

Industrial Reporting Technical Webinar

Federico Antognazza, Juan Calero, Lucy Garland - 29 March 2023

European Environment Agency



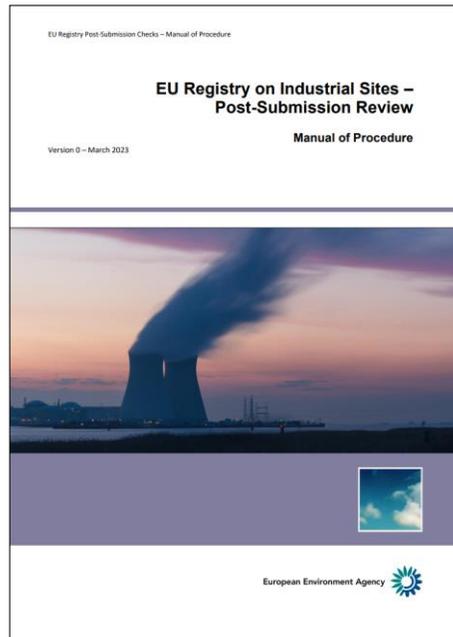
Agenda

- Post Submission checks: news and overview
- New timeline for working together
- How to improve together
- Production Volume

Post Submission Checks: what is new?

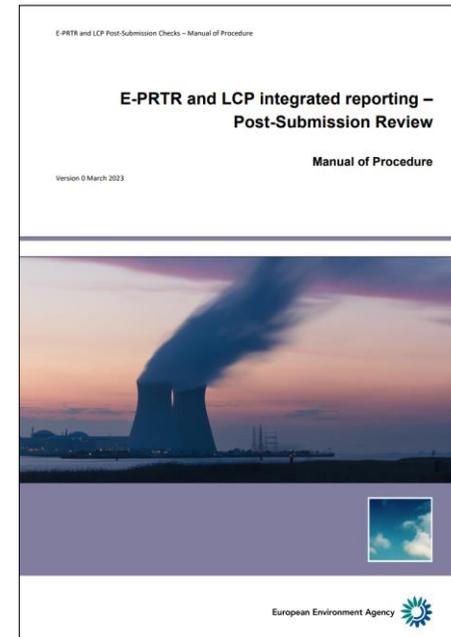
EU Registry

- Revised Manual of Procedure
- Clean up of deprecated checks
- Improvement in permit action checks

