

**INVENTAIRE NATIONAL DES EMISSIONS
DE GAZ A EFFET DE SERRE**

Volume 2

Feuilles de calcul

ANNEXE 1

ENERGIE

| MODULE | | | ENERGY | | | | | |
|----------------------|-------------------|---------------------------|--|----------|----------|-----------------------|--------------|----------------------|
| SUBMODULE | | | CO ₂ FROM ENERGY SOURCES (REFERENCE APPROACH) | | | | | |
| WORKSHEET | | | 1-1 | | | | | |
| SHEETS | | | 1 OF 5 | | | | | |
| COUNTRY | | | ALGERIA | | | | | |
| YEAR | | | 1994 | | | | | |
| | | | STEP 1 | | | | | |
| | | | A | B | C | D | E | F |
| FUEL TYPES | | | Production | Imports | Exports | International Bunkers | Stock Change | Apparent Consumption |
| | | | | | | | | F=(A+B-C-D-E) |
| Liquid Fossil | Primary Fuels | Crude Oil | 35455 | 319 | 15469 | | 0 | 20 305,00 |
| | | LPG (wells) | 4034,746 | | 3480,508 | | 1 | 553,24 |
| | | Natural Gas Liquids | 16007 | 0 | 15690 | | 0 | 317,00 |
| | Secondary Fuels | Gasoline | | 0 | 734 | 0 | -3 | -731,00 |
| | | Jet Kerosene | | 0 | 864 | 0 | -4 | -860,00 |
| | | Other Kerosene | | 0 | 0 | 0 | 0 | 0,00 |
| | | Shale Oil | | | | | | 0,00 |
| | | Gas / Diesel Oil | | 0 | 3533 | 100 | 44 | -3 677,00 |
| | | Residual Fuel Oil | | 0 | 5060 | 257 | -54 | -5 263,00 |
| | | LPG | | 0 | | | | 0,00 |
| | | Ethane | | 0 | 0 | | 0 | 0,00 |
| | | Naphtha | | 0 | 3009 | | 0 | -3 009,00 |
| | | Bitumen | | 0 | 0 | | -2 | 2,00 |
| | | Lubricants | | 3 | 0 | 1 | -29 | 31,00 |
| | | Petroleum Coke | | | | | | 0,00 |
| | | Refinery Feedstocks | | | | | | 0,00 |
| Other Oil | | 4 | 0 | | 0 | 4,00 | | |
| Liquid Fossil Totals | | | | | | | | |
| Solid Fossil | Primary Fuels | Anthracite ^(a) | | | | | 0,00 | |
| | | Coking Coal | 0 | 761 | 7 | | -82 | 836,00 |
| | | Other Bit. Coal | | | | | | 0,00 |
| | | Sub-bit. Coal | | | | | | 0,00 |
| | | Lignite | | | | | | 0,00 |
| | | Oil Shale | | | | | | 0,00 |
| | | Peat | | | | | | 0,00 |
| | Secondary Fuels | BKB & Patent Fuel | | | | | | 0,00 |
| | | Coke Oven/Gas Coke | | 0 | 0 | | 0 | 0,00 |
| Solid Fuel Totals | | | | | | | | |
| Gaseous Fossil | Natural Gas (Dry) | 49191,2868 | 0 | 32126,59 | | 0 | 17 064,70 | |
| Total | | | | | | | | |
| Biomass total | | | | | | | | |
| | Solid Biomass | 54 | | | | | 54,00 | |
| | Liquid Biomass | | | | | | 0,00 | |
| | Gas Biomass | | | | | | 0,00 | |

| MODULE | | ENERGY | | | | | |
|----------------------|-------------------|--|--------------------------------------|---|---------------------------------|-------------------------------|-----------|
| SUBMODULE | | CO ₂ FROM ENERGY SOURCES (REFERENCE APPROACH) | | | | | |
| WORKSHEET | | 1-1 | | | | | |
| SHEETS | | 2 OF 5 | | | | | |
| COUNTRY | | ALGERIA | | | | | |
| YEAR | | 1994 | | | | | |
| | | STEP 2 | | STEP 3 | | | |
| | | G ^(b) Conversion Factor (TJ/Unit) | H Apparent Consumption (TJ) | I Carbon Emission Factor (t C/TJ) | J Carbon Content (t C) | K Carbon Content (Gg C) | |
| FUEL TYPES | | | | | H=(F×G) | | |
| Liquid Fossil | Primary Fuels | Crude Oil | 43,29 | 879 003,45 | 20 | 17 580 069,00 | 17 580,07 |
| | | LPG (wells) | 47,31 | 26 173,69 | 17,2 | 450 187,46 | 450,19 |
| | | Natural Gas Liquids | 43,29 | 13 722,93 | 17,2 | 236 034,40 | 236,03 |
| | Secondary Fuels | Gasoline | 44,8 | -32 748,80 | 18,9 | -618 952,32 | -618,95 |
| | | Jet Kerosene | 44,59 | -38 347,40 | 19,5 | -747 774,30 | -747,77 |
| | | Other Kerosene | | 0,00 | | 0,00 | 0,00 |
| | | Shale Oil | | 0,00 | | 0,00 | 0,00 |
| | | Gas / Diesel Oil | 43,33 | -159 324,41 | 20,2 | -3 218 353,08 | -3 218,35 |
| | | Residual Fuel Oil | 40,19 | -211 519,97 | 21,1 | -4 463 071,37 | -4 463,07 |
| | | LPG | | 0,00 | | 0,00 | 0,00 |
| | | Ethane | | 0,00 | | 0,00 | 0,00 |
| | | Naphtha | 45,01 | -135 435,09 | 20 | -2 708 701,80 | -2 708,70 |
| | | Bitumen | 40,19 | 80,38 | 22 | 1 768,36 | 1,77 |
| | | Lubricants | 40,19 | 1 245,89 | 20 | 24 917,80 | 24,92 |
| | | Petroleum Coke | | 0,00 | | 0,00 | 0,00 |
| | | Refinery Feedstocks | | 0,00 | | 0,00 | 0,00 |
| Other Oil | 40,19 | 160,76 | 20 | 3 215,20 | 3,22 | | |
| Liquid Fossil Totals | | | | 343 011,43 | | 6 539 339,35 | |
| Solid Fossil | Primary Fuels | Anthracite ^(a) | | 0,00 | | 0,00 | 0,00 |
| | | Coking Coal | 25,75 | 21 527,00 | 25,8 | 555 396,60 | 555,40 |
| | | Other Bit. Coal | | 0,00 | | 0,00 | 0,00 |
| | | Sub-bit. Coal | | 0,00 | | 0,00 | 0,00 |
| | | Lignite | | 0,00 | | 0,00 | 0,00 |
| | | Oil Shale | | 0,00 | | 0,00 | 0,00 |
| | | Peat | | 0,00 | | 0,00 | 0,00 |
| | Secondary Fuels | BKB & Patent Fuel | | 0,00 | | 0,00 | 0,00 |
| | | Coke Oven/Gas Coke | 27,21 | 0,00 | | 0,00 | 0,00 |
| Solid Fuel Totals | | | | 21 527,00 | | 555 396,60 | |
| Gaseous Fossil | Natural Gas (Dry) | 49191,2868 | 39,17 | 668 424,17 | 15,3 | 10 226 889,86 | |
| Total | | | 1 032 962,60 | | 17 321 625,81 | 17 321,63 | |
| Biomass total | | | 2 251,10 | | 0,00 | 0,00 | |
| | Solid Biomass | 41,687 | 2 251,10 | | 0,00 | 0,00 | |
| | Liquid Biomass | | 0,00 | | 0,00 | 0,00 | |
| | Gas Biomass | | 0,00 | | 0,00 | 0,00 | |

| MODULE | | | ENERGY | | | | | |
|----------------------|-----------------|---------------------------|--|-----------------------------------|-----------------------------------|--------------------------------------|--|------------|
| SUBMODULE | | | CO ₂ FROM ENERGY SOURCES (REFERENCE APPROACH) | | | | | |
| WORKSHEET | | | 1-1 | | | | | |
| SHEETS | | | 3 OF 5 | | | | | |
| COUNTRY | | | ALGERIA | | | | | |
| YEAR | | | 1994 | | | | | |
| | | | STEP 4 | | STEP 5 | | STEP 6 | |
| | | | L | M | N | O | P | |
| | | | Carbon Stored (Gg C) | Net Carbon Emissions (Gg C) | Fraction of Carbon Oxidised | Actual Carbon Emissions (Gg C) | Actual CO ₂ Emissions (Gg CO ₂) | |
| FUEL TYPES | | | | M=(K-L) | | O=(MxN) | P=(Ox[44/12]) | |
| Liquid Fossil | Primary Fuels | Crude Oil | | 17 580,07 | 0,99 | 17 404,27 | 63 815,65 | |
| | | LPG (wells) | | 450,19 | 0,99 | 445,69 | 1 634,18 | |
| | | Natural Gas Liquids | | 236,03 | 0,99 | 233,67 | 856,80 | |
| | Secondary Fuels | Gasoline | | | -618,95 | 0,99 | -612,76 | -2 246,80 |
| | | Jet Kerosene | | | -747,77 | 0,99 | -740,30 | -2 714,42 |
| | | Other Kerosene | | | 0,00 | | 0,00 | 0,00 |
| | | Shale Oil | | | 0,00 | | 0,00 | 0,00 |
| | | Gas / Diesel Oil | | 0,00 | -3 218,35 | 0,99 | -3 186,17 | -11 682,62 |
| | | Residual Fuel Oil | | | -4 463,07 | 0,99 | -4 418,44 | -16 200,95 |
| | | LPG | | 0,00 | 0,00 | 0,99 | 0,00 | 0,00 |
| | | Ethane | | 137,23 | -137,23 | | 0,00 | 0,00 |
| | | Naphtha | | 0,00 | -2 708,70 | 0,99 | -2 681,61 | -9 832,59 |
| | | Bitumen | | 221,93 | -220,16 | 0,99 | -217,96 | -799,18 |
| | | Lubricants | | 49,43 | -24,52 | 0,99 | -24,27 | -88,99 |
| | | Petroleum Coke | | | 0,00 | | 0,00 | 0,00 |
| Refinery Feedstocks | | | 0,00 | | 0,00 | 0,00 | | |
| Other Oil | | | 3,22 | 0,99 | 3,18 | 11,67 | | |
| Liquid Fossil Totals | | | | 408,59 | 6 130,75 | | 6 205,30 | |
| Solid Fossil | Primary Fuels | Anthracite ^(a) | | 0,00 | | 0,00 | 0,00 | |
| | | Coking Coal | 0,00 | 555,40 | 0,98 | 544,29 | 1 995,73 | |
| | | Other Bit. Coal | | 0,00 | | 0,00 | 0,00 | |
| | | Sub-bit. Coal | | 0,00 | | 0,00 | 0,00 | |
| | | Lignite | | 0,00 | | 0,00 | 0,00 | |
| | | Oil Shale | | 0,00 | | 0,00 | 0,00 | |
| | | Peat | | 0,00 | | 0,00 | 0,00 | |
| | Secondary Fuels | BKB & Patent Fuel | | | 0,00 | | 0,00 | 0,00 |
| | | Coke Oven/Gas Coke | | | 0,00 | | 0,00 | 0,00 |
| Solid Fuel Totals | | | | 0,00 | 555,40 | | 544,29 | |
| Gaseous Fossil | | Natural Gas (Dry) | 49191,2868 | 224,11 | 10 002,78 | 0,995 | 9 952,77 | |
| Total | | | 632,70 | 16 688,93 | | 16 702,35 | 61 241,96 | |
| Biomass total | | | 0,00 | 0,00 | | 0,00 | 0,00 | |
| | | Solid Biomass | | 0,00 | | 0,00 | 0,00 | |
| | | Liquid Biomass | | 0,00 | | 0,00 | 0,00 | |
| | | Gas Biomass | | 0,00 | | 0,00 | 0,00 | |

| MODULE | | ENERGY | | | | | |
|---------------|-----------------------|---|-----------------------------------|---------------------------------|---|----------------------------|-----------------------------|
| SUBMODULE | | CO ₂ FROM ENERGY SOURCES (REFERENCE APPROACH) | | | | | |
| WORKSHEET | | 1-1 | | | | | |
| SHEETS | | 4 OF 5 EMISSIONS FROM INTERNATIONAL BUNKERS (INTERNATIONAL MARINE AND AIR TRANSPORT) | | | | | |
| COUNTRY | | ALGERIA | | | | | |
| YEAR | | 1994 | | | | | |
| | | STEP 1 | STEP 2 | | STEP 3 | | |
| | | A | B | C | D | E | F |
| | | Quantities Delivered ^(a) | Conversion Factor (TJ/Unit) | Quantities Delivered (TJ) | D Carbon Emission Factor (t C/TJ) | Carbon Content (t C) | Carbon Content (Gg C) |
| FUEL TYPES | | | | C=(AxB) | | E=(Cx D) | F=(E/1000) |
| Solid Fossil | Other Bituminous Coal | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| | Sub-Bituminous Coal | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| Liquid Fossil | Gasoline | 0,00 | 44,80 | 0,00 | 18,90 | 0,00 | 0,00 |
| | Jet Kerosene | 0,00 | 44,59 | 0,00 | 19,50 | 0,00 | 0,00 |
| | Gas / Diesel Oil | 100,00 | 43,33 | 4 333,00 | 20,20 | 87 526,60 | 87,53 |
| | Residual Fuel Oil | 257,00 | 40,19 | 10 328,83 | 21,10 | 217 938,31 | 217,94 |
| | Lubricants | 1,00 | 40,19 | 40,19 | 20,00 | 803,80 | 0,80 |
| | | | Total | 14 702,02 | | | |

| MODULE | | ENERGY | | | | | |
|---------------|-----------------------|---|----------------------------|-----------------------------------|-----------------------------------|---|--|
| SUBMODULE | | CO ₂ FROM ENERGY SOURCES (REFERENCE APPROACH) | | | | | |
| WORKSHEET | | 1-1 | | | | | |
| SHEETS | | 4 OF 5 EMISSIONS FROM INTERNATIONAL BUNKERS (INTERNATIONAL MARINE AND AIR TRANSPORT) | | | | | |
| COUNTRY | | ALGERIA | | | | | |
| YEAR | | 1994 | | | | | |
| | | STEP 1 | STEP 2 | | STEP 3 | | |
| | | G | H | I | J | K | L |
| | | Fraction of Carbon Stored | Carbon Stored (Gg C) | Net Carbon Emissions (Gg C) | Fraction of Carbon Oxidised | Actual Carbon Emissions (Gg C) | Actual CO ₂ Emissions (Gg CO ₂) |
| FUEL TYPES | | | H=(FxG) | I=(F-H) | | K=(IxJ) | L=(Kx[44/12]) |
| Solid Fossil | Other Bituminous Coal | | 0,00 | 0,00 | | 0,00 | 0,00 |
| | Sub-Bituminous Coal | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Liquid Fossil | Gasoline | | 0,00 | 0,00 | | 0,00 | 0,00 |
| | Jet Kerosene | | 0,00 | 0,00 | | 0,00 | 0,00 |
| | Gas / Diesel Oil | 0,5 | 43,76 | 43,76 | 0,99 | 43,33 | 158,86 |
| | Residual Fuel Oil | 0,5 | 108,97 | 108,97 | 0,99 | 107,88 | 395,56 |
| | Lubricants | 0,5 | 0,40 | 0,40 | 0,99 | 0,40 | 1,46 |
| | | | | | | Total^(a) | 555,88 |

