

REPORTOVANIE NEURČITOSTÍ



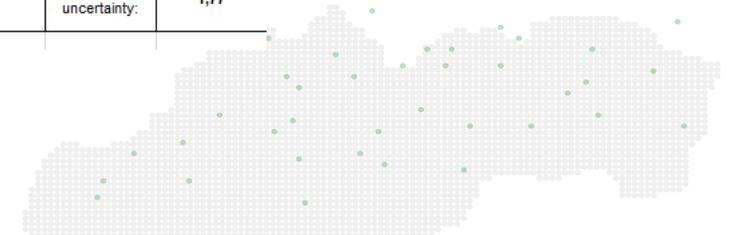
Roman Mach

REPORTOVANIE NEURČITOSTÍ PODĽA ČLÁNKU 12 – ANNEX X

- Výpočet neurčitostí emisnej inventúry vychádza z IPCC 2006 Guidelines (2019 IPCC Refinements) – kapitola 3, vol.1 GGR
- Výpočet neurčitostí na základe prístupu 1 (Approach 1)
- Nové tabuľky v NID obsahujúce neurčitosti aktivitných údajov a emisných faktorov
- Kontrola a prípadná aktualizácia údajov

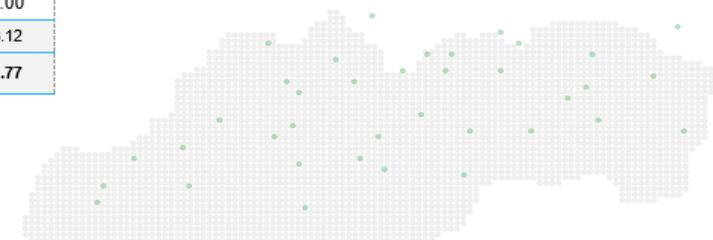
ANNEX X Reporting on uncertainty and completeness pursuant to Article 12 SVK												
15.1.2026												
A	B	C	D	E	F	G	H	I	J	K	L	M
IPCC category	Gas	Base year emissions or removals	Year 2024 emissions or removals	Activity data uncertainty	Emission factor/estimation parameter uncertainty	Combined uncertainty	Contribution to Variance by Category in Year x	Type A sensitivity	Type B sensitivity	Uncertainty in trend in national emissions introduced by emission factor/estimation parameter uncertainty	Uncertainty in trend in national emissions introduced by activity data uncertainty	Uncertainty introduced into the trend in total national emissions
		Input data	Input data	Input data Note A	Input data Note A	$\sqrt{E^2 + F^2}$	$\frac{(G * D)^2}{(\sum D)^2}$	Note B	$\left \frac{D}{\sum C} \right $	I * F Note C	J * E * $\sqrt{2}$ Note D	$K^2 + L^2$
		Gg CO ₂ equivalent	Gg CO ₂ equivalent	%	%	%		%	%	%	%	%
2F1 Refrigeration and Air conditioning	HFCs	0,00	380,53	2,10	0,00	2,10	0,00	0,01	0,01	0,00	0,01	0,00
2F2 Foam Blowing Agents	HFCs	0,00	1,72	8,21	0,00	8,21	0,00	0,00	0,00	0,00	0,00	0,00
2F3 Fire Protection	HFCs	0,00	35,88	13,49	0,00	13,49	0,00	0,00	0,00	0,00	0,01	0,00
2F4 Aerosols	HFCs	0,00	9,95	10,08	0,00	10,08	0,00	0,00	0,00	0,00	0,00	0,00
1A1 Fuel combustion - Energy Industries - Liquid Fuels	CO2	3819,21	1263,13	5,00	3,60	6,16	0,07	0,01	0,02	0,02	0,03	0,00
1A1 Fuel combustion - Energy Industries - Solid Fuels	CO2	12861,05	1637,47	2,50	3,60	4,38	0,06	0,06	0,03	0,23	0,16	0,08
1A1 Fuel combustion - Energy Industries - Gaseous Fuels	CO2	2293,69	2236,07	2,50	2,75	3,72	0,08	0,02	0,03	0,05	0,05	0,00
1A1 Fuel combustion - Energy Industries - Other Fossil Fuels	CO2	35,61	159,85	5,00	5,00	7,07	0,00	0,00	0,00	0,01	0,01	0,00
Total		64978,57	28872,24					141,59				3,12
								Percentage uncertainty in total inventory:			Trend uncertainty:	1,77

