

# Sectoral features of GHG inventories from non-Annex I Parties

Manila, Philippines, 23-24 February 2006

Dominique Revet  
FTS programme  
UNFCCC secretariat  
(DRevet@unfccc.int)



UNITED NATIONS FRAMEWORK CONVENTION ON CLIMATE CHANGE

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## The 6<sup>th</sup> Compilation & Synthesis (C&S)

### Introduction

- FCCC/SBI/2005/18 and Add.1-6
- **122** submitted NAI national communications (out of 148), i.e. **82%**
- 83% of the Africa region, **77% of the Asia-Pacific region**, 94% of the Latin America and the Caribbean region, and 70% of the “Other” region.



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# Reporting

- Methodological issues
  - Activity data
  - Emission factors.
  - Reporting tables
- 
- The case of 12 countries involved in the 3<sup>rd</sup> WGIA



# Overview of GHG data submitted

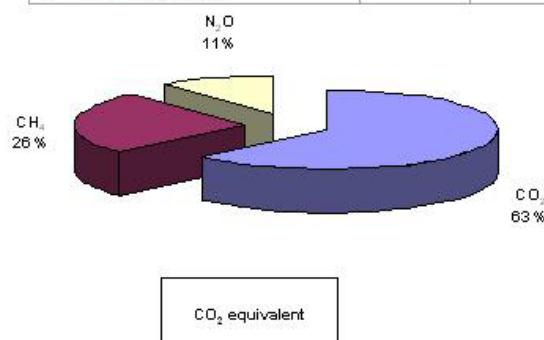
## General overview

- Decision 10/CP.2
- 1994 or closest year reported
- When needed, estimates provided by Parties have been converted into CO<sub>2</sub> equivalent, using 1995 IPCC GWPs, in order to facilitate comparison of results
- On-line database: <http://ghg.unfccc.int/tables/queries.html>
- "Key GHG Data - 2005":  
[http://unfccc.int/essential\\_background/background\\_publications\\_htmlpdf/items/2625.php](http://unfccc.int/essential_background/background_publications_htmlpdf/items/2625.php)



## Total GHG emissions from 122 NAI Parties, excluding LUCF (1994 or closest year)

	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O
Total (Gg)	7 402 705	144 028	4 220
Total (Gg CO <sub>2</sub> equivalent): (i.e. 11.7 billion tonnes)	7 402 705	3 024 590	1 308 142



## Aggregate emissions and removals of CO<sub>2</sub>, CH<sub>4</sub> and N<sub>2</sub>O in CO<sub>2</sub> equivalent by major source/sink category, including and excluding land-use change and forestry (Gg and percentages of total by Party)

Party	Year	Energy		Industrial processes		Agriculture		Waste		Total (without LUCF)	LUCF	Total (with LUCF)	Percentage of LUCF in total GHG
		Gg	%	Gg	%	Gg	%	Gg	%				
<b>ASIA AND THE PACIFIC</b>													
<b>Cambodia</b>	1994	1881.11	147	4985	0.4	10580.05	82.7	272.37	2.1	12762.38	-17907.69	5 415.31	40.3
<b>China</b>	1994	3 007 780.00	741	282 630.00	7.0	604 776.00	14.9	162 120.00	4.0	4 057 306.00	-407 479.00	3 649 827.00	10.0
<b>India</b>	1994	743 820.00	613	102 710.00	8.5	344 485.00	28.4	23 230.00	1.9	1 214 245.00	44 292.14	1 285 501.14	12
<b>Indonesia</b>	1994	222 102.37	687	8 212.92	2.5	84 506.61	26.1	8 440.32	2.6	323 262.22	164 118.32	487 380.54	50.8
<b>Lao People's Democratic Republic</b>	1990	929.85	135	-	-	5 686.67	83.0	240.03	3.5	6 866.55	-104 303.83	97 437.28	15.00
<b>Malaysia</b>	1994	97 861.23	718	4 973.00	3.6	6 932.04	5.1	26 596.50	19.5	106 362.77	-61 077.96	75 284.81	44.8
<b>Mongolia</b>	1994	9 791.30	646	95.00	0.6	5 184.90	34.2	88.20	0.6	15 139.40	4000.00	15 539.40	2.6
<b>Philippines</b>	1994	50 040.33	496	10 602.93	10.5	33 128.57	32.8	7 094.78	7.0	100 866.61	-126.49	100 740.12	0.1
<b>Republic of Korea</b>	1990	283 586.00	859	17 617.00	6.1	2 888.00	4.5	10 406.00	3.6	289 498.00	-26 236.00	263 230.00	9.1
<b>Singapore</b>	1994	26 647.92	992	-	-	-	-	211.16	0.8	26 859.08	-	26 859.08	-
<b>Thailand</b>	1994	129 857.05	580	15 976.91	7.1	77 383.30	34.6	730.62	0.3	223 977.48	61 853.82	285 831.30	27.6
<b>Viet Nam</b>	1994	25 632.09	304	3 807.19	4.5	52 444.90	62.1	2 565.02	3.0	84 449.00	19 384.78	103 834.58	23.0
<b>Total Asia and the Pacific</b>		5 657 176.98	718	509 466.78	6.4	1 467 163.21	18.5	235 882.72	3.7	7 929 688.69	333 819.12	7 644 071.57	-4.0
<b>Total 122 non-Annex Parties</b>		7 501 488.05	639	708 503.83	6.0	3 038 040.59	25.8	487 744.42	4.2	11 735 466.90	185 058.95	11 931 495.85	1.7