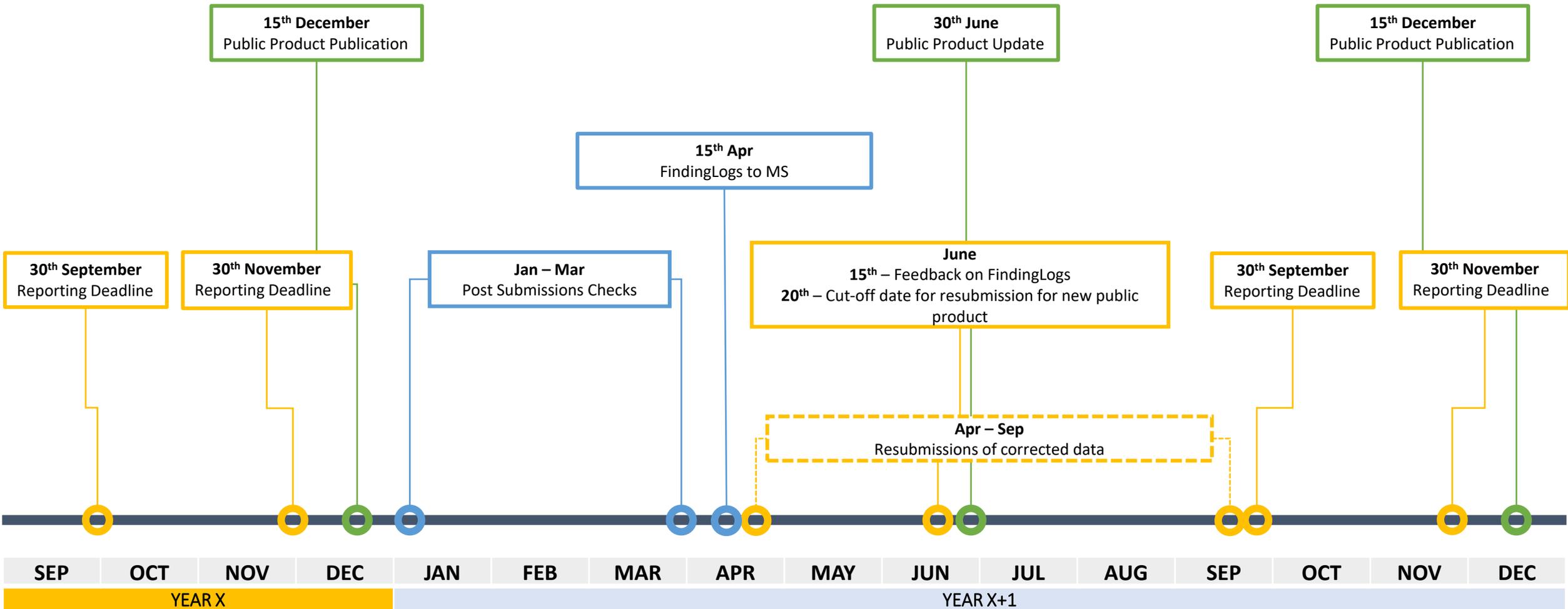


EPRTTR/LCP

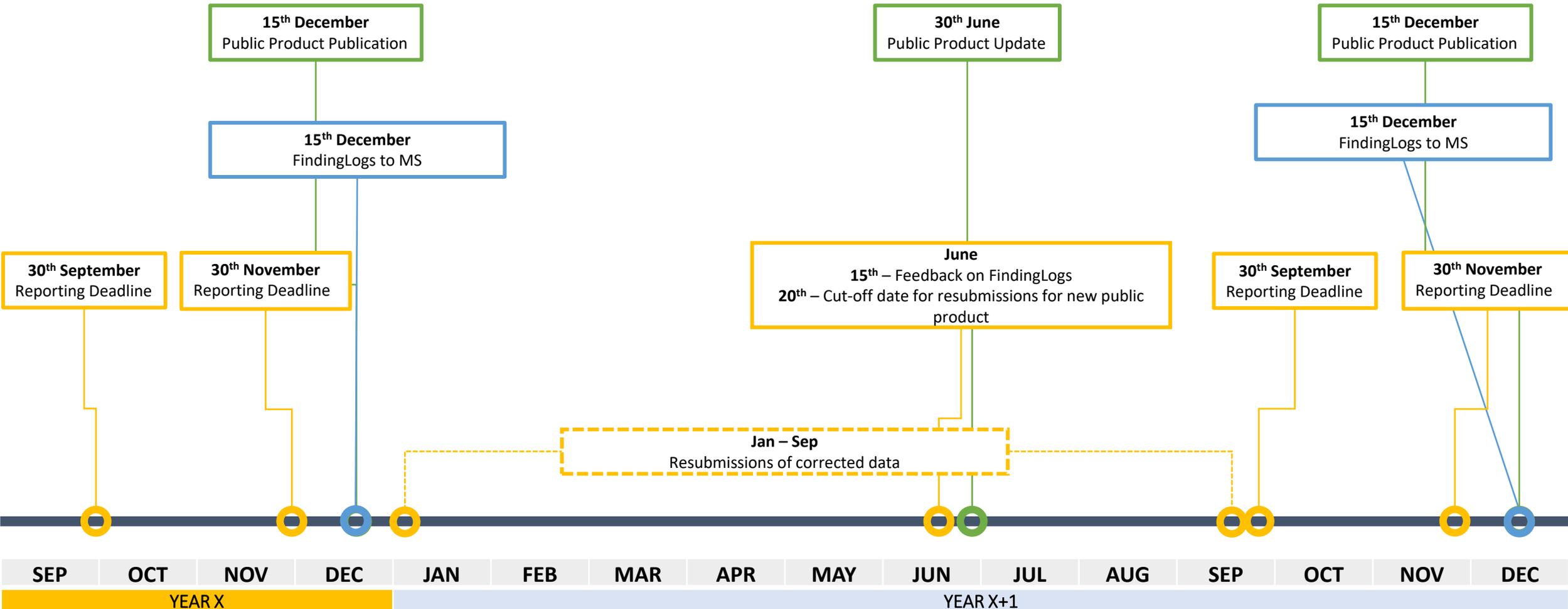
- Revised Manual of Procedure
- New set of checks
- Clear split on EPRTTR and LCP



