Expert judgement collection and documentation

Training seminar on uncertainty evaluation

October 28th-29th, 2015
Norwegian Environment Agency

Vita RATNIECE
Latvian Environment, Geology and Meteorology Centre
Air and Climate Division

2009 – 2014 EEA GRANTS PROGRAMME
NATIONAL CLIMATE POLICY

PRE-DEFINED PROJECT
"DEVELOPMENT OF THE NATIONAL SYSTEM FOR GREENHOUSE GAS INVENTORY AND REPORTING ON POLICIES, MEASURES AND PROJECTIONS"
Nr.4.3-23/EEZ/INP-002

Uncertainty (%) given by Central Statistical Bureau (CSB) for activity data

Referring to your letter No. 18-1e/739 on 29.01.2015 about Central Statistical Bureau (CSP) activity data uncertainty, CSB explains the following:

- Statistical sampling error (Uncertainty) for energy data is evaluated as 2%;
- Industrial and Construction Statistics Section has been carried out quantitative evaluation of data used in GHG inventory according to EU PRODCOM classification and product types. CSP confirms that uncertainty for these data is evaluated as 2%.

Coefficient of variation (CV) for the areas of agricultural crops in 2013

	Coefficient of variation
Cereals	0.99
Dried pulses	3.84
Root crops	2.05
Oilseeds	0.55
Other industrial crops	18.88
Plants harvested green	2.26
Total vegetables	5.73
Vegetables	5.71
Total permanent crops	8.83

Coefficient of variation (CV) for use of fertilizers in 2013

	Coefficient of variation
Organic fertilizers	3.56
Mineral fertilizers	1.09
N	1.07
K_2O_2	1.36
P_2O_2	1.56

Coefficient of variation (CV) for the number of livestock* in 2013

	Coefficient of variation
Number of pigs	0.57

* For other categories of livestock CSB use the administrative data source - Animal Register

Uncertainty (%) given by gas company «Latvijas Gāze» for activity and emission data

Pielikums
A/s «Latvijas Gāze»
24.09.2015. vēst.
Nr. 03-51/3396

AKCIJU SABIEDRĪBA
LATVIJAS GĀZE
Unified Registration Nr. 40003000642
20 Vagonu Str., Riga

Dati par SEG gāzu emisiju vidē lielumiem — 2014.gads

Siltumnīcefekta gāzes noplūdes avots	Siltumnīcefekta gāze, Gg (m^3)							Neprecizitāte, (plus, mīnus)%
	CH_4	CO_2	N_2O	NMGOS	NOx	CO	SO_2	
1. Uzglabāšana (storage)	0.1997	0.000508		0.071165				10%
	285326	256		6869				
2. Pārvade (transmission)	0.8400	0.002136		0.299339				10%
	1200152	1079		28892				
3. Sadales tīkli (distribution)	0.4876	0.00124		0.173744				10%
	696597	626		16770				
4. Citas izplūdes								
4.1. Rūpniecības uzņēmumos un spēkstacijās	*xxx*	*xxx*		*xxx*				—
4.2. Mājsaimniecības un tirdzniecības sektoros (Other (commercial, institutional))	*3.8852*	*0.009878*		*1.384327*				*35%*
	5550235	4989		133613				
KOPĀ:	5.4125	0.013762		1.928575				
	7732310	6950		186144				

A/s «Latvijas Gāze»
Ekspluatācijas un tehniskā departamenta
Ekspluatācijas un tehniskās daļas
vadošais inženieris energētikā
IVARS RĒPELIS
I. Rēpelis
23.09.2015.

Uncertainty (%) given by ETS enterprises (Cement company CEMEX) for activity and emission data

IV. Emisiju noteikšana

Emisijas apjoma noteikšanas metodoloģija

Uncertainty

Nr.p.k.	darbības veids	lietotā metodoloģija	nenoteiktība	līmeņu maiņa
1.	2.	3.	4.	5.
1.	**3. Minerālu izstrādājumu ražošana:** 1)iekārtas cementa klinkera ražošanai rotācijas krāsnīs, kuru jauda pārsniedz 500 tonnas produkcijas dienā	Aprēķina	< ± 2.5 %	Nē
2.	**1. Enerģētika:** 1)sadedzināšanas iekārtas, kuru nominālā ievadītā siltuma jauda pārsniedz 20 MW	Aprēķina	< ± 2.5 %	Nē
3.	**1. Enerģētika:** 1)sadedzināšanas iekārtas, kuru nominālā ievadītā siltuma jauda pārsniedz 20 MW	Aprēķina	< ± 2.5 %	Nē
4.	**1. Enerģētika:** 1)sadedzināšanas iekārtas, kuru nominālā ievadītā siltuma jauda pārsniedz 20 MW	Aprēķina	< ± 2.5 %	Nē

Documentation

- Information regarding uncertainties are reported in NIR under relevant subchapters as well as used in Uncertainty analysis file;

- Official letters received from companies confirming their activity data uncertainty are stored on common, password protected FTP folder;

- Question for discussion – how to document judgment of uncertainty made by experts?

Thank you for your attention!

Vita Ratniece
Senior Specialist
Air and Climate Division
State Ltd. Latvian Environment, Geology and Meteorology Centre
Maskavas street 165, Riga, LV-1019
Ph.: + 371 67032026, **mob.ph.:** +371 26036331
E-mail: vita.ratniece@lvgmc.lv
www.meteo.lv