## Total aggregate emissions and removals of CO<sub>2</sub>, CH<sub>4</sub> and N<sub>2</sub>O in CO<sub>2</sub> equivalent excluding and including land-use change and forestry (Gg)

Party	Total (without LUCF)	Total (with LUCF)
<b>ASIA AND THE PACIFIC</b>		
Cambodia	12 762.38	-5 145.31
China	4 057 306.00	3 649 827.00
India	1 214 248.00	1 228 540.14
Indonesia	323 262.22	487 380.54
Lao People's Democratic Republic	6 866.55	-97 437.28
Malaysia	136 362.77	75 284.81
Mongolia	15 159.40	15 559.40
Philippines	100 866.61	100 740.12
Republic of Korea	289 458.00	263 223.00
Singapore	26 859.08	26 859.08
Thailand	223 977.48	285 831.30
Viet Nam	84 449.80	103 834.58
<b>Total Asia and the Pacific</b>	<b>7 929 689.69</b>	<b>7 614 071.57</b>
<b>Total 122 non-Annex I Parties</b>	<b>11 735 436.90</b>	<b>11 931 495.85</b>

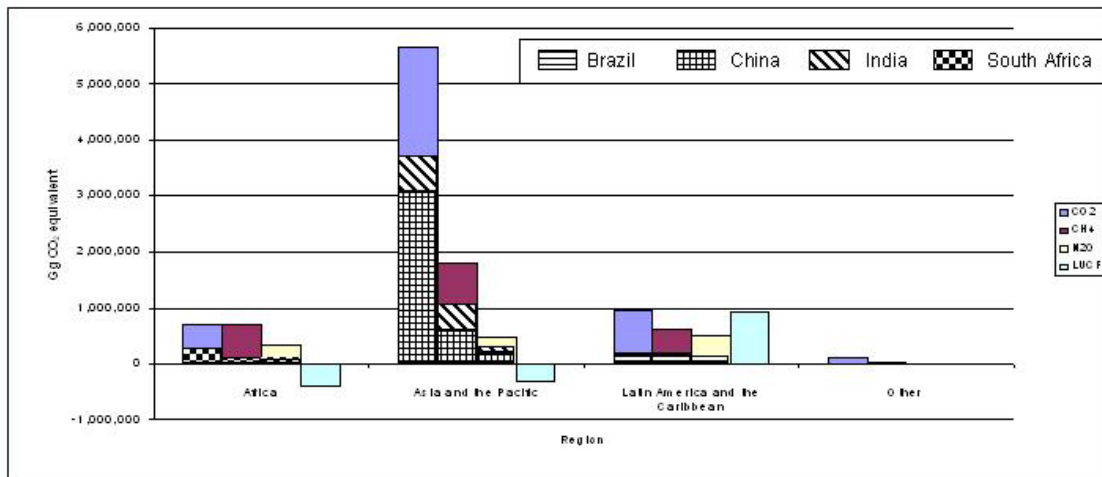


## Emissions (excluding LUCF) for three gases

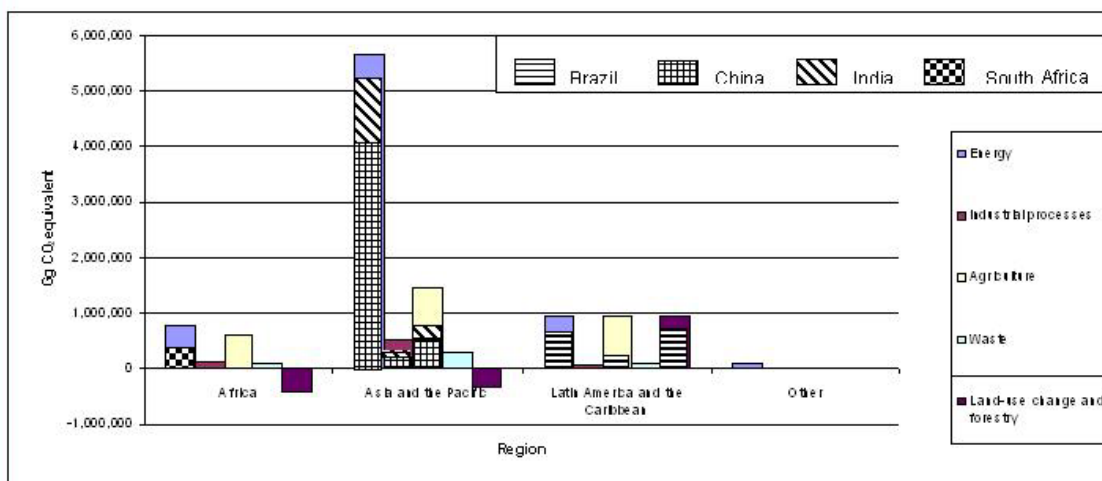
Party	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O
	Gg		
<b>ASIA AND THE PACIFIC</b>			
Cambodia	1 321.93	370.15	11.83
China	3 073 469.00	34 287.00	851.00
India	779 348.00	18 076.00	178.40
Indonesia	178 215.42	6 041.96	58.60
Lao People's Democratic Republic	414.90	305.45	0.12
Malaysia	89 388.00	2 230.93	0.40
Mongolia	9 479.40	289.00	0.10
Philippines	57 932.00	1 377.71	45.17
Republic of Korea	256 514.00	1 361.80	14.02
Singapore	26 800.18	-	0.19
Thailand	141 453.20	3 111.18	55.45