Source: 2006 IPCC guidelines, Volume 1, Table 3.2 Approach 1 uncertainty calculation



NID – Annex 2. ASSESSMENT OF UNCERTAINTY

CRT	IPCC Category	GAS	BASE YEAR EMISSIONS OR REMOVALS	YEAR 2024 EMISSIONS OR REMOVALS	ACTIVITY DATA UNCERTAINTY	EMISSION FACTOR UNCERTAINTY	COMBINED UNCERTAINTY	CONTRIBUTION TO VARIANCE BY CATEGORY IN YEAR 2023	TYPE A SENSITIVITY	TYPE B SENSITIVITY	UNCERTAINTY IN TREND IN NATIONAL EMISSIONS INTRODUCED BY EMISSION FACTOR / ESTIMATION PARAMETER UNCERTAINTY	UNCERTAINTY IN TREND IN NATIONAL EMISSIONS INTRODUCED BY ACTIVITY DATA UNCERTAINTY	UNCERTAINTY INTRODUCED INTO THE TREND IN TOTAL NATIONAL EMISSIONS
3.B.2	Indirect N ₂ O Emissions From Managed Soils	N ₂ O	610.51	110.10	77.10	103.30	128.90	0.24	0.00	0.00	0.26	0.19	0.10
4.A.1	Forest Land - Forest Land Remaining Forest Land	N ₂ O	6.48	9.73	5.00	5.00	7.07	0.00	0.00	0.00	0.00	0.00	0.00
4.A.2	Forest Land - Land Converted to Forest Land	N ₂ O	0.04	0.00	5.00	5.00	7.07	0.00	0.00	0.00	0.00	0.00	0.00
4.B.1	Cropland - Cropland Remaining Cropland	N ₂ O	0.37	0.03	5.00	5.00	7.07	0.00	0.00	0.00	0.00	0.00	0.00
4.B.2	Cropland - Land Converted to Cropland	N ₂ O	94.82	6.07	75.00	100.00	125.00	0.00	0.00	0.00	0.06	0.04	0.00
4.C.1	Grassland - Grassland Remaining Grassland	N ₂ O	0.76	0.08	5.00	5.00	7.07	0.00	0.00	0.00	0.00	0.00	0.00
4.C.2	Grassland - Land Converted to Grassland	N ₂ O	1.10	0.27	75.00	100.00	125.00	0.00	0.00	0.00	0.00	0.00	0.00
4.E.2	Settlements - Land Converted to Settlements	N ₂ O	4.88	5.58	75.00	100.00	125.00	0.00	0.00	0.00	0.01	0.00	0.00
4.F.2	Other land - Land Converted to Other Land	N ₂ O	10.95	5.64	75.00	100.00	125.00	0.00	0.00	0.00	0.00	0.00	0.00
5.B	Biological Treatment of Solid Waste	N ₂ O	41.28	104.26	8.42	93.34	93.72	0.11	0.00	0.00	0.12	0.01	0.02
5.C	Incineration and Open Burning of Waste	N ₂ O	0.32	0.07	5.00	100.00	100.12	0.00	0.00	0.00	0.00	0.00	0.00
5.D	Wastewater Treatment and Discharge	N ₂ O	75.12	130.23	6.74	31.44	32.16	0.02	0.00	0.00	0.05	0.01	0.00
2.C.3	Metal Industry - Aluminium Production	PFCs	213.92	0.00	1.50	10.05	10.16	0.00	0.00	0.00	0.01	0.00	0.00
2.F.1	Refrigeration and air conditioning	PFCs	0.00	0.02	2.10	11.00	11.20	0.00	0.00	0.00	0.00	0.00	0.00
2.G.1	Electrical equipment	SF ₆	0.06	5.90	2.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL			64 978.57	28 872.24		141.59							3.12
Total Uncertainties			-55.57	Uncertainty in total inventory %:		11.90					Trend uncertainty %:		1.77



Odpady

7.5.3. Uncertainty Assessment and Time-series Consistency

Overall uncertainty used in Approach 1 of the analyses are provided in the [Table 7.31](#).