| | | | | | | | | |
|---------------------------------------|---|-----------------------------|--------------------------------|---------------------------------|----------------------|-----------------------|---------------------------|----------------------|
| MODULE | ENERGY | | | | | | | |
| SUBMODULE | CO₂ FROM ENERGY | | | | | | | |
| WORKSHEET | AUXILIARY WORKSHEET 1-1: ESTIMATING CARBON STORED IN PRODUCTS. | | | | | | | |
| SHEETS | 1 OF 1 | | | | | | | |
| COUNTRY | ALGERIA | | | | | | | |
| YEAR | 1994 | | | | | | | |
| | A | B | C | D | E | F | G | H |
| | Estimated Fuel Quantities | Conversion Factor (TJ/Unit) | Estimated Fuel Quantities (TJ) | Carbon Emission Factor (t C/TJ) | Carbon Content (t C) | Carbon Content (Gg C) | Fraction of Carbon Stored | Carbon Stored (Gg C) |
| FUEL TYPES | | | $C=(A \times B)$ | | $E=(C \times D)$ | $F=(E/1000)$ | | $H=(F \times G)$ |
| Naphtha ^(a) | 0 | 45,01 | 0,00 | | 0,00 | 0,00 | 0,8 | 0,00 |
| Lubricants | 123 | 40,19 | 4 943,37 | 20 | 98 867,40 | 98,87 | 0,5 | 49,43 |
| Bitumen | 251 | 40,19 | 10 087,69 | 22 | 221 929,18 | 221,93 | 1 | 221,93 |
| Coal Oils and Tars (from Coking Coal) | | | 0,00 | | 0,00 | 0,00 | 0,75 | 0,00 |
| Natural Gas ^(a) | 1140,63 | 39,17 | 44 678,48 | 15,2 | 679 112,85 | 679,11 | 0,33 | 224,11 |
| Gas/Diesel Oil ^(a) | | 43,33 | 0,00 | | 0,00 | 0,00 | 0,5 | 0,00 |
| LPG ^(a) | | 47,31 | 0,00 | | 0,00 | 0,00 | 0,8 | 0,00 |
| Ethane ^(a) | 215 | 47,49 | 10 210,35 | 16,8 | 171 533,88 | 171,53 | 0,8 | 137,23 |
| Other Fuels ^(b) | | | 0,00 | | 0,00 | 0,00 | | 0,00 |
| | | | 0,00 | | 0,00 | 0,00 | | 0,00 |
| | | | 0,00 | | 0,00 | 0,00 | | 0,00 |

| DULEENERGY | | | | | | |
|--|---------------|-----------------------------|-------------------|---------------------------------|----------------------|-----------------------|
| SUBMODULE CO₂ FROM FUEL COMBUSTION BY SOURCE CATEGORIES (TIER 1) | | | | | | |
| WORKSHEET 1-2 STEP BY STEP CALCULATIONS | | | | | | |
| SHEETS 1 OF 16 ENERGY INDUSTRIES | | | | | | |
| COUNTRY ALGERIA | | | | | | |
| YEAR 1994 | | | | | | |
| | STEP 1 | STEP 2 | | STEP 3 | | |
| ENERGY INDUSTRIES | A | B | C | D | E | F |
| | Consumption | Conversion Factor (TJ/Unit) | Consumption (TJ) | Carbon Emission Factor (t C/TJ) | Carbon Content (t C) | Carbon Content (Gg C) |
| | | | C=(AxB) | | E=(Cx D) | F=(E/1000) |
| Crude Oil ^(a) | 405 | 43,29 | 17 532,45 | 20 | 350 649,00 | 350,65 |
| Natural Gas Liquids | | | 0,00 | | 0,00 | 0,00 |
| Gasoline | | | 0,00 | | 0,00 | 0,00 |
| Jet Kerosene | | | 0,00 | | 0,00 | 0,00 |
| Other Kerosene | | | 0,00 | | 0,00 | 0,00 |
| Gas/Diesel Oil | 221 | 43,33 | 9 575,93 | 20,2 | 193 433,79 | 193,43 |
| Residual Fuel Oil | | | 0,00 | | 0,00 | 0,00 |
| LPG | | | 0,00 | | 0,00 | 0,00 |
| Ethane | | | 0,00 | | 0,00 | 0,00 |
| Naphtha | | | 0,00 | | 0,00 | 0,00 |
| Lubricants | | | 0,00 | | 0,00 | 0,00 |
| Petroleum Coke | | | 0,00 | | 0,00 | 0,00 |
| Refinery Gas | | | 0,00 | | 0,00 | 0,00 |
| Anthracite | | | 0,00 | | 0,00 | 0,00 |
| Coking Coal | | | 0,00 | | 0,00 | 0,00 |
| Other Bituminous Coal | | | 0,00 | | 0,00 | 0,00 |
| Sub-Bituminous Coal | | | 0,00 | | 0,00 | 0,00 |
| Lignite | | | 0,00 | | 0,00 | 0,00 |
| Peat | | | 0,00 | | 0,00 | 0,00 |
| Patent Fuel | | | 0,00 | | 0,00 | 0,00 |
| Brown Coal Briquettes | | | 0,00 | | 0,00 | 0,00 |
| Coke Oven Coke | | | 0,00 | | 0,00 | 0,00 |
| Gas Coke | | | 0,00 | | 0,00 | 0,00 |
| Gas Works Gas | | | 0,00 | | 0,00 | 0,00 |
| Coke Oven Gas | | | 0,00 | | 0,00 | 0,00 |
| Blast Furnace Gas | | | 0,00 | | 0,00 | 0,00 |
| Natural gas | 11571,7692 | 39,17 | 453 266,20 | 15,2 | 6 889 646,23 | 6 889,65 |
| Municipal Solid Waste | | | 0,00 | | 0,00 | 0,00 |
| Industrial Waste | | | 0,00 | | 0,00 | 0,00 |
| | | | 0,00 | | 0,00 | 0,00 |
| | | | 0,00 | | 0,00 | 0,00 |
| | | Total | 480 374,58 | | | |
| Memo items: | | | | | | |
| Wood/Wood Waste | | | 0,00 | | 0,00 | 0,00 |
| Charcoal | | | 0,00 | | 0,00 | 0,00 |
| Other Solid Biomass | | | 0,00 | | 0,00 | 0,00 |
| Liquid Biomass | | | 0,00 | | 0,00 | 0,00 |
| Gaseous Biomass | | | 0,00 | | 0,00 | 0,00 |
| | | Total Biomass | 0,00 | | | |

| | | | | | | |
|--------------------------|--|----------------------------------|---|---|--|--|
| MODULE | ENERGY | | | | | |
| SUBMODULE | CO₂ FROM FUEL COMBUSTION BY SOURCE CATEGORIES (TIER 1) | | | | | |
| WORKSHEET | I-2 STEP BY STEP CALCULATIONS | | | | | |
| SHEETS | 2 OF 16 ENERGY INDUSTRIES | | | | | |
| COUNTRY | ALGERIA | | | | | |
| YEAR | 1994 | | | | | |
| | STEP 4 | | | STEP 5 | | STEP 6 |
| ENERGY INDUSTRIES | G Fraction of Carbon Stored | H Carbon Stored (Gg C) | I Net Carbon Emissions (Gg C) | J Fraction of Carbon Oxidised | K Actual Carbon Emissions (Gg C) | L Actual CO ₂ Emissions (Gg CO ₂) |
| | | H=(F×G) | I=(F-H) | | K=(I×J) | L=(K×[44/12]) |
| Crude Oil ^(a) | | 0,00 | 350,65 | 0,99 | 347,14 | 1 272,86 |
| Natural Gas Liquids | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Gasoline | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Jet Kerosene | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Other Kerosene | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Gas/Diesel Oil | | 0,00 | 193,43 | 0,99 | 191,50 | 702,16 |
| Residual Fuel Oil | | 0,00 | 0,00 | | 0,00 | 0,00 |
| LPG | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Ethane | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Naphtha | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Lubricants | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Petroleum Coke | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Refinery Gas | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Anthracite | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Coking Coal | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Other Bituminous Coal | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Sub-Bituminous Coal | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Lignite | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Peat | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Patent Fuel | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Brown Coal Briquettes | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Coke Oven Coke | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Gas Coke | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Gas Works Gas | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Coke Oven Gas | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Blast Furnace Gas | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Natural gas | | 0,00 | 6 889,65 | 1 | 6 889,65 | 25 262,04 |
| Municipal Solid Waste | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Industrial Waste | | 0,00 | 0,00 | | 0,00 | 0,00 |
| | | 0,00 | 0,00 | | 0,00 | 0,00 |
| | | 0,00 | 0,00 | | 0,00 | 0,00 |
| | | | | Total | | 27 237,06 |
| Memo items: | | | | | | |
| Wood/Wood Waste | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Charcoal | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Other Solid Biomass | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Liquid Biomass | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Gaseous Biomass | | 0,00 | 0,00 | | 0,00 | 0,00 |
| | | | | Total Biomass | | 0,00 |

| | | | | | | |
|--|--|--|------------------------------|--|-------------------------------------|--------------------------------------|
| MODULE | ENERGY | | | | | |
| SUBMODULE | CO₂ FROM FUEL COMBUSTION BY SOURCE CATEGORIES (TIER 1) | | | | | |
| WORKSHEET | 1-2 STEP BY STEP CALCULATIONS | | | | | |
| SHEETS | 3 OF 16 MANUFACTURING INDUSTRIES AND CONSTRUCTION | | | | | |
| COUNTRY | ALGERIA | | | | | |
| YEAR | 1994 | | | | | |
| | STEP 1 | STEP 2 | | STEP 3 | | |
| MANUFACTURING INDUSTRIES AND CONSTRUCTION | A Consumption | B Conversion Factor (TJ/Unit) | C Consumption (TJ) | D Carbon Emission Factor (t C/TJ) | E Carbon Content (t C) | F Carbon Content (Gg C) |
| | | | C=(AxB) | | E=(CxD) | F=(E/1000) |
| Crude Oil ^(a) | 29 | 43,29 | 1 255,41 | 20 | 25 108,20 | 25,11 |
| Natural Gas Liquids | | | 0,00 | | 0,00 | 0,00 |
| Gasoline | | | 0,00 | | 0,00 | 0,00 |
| Jet Kerosene | | | 0,00 | | 0,00 | 0,00 |
| Other Kerosene | | | 0,00 | | 0,00 | 0,00 |
| Gas/Diesel Oil | 386 | 43,33 | 16 725,38 | 20,2 | 337 852,68 | 337,85 |
| Residual Fuel Oil | 36 | 40,19 | 1 446,84 | 21,1 | 30 528,32 | 30,53 |
| LPG | 23,73 | 47,31 | 1 122,67 | 17,2 | 19 309,86 | 19,31 |
| Ethane | | | 0,00 | | 0,00 | 0,00 |
| Naphtha | | | 0,00 | | 0,00 | 0,00 |
| Lubricants | | | 0,00 | | 0,00 | 0,00 |
| Petroleum Coke | | | 0,00 | | 0,00 | 0,00 |
| Refinery Gas | | | 0,00 | | 0,00 | 0,00 |
| Anthracite | | | 0,00 | | 0,00 | 0,00 |
| Coking Coal | 240 | 41,868 | 10 048,32 | 25,8 | 259 246,66 | 259,25 |
| Other Bituminous Coal | | | 0,00 | | 0,00 | 0,00 |
| Sub-Bituminous Coal | | | 0,00 | | 0,00 | 0,00 |
| Lignite | | | 0,00 | | 0,00 | 0,00 |
| Peat | | | 0,00 | | 0,00 | 0,00 |
| Patent Fuel | | | 0,00 | | 0,00 | 0,00 |
| Brown Coal Briquettes | | | 0,00 | | 0,00 | 0,00 |
| Coke Oven Coke | | | 0,00 | | 0,00 | 0,00 |
| Gas Coke | | | 0,00 | | 0,00 | 0,00 |
| Gas Works Gas | | | 0,00 | | 0,00 | 0,00 |
| Coke Oven Gas | 12 | 41,868 | 502,42 | 13 | 6 531,41 | 6,53 |
| Blast Furnace Gas | 47 | 41,868 | 1 967,80 | 66 | 129 874,54 | 129,87 |
| Natural gas | 1450 | 39,17 | 56 796,50 | 15,2 | 863 306,80 | 863,31 |
| Municipal Solid Waste | | | 0,00 | | 0,00 | 0,00 |
| Industrial Waste | | | 0,00 | | 0,00 | 0,00 |
| | | | 0,00 | | 0,00 | 0,00 |
| | | | 0,00 | | 0,00 | 0,00 |
| | | Total | 89 865,33 | | | |
| Memo items: | | | | | | |
| Wood/Wood Waste | | | 0,00 | | 0,00 | 0,00 |
| Charcoal | | | 0,00 | | 0,00 | 0,00 |
| Other Solid Biomass | | | 0,00 | | 0,00 | 0,00 |
| Liquid Biomass | | | 0,00 | | 0,00 | 0,00 |
| Gaseous Biomass | | | 0,00 | | 0,00 | 0,00 |
| | | Total Biomass | 0,00 | | | |

