United Nations
Climate Change Secretariat

Nations Unies
Secrétariat sur les changements climatiques

Webinar on Uncertainty Levels associated with Input Data used in National Greenhouse Gas Inventories from developing countries

25–29 October 2021

Agenda – all times in the agenda are Bonn time

Monday 25 October 2021: 15:00 – 17:00	– **Session 1: Opening Session** – Opening Remarks by UNFCCC Secretariat – objectives, expectations, agenda (5 min) – Enhanced Transparency Framework of Paris Agreement – Introduction to Some Key Aspects on Uncertainty Analysis (5 min) – **Session 2: Overview of Uncertainty Analysis in National GHG Inventories (30 min)** *Brief review of concepts, terminology, information required, and approaches used in uncertainty analysis in national GHG inventories.* – **Session 3: Causes of uncertainties associated with input data used in National GHG Inventories (40 min incl. Q&A)** *Typical causes of uncertainty associated with activity data, emission factors and parameters used in the Energy, IPPU, AFOLU and Waste sectors will be explained.* – **Session 4: How to reduce the uncertainty associated with input data used in National GHG Inventories (40 min incl. Q&A)** *Good practices in accordance with the 2006 IPCC Guidelines to reduce the uncertainty in the input data of national GHG inventories will be presented.* – Questions and answers
Tuesday 26 October 2021: 15:00 – 17:00	– **Session 5: Uncertainty associated with the use of national statistics, surveys/censuses and sampling (120 min incl. Q&A)** *This section will analyze how the use of data from national statistics, surveys/censuses and sampling can introduce uncertainty and how this uncertainty can be quantified.* *Hands-on exercises on how to quantify the uncertainty associated with the use of data from national statistics, surveys/censuses and sampling in the Energy, IPPU, AFOLU and Waste sectors* – Questions and answers
Wednesday 27 October 2021: 15:00 – 17:00	– **Session 6: Uncertainty associated with the Use of Empirical Data (120 min incl. Q&A)** *This section will analyze how the use of empirical time-series data can introduce uncertainty in the national GHG inventories and how this uncertainty can be quantified.* *Hands-on exercises will be conducted to illustrate how to quantify the uncertainty associated with empirical data incl. measured data, published references in Energy, IPPU, AFOLU and Waste.* – Questions and answers

Thursday 28 October 2021: 15:00 – 17:00	– **Session 7: Uncertainty associated with the use of proxy, splicing techniques and expert judgment to fill data gaps (120 min incl. Q&A)** *This section will analyze how the use of proxy, splicing techniques and expert judgment can introduce uncertainty and how this uncertainty can be quantified. Different splicing techniques and uncertainty associated as well as the use of encoding techniques and results will be discussed.* *Hands-on exercises on quantifying uncertainty associated with data derived from the use of proxy, splicing techniques to fill data gaps and expert judgment (incl. use of encoding techniques, elicitation protocols, objectivity and subjectivity) in the Energy, IPPU, AFOLU and Waste sectors* – Questions and answers

Friday 29 October 2021: 15:00 – 17:00	– **Session 8: Selecting Probability Density Functions (PDF) and addressing correlation (120 min incl. Q&A)**
	
	This section will focus on the PDF, types of PDF, characteristics, applicability and recommendations for selecting PDF of input data to conduct uncertainty analysis. It will also address correlation and how it can affect the uncertainty.
	
	Hands-on exercises on deriving PDF from several data sources, including measured data, published references, sampling and expert judgement and addressing correlation. Examples for each sector will be presented and discussed (Energy, IPPU, AFOLU and Waste).
	
	– Questions and answers
	
	– **Session 9: Closing session**
	    o Lessons learnt from the webinar, next steps, closing remarks – UNFCCC Secretariat
	    o End of webinar