

Projections expert panel agenda

- 09:00 Introduction
- 09:05 Tools, method and case studies in emissions projections for regional and local air quality plans (Carlo Trozzi)
- 09:25 Summary and recommendations from the EC's air pollutant emission projections support project and waste guidance (Anne Misra and Eirini Karagianni)
- 09:55 Process for finalisation of the general and sectoral projection guidance chapters and updates to the Annex IV reporting template (Melanie to lead, all for discussion)

Updates to the projections chapter of the Guidebook

- General text
- 1A1 energy industries
- 1A2 manufacturing industries and construction
- 1A3b road transport
- 1A3d navigation (shipping)
- 1A4 small combustion - stationary (focus on the residential sector)
- 1A4 and 1A5 small combustion mobile (NRMM)
- 2 Industrial processes and product use (focus on solvent use)
- 3 Agriculture
- 5 Waste



General Guidance on Estimating and Reporting Air Pollutant Emission Projections

Specific contract No 070201/2018/780958/SFRA/ENV.C3 – Assistance to Member States in developing national air pollutant projections



Updates to the projections chapter of the Guidebook

General text on the following that could be included in the updated EMEP / EEA projections chapter

- Planning
- Institutional arrangements
- Historical emissions inventory
- QA/QC and TCCCA
- Consistency with GHG projections and other policy areas
- Reporting of projections and PaMs

Consistency with historical year definition

- The NEC Directive states in its Annex IV part 2 that ‘National emission projections shall be consistent with the national annual emission inventory for the year x-3 ...’ i.e. projections reported in March 2019 submission need to be consistent with the emissions data for 2016 reported in 2018.
- The 2014 Guidelines for Reporting Emissions and Projections Data under CLRTAP, state ‘Calculated projections should be consistent with the latest inventory’ (paragraph 27). Could this mean that projections reported in a March 2019 should be consistent with the emissions data for 2017 reported in 2019?
- The Projections Chapter in the EMEP/EEA Guidebook states ‘... it is good practice for the starting point ... to be most recent inventory year’. i.e. it is consistent with the CLRTAP reporting guidelines Clear?

Proposed section headings for projections section of IIR:

1. Provide a general overview of the national policy framework and the institutional arrangements in place
2. State the year of the historical inventory data (base year) and year of inventory report used as a starting point for the projections
3. List the data providers
4. Provide general information on key assumptions and parameters used such as economic growth and fuel prices
5. Comment on consistency with GHG emission projections
6. For each sector, list the sources of data, methodology, completeness
7. List PaMs and whether they are included in WM or WAM
8. Results of sensitivity analysis

Projections expert panel – formation of ad-hoc group 1

It is proposed that we form an ad-hoc group to decide what from the main body of the report will go into the projections chapter in the EMEP/EEA Guidebook

Volunteers?

Annex IV A projections reporting template - current

1	ANNEX IV A-WM: Emission projections reporting template - With Measures													
2	NFR 2014-1													
3														
4	COUNTRY: 		(as ISO2 code)											
5	DATE: 		(as DD.MM.YYYY)											
6	Version: 		(as v1.0 for the initial submission)											
7														
8			Projected emissions (kt)					Projected emissions (kt)						
9			NOx					NMVOC						
10								Guidelines Reporting Years						
11	<i>NFR Code</i>	<i>Longname</i>	<i>most recent historic year</i>	<i>2020</i>	<i>2025</i>	<i>2030</i>	<i>2040 where available</i>	<i>2050</i>	<i>most recent historic year</i>	<i>2020</i>	<i>2025</i>	<i>2030</i>	<i>2040 where available</i>	<i>2050</i>
12	1A1	Energy industries (Combustion in power plants & Energy Production)												
13	1A2	Manufacturing Industries and Construction (Combustion in industry including Mobile)												
14	1A3b	Road Transport												
15	1A3bi	R.T., Passenger cars												
16	1A3bii	R.T., Light duty vehicles												
17	1A3biii	R.T., Heavy duty vehicles												
18	1A3biv	R.T., Mopeds & Motorcycles												
19	1A3bv	R.T., Gasoline evaporation												
20	1A3bvi	R.T., Automobile tyre and brake wear												
21	1A3bvii	R.T., Automobile road abrasion												
22	1A3a,c,d,e	Off-road transport												
23	1A4	Other sectors (Commercial, institutional, residential, agriculture and fishing stationary and mobile combustion)												
24	1A5	Other												
25	1B	Fugitive emissions (Fugitive emissions from fuels)												
26	2A,B,C,H,I,J,K,L	Industrial Processes												
27	2D, 2G	Solvent and other product use												
28	3B	Animal husbandry and manure management												
29	3B1a	Cattle Dairy												
30	3B1b	Cattle Non-Dairy												
31	3B2	Sheep												
32	3B3	Swine												
33	3B4a	Buffalo												
													+	
Introduction ANNEX IV A-WM ANNEX IV B-WM ANNEX IV A-WaM ANNEX IV B-WaM														

