodchemdrumyear	
584	hazardous_waste_baseline_prodfilmprint_year	wstbaselinehprodfilmprintyear	
585	hazardous_waste_baseline_prodsludge_year	wstbaselinehprodsludgeyear	
586	hazardous_waste_baseline_prodchem_year	wstbaselinehprodchemyear	
587	hazardous_waste_baseline_prodcompgas_year	wstbaselinehprodcompgasyear	
588	hazardous_waste_baseline_prodcontammat_year	wstbaselinehprodcontammatyear	
589	hazardous_waste_baseline_dombatteries_year	wstbaselinehdombatteriesyear	
590	hazardous_waste_baseline_domflolight_year	wstbaselinehdomflolightyear	
591	hazardous_waste_baseline_dominkcart_year	wstbaselinehdominkcartyear	
592	hazardous_waste_baseline_domoilgrease_year	wstbaselinehdomoilgreaseyear	
593	hazardous_waste_baseline_domemptycont_year	wstbaselinehdomemptycontyear	
594	hazardous_waste_baseline_domelectronic_year	wstbaselinehdomelectronicyear	
595	hazardous_waste_baseline_domcoalscomb_year	wstbaselinehdomcoalscombyear	
596	hazardous_waste_baseline_other_year	wstbaselinehootheryear	
597	nonhazardous_waste_baseline_materials_abs_norm	wstbaselinesourcesematerialstype	
598	nonhazardous_waste_baseline_metal_abs_norm	wstbaselinesourcesemetaltype	
599	nonhazardous_waste_baseline_plastic_abs_norm	wstbaselinesourceseplasticitytype	
600	nonhazardous_waste_baseline_paper_abs_norm	wstbaselinesourcesepapertype	
601	nonhazardous_waste_baseline_cans_abs_norm	wstbaselinesourcesecanstype	
602	nonhazardous_waste_baseline_food_abs_norm	wstbaselinesourcesefoodtype	
603	nonhazardous_waste_baseline_glass_abs_norm	wstbaselinesourceseglasstype	
604	nonhazardous_waste_baseline_cartons_abs_norm	wstbaselinesourcesecartonstype	
605	nonhazardous_waste_baseline_other_abs_norm	wstbaselinesourceoothertype	
606	nonhazardous_waste_baseline_domtotal_abs_norm	wstbaselinesourcesetotaldomtype	
607	hazardous_waste_baseline_prodchemdrum_abs_norm	wstbaselinehprodchemdrumtype	
608	hazardous_waste_baseline_prodfilmprint_abs_norm	wstbaselinehprodfilmprinttype	
609	hazardous_waste_baseline_prodsludge_abs_norm	wstbaselinehprodsludgetype	
610	hazardous_waste_baseline_prodchem_abs_norm	wstbaselinehprodchemtype	
611	hazardous_waste_baseline_prodcompgas_abs_norm	wstbaselinehprodcompgastype	
612	hazardous_waste_baseline_prodcontammat_abs_norm	wstbaselinehprodcontammattype	
613	hazardous_waste_baseline_dombatteries_abs_norm	wstbaselinehdombatteriestype	
614	hazardous_waste_baseline_domflolight_abs_norm	wstbaselinehdomflolighttype	
615	hazardous_waste_baseline_dominkcart_abs_norm	wstbaselinehdominkcarttype	
616	hazardous_waste_baseline_domoilgrease_abs_norm	wstbaselinehdomoilgreasetype	
617	hazardous_waste_baseline_domemptycont_abs_norm	wstbaselinehdomemptyconttype	
618	hazardous_waste_baseline_domelectronic_abs_norm	wstbaselinehdomelectronicitytype	
619	hazardous_waste_baseline_domcoalscomb_abs_norm	wstbaselinehdomcoalscombytype	
620	hazardous_waste_baseline_other_abs_norm	wstbaselinehoothertype	
621	nonhazardous_waste_target_materials_percent	wsttargethnsourcematerialschange	
622	nonhazardous_waste_target_metal_percent	wsttargethnsourcemetalschange	
623	nonhazardous_waste_target_plastic_percent	wsttargethnsourceplasticchange	
624	nonhazardous_waste_target_paper_percent	wsttargethnsourcepaperchange	
625	nonhazardous_waste_target_cans_percent	wsttargethnsourcesecanschange	
626	nonhazardous_waste_target_food_percent	wsttargethnsourcesefoodchange	
627	nonhazardous_waste_target_glass_percent	wsttargethnsourceseglasschange	
628	nonhazardous_waste_target_cartons_percent	wsttargethnsourcesecartonschange	
629	nonhazardous_waste_target_other_percent	wsttargethnsourceootherchange	
630	nonhazardous_waste_target_domtotal_percent	wsttargethnsourcesetotaldomchange	
631	hazardous_waste_target_prodchemdrum_percent	wsttargethprodchemdrumchange	
632	hazardous_waste_target_prodfilmprint_percent	wsttargethprodfilmprintchange	
633	hazardous_waste_target_prodsludge_percent	wsttargethprodsludgechange	
634	hazardous_waste_target_prodchem_percent	wsttargethprodchemchange	
635	hazardous_waste_target_prodcompgas_percent	wsttargethprodcompgaschange	
636	hazardous_waste_target_prodcontammat_percent	wsttargethprodcontammatchange	
637	hazardous_waste_target_dombatteries_percent	wsttargethdombatterieschange	
638	hazardous_waste_target_domflolight_percent	wsttargethdomflolightchange	
639	hazardous_waste_target_dominkcart_percent	wsttargethdominkcartchange	
640	hazardous_waste_target_domoilgrease_percent	wsttargethdomoilgreasechange	
641	hazardous_waste_target_domemptycont_percent	wsttargethdomemptycontchange	
642	hazardous_waste_target_domelectronic_percent	wsttargethdomelectronicchange	
643	hazardous_waste_target_domcoalscomb_percent	wsttargethdomcoalscombchange	
644	hazardous_waste_target_other_percent	wsttargethootherchange	