| | | | | | | |
|---|--|-------------------------------------|----------------------|-----------------------------|-------------------------|----------------------------------|
| MODULE | ENERGY | | | | | |
| SUBMODULE | CO ₂ FROM FUEL COMBUSTION BY SOURCE CATEGORIES (TIER 1) | | | | | |
| WORKSHEET | 1-2 STEP BY STEP CALCULATIONS | | | | | |
| SHEETS | 4 OF 16 MANUFACTURING INDUSTRIES AND CONSTRUCTION | | | | | |
| COUNTRY | ALGERIA | | | | | |
| YEAR | 1994 | | | | | |
| | STEP 4 | | | STEP 5 | | STEP 6 |
| MANUFACTURING INDUSTRIES AND CONSTRUCTION | G | H | I | J | K | L |
| | Fraction of Carbon Stored ^(a) | Carbon Stored (Gg C) ^(a) | Net Carbon Emissions | Fraction of Carbon Oxidised | Actual Carbon Emissions | Actual CO ₂ Emissions |
| | | | I (Gg C) | J | K (Gg C) | L (Gg CO ₂) |
| Crude Oil ^(a) | | 0,00 | 25,11 | 0,99 | 24,86 | 91,14 |
| Natural Gas Liquids | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Gasoline | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Jet Kerosene | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Other Kerosene | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Gas/Diesel Oil | | 0,00 | 337,85 | 0,99 | 334,47 | 1 226,41 |
| Residual Fuel Oil | | 0,00 | 30,53 | 0,99 | 30,22 | 110,82 |
| LPG | | 0,00 | 19,31 | 0,99 | 19,12 | 70,09 |
| Ethane | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Naphtha | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Lubricants | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Petroleum Coke | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Refinery Gas | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Anthracite | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Coking Coal | | 0,00 | 259,25 | 0,98 | 254,06 | 931,56 |
| Other Bituminous Coal | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Sub-Bituminous Coal | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Lignite | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Peat | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Patent Fuel | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Brown Coal Briquettes | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Coke Oven Coke | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Gas Coke | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Gas Works Gas | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Coke Oven Gas | | 0,00 | 6,53 | 0,995 | 6,50 | 23,83 |
| Blast Furnace Gas | | 0,00 | 129,87 | 0,995 | 129,23 | 473,83 |
| Natural gas | | 0,00 | 863,31 | 0,995 | 858,99 | 3 149,63 |
| Municipal Solid Waste | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Industrial Waste | | 0,00 | 0,00 | | 0,00 | 0,00 |
| | | 0,00 | 0,00 | | 0,00 | 0,00 |
| | | 0,00 | 0,00 | | 0,00 | 0,00 |
| | | | | | Total | 6 077,31 |
| <i>Memo items:</i> | | | | | | |
| Wood/Wood Waste | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Charcoal | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Other Solid Biomass | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Liquid Biomass | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Gaseous Biomass | | 0,00 | 0,00 | | 0,00 | 0,00 |
| | | | | | Total Biomass | 0,00 |

| | | | | | | | | |
|-------------------|--|-----------------------------|--------------------|---------------------------------|----------------------|-----------------------|---------------------------|----------------------|
| MODULE | ENERGY | | | | | | | |
| SUBMODULE | CO₂ FROM FUEL COMBUSTION BY SOURCE CATEGORIES (TIER 1) | | | | | | | |
| WORKSHEET | AUXILIARY WORKSHEET 1-2: ESTIMATING CARBON STORED IN PRODUCTS | | | | | | | |
| SHEETS | 1 OF 1 | | | | | | | |
| COUNTRY | ALGERIA | | | | | | | |
| YEAR | 1994 | | | | | | | |
| | A | B | C | D | E | F | G | H |
| | Feedstock Use | Conversion Factor (TJ/Unit) | Feedstock Use (TJ) | Carbon Emission Factor (t C/TJ) | Carbon Content (t C) | Carbon Content (Gg C) | Fraction of Carbon Stored | Carbon Stored (Gg C) |
| FUEL TYPES | | | $C=(A \times B)$ | | $E=(C \times D)$ | $F=(E/1000)$ | | $H=(F \times G)$ |
| Gas/Diesel Oil | 44 | 43,33 | 1 906,52 | 20,2 | 38 511,70 | 38,51 | 0,5 | 19,26 |
| LPG | -5,084 | 47,31 | -240,52 | 17,2 | -4 137,01 | -4,14 | 0,8 | -3,31 |
| Ethane | 0 | | 0,00 | | 0,00 | 0,00 | 0,8 | 0,00 |
| Naphtha | 0 | | 0,00 | | 0,00 | 0,00 | 0,8 | 0,00 |
| Natural Gas | 0 | | 0,00 | | 0,00 | 0,00 | 0,33 | 0,00 |
| Crude oil | 15 | 43,29 | 649,35 | 20 | 12 987,00 | 12,99 | 0,75 | 9,74 |
| Residual Fuel Oil | -54 | 40,19 | -2 170,26 | 21,1 | -45 792,49 | -45,79 | 0,5 | -22,90 |
| Gasoline | -3 | 44,8 | -134,40 | 18,9 | -2 540,16 | -2,54 | 0,5 | -1,27 |
| Jet Kerozene | -4 | 44,59 | -178,36 | 19,5 | -3 478,02 | -3,48 | 0,5 | -1,74 |
| Lubricants | -29 | 40,19 | -1 165,51 | 20 | -23 310,20 | -23,31 | 0,5 | -11,66 |
| Bitumes | -2 | 40,19 | -80,38 | 22 | -1 768,36 | -1,77 | 1 | -1,77 |
| Coking coke | -1 | 31 | -31,00 | 25,8 | -799,80 | -0,80 | 0,75 | -0,60 |

| | | | | | | |
|---|--|---------------------------------------|-------------------|------------------------------------|-------------------------|--------------------------|
| MODULE | ENERGY | | | | | |
| SUBMODULE | CO₂ FROM FUEL COMBUSTION BY SOURCE CATEGORIES (TIER 1) | | | | | |
| WORKSHEET | 1-2 STEP BY STEP CALCULATIONS | | | | | |
| SHEETS | 5 OF 16 TRANSPORT | | | | | |
| COUNTRY | ALGERIA | | | | | |
| YEAR | 1994 | | | | | |
| | STEP 1 | STEP 2 | | STEP 3 | | |
| TRANSPORT | A | B | C | D | E | F |
| | Consumption | Conversion Factor (TJ/Unit) | Consumption (TJ) | Carbon Emission Factor (t C/TJ) | Carbon Content (t C) | Carbon Content (Gg C) |
| | | | C=(AxB) | | E=(Cx D) | F=(E/1000) |
| Domestic Aviation ^(a) | | | | | | |
| Gasoline | | | 0,00 | | 0,00 | 0,00 |
| Jet Kerosene | 287,33 | 44,59 | 12 812,04 | 19,5 | 249 834,87 | 249,83 |
| | | | 0,00 | | 0,00 | 0,00 |
| | | Subtotal | 12 812,04 | | | |
| Road Transport | | | | | | |
| Natural Gas | | | 0,00 | | 0,00 | 0,00 |
| LPG | 33,9 | 47,31 | 1 603,81 | 17,2 | 27 585,51 | 27,59 |
| Gasoline | 2270,56 | 44,8 | 101 721,09 | 18,9 | 1 922 528,56 | 1 922,53 |
| Gas/Diesel Oil | 994,11 | 43,33 | 43 074,79 | 20,2 | 870 110,68 | 870,11 |
| | | | 0,00 | | 0,00 | 0,00 |
| | | Subtotal | 146 399,68 | | | |
| Rail Transport | | | | | | |
| Gas/Diesel Oil | 67,54 | 43,33 | 2 926,51 | 20,2 | 59 115,47 | 59,12 |
| Residual Fuel Oil | | | 0,00 | | 0,00 | 0,00 |
| Anthracite | | | 0,00 | | 0,00 | 0,00 |
| Other Bituminous Coal | | | 0,00 | | 0,00 | 0,00 |
| Coke Oven Coke | | | 0,00 | | 0,00 | 0,00 |
| | | | 0,00 | | 0,00 | 0,00 |
| | | Subtotal | 2 926,51 | | | |
| National Navigation ^(a) | | | | | | |
| Gasoline | 0 | 44,8 | 0,00 | | 0,00 | 0,00 |
| Gas/Diesel Oil | 206,28 | 43,33 | 8 938,11 | 20,2 | 180 549,87 | 180,55 |
| Residual Fuel Oil | 54,9 | 40,19 | 2 206,43 | 21,1 | 46 555,69 | 46,56 |
| Lubricants | 191,35 | 40,19 | 7 690,36 | 20 | 153 807,13 | 153,81 |
| Sub-Bituminous Coal | | | 0,00 | | 0,00 | 0,00 |
| | | | 0,00 | | 0,00 | 0,00 |
| | | Subtotal | 18 834,90 | | | |
| Pipeline Transport | | | | | | |
| Natural Gas | 534,72 | 39,17 | 20 944,98 | 15,3 | 320 458,23 | 320,46 |
| | | | 0,00 | | 0,00 | 0,00 |
| | | | 0,00 | | 0,00 | 0,00 |
| | | Subtotal | 20 944,98 | | | |
| | | Total Transport ^(a) | 201 918,12 | | | |
| Memo items: | | | | | | |
| Liquid Biomass | | | 0,00 | | 0,00 | 0,00 |
| | | | 0,00 | | 0,00 | 0,00 |
| | | Total Biomass | 0,00 | | | |

| | | | | | | |
|---|--|----------------------|-----------------------------|-----------------------------|---------------------------------------|--|
| MODULE | ENERGY | | | | | |
| SUBMODULE | CO ₂ FROM FUEL COMBUSTION BY SOURCE CATEGORIES (TIER 1) | | | | | |
| WORKSHEET | 1-2 STEP BY STEP CALCULATIONS | | | | | |
| SHEETS | 6 OF 16 TRANSPORT | | | | | |
| COUNTRY | ALGERIA | | | | | |
| YEAR | 1994 | | | | | |
| | STEP 4 | | | STEP 5 | | STEP 6 |
| TRANSPORT | G | H | I | J | K | L |
| | Fraction of Carbon Stored | Carbon Stored (Gg C) | Net Carbon Emissions (Gg C) | Fraction of Carbon Oxidised | Actual Carbon Emissions (Gg C) | Actual CO ₂ Emissions (Gg CO ₂) |
| | | H=(F×G) | I=(F-H) | | K=(I×J) | L=(K×[44/12]) |
| Domestic Aviation ^(a) | | | | | | |
| Gasoline | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Jet Kerosene | | 0,00 | 249,83 | 0,99 | 247,34 | 906,90 |
| | | 0,00 | 0,00 | | 0,00 | 0,00 |
| | | | | | Subtotal | 906,90 |
| Road Transport | | | | | | |
| Natural Gas | | 0,00 | 0,00 | | 0,00 | 0,00 |
| LPG | | 0,00 | 27,59 | 0,99 | 27,31 | 100,14 |
| Gasoline | | 0,00 | 1 922,53 | 0,99 | 1 903,30 | 6 978,78 |
| Gas/Diesel Oil | | 0,00 | 870,11 | 0,99 | 861,41 | 3 158,50 |
| | | 0,00 | 0,00 | | 0,00 | 0,00 |
| | | | | | Subtotal | 10 237,42 |
| Rail Transport | | | | | | |
| Gas/Diesel Oil | | 0,00 | 59,12 | 0,99 | 58,52 | 214,59 |
| Residual Fuel Oil | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Anthracite | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Other Bituminous Coal | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Coke Oven Coke | | 0,00 | 0,00 | | 0,00 | 0,00 |
| | | 0,00 | 0,00 | | 0,00 | 0,00 |
| | | | | | Subtotal | 214,59 |
| National Navigation ^(a) | | | | | | |
| Gasoline | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Gas/Diesel Oil | | 0,00 | 180,55 | 0,99 | 178,74 | 655,40 |
| Residual Fuel Oil | | 0,00 | 46,56 | 0,99 | 46,09 | 169,00 |
| Lubricants | | 0,00 | 153,81 | 0,99 | 152,27 | 558,32 |
| Sub-Bituminous Coal | | 0,00 | 0,00 | | 0,00 | 0,00 |
| | | 0,00 | 0,00 | | 0,00 | 0,00 |
| | | | | | Subtotal | 1 382,71 |
| Pipeline Transport | | | | | | |
| Natural Gas | | 0,00 | 320,46 | 0,995 | 318,86 | 1 169,14 |
| | | 0,00 | 0,00 | | 0,00 | 0,00 |
| | | 0,00 | 0,00 | | 0,00 | 0,00 |
| | | | | | Subtotal | 1 169,14 |
| | | | | | Total Transport ^(a) | 13 910,76 |
| Memo items: | | | | | | |
| Liquid Biomass | | 0,00 | 0,00 | | 0,00 | 0,00 |
| | | 0,00 | 0,00 | | 0,00 | 0,00 |
| | | | | | Total Biomass | 0,00 |

| | | | | | | |
|--|--|---|---------------------------------|---|--|---|
| MODULE | ENERGY | | | | | |
| SUBMODULE | CO₂ FROM FUEL COMBUSTION BY SOURCE CATEGORIES (TIER 1) | | | | | |
| WORKSHEET | 1-2 STEP BY STEP CALCULATIONS | | | | | |
| SHEETS | 7 OF 16 MEMO ITEMS: INTERNATIONAL BUNKERS | | | | | |
| COUNTRY | ALGERIA | | | | | |
| YEAR | 1994 | | | | | |
| | STEP 1 | STEP 2 | | STEP 3 | | |
| MEMO ITEMS: INTERNATIONAL BUNKERS | A Consumption | B Conversion Factor (TJ/Unit) | C Consumption (TJ) | D Carbon Emission Factor (t C/TJ) | E Carbon Content (t C) | F Carbon Content (Gg C) |
| | | | C=(AxB) | | E=(CxD) | F=(E/1000) |
| Intl. Marine Bunkers | | | | | | |
| Gasoline | 0 | | 0,00 | | 0,00 | 0,00 |
| Gas/Diesel Oil | 98,02 | 43,33 | 4 247,21 | 20,2 | 85 793,57 | 85,79 |
| Residual Fuel Oil | 26,1 | 40,19 | 1 048,96 | 21,1 | 22 133,03 | 22,13 |
| Lubricants | | | 0,00 | | 0,00 | 0,00 |
| Sub-Bituminous Coal | | | 0,00 | | 0,00 | 0,00 |
| | | | 0,00 | | 0,00 | 0,00 |
| | | Total | 5 296,17 | | | |
| Intl. Aviation Bunkers | | | | | | |
| Gasoline | | | 0,00 | | 0,00 | 0,00 |
| Jet Kerosene | 24,79 | 44,59 | 1 105,39 | 19,5 | 21 555,03 | 21,56 |
| | | | 0,00 | | 0,00 | 0,00 |
| | | Total | 1 105,39 | | | |

| | | | | | | |
|--|--|-------------------------------------|---|--|--|--|
| MODULE | ENERGY | | | | | |
| SUBMODULE | CO₂ FROM FUEL COMBUSTION BY SOURCE CATEGORIES (TIER 1) | | | | | |
| WORKSHEET | 1-2 STEP BY STEP CALCULATIONS | | | | | |
| SHEETS | 8 OF 16 MEMO ITEMS: INTERNATIONAL BUNKERS | | | | | |
| COUNTRY | ALGERIA | | | | | |
| YEAR | 1994 | | | | | |
| | STEP 1 | STEP 2 | | STEP 3 | | |
| MEMO ITEMS: INTERNATIONAL BUNKERS | G Fraction of Carbon Stored | H Carbon Stored (Gg C) | I Net Carbon Emissions (Gg C) | J Fraction of Carbon Oxidised | K Actual Carbon Emissions (Gg C) | L Actual CO ₂ Emissions (Gg CO ₂) |
| | | H=(F×G) | I=(F-H) | | K=(I×J) | L=(K×[44/12]) |
| Intl. Marine Bunkers | | | | | | |
| Gasoline | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Gas/Diesel Oil | | 0,00 | 85,79 | 0,99 | 84,94 | 311,43 |
| Residual Fuel Oil | | 0,00 | 22,13 | 0,99 | 21,91 | 80,34 |
| Lubricants | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Sub-Bituminous Coal | | 0,00 | 0,00 | | 0,00 | 0,00 |
| | | 0,00 | 0,00 | | 0,00 | 0,00 |
| | | | | | Total | 391,77 |
| Intl. Aviation Bunkers | | | | | | |
| Gasoline | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Jet Kerosene | | 0,00 | 21,56 | 0,99 | 21,34 | 78,24 |
| | | 0,00 | 0,00 | | 0,00 | 0,00 |
| | | | | | Total | 78,24 |