Annex IV B projections reporting template - current

1	ANNEX IV B-WM: Template for reporting national projection Activity Data(a) - With Measures									
2	NFR 2014-1									
3										
4	COUNTRY:		(as ISO2 code)							
5	DATE :		(as DD.MM.YYYY)							
6	Version:		(as v1.0 for the initial submission)							
7										
8		Latest Historic Year		Projected Activity Data						
9	<i>Activity</i>	<i>Reference Year 2000</i>	<i>Most recent historic year</i>	<i>2020</i>	<i>2025</i>	<i>2030</i>	<i>2040 where available</i>	<i>2050</i>	<i>Units (energy units are in NCV)</i>	<i>Notes on Measures included excluded</i>
10	Assumptions for general economic parameters:									
11	1. Gross Domestic Product (GDP)								10 ⁹ €	
12	2. Population								Thousand People	
13	3. International coal prices								€ per tonne or GJ (Gigajoule), Other please specify	
14	4. International oil prices								€ per barrel or GJ	
15	5. International gas prices								€ per m3 or GJ	
16	Assumptions for the energy sector:									
17	<i>Total gross inland consumption</i>									
18	1. Oil (fossil)								Petajoule (PJ)	
19	2. Gas (fossil)								Petajoule (PJ)	
20	3. Coal								Petajoule (PJ)	
21	4. Biomass without liquid biofuels (e.g. wood)								Petajoule (PJ)	
22	5. Liquid biofuels (e.g. bio-oils)								Petajoule (PJ)	
23	6. Solar								Petajoule (PJ)	
24	7. Other renewable (wind, geothermal etc.)								Petajoule (PJ)	
25	<i>Total electricity production by fuel type</i>									
26	8. Oil (fossil)								GWh	
27	9. Gas (fossil)								GWh	
28	10. Coal								GWh	
29	11. Renewable								GWh	
30	Assumptions for Industry: (for industrial sectors contributing more than 1% of the national total for the base or target year)									
31	<i>For Parties using macroeconomic models:</i>									
32	12. The share of the industrial sector in GDP and growth rate (e.g. iron & steel, other metals, cement, coke production, pulp and paper, petroleum refining)									
33	<i>...Please insert a row for each industrial sector....</i>								% share	
34	<i>For Parties using other models:</i>									
	13. The physical production index (e.g. iron & steel, other metals, cement, coke production,									
	Introduction ANNEX IV A-WM ANNEX IV B-WM ANNEX IV A-WaM ANNEX IV B-WaM +									

Annex IV A projections reporting template - proposed

: : 2020	NFR sectors to be reported			Main Pollutants (from 1990)			
				NOx (as NO ₂)	NMVOC	SOx (as SO ₂)	NH ₃
NFR Aggregation for Gridding and LPS (GNFR)	NFR Code	Long name	Notes	kt	kt	kt	kt