Viet Nam	25 382.79	2 328.29	32.82
<b>Total Asia and the Pacific</b>	<b>5 661 993.80</b>	<b>85 242.75</b>	<b>1 540.64</b>
<b>Total 122 non-Annex I Parties</b>	<b>7 402 705.22</b>	<b>144 028.08</b>	<b>4 219.81</b>



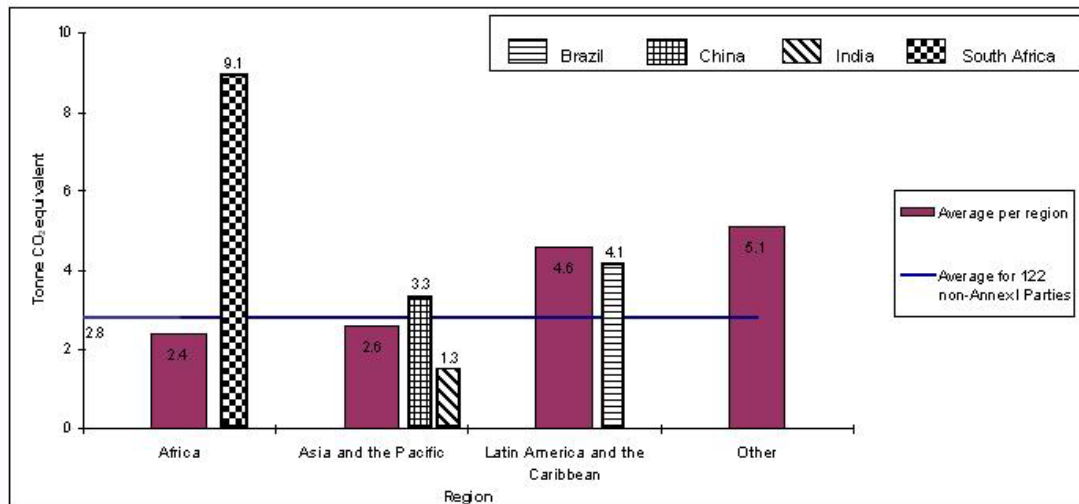
## Aggregate GHG emissions and removals by gas by region (Gg CO<sub>2</sub> equivalent) for the year 1994 or the closest year reported



## Aggregate GHG emissions and removals by sector by region (Gg CO<sub>2</sub> equivalent) for the year 1994 or the closest year reported



## Per capita GHG emissions (tonnes CO<sub>2</sub> equivalent (excluding LUCF)) for the year 1994 or the closest year reported



## Conclusion

- New guidelines for national communications (decision 17/CP.8) <http://unfccc.int/resource/docs/cop8/07a02.pdf#page=2>
- The UNFCCC “User Manual” explaining the new guidelines for national communications [http://unfccc.int/files/essential\\_background/application/pdf/userman\\_nc.pdf](http://unfccc.int/files/essential_background/application/pdf/userman_nc.pdf)
- The CGE hands-on training material on GHG inventories [http://unfccc.int/resource/cd\\_roms/na1/ghg\\_inventories/index.htm](http://unfccc.int/resource/cd_roms/na1/ghg_inventories/index.htm)
- The UNFCCC software for national GHG inventories [http://unfccc.int/resource/cd\\_roms/na1/ghg\\_inventories/index.htm](http://unfccc.int/resource/cd_roms/na1/ghg_inventories/index.htm)
- The CGE report to be presented at SBI 24