| | | | | | | |
|---------------------------|--|----------------------------------|---|---|--|--|
| MODULE | ENERGY | | | | | |
| SUBMODULE | CO₂ FROM FUEL COMBUSTION BY SOURCE CATEGORIES (TIER 1) | | | | | |
| WORKSHEET | 1-2 STEP BY STEP CALCULATIONS | | | | | |
| SHEETS | 11 OF 16 RESIDENTIAL SECTOR | | | | | |
| COUNTRY | ALGERIA | | | | | |
| YEAR | 1994 | | | | | |
| | STEP 4 | | | STEP 5 | | STEP 6 |
| RESIDENTIAL SECTOR | G Fraction of Carbon Stored | H Carbon Stored (Gg C) | I Net Carbon Emissions (Gg C) | J Fraction of Carbon Oxidised | K Actual Carbon Emissions (Gg C) | L Actual CO ₂ Emissions (Gg CO ₂) |
| | | H=(F×G) | I=(F-H) | | K=(I×J) | L=(K×[44/12]) |
| Gasoline | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Other Kerosene | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Gas/Diesel Oil | | 0,00 | 1 040,69 | 0,99 | 1 030,28 | 3 777,71 |
| Residual Fuel Oil | | 0,00 | 0,00 | | 0,00 | 0,00 |
| LPG | | 0,00 | 1 119,23 | 0,99 | 1 108,04 | 4 062,81 |
| Anthracite | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Other Bituminous Coal | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Sub-Bituminous Coal | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Lignite | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Peat | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Patent Fuel | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Brown Coal Briquettes | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Coke Oven Coke | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Gas Works Gas | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Coke Oven Gas | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Natural gas | | 0,00 | 1 145,76 | 0,995 | 1 140,03 | 4 180,10 |
| | | 0,00 | 0,00 | | 0,00 | 0,00 |
| | | 0,00 | 0,00 | | 0,00 | 0,00 |
| | | 0,00 | 0,00 | | 0,00 | 0,00 |
| | | 0,00 | 0,00 | | 0,00 | 0,00 |
| | | | | | Total | 12 020,62 |
| Memo items: | | | | | | |
| Wood/Wood Waste | | 0,00 | 77,14 | 0,87 | 67,11 | 246,09 |
| Charcoal | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Other Solid Biomass | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Liquid Biomass | | 0,00 | 0,00 | | 0,00 | 0,00 |
| Gaseous Biomass | | 0,00 | 0,00 | | 0,00 | 0,00 |
| | | | | | Total Biomass | 246,09 |

| MODULE | | ENERGY | | | | | |
|--|-------------------------------------|--|-----------------|------------------------|-------------------|------------------|-------------------|
| SUBMODULE | | CO ₂ FROM FUEL COMBUSTION BY SOURCE CATEGORIES (TIER 1) | | | | | |
| WORKSHEET | | 1-2 OVERVIEW | | | | | |
| SHEET | | 1 OF 8 | | | | | |
| COUNTRY | | ALGERIA | | | | | |
| YEAR | | 1994 | | | | | |
| | | A | B | C | D | E | F |
| | | Crude Oil | LPG In wells | Natural Gas Liquids | Gasoline | Jet Kerosene | Other Kerosene |
| FUEL CONSUMPTION (TJ) | | | | | | | |
| Energy Industries | | 17 532,45 | | 0,00 | 0,00 | 0,00 | 0,00 |
| Manufacturing Industries and Construction | | 1 255,41 | | 0,00 | 0,00 | 0,00 | 0,00 |
| Transport | Domestic Aviation ^(a) | | | | 0,00 | 12 812,04 | |
| | Road | | | | 101 721,09 | | |
| | Railways | | | | | | |
| | National Navigation ^(a) | | | | 0,00 | | |
| | Pipeline Transport | | | | | | |
| Other Sectors | Commercial/Institutional | | | | 0,00 | 0,00 | 0,00 |
| | Residential | | | | 0,00 | | 0,00 |
| | Agriculture / Forestry / Fishing | Stationary | | | 0,00 | | 0,00 |
| | | Mobile | | | | 0,00 | 0,00 |
| Other (not elsewhere specified) | | 0,00 | | 0,00 | 0,00 | 0,00 | 0,00 |
| Total ^(a) | | 18 787,86 | 0,00 | 0,00 | 101 721,09 | 12 812,04 | 0,00 |
| Memo: International Marine Bunkers | | | | | 0,00 | | |
| Memo: International Aviation Bunkers | | | | | 0,00 | 1 105,39 | |
| CO₂ EMISSIONS (Gg) | | | | | | | |
| Energy Industries | | 1 272,86 | | 0,00 | 0,00 | 0,00 | 0,00 |
| Manufacturing Industries and Construction | | 91,14 | | 0,00 | 0,00 | 0,00 | 0,00 |
| Transport | Domestic Aviation ^(a) | | | | 0,00 | 906,90 | |
| | Road | | | | 6 978,78 | | |
| | Railways | | | | | | |
| | National Navigation ^(a) | | | | 0,00 | | |
| | Pipeline Transport | | | | | | |
| Other Sectors | Commercial/Institutional | | | | 0,00 | 0,00 | 0,00 |
| | Residential | | | | 0,00 | | 0,00 |
| | Agriculture / Forestry / Fishing | Stationary | | | 0,00 | | 0,00 |
| | | Mobile | | | | 0,00 | 0,00 |
| Other (not elsewhere specified) | | 0,00 | | 0,00 | 0,00 | 0,00 | 0,00 |
| Total ^(a) | | 1 364,00 | 0,00 | 0,00 | 6 978,78 | 906,90 | 0,00 |
| Memo: International Marine Bunkers | | | | | 0,00 | | |
| Memo: International Aviation Bunkers | | | | | 0,00 | 78,24 | |

| MODULE ENERGY | | | | | | | |
|--|------------------------------------|-------------|-------------------|-------------------|------------------|-------------|-------------|
| SUBMODULE CO ₂ FROM FUEL COMBUSTION BY SOURCE CATEGORIES (TIER 1) | | | | | | | |
| WORKSHEET 1-2 OVERVIEW | | | | | | | |
| SHEET 2 OF 8 | | | | | | | |
| COUNTRY ALGERIA | | | | | | | |
| YEAR 1994 | | | | | | | |
| | | G | H | I | J | K | L |
| | | Shale Oil | Gas / Diesel Oil | Residual Fuel Oil | LPG | Ethane | Naphtha |
| FUEL CONSUMPTION (TJ) | | | | | | | |
| Energy Industries | | | 9 575,93 | 0,00 | 0,00 | 0,00 | 0,00 |
| Manufacturing Industries and Construction | | | | 16 725,38 | 1 446,84 | 1 122,67 | 0,00 |
| Transport | Domestic Aviation ^(a) | | | | | | |
| | Road | | | 43 074,79 | | 1 603,81 | |
| | Railways | | | 2 926,51 | 0,00 | | |
| | National Navigation ^(a) | | | 8 938,11 | 2 206,43 | | |
| | Pipeline Transport | | | | | | |
| Other Sectors | Commercial/Institutional | | | 0,00 | 0,00 | 0,00 | |
| | Residential | | | 51 519,37 | 0,00 | 65 071,59 | |
| | Agriculture / Forestry / | Stationary | | 0,00 | 0,00 | 0,00 | |
| | Fishing | Mobile | | 0,00 | 0,00 | 0,00 | |
| Other (not elsewhere specified) | | | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| Total ^(a) | | 0,00 | 132 760,09 | 3 653,27 | 67 798,07 | 0,00 | 0,00 |
| Memo: International Marine Bunkers | | | 4 247,21 | 1 048,96 | | | |
| Memo: International Aviation Bunkers | | | | | | | |
| CO₂ EMISSIONS (Gg) | | | | | | | |
| Energy Industries | | | 702,16 | 0,00 | 0,00 | 0,00 | 0,00 |
| Manufacturing Industries and Construction | | | 1 226,41 | 110,82 | 70,09 | 0,00 | 0,00 |
| Transport | Domestic Aviation ^(a) | | | | | | |
| | Road | | | 3 158,50 | | 100,14 | |
| | Railways | | | 214,59 | 0,00 | | |
| | National Navigation ^(a) | | | 655,40 | 169,00 | | |
| | Pipeline Transport | | | | | | |
| Other Sectors | Commercial/Institutional | | | 0,00 | 0,00 | 0,00 | |
| | Residential | | | 3 777,71 | 0,00 | 4 062,81 | |
| | Agriculture / Forestry / | Stationary | | 0,00 | 0,00 | 0,00 | |
| | Fishing | Mobile | | 0,00 | 0,00 | 0,00 | |
| Other (not elsewhere specified) | | | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| Total ^(a) | | 0,00 | 9 734,77 | 279,81 | 4 233,04 | 0,00 | 0,00 |
| Memo: International Marine Bunkers | | | 311,43 | 80,34 | | | |
| Memo: International Aviation Bunkers | | | | | | | |

| MODULE | | ENERGY | | | | | |
|--|-------------------------------------|--|-------------------|-----------------|-------------|------------------|-----------------------------|
| SUBMODULE | | CO ₂ FROM FUEL COMBUSTION BY SOURCE CATEGORIES (TIER 1) | | | | | |
| WORKSHEET | | 1-2 OVERVIEW | | | | | |
| SHEET | | 3 OF 8 | | | | | |
| COUNTRY | | ALGERIA | | | | | |
| YEAR | | 1994 | | | | | |
| | | M | N | O | P | Q | R |
| | | Lubricants | Petroleum Coke | Refinery Gas | Anthracite | Coking Coal | Other Bituminous Coal |
| FUEL CONSUMPTION (TJ) | | | | | | | |
| Energy Industries | | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| Manufacturing Industries and Construction | | | 0,00 | 0,00 | 0,00 | 10 048,32 | 0,00 |
| Transport | Domestic Aviation ^(a) | | | | | | |
| | Road | | | | | | |
| | Railways | | | | 0,00 | | 0,00 |
| | National Navigation ^(a) | 7 690,36 | | | | | |
| | Pipeline Transport | | | | | | |
| Other Sectors | Commercial/Institutional | | | | 0,00 | | 0,00 |
| | Residential | | | | 0,00 | | 0,00 |
| | Agriculture / Forestry / Fishing | Stationary | | | 0,00 | 0,00 | 0,00 |
| | | Mobile | | | | | |
| Other (not elsewhere specified) | | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| Total ^(a) | | 7 690,36 | 0,00 | 0,00 | 0,00 | 10 048,32 | 0,00 |
| Memo: International Marine Bunkers | | 0,00 | | | | | |
| Memo: International Aviation Bunkers | | | | | | | |
| CO₂ EMISSIONS (Gg) | | | | | | | |
| Energy Industries | | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| Manufacturing Industries and Construction | | 0,00 | 0,00 | 0,00 | 0,00 | 931,56 | 0,00 |
| Transport | Domestic Aviation ^(a) | | | | | | |
| | Road | | | | | | |
| | Railways | | | | 0,00 | | 0,00 |
| | National Navigation ^(a) | 558,32 | | | | | |
| | Pipeline Transport | | | | | | |
| Other Sectors | Commercial/Institutional | | | | 0,00 | | 0,00 |
| | Residential | | | | 0,00 | | 0,00 |
| | Agriculture / Forestry / Fishing | Stationary | | | 0,00 | 0,00 | 0,00 |
| | | Mobile | | | | | |
| Other (not elsewhere specified) | | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| Total ^(a) | | 558,32 | 0,00 | 0,00 | 0,00 | 931,56 | 0,00 |
| Memo: International Marine Bunkers | | 0,00 | | | | | |
| Memo: International Aviation Bunkers | | | | | | | |

| MODULE | | ENERGY | | | | | |
|--|-------------------------------------|--|-------------|-------------|-------------|-------------|--------------------------|
| SUBMODULE | | CO ₂ FROM FUEL COMBUSTION BY SOURCE CATEGORIES (TIER 1) | | | | | |
| WORKSHEET | | 1-2 OVERVIEW | | | | | |
| SHEET | | 4 OF 8 | | | | | |
| COUNTRY | | ALGERIA | | | | | |
| YEAR | | 1994 | | | | | |
| | | S | T | U | V | W | X |
| | | Sub- Bituminous Coal | Lignite | Oil Shale | Peat | Patent Fuel | Brown Coal Briquettes |
| FUEL CONSUMPTION (TJ) | | | | | | | |
| Energy Industries | | 0,00 | 0,00 | | 0,00 | 0,00 | 0,00 |
| Manufacturing Industries and Construction | | 0,00 | 0,00 | | 0,00 | 0,00 | 0,00 |
| Transport | Domestic Aviation ^(a) | | | | | | |
| | Road | | | | | | |
| | Railways | | | | | | |
| | National Navigation ^(a) | 0,00 | | | 0,00 | | |
| | Pipeline Transport | | | | | | |
| Other Sectors | Commercial/Institutional | | 0,00 | | | | 0,00 |
| | Residential | 0,00 | 0,00 | | 0,00 | 0,00 | 0,00 |
| | Agriculture / Forestry / Fishing | | 0,00 | | | 0,00 | 0,00 |
| | Stationary Mobile | | | | | | |
| Other (not elsewhere specified) | | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| Total ^(a) | | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| Memo: International Marine Bunkers | | 0,00 | | | | | |
| Memo: International Aviation Bunkers | | | | | | | |
| CO₂ EMISSIONS (Gg) | | | | | | | |
| Energy Industries | | 0,00 | 0,00 | | 0,00 | 0,00 | 0,00 |
| Manufacturing Industries and Construction | | 0,00 | 0,00 | | 0,00 | 0,00 | 0,00 |
| Transport | Domestic Aviation ^(a) | | | | | | |
| | Road | | | | | | |
| | Railways | | | | | | |
| | National Navigation ^(a) | 0,00 | | | | | |
| | Pipeline Transport | | | | | | |
| Other Sectors | Commercial/Institutional | | 0,00 | | | | 0,00 |
| | Residential | 0,00 | 0,00 | | 0,00 | 0,00 | 0,00 |
| | Agriculture / Forestry / Fishing | | 0,00 | | | 0,00 | 0,00 |
| | Stationary Mobile | | | | | | |
| Other (not elsewhere specified) | | 0,00 | 0,00 | | 0,00 | 0,00 | 0,00 |
| Total ^(a) | | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| Memo: International Marine Bunkers | | 0,00 | | | | | |
| Memo: International Aviation Bunkers | | | | | | | |

