

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				
Organic fertilizers	3.56				
Mineral fertilizers	1.09				
N	1.07				
K ₂ O ₂	1.36				
P ₂ O ₂	1.56				

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

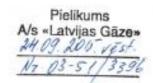
	Coefficient of variation
Number of pigs	0.57

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

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

gas company «Latvijas Gāze» for activity are grants







NEDENGE PROBLEM		Dati par Si	EG găzu emi:	siju vidē	lielumiem				2014.gads
Siltumnīcefekta gāzes noplūdes avots		Siltumnīcefekta gāze, Gg (m³)					Neprecizităte,		
		CH ₄	CO2	N ₂ O	NMGOS	NOx	co	SO ₂	(plus, minus)%
1. Uzglabāšana storage	0.1997	0.000508		0.071165				10%	
	Storage	285326	256		6869				
^{2. Pārvade} transmission	0.8400	0.002136		0.299339				109	
	113111331011	1200152	1079		28892				
3. Sadales tikli distribution	0.4876	0.00124		0.173744				109	
	aletribation	696597	626		16770				
 Citas izplūdes 					-				
4.1. Rüpniecības	uzņēmumos un spēkstacijās	XXX	xxx		xxx				-
4.2. Mājsaimnieci	ības un tirdzniecības sektoros	3.8852	0.009878		1.384327				35%
Other		5550235	4989		133613				1000
Other	KOPĀ:	5.4125	0.013762		1.928575				
(commerc	cial institutional)	7732310	6950		186144				

A/s «Latvijas Gūze» Eksplustācijas un tetniekā departamenta Eksplustācijas un totniekās daļas vadotats submirms energitikas un appliekas piempa ie

23.09 2015.

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ETS enterprises (Cement company eea grants CEMEX) for activity and emission data



IV. Emisiju noteikšana

Emisijas apjoma noteikšanas metodoloģija

Uncertainty

Nr.p.k.	darbības veids	lietotā metodoloģija	nenoteiktība	līmeņu maina
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.	Enerģētika: I)sadedzināšanas iekārtas, kuru nominālā ievadītā siltuma jauda pārsniedz 20 MW	Aprēķina	<± 2.5 %	Nē
3.	Enerģētika: 1)sadedzināšanas iekārtas, kuru nominālā ievadītā siltuma jauda pārsniedz 20 MW	Aprēķina	<± 2.5 %	Nē
4.	Enerģētika: 1)sadedzināšanas iekārtas, kuru nominālā ievadītā siltuma jauda pārsniedz 20 MW	Aprēķina	<± 2.5 %	Nē





- 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!

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