EU-Registry and E-PRTR/LCP current working timeline



EU-Registry and E-PRTR/LCP NEW working timeline



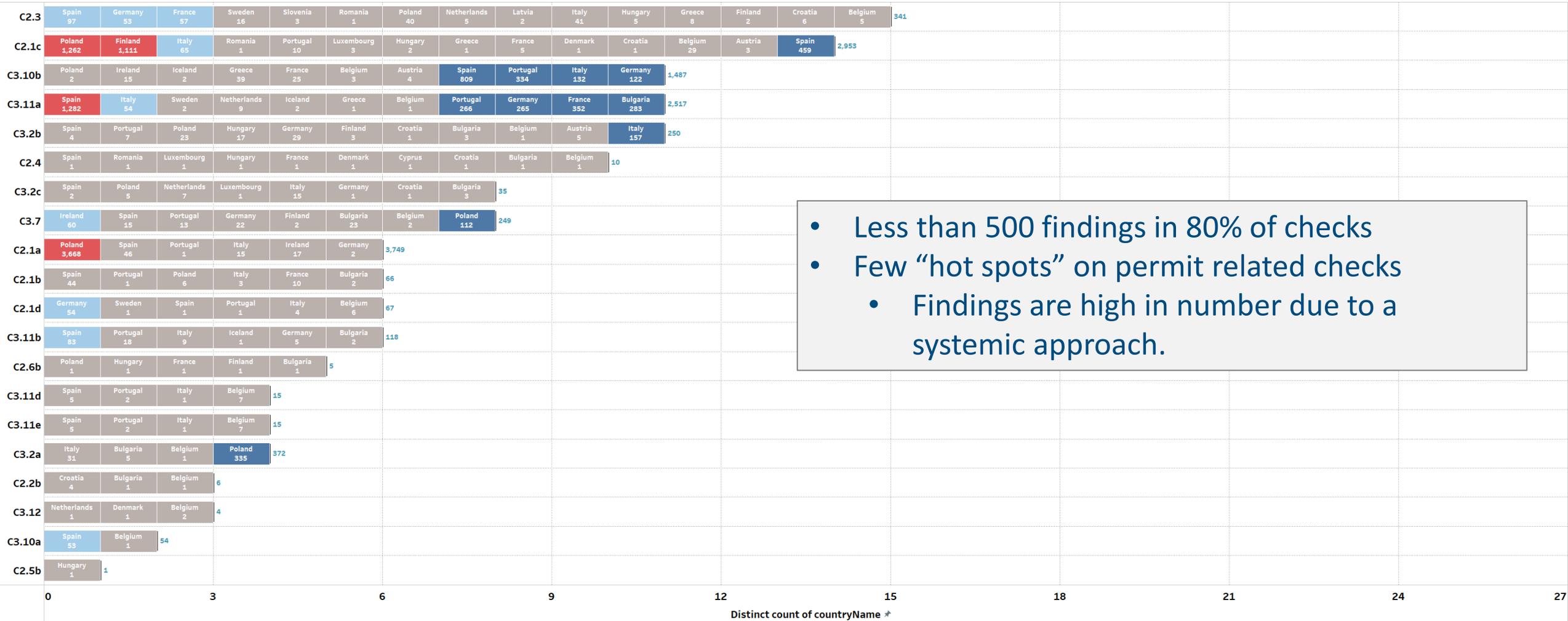
An aerial photograph of a large industrial plant, likely a power station or refinery. A prominent feature is a tall, slender smokestack with alternating red and white horizontal bands. Several large buildings and structures are visible, with thick plumes of white steam or smoke rising from them. The facility is surrounded by a mix of greenery and urban development in the background. The overall scene is captured from a high angle, providing a comprehensive overview of the industrial complex.