| MODULE | | ENERGY | | | | | |
|--|-------------------------------------|--|-------------|--------------|------------------|-------------------------|-------------------|
| SUBMODULE | | CO ₂ FROM FUEL COMBUSTION BY SOURCE CATEGORIES (TIER 1) | | | | | |
| WORKSHEET | | 1-2 OVERVIEW | | | | | |
| SHEETS | | 5 OF 8 | | | | | |
| COUNTRY | | ALGERIA | | | | | |
| YEAR | | 1994 | | | | | |
| | | Y | Z | AA | AB | AC | AD |
| | | Coke Oven Coke | Gas Coke | Works Gas | Coke Oven Gas | Blast Furnace Gas | Natural Gas |
| FUEL CONSUMPTION (TJ) | | | | | | | |
| Energy Industries | | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 453 266,20 |
| Manufacturing Industries and Construction | | 0,00 | 0,00 | 0,00 | 502,42 | 1 967,80 | 56 796,50 |
| Transport | Domestic Aviation ^(a) | | | | | | |
| | Road | | | | | | 0,00 |
| | Railways | 0,00 | | | | | |
| | National Navigation ^(a) | | | | | | |
| | Pipeline Transport | 0,00 | | | | | 20 944,98 |
| Other Sectors | Commercial/Institutional | 0,00 | | 0,00 | 0,00 | | 0,00 |
| | Residential | 0,00 | | 0,00 | 0,00 | | 75 378,75 |
| | Agriculture / Forestry / Fishing | | | 0,00 | | | 0,00 |
| | Stationary Mobile | | | | | | |
| Other (not elsewhere specified) | | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| Total ^(a) | | 0,00 | 0,00 | 0,00 | 502,42 | 1 967,80 | 606 386,43 |
| Memo: International Marine Bunkers | | | | | | | |
| Memo: International Aviation Bunkers | | | | | | | |
| CO₂ EMISSIONS (Gg) | | | | | | | |
| Energy Industries | | 1 272,86 | | 0,00 | 0,00 | 0,00 | 25 262,04 |
| Manufacturing Industries and Construction | | 91,14 | | 0,00 | 23,83 | 473,83 | 3 149,63 |
| Transport | Domestic Aviation ^(a) | | | | | | |
| | Road | | | | | | 0,00 |
| | Railways | 0,00 | | | | | |
| | National Navigation ^(a) | | | | 0,00 | | |
| | Pipeline Transport | | | | | | 1 169,14 |
| Other Sectors | Commercial/Institutional | 0,00 | | 0,00 | 0,00 | | 0,00 |
| | Residential | 0,00 | | 0,00 | 0,00 | | 4 180,10 |
| | Agriculture / Forestry / Fishing | 0,00 | | 0,00 | | | 0,00 |
| | Stationary Mobile | | | | | | |
| Other (not elsewhere specified) | | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| Total ^(a) | | 0,00 | 0,00 | 0,00 | 23,83 | 473,83 | 33 760,91 |
| Memo: International Marine Bunkers | | | | | | | |
| Memo: International Aviation Bunkers | | | | | | | |

| MODULE | | ENERGY | | | | | |
|--|------------------------------------|--|---------------------|-----------------------|-------------------|-------------------|-------------------|
| SUBMODULE | | CO ₂ FROM FUEL COMBUSTION BY SOURCE CATEGORIES (TIER 1) | | | | | |
| WORKSHEET | | 1-2 OVERVIEW | | | | | |
| SHEET | | 6 OF 8 | | | | | |
| COUNTRY | | ALGERIA | | | | | |
| YEAR | | 1994 | | | | | |
| | | AE | AF | AG ^(b) | AH ^(b) | AI ^(b) | AJ ^(b) |
| | | Municipal Solid Waste | Industrial Waste | (additional fuels) | | | |
| FUEL CONSUMPTION (TJ) | | | | | | | |
| Energy Industries | | 0,00 | 0,00 | 0,00 | 0,00 | | |
| Manufacturing Industries and Construction | | 0,00 | 0,00 | 0,00 | 0,00 | | |
| Transport | Domestic Aviation ^(a) | | | 0,00 | | | |
| | Road | | | 0,00 | | | |
| | Railways | | | 0,00 | | | |
| | National Navigation ^(a) | | | 0,00 | | | |
| | Pipeline Transport | | | 0,00 | 0,00 | | |
| Other Sectors | Commercial/Institutional | | | 0,00 | 0,00 | | |
| | Residential | | | 0,00 | 0,00 | 0,00 | 0,00 |
| | Agriculture / Forestry / | | | 0,00 | 0,00 | | |
| | Fishing | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | |
| Other (not elsewhere specified) | | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | |
| Total^(a) | | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| Memo: International Marine Bunkers | | | | 0,00 | | | |
| Memo: International Aviation Bunkers | | | | 0,00 | | | |
| CO₂ EMISSIONS (Gg) | | | 0,00 | | | | |
| Energy Industries | | 0,00 | 0,00 | 0,00 | 0,00 | | |
| Manufacturing Industries and Construction | | 0,00 | 0,00 | 0,00 | 0,00 | | |
| Transport | Domestic Aviation ^(a) | | | 0,00 | | | |
| | Road | | | 0,00 | | | |
| | Railways | | | 0,00 | | | |
| | National Navigation ^(a) | | | 0,00 | | | |
| | Pipeline Transport | | | 0,00 | 0,00 | | |
| Other Sectors | Commercial/Institutional | | | 0,00 | 0,00 | | |
| | Residential | | | 0,00 | 0,00 | 0,00 | 0,00 |
| | Agriculture / Forestry / | | | 0,00 | 0,00 | | |
| | Fishing | 0,00 | | 0,00 | 0,00 | | |
| Other (not elsewhere specified) | | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| Total^(a) | | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| Memo: International Marine Bunkers | | | | 0,00 | | | |
| Memo: International Aviation Bunkers | | | | 0,00 | | | |

| MODULE | | ENERGY | | | | | |
|--|-------------------------------------|--|--|--|---|---|----------------------------|
| SUBMODULE | | CO ₂ FROM FUEL COMBUSTION BY SOURCE CATEGORIES (TIER 1) | | | | | |
| WORKSHEET | | 1-2 OVERVIEW | | | | | |
| SHEET | | 7 OF 8 | | | | | |
| COUNTRY | | ALGERIA | | | | | |
| YEAR | | 1994 | | | | | |
| | | AK ^(b) | AL Total Liquid Fossil ^(c) | AM Total Solid Fossil ^(c) | AN Total Gaseous Fossil ^(c) | AO Total Other Fuels ^(c) | AP Total ^(d) |
| FUEL CONSUMPTION (TJ) | | | | | | | |
| Energy Industries | | | 27 108,38 | 0,00 | 453 266,20 | 0,00 | 480 374,58 |
| Manufacturing Industries and Construction | | | 20 550,30 | 12 518,53 | 56 796,50 | 0,00 | 89 865,33 |
| Transport | Domestic Aviation ^(a) | | 12 812,04 | 0,00 | | 0,00 | 12 812,04 |
| | Road | | 146 399,68 | 0,00 | 0,00 | 0,00 | 146 399,68 |
| | Railways | | 2 926,51 | 0,00 | | 0,00 | 2 926,51 |
| | National Navigation ^(a) | | 18 834,90 | 0,00 | | 0,00 | 18 834,90 |
| | Pipeline Transport | | 0,00 | 0,00 | 20 944,98 | 0,00 | 20 944,98 |
| Other Sectors | Commercial/Institutional | | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| | Residential | | 116 590,96 | 0,00 | 75 378,75 | 0,00 | 191 969,71 |
| | Agriculture / Forestry / Fishing | Stationary | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| | | Mobile | 0,00 | 0,00 | | 0,00 | 0,00 |
| Other (not elsewhere specified) | | | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| Total^(a) | | 0,00 | 345 222,78 | 12 518,53 | 606 386,43 | 0,00 | 964 127,74 |
| Memo: International Marine Bunkers | | | 5 296,17 | 12 518,53 | | | 5 296,17 |
| Memo: International Aviation Bunkers | | | 1 105,39 | 0,00 | | | 1 105,39 |
| CO₂ EMISSIONS (Gg) | | | | | | | |
| Energy Industries | | | 1 975,02 | 0,00 | 25 262,04 | 0,00 | 27 237,06 |
| Manufacturing Industries and Construction | | | 1 498,46 | 1 429,21 | 3 149,63 | 0,00 | 6 077,31 |
| Transport | Domestic Aviation ^(a) | | 906,90 | 0,00 | | 0,00 | 906,90 |
| | Road | | 10 237,42 | 0,00 | 0,00 | 0,00 | 10 237,42 |
| | Railways | | 214,59 | 0,00 | | 0,00 | 214,59 |
| | National Navigation ^(a) | | 1 382,71 | 0,00 | | 0,00 | 1 382,71 |
| | Pipeline Transport | | 0,00 | 0,00 | 1 169,14 | 0,00 | 1 169,14 |
| Other Sectors | Commercial/Institutional | | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| | Residential | | 7 840,52 | 0,00 | 4 180,10 | 0,00 | 12 020,62 |
| | Agriculture / Forestry / Fishing | Stationary | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| | | Mobile | 0,00 | 0,00 | | 0,00 | 0,00 |
| Other (not elsewhere specified) | | | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| Total^(a) | | | 24 055,62 | 1 429,21 | 33 760,91 | 0,00 | 59 245,74 |
| Memo: International Marine Bunkers | | | 391,77 | 0,00 | | | 391,77 |
| Memo: International Aviation Bunkers | | | 78,24 | 0,00 | | | 78,24 |

| MODULE | | ENERGY | | | | | |
|--|-------------------------------------|--|-------------|------------------------|-------------------|--------------------|------------------|
| SUBMODULE | | CO ₂ FROM FUEL COMBUSTION BY SOURCE CATEGORIES (TIER 1) | | | | | |
| WORKSHEET | | 1-2 OVERVIEW | | | | | |
| | | SHEETS OF 8 | | | | | |
| | | COUNTRY ALGERIA | | | | | |
| | | YEAR 1994 | | | | | |
| | | AQ | AR | AS | AT | AU | AV |
| | | Wood / Wood Waste | Charcoal | Other Solid Biomass | Liquid Biomass | Gaseous Biomass | Total Biomass |
| FUEL CONSUMPTION (TJ) | | | | | | | |
| Energy Industries | | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| Manufacturing Industries and Construction | | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| Transport | Domestic Aviation ^(a) | | | | | | 0,00 |
| | Road | | | | 0,00 | | 0,00 |
| | Railways | | | | | | 0,00 |
| | National Navigation ^(a) | | | | | | 0,00 |
| | Pipeline Transport | | | | | | |
| Other Sectors | Commercial/Institutional | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| | Residential | 2 260,87 | 0,00 | 0,00 | 0,00 | 0,00 | 2 260,87 |
| | Agriculture / Forestry / Fishing | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| | | | | | 0,00 | | 0,00 |
| Other (not elsewhere specified) | | 0,00 | 0,00 | 0,00 | | 0,00 | 0,00 |
| Total ^(a) | | 2 260,87 | 0,00 | 0,00 | 0,00 | 0,00 | 2 260,87 |
| Memo: International Marine Bunkers | | | | | | | 0,00 |
| Memo: International Aviation Bunkers | | | | | | | 0,00 |
| CO₂ EMISSIONS (Gg) | | | | | | | |
| Energy Industries | | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| Manufacturing Industries and Construction | | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| Transport | Domestic Aviation ^(a) | | | | | | 0,00 |
| | Road | | | | 0,00 | | 0,00 |
| | Railways | | | | | | 0,00 |
| | National Navigation ^(a) | | | | | | 0,00 |
| | Pipeline Transport | | | | | | |
| Other Sectors | Commercial/Institutional | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| | Residential | 246,09 | 0,00 | 0,00 | 0,00 | 0,00 | 246,09 |
| | Agriculture / Forestry / Fishing | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| | | | | | 0,00 | | 0,00 |
| Other (not elsewhere specified) | | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| Total ^(a) | | 246,09 | 0,00 | 0,00 | 0,00 | 0,00 | 246,09 |
| Memo: International Marine Bunkers | | | | | | | 0,00 |
| Memo: International Aviation Bunkers | | | | | | | 0,00 |

| | | | | | | | |
|--|--|--|-------------------|-----------|-------------------|-------------------------------|----------------|
| MODULE | | ENERGY | | | | | |
| SUBMODULE | | NON-CO ₂ FROM FUEL COMBUSTION BY SOURCE CATEGORIES (TIER 1) | | | | | |
| WORKSHEET | | I-3 | | | | | |
| SHEETS | | 1 OF 3 | | | | | |
| COUNTRY | | ALGERIA | | | | | |
| YEAR | | 1994 | | | | | |
| | | STEP 1 | | | | | |
| ACTIVITY | | A Fuel Consumption (TJ) | | | | | |
| | | A1 Coal | A2 Natural Gas | A3 Oil | | A4 Wood / Wood Waste | A5 Charcoal |
| Energy Industries | | 0 | 453 266,20 | | 27 108,38 | | |
| Manufacturing Industries and Construction | | 10 048,32 | 56 796,50 | | 20 550,30 | | |
| Transport | Domestic Aviation ^(a) | | | | 12 812,04 | | |
| | Road | Gasoline | | | 101 721,09 | | |
| | | Diesel | | | 43 074,79 | | |
| | | LPG | | | 1 603,81 | | |
| | Railways | | | | 2 926,51 | | |
| | National Navigation ^(a) | | | | 18 834,90 | | |
| | Pipeline transport | | 20 944,98 | | | | |
| Other | Commercial/Institutional | | | | | | |
| | Residential | | 75 378,75 | | 116 590,96 | 2 260,87 | |
| | Agriculture / Forestry / Fishing | Stationary | | | | | |
| | | Mobile | | | | | |
| Other (not elsewhere specified) | | | | | | | |
| Total^(a) | | 10 048,32 | 606 386,43 | | 345 222,78 | 2 260,87 | 0,00 |
| Memo: International Marine Bunkers | | | | | 5 296,17 | | |
| Memo: International Aviation Bunkers | | | | | 1 105,39 | | |

| | | | | | | | |
|---|------------------------------------|--|-------------|-----|-------------------|----------|--------------------------|
| MODULE | | ENERGY | | | | | |
| SUBMODULE | | NON-CO ₂ FROM FUEL COMBUSTION BY SOURCE CATEGORIES (TIER 1) | | | | | |
| WORKSHEET | | 1-3 | | | | | |
| SHEETS | | 2 OF 3 CH ₄ | | | | | |
| COUNTRY | | ALGERIA | | | | | |
| YEAR | | 1994 | | | | | |
| | | STEP 2 | | | | | |
| | | B | | | | | |
| | | Emission Factors (kg/TJ) | | | | | |
| | | | | | | | |
| | | B1 | B2 | B3 | B4 | B5 | B6 |
| ACTIVITY | | Coal | Natural Gas | Oil | Wood / Wood Waste | Charcoal | Other Biomass and Wastes |
| Energy Industries | | 1 | 1 | 3 | 30 | 200 | 30 |
| Manufacturing Industries and Construction | | 10 | 5 | 2 | 30 | 200 | 30 |
| Transport | Domestic Aviation ^(a) | | | 0,5 | | | |
| | Road | Gasoline | | | 20 | | |
| | | Diesel | | | 5 | | |
| | | LPG | | | 20 | | |
| | Railways | | | 5 | | | |
| | National Navigation ^(a) | | | 5 | | | |
| Pipeline transport | | | | | | | |
| Other Sectors | Commercial/Institutional | | | | | | |
| | Residential | | 5 | 10 | 300 | | |
| | Agriculture / Forestry / Fishing | Stationary | | | | | |
| Mobile | | | | | | | |
| Other (not elsewhere specified) | | | | | | | |
| Total ^(a) | | | | | | | |
| Memo: Intern. Marine Bunkers | | | | 5 | | | |
| Memo: Intern. Aviation Bunkers | | | | 0,5 | | | |