Table 7.31: Activity data and EF uncertainty for 5.D category

CATEGORY	GAS	ACTIVITY DATA UNCERTAINTY	EMISSION FACTOR UNCERTAINTY
5.D Wastewater Treatment and Discharge	CH ₄	4.44	31.44
5.D Wastewater Treatment and Discharge	N ₂ O	6.74	31.44

LULUCF

CATEGORY	GAS	ACTIVITY DATA UNCERTAINTY	EMISSION FACTOR UNCERTAINTY
4.A.1 Forest Land - Forest Land Remaining Forest Land	CO ₂	20.00	82.84
4.A.1 Forest Land - Forest Land Remaining Forest Land	CH ₄	5.00	5.00
4.A.1 Forest Land - Forest Land Remaining Forest Land	N ₂ O	5.00	5.00
4.A.2 Forest Land - Land Converted to Forest Land	CO ₂	3.00	57.81
4.A.2 Forest Land - Land Converted to Forest Land	CH ₄	5.00	5.00
4.A.2 Forest Land - Land Converted to Forest Land	N ₂ O	5.00	5.00

Poľnohospodárstvo

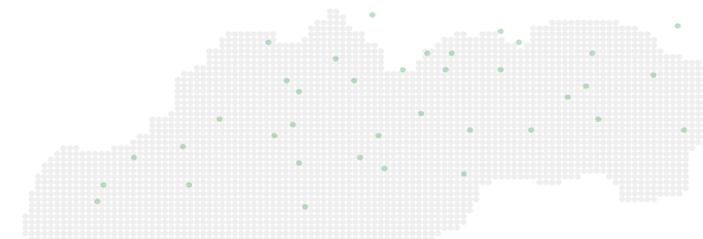
CATEGORY	GAS	ACTIVITY DATA UNCERTAINTY	EMISSION FACTOR UNCERTAINTY
3.D.1 Direct N ₂ O Emissions From Managed Soils	N ₂ O	59.37	36.22
3.D.2 Indirect N ₂ O Emissions From Managed Soils	N ₂ O	77.10	103.30

Energetika

CATEGORY	GAS	ACTIVITY DATA UNCERTAINTY	EMISSION FACTOR UNCERTAINTY
1.A.1 Energy Industries – Liquid Fuels	CO ₂	5.00	3.60
1.A.1 Energy Industries – Solid Fuels	CO ₂	2.50	3.60
1.A.1 Energy Industries – Gaseous Fuels	CO ₂	2.50	2.75
1.A.1 Energy Industries – Other Fossil Fuels	CO ₂	5.00	5.00
1.A.1 Energy Industries – Liquid Fuels	CH ₄	3.00	50.00
1.A.1 Energy Industries – Solid Fuels	CH ₄	3.00	50.00
1.A.1 Energy Industries – Gaseous Fuels	CH ₄	3.00	5.00
1.A.1 Energy Industries – Other Fossil Fuels	CH ₄	5.00	50.00
1.A.1 Energy Industries – Biomass	CH ₄	3.00	50.00
1.A.1 Energy Industries – Liquid Fuels	N ₂ O	3.00	50.00
1.A.1 Energy Industries – Solid Fuels	N ₂ O	3.00	50.00
1.A.1 Energy Industries – Gaseous Fuels	N ₂ O	3.00	5.00
1.A.1 Energy Industries – Other Fossil Fuels	N ₂ O	3.00	50.00
1.A.1 Energy Industries – Biomass	N ₂ O	3.00	50.00

Priemysel

CATEGORY	GAS	ACTIVITY DATA UNCERTAINTY	EMISSION FACTOR UNCERTAINTY
2.C.1 Metal Industry - Iron and Steel Production	CO ₂	2.23	5.77
2.C.1 Metal Industry - Iron and Steel Production	CH ₄	2.23	400.00



Ďakujeme za pozornosť