Post submissions checks overview

Post Submission Checks: EU Registry

	C2.3	C2.1c	C3.10b	C3.11a	C3.2b	C2.4	C3.2c	C3.7	C2.1a	C2.1b	C2.1d	C3.11b	C2.6b	C3.11d	C3.11e	C3.2a	C2.2b	C3.12	C3.10a	C2.5b
Austria																				
Belgium																				
Bulgaria																				
Croatia																				
Cyprus																				
Denmark																				
Finland																				
France																				
Germany																				
Greece																				
Hungary																				
Iceland																				
Ireland																				
Italy																				
Latvia																				
Luxembourg																				
Netherlands																				
Poland																				
Portugal																				
Romania																				
Slovenia																				
Spain																				
Sweden																				

Post Submission Checks: EU Registry



- Less than 500 findings in 80% of checks
- Few “hot spots” on permit related checks
 - Findings are high in number due to a systemic approach.

Post Submission Checks: Logic for Permit Reporting

Reporting year (RY)	Date of Granting	Date of Last Update	Permit Granted	Permit Updated	Permit Reconsidered	Installation status
2017	DoG		PG			Functional
2018	DoG	DoLU ₂₀₁₈	PG	PU	PR	Functional
2019	DoG	DoLU ₂₀₁₈	PG			Functional
2020	DoG	DoLU ₂₀₁₈	PG		PR	Functional
2021	DoG	DoLU ₂₀₂₁	PG	PU	PR	Functional

Post Submission Checks: E-PRTR/LCP

C.EPRTR.1

- IDENTIFICATION OF POTENTIAL POLLUTANT RELEASES/TRANSFER AND OFF-SITE WASTE TRANSFER AT FACILITY LEVEL IN **COMPARISON WITH THE PREVIOUS REPORTING YEAR**

C.EPRTR.2

- IDENTIFICATION OF POTENTIAL POLLUTANT RELEASES/TRANSFER AND OFF-SITE WASTE TRANSFER AT FACILITY LEVEL IN **COMPARISON WITH THE HISTORICAL DATA REPORTED**

C.EPRTR.3

- IDENTIFICATION OF POTENTIAL POLLUTANT RELEASES AND OFF-SITE WASTE TRANSFER AT FACILITY LEVEL **CONTINUITY ISSUES**

C.EPRTR.4

- FACILITY POLLUTANT RELEASES AND LCP EMISSIONS TO AIR FEASIBILITY

C.EPRTR.5

- IDENTIFICATION OF POTENTIAL OUTLIERS FROM NEW REPORTED PRODUCTION FACILITIES



Post Submission Checks: E-PRTR/LCP

C.LCP.1

- IDENTIFICATION OF POTENTIAL EMISSION TO AIR OUTLIER AT INSTALLATION PART LEVEL IN COMPARISON WITH THE PREVIOUS REPORTING YEAR

C.LCP.2

- IDENTIFICATION OF POTENTIAL ENERGY INPUT OUTLIER AT INSTALLATION PART LEVEL IN COMPARISON WITH THE PREVIOUS REPORTING YEAR