| | | | | | | | | |
|---|------------------------------------|--|--------------|--------------|-------------------|----------|--------------------------|-------------------------|
| MODULE | | ENERGY | | | | | | |
| SUBMODULE | | NON-CO ₂ FROM FUEL COMBUSTION BY SOURCE CATEGORIES (TIER 1) | | | | | | |
| WORKSHEET | | 1-3 | | | | | | |
| SHEETS | | 3 OF 3 CH ₄ | | | | | | |
| COUNTRY | | ALGERIA | | | | | | |
| YEAR | | 1994 | | | | | | |
| | | STEP 3 | | | | | | |
| ACTIVITY | | C | | | | | | D |
| | | Emissions by Fuel (kg) | | | | | | Emissions (Gg) |
| | | C1 | C2 | C3 | C4 | C5 | C6 | D = sum |
| | | Coal | Natural Gas | Oil | Wood / Wood Waste | Charcoal | Other Biomass and Wastes | (C1...C6)/ 1 000 000 |
| Energy Industries | | 0,00 | 453 266,20 | 81 325,14 | 0,00 | 0,00 | 0,00 | 0,53 |
| Manufacturing Industries and Construction | | | | | | | | |
| | | 100 483,20 | 283 982,50 | 41 100,59 | 0,00 | 0,00 | 0,00 | 0,43 |
| Transport | Domestic Aviation ^(a) | | | 6 406,02 | | | | 0,01 |
| | Road | | | 2034421,76 | | | | 2,03 |
| | | | | 215373,9315 | | | | 0,22 |
| | | | | 32 076,18 | | | | 0,03 |
| | Railways | 0,00 | | 14 632,54 | | | | 0,01 |
| | National Navigation ^(a) | 0,00 | | 94 174,50 | | | | 0,09 |
| Pipeline transport | | | | | | | 0,00 | |
| Other Sectors | Commercial/Institutional | | | | | | | |
| | Residential | | 376 893,74 | 1 165 909,63 | 678 261,60 | 0,00 | 0,00 | 2,22 |
| | Agriculture / Forestry / Fishing | | | | | | | |
| | | | | | | | | |
| Other (not elsewhere specified) | | | | | | | | |
| Total ^(a) | | 100 483,20 | 1 114 142,44 | 3 685 420,30 | 678 261,60 | 0,00 | 0,00 | 5,58 |
| Memo: Intern. Marine Bunkers | | 0,00 | | 26 480,83 | | | | 0,03 |
| Memo: Intern. Aviation Bunkers | | | | 552,69 | | | | 0,00 |

| | | | | | | | |
|---|------------------------------------|--|-------------|-----|-------------------|----------|--------------------------|
| MODULE | | ENERGY | | | | | |
| SUBMODULE | | NON-CO ₂ FROM FUEL COMBUSTION BY SOURCE CATEGORIES (TIER 1) | | | | | |
| WORKSHEET | | 1-3 | | | | | |
| SHEETS | | 2 OF 3 N ₂ O | | | | | |
| COUNTRY | | ALGERIA | | | | | |
| YEAR | | 1994 | | | | | |
| | | STEP 2 | | | | | |
| | | B | | | | | |
| | | Emission Factors (kg/TJ) | | | | | |
| ACTIVITY | | B1 | B2 | B3 | B4 | B5 | B6 |
| | | Coal | Natural Gas | Oil | Wood / Wood Waste | Charcoal | Other Biomass and Wastes |
| Energy Industries | | 1,4 | 0,1 | 0,6 | 4 | 4 | 4 |
| Manufacturing Industries and Construction | | 1,4 | 0,1 | 0,6 | 4 | 4 | 4 |
| Transport | Domestic Aviation ^(a) | | | 2 | | | |
| | Road | Gasoline | | | 0,6 | | |
| | | Diesel | | | 0,6 | | |
| | | LPG | | | 0,6 | | |
| | Railways | 1,4 | | 0,6 | | | |
| | National Navigation ^(a) | 1,4 | | 0,6 | | | |
| | Pipeline transport | | | | | | |
| Sectors | Commercial/Institutional | | | | | | |
| | Residential | | 0,1 | 0,6 | 1,4 | | |
| | Agriculture / Forestry / Fishing | Stationary | | | | | |
| | | Mobile | | | | | |
| Other (not elsewhere specified) | | | | | | | |
| Total ^(a) | | | | | | | |
| Memo: International Marine Bunkers | | | | 0,6 | | | |
| Memo: International Aviation Bunkers | | | | 2 | | | |

| | | | | | | | | |
|--|------------------------------------|--|-------------------|-------------|----------------------------|----------------|--------------------------------------|------------------------------------|
| MODULE | | ENERGY | | | | | | |
| SUBMODULE | | NON-CO ₂ FROM FUEL COMBUSTION BY SOURCE CATEGORIES (TIER 1) | | | | | | |
| WORKSHEET | | 1-3 | | | | | | |
| SHEETS | | 3 OF 3 N ₂ O | | | | | | |
| COUNTRY | | ALGERIA | | | | | | |
| YEAR | | 1994 | | | | | | |
| | | STEP 3 | | | | | | |
| ACTIVITY | | C | | | | | | D |
| | | Emissions by Fuel (kg) | | | | | | Emissions (Gg) |
| | | C1 Coal | C2 Natural Gas | C3 Oil | C4 Wood / Wood Waste | C5 Charcoal | C6 Other Biomass and Wastes | D = sum (C1...C6)/ 1 000 000 |
| Energy Industries | | 0,00 | 45 326,62 | 16 265,03 | 0,00 | 0,00 | 0,00 | 0,06 |
| Manufacturing Industries and Construction | | 14 067,65 | 5 679,65 | 12 330,18 | 0,00 | 0,00 | 0,00 | 0,03 |
| Transport | Domestic Aviation ^(a) | | | 25 624,09 | | | | 0,03 |
| | Road | | | 61032,6528 | | | | 0,06 |
| | | | | 25844,87178 | | | | 0,03 |
| | | | | 962,29 | | | | 0,00 |
| | Railways | 0,00 | | 1 755,90 | | | | 0,00 |
| | National Navigation ^(a) | 0,00 | | 11 300,94 | | | | 0,01 |
| | Pipeline transport | | | | | | | 0,00 |
| Other Sectors | Commercial/Institutional | | | | | | | |
| | Residential | 0,00 | 7 537,87 | 69 954,58 | 3 165,22 | 0,00 | 0,00 | 0,08 |
| | Agriculture / Forestry / | | | | | | | |
| | Fishing | | | | | | | |
| Other (not elsewhere specified) | | | | | | | | |
| Total ^(a) | | 14 067,65 | 58 544,14 | 225 070,53 | 3 165,22 | 0,00 | 0,00 | 0,30 |
| Memo: Intern. Marine Bunkers | | 0,00 | | 3 177,70 | | | | 0,00 |
| Memo: Intern. Aviation Bunkers | | | | 2 210,77 | | | | 0,00 |

| | | | | | | | | |
|--|------------------------------------|--|-------------|------|-------------------|----------|--------------------------|--|
| MODULE | | ENERGY | | | | | | |
| SUBMODULE | | NON-CO ₂ FROM FUEL COMBUSTION BY SOURCE CATEGORIES (TIER 1) | | | | | | |
| WORKSHEET | | 1-3 | | | | | | |
| SHEETS | | 2 OF 3 NO _x | | | | | | |
| COUNTRY | | ALGERIA | | | | | | |
| YEAR | | 1994 | | | | | | |
| | | STEP 2 | | | | | | |
| | | B | | | | | | |
| | | Emission Factors (kg/TJ) | | | | | | |
| ACTIVITY | | B1 | B2 | B3 | B4 | B5 | B6 | |
| | | Coal | Natural Gas | Oil | Wood / Wood Waste | Charcoal | Other Biomass and Wastes | |
| Energy Industries | | 300 | 150 | 200 | 100 | 100 | 100 | |
| Manufacturing Industries and Construction | | 300 | 150 | 200 | 100 | 100 | 100 | |
| Transport | Domestic Aviation ^(a) | | | 300 | | | | |
| | Road | Gasoline | | | 600 | | | |
| | | Diesel | | | 800 | | | |
| | | LPG | | | 900 | | | |
| | Railways | | | 1200 | | | | |
| | National Navigation ^(a) | | | 1500 | | | | |
| Pipeline transport | | | | | | | | |
| Other Sectors | Commercial/Institutional | | | | | | | |
| | Residential | 100 | 50 | 100 | 100 | 100 | 100 | |
| | Agriculture / Forestry / Fishing | Stationary | | | | | | |
| | | Mobile | | | | | | |
| Other (not elsewhere specified) | | | | | | | | |
| Total^(a) | | | | | | | | |
| Memo: International Marine Bunkers | | | | 1500 | | | | |
| Memo: International Aviation Bunkers | | | | 300 | | | | |

| MODULE | | ENERGY | | | | | | |
|--|--|--|----------------------|-----------------------|----------------------|-------------|-----------------------------------|-------------------------|
| SUBMODULE | | NON-CO ₂ FROM FUEL COMBUSTION BY SOURCE CATEGORIES (TIER 1) | | | | | | |
| WORKSHEET | | 1-3 | | | | | | |
| SHEETS | | 3 OF 3 NO _x | | | | | | |
| COUNTRY | | ALGERIA | | | | | | |
| YEAR | | 1994 | | | | | | |
| | | STEP 3 | | | | | | |
| ACTIVITY | | C | | | | | D | |
| | | Emissions by Fuel (kg) | | | | | | |
| | | C1 | C2 | C3 | C4 | C5 | C6 | D = sum |
| | | Coal | Natural Gas | Oil | Wood / Wood Waste | Charcoal | Other Biomass and Wastes | (C1...C6)/ 1 000 000 |
| Energy Industries | | 0,00 | 67 989 929,93 | 5 421 676,00 | 0,00 | 0,00 | 0,00 | 73,41 |
| Manufacturing Industries and Construction | | 3 014 496,00 | 8 519 475,00 | 4 110 059,26 | 0,00 | 0,00 | 0,00 | 15,64 |
| Transport | Domestic Aviation ^(a) | | | 3 843 613,41 | | | | 3,84 |
| | Road | | | 61032652,8 | | | | 61,03 |
| | | | | 34459829,04 | | | | 34,46 |
| | | | | 1 443 428,10 | | | | 1,44 |
| | Railways | 0,00 | | 3 511 809,84 | | | | 3,51 |
| | National Navigation ^(a) | 0,00 | | 28 252 349,85 | | | | 28,25 |
| | Pipeline transport | | | | | | | 0,00 |
| Other Sectors | Commercial/Institutional | | | | | | | |
| | Residential | 0,00 | 3 768 937,40 | 11 659 096,33 | 226 087,20 | 0,00 | 0,00 | 15,65 |
| | Agriculture / Forestry / Fishing | | | | | | | |
| Other (not elsewhere specified) | | | | | | | | |
| Total ^(a) | | 3 014 496,00 | 80 278 342,33 | 153 734 514,63 | 226 087,20 | 0,00 | 0,00 | 237,25 |
| Memo: Intern. Marine Bunkers | | 0,00 | | 7 944 248,40 | | | | 7,94 |
| Memo: Intern. Aviation Bunkers | | | | 331 615,83 | | | | 0,33 |

| | | | | | | | |
|--|--|--|-------------|-----------|----------------------|-----------|-----------------------------|
| MODULE | | ENERGY | | | | | |
| SUBMODULE | | NON-CO₂ FROM FUEL COMBUSTION BY SOURCE CATEGORIES (TIER 1) | | | | | |
| WORKSHEET | | 1-3 | | | | | |
| SHEETS | | 2 OF 3 CO | | | | | |
| COUNTRY | | ALGERIA | | | | | |
| YEAR | | 1994 | | | | | |
| | | STEP 2 | | | | | |
| ACTIVITY | | B | | | | | |
| | | Emission Factors (kg/TJ) | | | | | |
| | | B1 | B2 | B3 | B4 | B5 | B6 |
| | | Coal | Natural Gas | Oil | Wood / Wood Waste | Charcoal | Other Biomass and Wastes |
| Energy Industries | | 20 | 20 | 15 | 1000 | 1000 | 1000 |
| Manufacturing Industries and Construction | | 150 | 30 | 10 | 2000 | 4000 | 4000 |
| Transport | Domestic Aviation ^(a) | | | 100 | | | |
| | Road | Gasoline | | | 8000 | | |
| | | Diesel | | | 1000 | | |
| | | LPG | | | 2600 | | |
| | Railways | | | 1000 | | | |
| | National Navigation ^(a) | | | 1000 | | | |
| Pipeline transport | | | | | | | |
| Other Sectors | Commercial/Institutional | | | | | | |
| | Residential | 2000 | 50 | 20 | 5000 | 7000 | 5000 |
| | Agriculture / Forestry / Fishing | Stationary | | | | | |
| | | Mobile | | | | | |
| Other (not elsewhere specified) | | | | | | | |
| Total ^(a) | | | | | | | |
| Memo: International Marine Bunkers | | | | 1000 | | | |
| Memo: International Aviation Bunkers | | | | 100 | | | |

| MODULE | | ENERGY | | | | | | |
|--|------------------------------------|--|----------------------|-----------------------|----------------------|-------------|--------------------------|------------------------------------|
| SUBMODULE | | NON-CO ₂ FROM FUEL COMBUSTION BY SOURCE CATEGORIES (TIER 1) | | | | | | |
| WORKSHEET | | 1-3 | | | | | | |
| SHEETS | | 3 OF 3 CO | | | | | | |
| COUNTRY | | ALGERIA | | | | | | |
| YEAR | | 1994 | | | | | | |
| | | STEP 3 | | | | | | |
| ACTIVITY | | C | | | | | | D |
| | | Emissions by Fuel (kg) | | | | | | Emissions (Gg) |
| | | C1 | C2 | C3 | C4 | C5 | C6 | |
| | | Coal | Natural Gas | Oil | Wood / Wood Waste | Charcoal | Other Biomass and Wastes | D = sum (C1...C6)/ 1 000 000 |
| Energy Industries | | 0,00 | 9 065 323,99 | 406 625,70 | 0,00 | 0,00 | 0,00 | 9,47 |
| Manufacturing Industries and Construction | | 1 507 248,00 | 1 703 895,00 | 205 502,96 | 0,00 | 0,00 | 0,00 | 3,42 |
| Transport | Domestic Aviation ^(a) | | | 1 281 204,47 | | | | 1,28 |
| | Road | | | 813768704 | | | | 813,77 |
| | | | | 43074786,3 | | | | 43,07 |
| | | | | 4 169 903,40 | | | | 4,17 |
| | Railways | 0,00 | | 2 926 508,20 | | | | 2,93 |
| | National Navigation ^(a) | 0,00 | | 18 834 899,90 | | | | 18,83 |
| Pipeline transport | | | | | | | | |
| Other Sectors | Commercial/Institutional | 0,00 | | | | | | |
| | Residential | | 3 768 937,40 | 2 331 819,27 | 11 304 360,00 | 0,00 | 0,00 | 17,41 |
| | Agriculture / Forestry / Fishing | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| | | | 0,00 | 0,00 | 0,00 | | | 0,00 |
| Other (not elsewhere specified) | | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| Total ^(a) | | 1 507 248,00 | 14 538 156,39 | 886 999 954,20 | 11 304 360,00 | 0,00 | 0,00 | 914,35 |
| Memo: Intern. Marine Bunkers | | 0,00 | | 5 296 165,60 | | | | 5,30 |
| Memo: Intern. Aviation Bunkers | | | | 110 538,61 | | | | 0,11 |

