ANNEX 1

WORKSHEETS

Contents

Annex 1	Worksheets	A1.3
1.1	Introduction	A1.3
1.A	Fuel Combustion Activities	A1.3
1.B.1	Solid Fuels	A1.3
1.B	.1.a.i Solid Fuels - Coal Mining and Handling - Underground Mines	A1.3
1.B	.1.a.ii Solid Fuels - Coal Mining and Handling - Surface Mines	A1.3
1.B	.1.a.iii Solid Fuels - Coal Mining and Handling - Exploration (New)	A1.4
1.B	.1.c Fuel Transformation (New)	A1.5
1.B.2	Oil and Natural Gas (Updated)	A1.6
Refere	ence Approach	A1.8
Auxili	iary Worksheet (Reference Approach)	A1.8

ANNEX 1 WORKSHEETS

1.1 INTRODUCTION

No refinement.

1.A FUEL COMBUSTION ACTIVITIES

No refinement.

1.B.1 SOLID FUELS

1.B.1.a.i Solid Fuels - Coal Mining and Handling -

Underground Mines

No refinement.

1.B.1.a.ii Solid Fuels - Coal Mining and Handling - Surface

Mines

No refinement.

1.B.1.a.iii Solid Fuels - Coal Mining and Handling - Exploration (New)

Sector	Energy							
Category	Solid Fuels - Coal Mining and Handling - Exploration							
Category Code	1.B.1.a.iii	1.B.1.a.iii						
Sheet	1 of 1 (CH₄ emi	1 of 1 (CH ₄ emissions from coal exploration activities)						
		CH ₄ Emission	ons					
	Α	В	С	D	E			
	Amount of Coal Augmentation	Emission Factor	Methane Emissions	Conversion Factor	Methane Emissions			
	(tonne)	(m³ tonne ⁻¹)	(m³) C = A*B	(Gg CH ₄ m ⁻³)	(Gg CH₄) E=C*D			
Coal exploration (1.B.1.a.iii)				0.67x10 ⁻⁶				

1.B.1.c Fuel Transformation (New)

	Sector	Energy							
	Category	Fuel Transformation							
Category Code 1.B.1.c									
	Sheet	1 of 1 (Methan	e and nitrous	oxide emissions fror	n fuel transformation)			
				С	H ₄	N₂O			
IPCC	Sector Name	Subcategory	Α	В	С	D	Е		
Code			Activity	Emission	Emissions	Emission	Emissions		
			Data	Factor	(Gg)	Factor	(Gg)		
					C=A*B		E=A*D		
1B1ci	Charcoal and Biochar Production								
1B1cii	Coke Production								
1B1ciii	Solid to Solid Fuel Production								
1B1civ	Gasification Transformation								
				TOTAL		TOTAL			

1.B.2 OIL AND NATURAL GAS (UPDATED)

The following worksheet for the Tier 1 approach should be filled in for each source category and subcategory.

The potential subcategories are indicated in Tables 4.2.2 and 4.2.4 to 4.2.4k of the Chapter 4: Fugitive Emissions.

	Sector	Energy							
	Category	Oil and natura	al gas						
	Category Code	1.B.2							
	Sheet	1 of 2 (Oil and	l Natural Gas)						
			CO ₂		CH ₄		N ₂ O		
IPCC	Sector Name	Subcategory	Α	В	С	D	E	F	G
Code			Activity	Emission	Emissions	Emission	Emissions	Emission	Emissions
			Data	Factor	(Gg)	Factor	(Gg)	Factor	(Gg)
					C=A*B		E=A*D		G=A*F
1.B.2	Oil and Natural Gas								
1.B.2.a	Oil								
1.B.2.a.i	Exploration								
1.B.2.a.ii	Production and Upgrading								
1.B.2.a.iii	Transport								
1.B.2.a.iv	Refining								
1.B.2.a.v	Distribution of Oil Products								
1.B.2.a.vi	Other								
1.B.2.a.vii	Abandoned Oil Wells								
				TOTAL		TOTAL		TOTAL	

Sector		Energy							
Category		Oil and natural gas							
Category Code		1.B.2							
	Sheet	2 of 2 (Oil and Natural Gas)							
				CO ₂		CH ₄		N ₂ O	
IPCC	Sector Name	Subcategory	Α	В	С	D	Е	F	G
Code			Activity	Emission	Emissions	Emission	Emissions	Emission	Emissions
			Data	Factor	(Gg)	Factor	(Gg)	Factor	(Gg)
					C=A*B		E=A*D		G=A*F
1.B.2.b	Natural Gas								
1.B.2.b.i	Exploration								
1.B.2.b.ii	Production and Gathering								
1.B.2.b.iii	Processing								
1.B.2.b.iv	Transmission and Storage								
1.B.2.b.v	Distribution								
1.B.2.b.vi	Gas Post-Meter								
1.B.2.b.vii	Other								
1.B.2.b.viii	Abandoned Gas Wells								
				TOTAL		TOTAL		TOTAL	
1.B.3	Other emissions from Energy Production								

REFERENCE APPROACH

No refinement.

AUXILIARY WORKSHEET (REFERENCE APPROACH)

No refinement.