C.LCP.3

- IDENTIFICATION OF POTENTIAL OUTLIER AND COHERENCE AT INSTALLATION PART LEVEL OF REPORTED OPERATING HOURS

C.LCP.4

- IDENTIFICATION OF POTENTIAL OUTLIER AND COHERENCE AT INSTALLATION PART LEVEL OF REPORTED ENERGY INPUT

C.LCP.5

- IDENTIFICATION OF POTENTIAL OUTLIERS FROM NEW REPORTED LCP



Post Submission Checks: E-PRTR/LCP

	CheckNumber																																	
	C.EPRTR.1a	C.EPRTR.1b	C.EPRTR.1c	C.EPRTR.1d	C.EPRTR.1e	C.EPRTR.1f	C.EPRTR.2a	C.EPRTR.2b	C.EPRTR.2c	C.EPRTR.3a	C.EPRTR.3b	C.EPRTR.3c	C.EPRTR.3d	C.EPRTR.4a	C.EPRTR.4b	C.EPRTR.4c	C.EPRTR.4d	C.EPRTR.4e	C.EPRTR.4f	C.EPRTR.5a	C.LCP.1a	C.LCP.1b	C.LCP.2a	C.LCP.2b	C.LCP.3a	C.LCP.3b	C.LCP.3c	C.LCP.4a	C.LCP.4b	C.LCP.5a	C.LCP.5c			
Austria	█		█			█	█	█	█	█	█	█	█	█	█	█				█	█	█	█	█	█	█								
Belgium		█		█	█	█	█	█	█	█	█	█	█								█							█	█					
Bulgaria		█	█		█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█		
Croatia				█	█	█	█	█	█	█	█	█	█	█	█	█					█	█	█	█	█	█	█		█					
Cyprus				█	█	█	█	█	█	█	█	█	█								█	█	█	█	█	█	█	█	█	█	█	█		
Denmark	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█				█	█	█	█	█	█	█	█	█	█	█	█		
Estonia			█		█	█	█	█	█	█	█	█	█								█	█	█	█	█	█	█	█	█	█	█	█		
Finland		█		█	█	█	█	█	█	█	█	█	█								█	█	█	█	█	█	█	█	█	█	█	█		
France	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█			█	█	█	█	█	█	█	█	█	█	█	█	█		
Germany				█	█	█	█	█	█	█	█	█	█								█	█	█	█	█	█	█	█	█	█	█	█		
Greece	█	█	█	█	█	█	█	█	█	█	█	█	█						█	█	█	█	█	█	█	█	█	█	█	█	█	█		
Hungary	█		█	█	█	█	█	█	█	█	█	█	█								█	█	█	█	█	█	█	█	█	█	█	█		
Ireland	█		█	█	█	█	█	█	█	█	█	█	█								█	█	█	█	█	█	█	█	█	█	█	█		
Italy	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	
Latvia				█	█	█	█	█	█	█	█	█	█								█	█	█	█	█	█	█	█	█	█	█	█		
Luxembourg	█			█	█	█	█	█	█	█	█	█	█								█	█	█	█	█	█	█	█	█	█	█	█	█	
Netherlands	█	█	█	█	█	█	█	█	█	█	█	█	█								█	█	█	█	█	█	█	█	█	█	█	█	█	
Poland	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█			█	█	█	█	█	█	█	█	█	█	█	█	█	█	
Portugal	█		█	█	█	█	█	█	█	█	█	█	█								█	█	█	█	█	█	█	█	█	█	█	█	█	
Romania	█	█		█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	
Slovenia	█			█	█	█	█	█	█	█	█	█	█								█	█	█	█	█	█	█	█	█	█	█	█	█	
Spain	█	█	█	█	█	█	█	█	█	█	█	█	█								█	█	█	█	█	█	█	█	█	█	█	█	█	█
Sweden	█	█	█	█	█	█	█	█	█	█	█	█	█								█	█	█	█	█	█	█	█	█	█	█	█	█	█