| | | | | | | | | |
|--|------------------------------------|--|--------------------|------------|--------------------------|-----------------|---------------------------------|--|
| MODULE | | ENERGY | | | | | | |
| SUBMODULE | | NON-CO₂ FROM FUEL COMBUSTION BY SOURCE CATEGORIES (TIER 1) | | | | | | |
| WORKSHEET | | 1-3 | | | | | | |
| SHEETS | | 2 OF 3 NMVOC | | | | | | |
| COUNTRY | | ALGERIA | | | | | | |
| YEAR | | 1994 | | | | | | |
| | | STEP 2 | | | | | | |
| ACTIVITY | | B | | | | | | |
| | | Emission Factors (kg/TJ) | | | | | | |
| | | B1 | B2 | B3 | B4 | B5 | B6 | |
| | | Coal | Natural Gas | Oil | Wood / Wood Waste | Charcoal | Other Biomass and Wastes | |
| Energy Industries | | 5 | 5 | 5 | 50 | 100 | 50 | |
| Manufacturing Industries and Construction | | 20 | 5 | 5 | 50 | 100 | 50 | |
| Transport | Domestic Aviation ^(a) | | | 50 | | | | |
| | Road | Gasoline | | | 1500 | | | |
| | | Diesel | | | 200 | | | |
| | | LPG | | | 600 | | | |
| | Railways | | | 200 | | | | |
| | National Navigation ^(a) | | | 200 | | | | |
| Pipeline transport | | | | | | | | |
| Other Sectors | Commercial/Institutional | | | | | | | |
| | Residential | 200 | 5 | 5 | 600 | 100 | 600 | |
| | Agriculture / Forestry / Fishing | Stationary | | | | | | |
| | | Mobile | | | | | | |
| Other (not elsewhere specified) | | | | | | | | |
| Total ^(a) | | | | | | | | |
| Memo: International Marine Bunkers | | | | 200 | | | | |
| Memo: International Aviation Bunkers | | | | 50 | | | | |

| MODULE | | ENERGY | | | | | | |
|--|------------------------------------|--|---------------------|-----------------------|---------------------|-------------|--------------------------|-------------------------|
| SUBMODULE | | NON-CO ₂ FROM FUEL COMBUSTION BY SOURCE CATEGORIES (TIER 1) | | | | | | |
| WORKSHEET | | 1-3 | | | | | | |
| SHEETS | | 3 OF 3 NMC0V | | | | | | |
| COUNTRY | | ALGERIA | | | | | | |
| YEAR | | 1994 | | | | | | |
| | | STEP 3 | | | | | | |
| ACTIVITY | | C | | | | | D | |
| | | Emissions by Fuel (kg) | | | | | Emissions (Gg) | |
| | | C1 | C2 | C3 | C4 | C5 | C6 | D = sum |
| | | Coal | Natural Gas | Oil | Wood / Wood Waste | Charcoal | Other Biomass and Wastes | (C1...C6)/ 1 000 000 |
| Energy Industries | | 0,00 | 2 266 331,00 | 135 541,90 | 0,00 | 0,00 | 0,00 | 2,40 |
| Manufacturing Industries and Construction | | 200 966,40 | 283 982,50 | 102 751,48 | 0,00 | 0,00 | 0,00 | 0,59 |
| Transport | Domestic Aviation ^(a) | | | 640 602,24 | | | | 0,64 |
| | Road | | | 152581632 | | | | 152,58 |
| | | | | 8614957,26 | | | | 8,61 |
| | | | | 962 285,40 | | | | 0,96 |
| | Railways | 0,00 | | 585 301,64 | | | | 0,59 |
| | National Navigation ^(a) | 0,00 | | 3 766 979,98 | | | | 3,77 |
| Pipeline transport | | | | | | | 0,00 | |
| Other Sectors | Commercial/Institutional | | | | | | | |
| | Residential | 0,00 | 376 893,74 | 582 954,82 | 1 356 523,20 | 0,00 | 0,00 | 2,32 |
| | Agriculture / Forestry / Fishing | | | | | | | |
| Other (not elsewhere specified) | | | | | | | | |
| Total ^(a) | | 200 966,40 | 2 927 207,24 | 167 973 006,71 | 1 356 523,20 | 0,00 | 0,00 | 172,46 |
| Memo: Intern. Marine Bunkers | | 0,00 | | 1 059 233,12 | | | | 1,06 |
| Memo: Intern. Aviation Bunkers | | | | 55 269,31 | | | | 0,06 |

| MODULE | | ENERGY | | | | | | | |
|--------------------------------------|--------|--|--|------------------------------|--------------------------|--|--|-------------------------|----------------|
| SUBMODULE | | SO ₂ EMISSIONS FROM FUEL COMBUSTION BY SOURCE CATEGORIES (TIER 1) | | | | | | | |
| WORKSHEET | | 1-4 | | | | | | | |
| SHEETS | | 1 OF 6 NATIONAL | | | | | | | |
| COUNTRY | | ALGERIA | | | | | | | |
| YEAR | | 1994 | | | | | | | |
| | | STEP 1 | | STEP 2 | | | STEP 3 | | |
| | | A | B | C | D | E | F | G | H |
| | | Fuel Consumption (TJ) | Sulphur content of fuel ^(b) (%) | Sulphur retention in ash (%) | Abatement efficiency (%) | Net Calorific Value ^(b) (TJ/kt) | SO ₂ Emission Factor ^(b) (kg/TJ) | Emissions (t) | Emissions (Gg) |
| FUEL TYPE | | | | | | | $F=2 \times (B/100) \times (1/E) \times 1\,000\,000 \times ((100-C)/100) \times ((100-D)/100)$ | $G=(A \times F)/1\,000$ | $H=G/1000$ |
| Coal | low | | | | | | 0,00 | 0,00 | 0,00 |
| | medium | | | | | | | | |
| | high | | 3 | 1 | 30 | 27,2 | 1 528,68 | 0,00 | 0,00 |
| Heavy Fuel Oil | low | | | | | | 0,00 | 0,00 | 0,00 |
| | medium | 3881,16 | 3,5 | 0,5 | 45 | 40,19 | 953,16 | 3 699,37 | 3,70 |
| | high | | | | | | 0,00 | 0,00 | 0,00 |
| Light Fuel Oil / Diesel | low | | | | | | 0,00 | 0,00 | 0,00 |
| | high | 96801,25 | 0,3 | 0,5 | 45 | 43,33 | 75,78 | 7 335,49 | 7,34 |
| Diesel (road) | | 43077,99 | 0,1 | 0,5 | | 43,33 | 45,93 | 1 978,43 | 1,98 |
| Gasoline (road) | | 101718,31 | 0,001 | 0,5 | 1 | 44,8 | 0,44 | 44,73 | 0,04 |
| Jet Kerosene | | 12811,608 | 0,005 | 0,5 | 0 | 44,59 | 2,23 | 28,59 | 0,03 |
| Oil Shale | | | | | | | 0,00 | 0,00 | 0,00 |
| Other Oil | | | | | | | 0,00 | 0,00 | 0,00 |
| Natural Gas ^(b) | | 591 427,37 | 0 | 0 | 45 | 43,1 | 0,00 | 0,00 | 0,00 |
| Municipal Waste | | | | | | | 0,00 | 0,00 | 0,00 |
| Industrial Waste | | | | | | | 0,00 | 0,00 | 0,00 |
| Black Liquor | | | | | | | 0,00 | 0,00 | 0,00 |
| Fuelwood | | 2260,872 | 0,2 | 0 | 1 | 14,65 | 270,31 | 611,13 | 0,61 |
| Other Biomass | | | | | | | 0,00 | 0,00 | 0,00 |
| Total | | 851978,56 | | | | | | 13 697,73 | 13,70 |
| Memo: International Marine Bunkers | | 5296,3 | 0,1 | 1 | 1 | 43,3 | 45,27 | 239,76 | 0,02 |
| Memo: International Aviation Bunkers | | 1105,32 | 0,005 | 1 | 1 | 44,59 | 43,96 | 48,59 | 0,00 |

| MODULE | | ENERGY | | | | | | | |
|----------------------------|--------|--|--|------------------------------|--------------------------|--|--|-----------------|----------------|
| SUBMODULE | | SO ₂ EMISSIONS FROM FUEL COMBUSTION BY SOURCE CATEGORIES (TIER 1) | | | | | | | |
| WORKSHEET | | 1-4 | | | | | | | |
| SHEETS | | 2 OF 6 ENERGY INDUSTRIES | | | | | | | |
| COUNTRY | | ALGERIA | | | | | | | |
| YEAR | | 1994 | | | | | | | |
| | | STEP 1 | | STEP 2 | | | | STEP 3 | |
| | | A | B | C | D | E | F | G | H |
| | | Fuel Consumption (TJ) | Sulphur content of fuel ^(b) (%) | Sulphur retention in ash (%) | Abatement efficiency (%) | Net Calorific Value ^(b) (TJ/kt) | SO ₂ Emission Factor ^(b) (kg/TJ) | Emissions (t) | Emissions (Gg) |
| FUEL TYPE | | | | | | | $F=2 \times (B/100) \times (1/E) \times 1\,000\,000 \times ((100-C)/100) \times ((100-D)/100)$ | $G=(Ax F)/1000$ | $H=G/1000$ |
| Coal | low | | | | | | 0,00 | 0,00 | 0,00 |
| | medium | | | | | | | | |
| | high | | 3 | 1 | 30 | 27,2 | 1 528,68 | 0,00 | 0,00 |
| Heavy Fuel Oil | low | | | | | | 0,00 | 0,00 | 0,00 |
| | medium | | 3,5 | 0,5 | 45 | 40,19 | 953,16 | 0,00 | 0,00 |
| | high | | | | | | 0,00 | 0,00 | 0,00 |
| Light Fuel Oil / Diesel | low | | | | | | 0,00 | 0,00 | 0,00 |
| | high | 10178,1 | 0,3 | 0,5 | 45 | 43,33 | 75,78 | 771,30 | 0,77 |
| Diesel (road) | | | 0,1 | 0,5 | | 43,33 | 45,93 | 0,00 | 0,00 |
| Gasoline (road) | | | 0,001 | 0,5 | 1 | 44,8 | 0,44 | 0,00 | 0,00 |
| Jet Kerosene | | | 0,005 | 0,5 | 0 | 44,59 | 2,23 | 0,00 | 0,00 |
| Oil Shale | | | | | | | 0,00 | 0,00 | 0,00 |
| Other Oil | | | | | | | 0,00 | 0,00 | 0,00 |
| Natural Gas ^(b) | | 457 910,32 | 0 | 0 | 45 | 43,1 | 0,00 | 0,00 | 0,00 |
| Municipal Waste | | | | | | | 0,00 | 0,00 | 0,00 |
| Industrial Waste | | | | | | | 0,00 | 0,00 | 0,00 |
| Black Liquor | | | | | | | 0,00 | 0,00 | 0,00 |
| Fuelwood | | | 0,2 | 0 | 1 | 14,65 | 270,31 | 0,00 | 0,00 |
| Other Biomass | | | | | | | 0,00 | 0,00 | 0,00 |
| Total | | 468 088,42 | | | | | | 771,30 | 0,77 |

| MODULE | | ENERGY | | | | | | | |
|----------------------------|--------|--|---|---------------------------------------|--------------------------------|---|--|-----------------------|-------------------|
| SUBMODULE | | SO ₂ EMISSIONS FROM FUEL COMBUSTION BY SOURCE CATEGORIES (TIER 1) | | | | | | | |
| WORKSHEET | | 1-4 | | | | | | | |
| SHEETS | | 3 OF 6 MANUFACTURING INDUSTRIES AND CONSTRUCTION | | | | | | | |
| COUNTRY | | ALGERIA | | | | | | | |
| YEAR | | 1994 | | | | | | | |
| | | STEP 1 | | STEP 2 | | | | STEP 3 | |
| | | A | B | C | D | E | F | G | H |
| | | Fuel Consumption (TJ) | Sulphur content of fuel ^(b) (%) | Sulphur retention in ash (%) | Abatement efficiency (%) | Net Calorific Value ^(b) (TJ/kt) | SO ₂ Emission Factor ^(b) (kg/TJ) | Emissions (t) | Emissions (Gg) |
| FUEL TYPE | | | | | | | $F=2 \times (B/100) \times (1/E) \times 1\,000\,000 \times ((100-C)/100) \times ((100-D)/100)$ | $G=(A \times F)/1000$ | $H=G/1000$ |
| Coal | low | | | | | | 0,00 | 0,00 | 0,00 |
| | medium | | | | | | | | |
| | high | | 3 | 1 | 30 | 27,2 | 1 528,68 | 0,00 | 0,00 |
| Heavy Fuel Oil | low | | | | | | 0,00 | 0,00 | 0,00 |
| | medium | 1674,72 | 3,5 | 0,5 | 45 | 40,19 | 953,16 | 1 596,28 | 1,60 |
| | high | | | | | | 0,00 | 0,00 | 0,00 |
| Light Fuel Oil / Diesel | low | | | | | | 0,00 | 0,00 | 0,00 |
| | high | 17777,15 | 0,3 | 0,5 | 45 | 43,33 | 75,78 | 1 347,13 | 1,35 |
| Diesel (road) | | | 0,1 | 0,5 | | 43,33 | 45,93 | 0,00 | 0,00 |
| Gasoline (road) | | | 0,001 | 0,5 | 1 | 44,8 | 0,44 | 0,00 | 0,00 |
| Jet Kerosene | | | 0,005 | 0,5 | 0 | 44,59 | 2,23 | 0,00 | 0,00 |
| Oil Shale | | | | | | | 0,00 | 0,00 | 0,00 |
| Other Oil | | | | | | | 0,00 | 0,00 | 0,00 |
| Natural Gas ^(b) | | 57 359,16 | 0 | 0 | 45 | 43,1 | 0,00 | 0,00 | 0,00 |
| Municipal Waste | | | | | | | 0,00 | 0,00 | 0,00 |
| Industrial Waste | | | | | | | 0,00 | 0,00 | 0,00 |
| Black Liquor | | | | | | | 0,00 | 0,00 | 0,00 |
| Fuelwood | | | 0,2 | 0 | 1 | 14,65 | 270,31 | 0,00 | 0,00 |
| Other Biomass | | | | | | | 0,00 | 0,00 | 0,00 |
| Total | | 76 811,03 | | | | | | 2 943,41 | 2,94 |