. Detailed NFR code reporting

	ADJUSTMENTS	Sum of approved adjustments (negative value) from Annex VII (CLRTAP)					
	COMPLIANCE TOTAL (CLRTAP)	National total for compliance calculations and checks (CLRTAP)	(c)	10.00	0.00	0.00	0.00
	ADJUSTMENTS AND FLEXIBILITIES	Sum of approved adjustments from Annex VII and other flexibilities (negative value) (NECD)	(d)				
	COMPLIANCE TOTAL (NECD)	National total for compliance calculations and checks (NECD)	(e)	0.00	0.00	0.00	0.00

Annex IV B projections reporting template - proposed

	A	B	C	D	AE	AF	AG	AH	AI	AJ	AK	AL
1	ANNEX 1: National sector emissions: Main pollutants, particulate ma											
2	NFR 2019-1											
3												
4	COUNTRY:		(as ISO2 code)									
5	DATE:		(as DD.MM.YYYY)									
6	YEAR:	2020	(as YYYY, year of emissions and activity data)									
7	Version:		(as v1.0 for the initial submission)									
8												
9												
10					Activity Data (from 1990)							
11	: : 2020	NFR sectors to be reported										
12					Liquid Fuels	Solid Fuels	Gaseous Fuels	Biomass	Other Fuels	Other activity (specified)	Other Activity Units	
13	NFR Aggregation for Gridding and LPS (GNFR)	NFR Code	Long name	Notes	TJ NCV	TJ NCV	TJ NCV	TJ NCV	TJ NCV			
14	A_PublicPower	1A1a	Public electricity and heat production							NA	TJ NCV	
15	B_Industry	1A1b	Petroleum refining							NA	TJ NCV	
16	B_Industry	1A1c	Manufacture of solid fuels and other energy industries							NA	TJ NCV	
17	B_Industry	1A2a	Stationary combustion in manufacturing industries and construction: Iron and steel							NA	TJ NCV	
18	B_Industry	1A2b	Stationary combustion in manufacturing industries and construction: Non-ferrous metals							NA	TJ NCV	
19	B_Industry	1A2c	Stationary combustion in manufacturing industries and construction: Chemicals							NA	TJ NCV	
20	B_Industry	1A2d	Stationary combustion in manufacturing industries and construction: Pulp, Paper and Print							NA	TJ NCV	
21	B_Industry	1A2e	Stationary combustion in manufacturing industries and construction: Food processing, beverages and tobacco							NA	TJ NCV	
22	B_Industry	1A2f	Stationary combustion in manufacturing industries and construction: Non-metallic minerals							NA	TJ NCV	
23	L_Offroad	1A2gvii	Mobile combustion in manufacturing industries and construction (please specify in the IIR)							NA	TJ NCV	
24	B_Industry	1A2gviii	Stationary combustion in manufacturing industries and construction: Other (please specify in the IIR)							NA	TJ NCV	
25	H_Aviation	1A3ai(i)	International aviation LTO (civil)							NA	TJ NCV	
26	H_Aviation	1A3ai(ii)	Domestic aviation LTO (civil)							NA	TJ NCV	
27	F_RoadTransport	1A3bi	Road transport: Passenger cars							NA	TJ NCV	
28	F_RoadTransport	1A3bii	Road transport: Light duty vehicles							NA	TJ NCV	
29	F_RoadTransport	1A3biii	Road transport: Heavy duty vehicles and buses							NA	TJ NCV	
30	F_RoadTransport	1A3biv	Road transport: Mopeds & motorcycles							NA	TJ NCV	

Projections expert panel – formation of ad-hoc group 2

It is proposed that we form an ad-hoc group to formalise the update of the Annex IV projections reporting template

Volunteers?

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Timeline

Oct – Nov 2018:

Review round 1 (most of the updated chapters available)

Apr – May 2019:

Second review round (corrected versions plus some additional chapters)

May 2019:

TFEIP discussion on 'technical endorsement' of the Guidebook

June-July:

Possibility for final corrections and/or additional work to be performed (if requested by TFEIP)

July-Aug:

EEA to perform language editing, formatting

Sept:

Formal approval of the updated Guidebook 2019 by the EMEP Steering Body

Sept-Oct 19: Guidebook 2019 published