Post Submission Checks: E-PRTR/LCP

C.EPRTR.2a	Sweden, 84	Finland, 56	Belgium, 84	Netherlands, 70	Romania, 93	Bulgaria, 56	Luxembourg, 5	Cyprus, 6	Latvia, 4	Slovenia, 13	Croatia, 14	Ireland, 30	Estonia, 36	Hungary, 46	Austria, 17	Greece, 42	Germany, 204	Portugal, 106	Denmark, 290	Spain, 409	Poland, 286	France, 255	Italy, 383	2,589
C.EPRTR.2c	France, 741	Finland, 68	Hungary, 61	Luxembourg, 7	Cyprus, 1	Latvia, 9	Slovenia, 15	Croatia, 22	Sweden, 49	Estonia, 16	Austria, 25	Portugal, 32	Greece, 20	Denmark, 43	Romania, 39	Bulgaria, 16	Ireland, 221	Germany, 476	Belgium, 151	Netherlands, 130	Spain, 184	Poland, 142	Italy, 274	2,742
C.EPRTR.3c	Spain, 1,076	France, 757	Italy, 799	Sweden, 80	Ireland, 58	Hungary, 86	Austria, 70	Greece, 64	Netherlands, 92	Bulgaria, 54	Luxembourg, 10	Cyprus, 2	Latvia, 5	Slovenia, 11	Croatia, 19	Estonia, 34	Denmark, 23	Finland, 136	Germany, 368	Portugal, 173	Belgium, 144	Poland, 300	Romania, 109	4,470
C.EPRTR.5a	Luxembourg, 2	Cyprus, 1	Latvia, 3	Slovenia, 2	Croatia, 6	Sweden, 8	Ireland, 9	Estonia, 4	Finland, 9	Hungary, 1	Germany, 13	Austria, 3	Portugal, 15	Greece, 6	Denmark, 38	Belgium, 16	Netherlands, 14	Spain, 25	Poland, 15	France, 29	Romania, 2	Bulgaria, 11	Italy, 36	268
C.EPRTR.1a	Germany, 92	Poland, 79	France, 90	Luxembourg, 3	Cyprus, 1	Slovenia, 5	Croatia, 7	Sweden, 31	Ireland, 13	Estonia, 3	Finland, 23	Hungary, 23	Austria, 2	Portugal, 31	Greece, 12	Denmark, 47	Belgium, 39	Netherlands, 29	Romania, 31	Bulgaria, 23	Spain, 105	Italy, 140	929	
C.EPRTR.1f	Germany, 66	Belgium, 68	Luxembourg, 2	Latvia, 1	Slovenia, 1	Croatia, 6	Sweden, 4	Ireland, 3	Estonia, 2	Finland, 10	Hungary, 13	Austria, 1	Portugal, 5	Greece, 1	Denmark, 13	Netherlands, 18	Spain, 23	Poland, 10	France, 28	Romania, 5	Bulgaria, 2	Italy, 32	314	
C.LCP.1a	Finland, 85	Netherlands, 62	Spain, 78	Poland, 87	France, 69	Italy, 57	Cyprus, 1	Latvia, 10	Slovenia, 3	Croatia, 5	Ireland, 38	Estonia, 11	Hungary, 19	Austria, 18	Portugal, 7	Greece, 28	Denmark, 43	Belgium, 31	Romania, 17	Bulgaria, 6	Sweden, 159	Germany, 277	1,111	
C.LCP.3a	Finland, 60	Netherlands, 62	France, 52	Cyprus, 2	Latvia, 8	Slovenia, 12	Croatia, 4	Sweden, 45	Ireland, 26	Estonia, 4	Hungary, 11	Austria, 36	Portugal, 13	Greece, 20	Denmark, 20	Belgium, 8	Spain, 100	Poland, 44	Romania, 24	Bulgaria, 11	Germany, 135	Italy, 102	799	
C.LCP.4b	Sweden, 58	Finland, 66	Netherlands, 54	Spain, 97	Cyprus, 2	Latvia, 6	Slovenia, 10	Croatia, 5	Ireland, 27	Estonia, 4	Hungary, 15	Austria, 33	Portugal, 17	Greece, 26	Denmark, 22	Belgium, 22	Poland, 49	France, 41	Romania, 29	Bulgaria, 15	Germany, 156	Italy, 141	895	
C.EPRTR.1e	Italy, 57	Luxembourg, 1	Cyprus, 1	Slovenia, 2	Croatia, 3	Sweden, 8	Ireland, 3	Estonia, 1	Finland, 17	Hungary, 8	Germany, 48	Portugal, 7	Greece, 5	Denmark, 4	Belgium, 20	Netherlands, 15	Spain, 34	Poland, 15	France, 25	Romania, 7	Bulgaria, 2	283		