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

Name	Bulk Name or Formula	fem2020	fem2017
645	nonhazardous_waste_target_materials_year	wsttargetnhsourcematyear	
646	nonhazardous_waste_target_metal_year	wsttargetnhsourcemetayear	
647	nonhazardous_waste_target_plastic_year	wsttargetnhsourcepyear	
648	nonhazardous_waste_target_paper_year	wsttargetnhsourcepyear	
649	nonhazardous_waste_target_cans_year	wsttargetnhsourcecansyear	
650	nonhazardous_waste_target_food_year	wsttargetnhsourcefyear	
651	nonhazardous_waste_target_glass_year	wsttargetnhsourcegyyear	
652	nonhazardous_waste_target_cartons_year	wsttargetnhsourcecayear	
653	nonhazardous_waste_target_other_year	wsttargetnhsourceotheryear	
654	nonhazardous_waste_target_domtotal_year	wsttargetnhsourcetaldomyear	
655	hazardous_waste_target_prodchemdrum_year	wsttargethprodchemdrumyear	
656	hazardous_waste_target_prodfilmprint_year	wsttargethprodfilmprintyear	
657	hazardous_waste_target_prodsludge_year	wsttargethprodsldgeyear	
658	hazardous_waste_target_prodchem_year	wsttargethprodchemyear	
659	hazardous_waste_target_prodcompgas_year	wsttargethprodcompgasyear	
660	hazardous_waste_target_prodcontammatt_year	wsttargethprodcontammattyear	
661	hazardous_waste_target_dombatteries_year	wsttargethombatteriesyear	
662	hazardous_waste_target_domflight_year	wsttargethdomflightyear	
663	hazardous_waste_target_dominkcart_year	wsttargethdominkcartyear	
664	hazardous_waste_target_domoilgrease_year	wsttargethdomoilgreaseyear	
665	hazardous_waste_target_domemptycont_year	wsttargethdomemptycontyear	
666	hazardous_waste_target_domelectronic_year	wsttargethdomlectronicyear	
667	hazardous_waste_target_domcoalcomb_year	wsttargethdomcoalcombyear	
668	hazardous_waste_target_other_year	wsttargethotheryear	
669	waste_disposal_method_baseline_reuse_percent	wstbaselinedispreusequant	
670	waste_disposal_method_baseline_recycle_percent	wstbaselinedisprecyclequant	
671	waste_disposal_method_baseline_nrgrecov_percent	wstbaselinedisprnrgrecovquant	
672	waste_disposal_method_baseline_incin_percent	wstbaselinedisprincinquant	
673	waste_disposal_method_baseline_onsiteincin_percent	wstbaselinedispronsiteincinquant	
674	waste_disposal_method_baseline_landfill_percent	wstbaselinedisprlandfillquant	
675	waste_disposal_method_baseline_onsitelandfill_percent	wstbaselinedispronsitelandfillquant	
676	waste_disposal_method_baseline_physchembio_percent	wstbaselinedisprphyschembioquant	
677	waste_disposal_method_baseline_upcycle_percent	wstbaselinedisprupcyclequant	
678	waste_disposal_method_baseline_other_percent	wstbaselinedisprpotheryear	
679	waste_disposal_method_baseline_reuse_year	wstbaselinedispreuseyear	
680	waste_disposal_method_baseline_recycle_year	wstbaselinedisprecycleyear	
681	waste_disposal_method_baseline_nrgrecov_year	wstbaselinedisprnrgrecovyear	
682	waste_disposal_method_baseline_incin_year	wstbaselinedisprincinyear	
683	waste_disposal_method_baseline_onsiteincin_year	wstbaselinedispronsiteincinyear	
684	waste_disposal_method_baseline_landfill_year	wstbaselinedisprlandfillyear	
685	waste_disposal_method_baseline_onsitelandfill_year	wstbaselinedispronsitelandfillyear	
686	waste_disposal_method_baseline_physchembio_year	wstbaselinedisprphyschembioyear	
687	waste_disposal_method_baseline_upcycle_year	wstbaselinedisprupcycleyear	
688	waste_disposal_method_baseline_other_year	wstbaselinedisprpotheryear	
689	waste_disposal_method_target_reuse_percent	wsttargetdispreusechange	
690	waste_disposal_method_target_recycle_percent	wsttargetdisprecyclechange	
691	waste_disposal_method_target_nrgrecov_percent	wsttargetdisprnrgrecovchange	
692	waste_disposal_method_target_incin_percent	wsttargetdisprincinchange	
693	waste_disposal_method_target_onsiteincin_percent	wsttargetdispronsiteincinchange	
694	waste_disposal_method_target_landfill_percent	wsttargetdisprlandfillchange	
695	waste_disposal_method_target_onsitelandfill_percent	wsttargetdispronsitelandfillchange	
696	waste_disposal_method_target_physchembio_percent	wsttargetdisprphyschembiochange	
697	waste_disposal_method_target_upcycle_percent	wsttargetdisprupcyclechange	
698	waste_disposal_method_target_other_percent	wsttargetdisprpotheryear	
699	waste_disposal_method_target_reuse_year	wsttargetdispreuseyear	
700	waste_disposal_method_target_recycle_year	wsttargetdisprecycleyear	
701	waste_disposal_method_target_nrgrecov_year	wsttargetdisprnrgrecovyear	
702	waste_disposal_method_target_incin_year	wsttargetdisprincinyear	
703	waste_disposal_method_target_onsiteincin_year	wsttargetdispronsiteincinyear	
704	waste_disposal_method_target_landfill_year	wsttargetdisprlandfillyear	
705	waste_disposal_method_target_onsitelandfill_year	wsttargetdispronsitelandfillyear	
706	waste_disposal_method_target_physchembio_year	wsttargetdisprphyschembioyear	
707	waste_disposal_method_target_upcycle_year	wsttargetdisprupcycleyear	
708	waste_disposal_method_target_other_year	wsttargetdisprpotheryear	
709	valid_operating_license	sipvalidoperatinglicense	
710	government_violation	sipgovenviolation2018	
711	ipe_records	sipiperrecords	
712	permit_compliance_wateruse	sippermitsreqwaterusecompliance	
713	permit_compliance_waterdisch	sippermitsreqwaterdischcompliance	
714	permit_compliance_wastewater	sippermitsreqwastewatercompliance	
715	permit_compliance_chemuse	sippermitsreqchemusecompliance	
716	permit_compliance_airemiss	sippermitsreqairemisscompliance	
717	permit_compliance_solidwaste	sippermitsreqsolidwastecompliance	
718	permit_compliance_other	sippermitsreqothercompliance	
719	verification_type	verificationBodyaccountvbType	
720	verification_verifier_id	verificationBodyaccountid	
721	verification_verifier_name	verificationBodyaccountname	

