

TRAINING PROGRAM FOR NATIONAL EXPERTS INVOLVED IN THE DEVELOPMENT OF GHG INVENTORY – ENERGY SECTOR

Time	Theme presentations	The content of the presentation and discussion
Day 1 - 23.11.2015		
9.15-9.30	1. Introduction	1. Background and training course objectives
9.30-10.00	2. Reporting requirements for non-Annex 1 countries related to Energy sector	2.1 Decision 17/CP.8 "Guidelines for the preparation of national communications from Parties not included in Annex I to the Convention" and Decision 2/CP.17 Annex III "UNFCCC biennial update reporting guidelines for Parties not included in Annex I to the Convention" 2.2 The Revised 1996 IPCC Guidelines and the IPCC 2006 Guidelines – main differences for energy sector 2.3 GHG inventory software
10.00-11.00	3. Energy sector overview	3.1 Main activities considered in Energy sector
<i>11.00-11.20 Coffee-break</i>		
11.20-13.00	3. Energy sector overview - <i>continuation</i>	3.2 Fuel types 3.3 Sub-sectors and categories 3.4 CO2 emissions
<i>13.00-14.00 Lunch break</i>		
14.00-15.00	4. The IPCC methodology to estimate greenhouse gas emissions from the energy sector – <i>Stationary combustion</i>	4.1 Decision tree for estimating emissions from stationary combustion, Methodological tiers, Hybrid approaches and verification. 4.2 Activity data sources; avoiding double counting and underestimation activity data with other sectors, fuel mass balance 4.3 Specific issues concerning sub-categories activity data, autoproducers of electricity.
15.00-15.30		Exercise 1. – Use of decision tree Exercise 2. – Choice of activity data, check of completeness and time series consistency.
<i>15.00-15.20 Coffee-break</i>		
15.30-16.30	Stationary combustion - <i>continuation</i>	4.4 Emission factors, country specific emission calculation parameters 4.5 Biomass combustion 4.6 Waste combustion 4.7 Non-energy use of lubricants (difference in the Revised 1996 IPCC Guidelines and the IPCC 2006 Guidelines)
16.30-17.00	Questions and discussion	

Day 2 - 24.11.2015		
9.00-11.00.	5. The IPCC methodology to estimate greenhouse gas emissions from the energy sector – <i>Mobile combustion</i>	5.1 Road transport (choice of method, choice of activity data, choice of emission coefficient, completeness, development a consistence time series, QA/QC, calculation worksheets, reporting and documentation) 5.2 Off-road transport – agricultural and military (choice of method, choice of activity data, choice of emission coefficient, completeness, development a consistence time series, QA/QC, calculation worksheets, reporting and documentation) 5.3 Railway (choice of method, choice of activity data, choice of emission coefficient, completeness, development a consistence time series, QA/QC, calculation worksheets, reporting and documentation) 5.4 Water navigation (choice of method, choice of activity data, choice of emission coefficient, completeness, development a consistence time series, QA/QC, calculation worksheets, reporting and documentation)
<i>11.00-11.20 Coffee-break</i>		
11.20-12.20	Mobile combustion – <i>continuation</i>	5.5 Civil aviation (choice of method, choice of activity data, choice of emission coefficient, completeness, development a consistence time series, QA/QC, calculation worksheets, reporting and documentation) 5.6 Some specific issues concerning military aviation
12.20-13.00		Exercise 3 Exercise 4
<i>13.00-14.00 Lunch</i>		
14.00-14.30	6. The IPCC methodology to estimate greenhouse gas emissions from the energy sector – <i>Fugitive emissions – Oil and gas system</i>	6.1 Difference in the Revised 1996 IPCC Guidelines and the IPCC 2006 Guidelines 6.2 Choice of method (decision tree, tiers) 6.3 Choice of activity data, choice of emission coefficient 6.4 Tier 3 for gas transportation system – verification, development a consistence time series, QA/QC, reporting and documentation
14.30-15.00	7. The IPCC methodology to estimate greenhouse gas emissions from the energy sector – <i>Reference approach</i>	7.1 Overview, source categories coverage 7.2 Calculation algorithm 7.3 Activity data, data sources, international bunker fuel, geographical coverage 7.4 Excluded carbon (difference in the Revised 1996 IPCC Guidelines and the IPCC 2006 Guidelines) 7.5 Carbon unoxidized 7.6 Comparison between reference and sectoral approaches
<i>15.00-15.20 Coffee-break</i>		
15.20-15.40		Exercise 5 – Non-energy use of fuel (difference in the Revised 1996 IPCC Guidelines and the IPCC 2006 Guidelines) Exercise 6 - Comparison between reference and sectoral approaches
15.40-16.10	8. Time series consistency	8.1 Ensuring time series consistency 8.2 Resolving data gaps 8.3 Selecting the most appropriate splicing technique
16.10-16.30		Exercise 7 – Splicing technique
16.30-16.50	9. The quality assurance	9.1 Work with sectoral experts to ensure the quality of inventory by sub-categories (calculation worksheets)
16.50-17.15	Questions and discussion	