C.EPRTR.3b	Germany, 63	Poland, 72	Luxembourg, 6	Slovenia, 4	Croatia, 8	Sweden, 9	Ireland, 2	Estonia, 7	Finland, 32	Hungary, 23	Austria, 21	Portugal, 35	Greece, 31	Denmark, 2	Belgium, 25	Netherlands, 24	Romania, 15	Bulgaria, 15	Spain, 205	France, 133	Italy, 186	918		
C.EPRTR.3d	Spain, 64	France, 57	Latvia, 4	Slovenia, 1	Croatia, 2	Sweden, 11	Ireland, 1	Estonia, 5	Finland, 26	Hungary, 26	Austria, 25	Portugal, 7	Greece, 3	Denmark, 3	Belgium, 46	Romania, 17	Bulgaria, 4	Germany, 182	Netherlands, 108	Poland, 111	Italy, 144	847		
C.LCP.1b	Germany, 65	Spain, 72	Latvia, 2	Slovenia, 2	Croatia, 2	Sweden, 6	Ireland, 8	Estonia, 3	Finland, 20	Hungary, 8	Austria, 9	Portugal, 16	Greece, 16	Denmark, 10	Belgium, 21	Netherlands, 18	Poland, 12	France, 34	Romania, 23	Bulgaria, 3	Italy, 43	393		
C.LCP.2a	Germany, 75	Cyprus, 1	Latvia, 6	Croatia, 1	Sweden, 45	Ireland, 14	Estonia, 3	Finland, 41	Hungary, 10	Austria, 8	Portugal, 2	Greece, 5	Denmark, 10	Belgium, 8	Netherlands, 29	Spain, 18	Poland, 28	France, 11	Romania, 3	Bulgaria, 2	Italy, 38	358		
C.EPRTR.2b	Portugal, 31	Spain, 68	Poland, 79	France, 63	Slovenia, 6	Croatia, 4	Sweden, 8	Ireland, 17	Estonia, 4	Finland, 15	Hungary, 16	Austria, 20	Greece, 14	Belgium, 14	Netherlands, 42	Romania, 7	Bulgaria, 15	Germany, 217	Denmark, 295	Italy, 238	1,233			
C.LCP.2b	Latvia, 1	Ireland, 3	Finland, 5	Hungary, 1	Germany, 16	Austria, 4	Portugal, 5	Greece, 4	Denmark, 3	Belgium, 4	Netherlands, 9	Spain, 13	Poland, 3	France, 8	Romania, 7	Italy, 11	97							
C.EPRTR.1b	Sweden, 2	Estonia, 3	Finland, 2	Germany, 2	Portugal, 1	Greece, 2	Belgium, 1	Netherlands, 1	Spain, 5	Poland, 6	France, 3	Romania, 1	Bulgaria, 4	Italy, 5	Denmark, 101	139								
C.EPRTR.1c	Sweden, 1	Ireland, 1	Estonia, 1	Hungary, 2	Germany, 29	Austria, 2	Portugal, 11	Greece, 5	Denmark, 30	Netherlands, 5	Spain, 10	Poland, 15	France, 6	Bulgaria, 4	Italy, 28	150								
C.EPRTR.3a	Finland, 6	Hungary, 1	Germany, 1	Austria, 1	Portugal, 1	Greece, 4	Belgium, 3	Netherlands, 3	Spain, 10	Poland, 7	France, 12	Bulgaria, 2	Italy, 9	60										
C.LCP.3b	Latvia, 1	Finland, 3	Hungary, 1	Germany, 6	Greece, 1	Netherlands, 1	Spain, 6	France, 3	Italy, 2	24														
C.EPRTR.4a	Austria, 2	Denmark, 1	Poland, 4	France, 4	Romania, 1	Bulgaria, 12	Italy, 9	33																
C.EPRTR.4c	Austria, 2	Denmark, 1	Poland, 4	France, 4	Romania, 1	Bulgaria, 12	Italy, 9	33																
C.LCP.4a	Croatia, 1	Hungary, 3	Portugal, 2	Belgium, 1	Netherlands, 4	Spain, 10	Romania, 1	22																
C.EPRTR.1d	Slovenia, 1	Portugal, 1	Denmark, 13	Belgium, 1	Spain, 3	Italy, 5	24																	
C.EPRTR.4b	Austria, 1	Poland, 1	Romania, 2	Bulgaria, 8	Italy, 3	15																		
C.EPRTR.4f	Greece, 1	Poland, 1	Romania, 1	Bulgaria, 2	5																			
C.LCP.3c	Belgium, 5	Netherlands, 2	Spain, 1	France, 3	11																			
C.EPRTR.4d	Romania, 1	Bulgaria, 3	Italy, 3	7																				
C.EPRTR.4e	Romania, 1	Bulgaria, 2	Italy, 2	5																				
C.LCP.5a	Luxembourg, 1	1																						
C.LCP.5c	Luxembourg, 1	1																						