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

Name	Bulk Name or Formula	fem2020	fem2017
722	verification_cost	verifcost	
723	verification_start_date	verifstartdate	
724	verification_end_date	verifenddate	
725	verification_person_days	verifpersondays	
726	wastewater_combined_m3	wwtrackcombamt	
727	wastewater_domestic_m3	wwtrackdomamt	
728	wastewater_industrial_m3	wwtrackindamt	
729	onsite_water_treatment	sipfreshwaterpretreated	
730	onsite_water_pretreatment_types	sipfreshwaterpretreat	
731	onsite_water_primary_treatment_types	sipfreshwaterprimarytreat	
732	onsite_water_secondary_treatment_types	sipfreshwatersecondtreat	
733	onsite_water_tertiary_treatment_types	sipfreshwatertertiarytreat	
734	onsite_water_advanced_treatment_types	sipfreshwateradvtreat	
735	onsite_water_sludge_treatment_types	sipfreshwatersludgetreat	
736	wastewater_no_detection_parameters_2a-n	wwstandard2anchem	
737	wastewater_domestic_treatment_location	wwtreatdomlocation1	
738	wastewater_combined_treatment_location	wwtreatindlocation1	
739	wastewater_industrial_treatment_location	wwtreatindlocation2	
740	wastewater_zero_liquid_discharge	wwtypezld1	
741	wastewater_standard_zdhc	wwstandardtypezdhc	
742	wastewater_standard_bsr	wwstandardtypebsr	
743	wastewater_standard_ipe	wwstandardtypeipe	
744	wastewater_standard_customer	wwstandardtypecustomer	
745	wastewater_standard_other	wwstandardtypeother	

Note: If fem2020 or fem2017 have entries, those are the bulk csv refid names for those versions. Undefined means that REF ID did not exist for that version. An empty Bulk Name or Formula means the Bulk CSV does not contain this variable.