Distinct count of countryName *



Post Submission Checks: E-PRTR/LCP – Waste Transfer

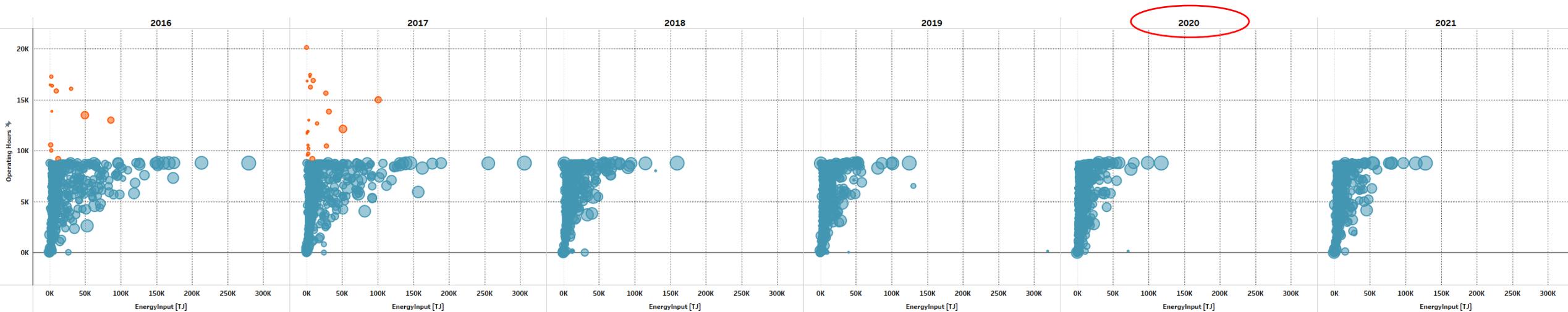
- Found a bug in the code that generated all the OffSite Waste Transfer checks
 - C.EPRTR.1e
 - C.EPRTR.1f
 - C.EPRTR.2c
 - C.EPRTR.3d
- A new findingLog concerning these checks only is going to be re-issued

Post Submission Check: E-PRTR Overview

- Few checks with many findings
- C.EPRTR.3c has many findings but it has a low priority.
- On the Y2Y changes potential post-Covid impact
- C.EPRTR.4:
 - This is a current check on Automatic QA.
 - The aim for RY 2022 is to elevate this as a blocker when SO₂ and NO_x are reported above the threshold at LCP level and the parent facility has 0 reported.

Post Submission Check: LCP overview

- C.LCP.1a: Many findings potentially due to post-Covid changes in the operation
- C.LCP.3a: Significant amount of findings
- C.LCP.3b and C.LCP.3c: Should this be a blocker in the future?
 - C.LCP.3c (Energy Input 0, OpH > 30% year): Only 11 findings. All > 4000 hours with NO energyInput



Adding new blockers helps in improving data quality

Questionnaire and Webinar

- Running a program, under ETC HE, to support reporters in industrial reporting
- Two support options:
 - Provide one-to-one support sessions
 - Provide more in-depth support to a few reporters
- In order to understand reporters' needs we will be developing and sending out a questionnaire

An aerial photograph of a large industrial plant, likely a power station or refinery. A prominent feature is a tall, slender smokestack with alternating red and white horizontal bands. Several large buildings and structures are visible, with thick plumes of white steam or smoke rising from them. The facility is surrounded by a mix of greenery and urban development in the background. A semi-transparent dark green banner is overlaid across the middle of the image, containing the title text.

Reporting of Production Volume Update

Production Volume

June 2022

- Updated documentation (Data model, Manual for Reporters and QA/QC manual)
- Updated .xml schema and updated MS Access Template
- Link to updated converter

Ongoing

- Collecting question from MS
- Finalising Automatic QA on CDRTTest
- Update of harvester from CDR and SQL DB

Autumn 2023

- Testing from MS on CDRTTest with harvestning in a Test SQL DB

Thank you



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