| MODULE | | ENERGY | | | | | | | |
|----------------------------|--------|--|--|------------------------------|--------------------------|--|--|-----------------------|----------------|
| SUBMODULE | | SO ₂ EMISSIONS FROM FUEL COMBUSTION BY SOURCE CATEGORIES (TIER 1) | | | | | | | |
| WORKSHEET | | 1-4 | | | | | | | |
| SHEETS | | 4 OF 6 TRANSPORT | | | | | | | |
| COUNTRY | | ALGERIA | | | | | | | |
| YEAR | | 1994 | | | | | | | |
| | | STEP 1 | | STEP 2 | | | | STEP 3 | |
| | | A | B | C | D | E | F | G | H |
| | | Fuel Consumption (TJ) | Sulphur content of fuel ^(b) (%) | Sulphur retention in ash (%) | Abatement efficiency (%) | Net Calorific Value ^(b) (TJ/kt) | SO ₂ Emission Factor ^(b) (kg/TJ) | Emissions (t) | Emissions (Gg) |
| FUEL TYPE | | | | | | | $F=2 \times (B/100) \times (1/E) \times 1\,000\,000 \times ((100-C)/100) \times ((100-D)/100)$ | $G=(A \times F)/1000$ | $H=G/1000$ |
| Coal | low | | | | | | 0,00 | 0,00 | 0,00 |
| | medium | | | | | | | | |
| | high | | 3 | 1 | 30 | 27,2 | 1 528,68 | 0,00 | 0,00 |
| Heavy Fuel Oil | low | | | | | | 0,00 | 0,00 | 0,00 |
| | medium | 2206,44 | 3,5 | 0,5 | 45 | 40,19 | 953,16 | 2 103,09 | 2,10 |
| | high | | | | | | 0,00 | 0,00 | 0,00 |
| Light Fuel Oil | low | | | | | | 0,00 | 0,00 | 0,00 |
| Diesel | high | 14087 | 0,3 | 0,5 | 45 | 43,33 | 75,78 | 1 067,50 | 1,07 |
| Diesel (road) | | 43077,98 | 0,1 | 0,5 | | 43,33 | 45,93 | 1 978,43 | 1,98 |
| Gasoline (road) | | 101735,05 | 0,001 | 0,5 | 1 | 44,8 | 0,44 | 44,74 | 0,04 |
| Jet Kerosene | | 12811,608 | 0,005 | 0,5 | 0 | 44,59 | 2,23 | 28,59 | 0,03 |
| Oil Shale | | | | | | | 0,00 | 0,00 | 0,00 |
| Other Oil | | | | | | | 0,00 | 0,00 | 0,00 |
| Natural Gas ^(b) | | | 0 | 0 | 45 | 43,1 | 0,00 | 0,00 | 0,00 |
| Municipal Waste | | | | | | | 0,00 | 0,00 | 0,00 |
| Industrial Waste | | | | | | | 0,00 | 0,00 | 0,00 |
| Black Liquor | | | | | | | 0,00 | 0,00 | 0,00 |
| Fuelwood | | | 0,2 | 0 | 1 | 14,65 | 270,31 | 0,00 | 0,00 |
| Other Biomass | | | | | | | 0,00 | 0,00 | 0,00 |
| Total | | 173918,078 | | | | | | 5 222,34 | 5,22 |

| MODULE | | ENERGY | | | | | | | |
|----------------------------|--------|--|---|--|--------------------------------|---|--|-----------------------|-------------------|
| SUBMODULE | | SO ₂ EMISSIONS FROM FUEL COMBUSTION BY SOURCE CATEGORIES (TIER 1) | | | | | | | |
| WORKSHEET | | I-4 | | | | | | | |
| SHEET | | 5 OF 6 RESIDENTIAL/TERTIARY SECTOR/AGRICULTURE | | | | | | | |
| COUNTRY | | ALGERIA | | | | | | | |
| YEAR | | 1994 | | | | | | | |
| | | STEP 1 | | STEP 2 | | | | STEP 3 | |
| | | A | B | C | D | E | F | G | H |
| | | Fuel Consumption (TJ) | Sulphur content of fuel ^(b) (%) | Sulphur retention in ash (%) | Abatement efficiency (%) | Net Calorific Value ^(b) (TJ/kt) | SO ₂ Emission Factor ^(b) (kg/TJ) | Emissions (t) | Emissions (Gg) |
| FUEL TYPE | | | | | | | $F=2 \times (B/100) \times (1/E) \times 1000000 \times ((100-C)/100) \times ((100-D)/100)$ | $G=(A \times F)/1000$ | $H=G/1000$ |
| Coal | low | | | | | | 0,00 | 0,00 | 0,00 |
| | medium | | | | | | | | |
| | high | | 3 | 1 | 30 | 27,2 | 1 528,68 | 0,00 | 0,00 |
| Heavy Fuel Oil | low | | | | | | 0,00 | 0,00 | 0,00 |
| | medium | | 3,5 | 0,5 | 45 | 40,19 | 953,16 | 0,00 | 0,00 |
| | high | | | | | | 0,00 | 0,00 | 0,00 |
| Light Fuel Oil / Diesel | low | | | | | | 0,00 | 0,00 | 0,00 |
| | high | 54759 | 0,3 | 0,5 | 45 | 43,33 | 75,78 | 4 149,58 | 4,15 |
| Diesel (road) | | | 0,1 | 0,5 | | 43,33 | 45,93 | 0,00 | 0,00 |
| Gasoline (road) | | | 0,001 | 0,5 | 1 | 44,8 | 0,44 | 0,00 | 0,00 |
| Jet Kerosene | | | 0,005 | 0,5 | 0 | 44,59 | 2,23 | 0,00 | 0,00 |
| Oil Shale | | | | | | | 0,00 | 0,00 | 0,00 |
| Other Oil | | | | | | | 0,00 | 0,00 | 0,00 |
| Natural Gas ^(b) | | 76 157,89 | 0 | 0 | 45 | 43,1 | 0,00 | 0,00 | 0,00 |
| Municipal Waste | | | | | | | 0,00 | 0,00 | 0,00 |
| Industrial Waste | | | | | | | 0,00 | 0,00 | 0,00 |
| Black Liquor | | | | | | | 0,00 | 0,00 | 0,00 |
| Fuelwood | | 2260,872 | 0,2 | 0 | 1 | 14,65 | 270,31 | 611,13 | 0,61 |
| Other Biomass | | | | | | | 0,00 | 0,00 | 0,00 |
| Total | | 133 177,76 | | | | | | 4 760,71 | 4,76 |

| MODULE | | ENERGY | | | | | | | |
|----------------------------|--------|--|--|------------------------------|--------------------------|--|--|-----------------------|----------------|
| SUBMODULE | | SO ₂ EMISSIONS FROM FUEL COMBUSTION BY SOURCE CATEGORIES (TIER 1) | | | | | | | |
| WORKSHEET | | 1-4 | | | | | | | |
| SHEETS | | 6 OF 6 INTERNATIONAL BUNKERS | | | | | | | |
| COUNTRY | | ALGERIA | | | | | | | |
| YEAR | | 1994 | | | | | | | |
| | | STEP 1 | | STEP 2 | | | | STEP 3 | |
| | | A | B | C | D | E | F | G | H |
| | | Fuel Consumption (TJ) | Sulphur content of fuel ^(b) (%) | Sulphur retention in ash (%) | Abatement efficiency (%) | Net Calorific Value ^(b) (TJ/kt) | SO ₂ Emission Factor ^(b) (kg/TJ) | Emissions (t) | Emissions (Gg) |
| FUEL TYPE | | | | | | | $F=2 \times (B/100) \times (1/E) \times 1\,000\,000 \times ((100-C)/100) \times ((100-D)/100)$ | $G=(A \times F)/1000$ | $H=G/1000$ |
| Coal | low | | | | | | 0,00 | 0,00 | 0,00 |
| | medium | | | | | | | | |
| | high | | 3 | 1 | 30 | 27,2 | 1 528,68 | 0,00 | 0,00 |
| Heavy Fuel Oil | low | | | | | | 0,00 | 0,00 | 0,00 |
| | medium | | 3,5 | 0,5 | 45 | 40,19 | 953,16 | 0,00 | 0,00 |
| | high | | | | | | 0,00 | 0,00 | 0,00 |
| Light Fuel Oil / Diesel | low | | | | | | 0,00 | 0,00 | 0,00 |
| | high | 1046,7 | 0,3 | 0,5 | 45 | 43,33 | 75,78 | 79,32 | 0,08 |
| Diesel (road) | | | 0,1 | 0,5 | | 43,33 | 45,93 | 0,00 | 0,00 |
| Gasoline (road) | | | 0,001 | 0,5 | 1 | 44,8 | 0,44 | 0,00 | 0,00 |
| Jet Kerosene | | 1105,315 | 0,005 | 0,5 | 0 | 44,59 | 2,23 | 2,47 | 0,00 |
| Oil Shale | | | | | | | 0,00 | 0,00 | 0,00 |
| Other Oil | | | | | | | 0,00 | 0,00 | 0,00 |
| Natural Gas ^(b) | | | 0 | 0 | 45 | 43,1 | 0,00 | 0,00 | 0,00 |
| Municipal Waste | | | | | | | 0,00 | 0,00 | 0,00 |
| Industrial Waste | | | | | | | 0,00 | 0,00 | 0,00 |
| Black Liquor | | | | | | | 0,00 | 0,00 | 0,00 |
| Fuelwood | | | 0,2 | 0 | 1 | 14,65 | 270,31 | 0,00 | 0,00 |
| Other Biomass | | | | | | | 0,00 | 0,00 | 0,00 |
| Total | | 2152,015 | | | | | | 81,78 | 0,08 |

| MODULE | | ENERGY | | |
|--|---|--|---|--|
| SUBMODULE | | METHANE EMISSIONS FROM OIL AND GAS ACTIVITIES (TIER 1) | | |
| WORKSHEET | | 1-7 | | |
| SHEETS | | 1 OF 1 | | |
| COUNTRY | | ALGERIA | | |
| YEAR | | 1994 | | |
| Category | A Activity | B Emission Factor | C CH ₄ Emissions (Kg CH ₄) | D Emissions CH ₄ (Gg CH ₄) |
| | | | C = (A x B) | D = (C / 1 000 000) |
| OIL | | | | |
| Exploration <i>(Optional if data is locally available)^(a)</i> | number of wells drilled 28 | Kg CH ₄ /well drilled | 0,00 | 0,00 |
| Production ^(b) | PJ oil produced 2569,43916 | Kg CH ₄ / PJ 2500 | 6 423 597,90 | 6,42 |
| Transport | PJ oil loaded in tankers 2203,136028 | Kg CH ₄ / PJ 745 | 1 641 336,34 | 1,64 |
| Refining | PJ oil refined 891,034776 | Kg CH ₄ / PJ refined 750 | 668 276,08 | 0,67 |
| Storage | PJ oil refined 891,034776 | 150 | 133 655,22 | 0,13 |
| TOTAL CH₄ FROM OIL | | | | 8,87 |
| GAS | | | | |
| Production ^(b) / Processing | PJ gas produced 2503,650088 | Kg CH ₄ / PJ 70000 | 175 255 506,16 | 175,26 |
| Transmission and Distribution | PJ gas transported by gazoduc 534,779964 | 6805 | 3 639 177,66 | 3,64 |
| | PJ gas consumed 1416,938724 | Kg CH ₄ / PJ 118000 | 167 198 769,43 | 167,20 |
| Other Leakage | - non-residential gas consumed 329,794236 | 175000 | 57 713 991,30 | 57,71 |
| | - Residential gas consumed 76,157892 | 87000 | 6 625 736,60 | 6,63 |
| TOTAL CH₄ FROM GAS | | | | 410,44 |
| VENTING AND FLARING FROM OIL/GAS PRODUCTION ^(c) | PJ oil and gas produced - Oil 1832,227416 | Kg CH ₄ / PJ 8500 | 15 573 933,04 | 15,57 |
| | - Gas 2503,650088 | 30000 | 75 109 502,64 | 75,11 |
| | - Combined | | 0,00 | 0,00 |
| TOTAL CH₄ FROM OIL AND GAS | | | | 90,68 |

| | | | | |
|------------------------------|-----------------|--|------------------|-------------------|
| MODULE | | ENERGY | | |
| SUBMODULE | | OZONE PRECURSORS AND SO₂ FROM OIL REFINING | | |
| WORKSHEET | | 1-8 OZONE PRECURSORS AND SO₂ FROM REFINING | | |
| SHEETS | | 1 of 4 | | |
| COUNTRY | | ALGERIA | | |
| YEAR | | 1994 | | |
| | | | | |
| A | B | C | D | E |
| Crude Oil Throughput (kt) | Pollutant | Emission factor ^(a) (kg/t) | Emissions (t) | Emissions (Gg) |
| | | | D=(AxC) | E=D/1000 |
| 19348 | CO | 0,09 | 1 741,32 | 1,74 |
| | NO _x | 0,06 | 1 160,88 | 1,16 |
| | NM VOC | 0,62 | 11 995,76 | 12,00 |
| | SO ₂ | 0,93 | 17 993,64 | 17,99 |

ANNEXE 2

PROCEDES INDUSTRIELS

| | | | |
|--|---|--|---|
| MODULE | INDUSTRIAL PROCESSES | | |
| SUBMODULE | CEMENT PRODUCTION | | |
| WORKSHEET | 2-1 | | |
| SHEET | 1 OF 2 CO₂ EMISSIONS | | |
| COUNTRY | ALGERIA | | |
| YEAR | 1994 | | |
| STEP 1 | | | |
| A Quantity of Clinker or Cement Produced (t) | B Emission Factor (t CO ₂ /t clinker or cement produced) | C CO ₂ Emitted (t) | D CO ₂ Emitted (Gg) |
| | | $C = (A \times B)$ | $D = C/1000$ |
| 5067417 | 0,5071 | 2 569 687,16 | 2 569,69 |

| | | | |
|---|---|---|---|
| MODULE | INDUSTRIAL PROCESSES | | |
| SUBMODULE | CEMENT PRODUCTION | | |
| WORKSHEET | 2-1 | | |
| SHEET | 2 OF 2 SO₂ EMISSIONS | | |
| COUNTRY | ALGERIA | | |
| YEAR | 1994 | | |
| STEP 2 | | | |
| A Quantity of Cement Produced (t) | B Emission Factor (kg SO ₂ /t cement produced) | C SO ₂ Emitted (kg) | D SO ₂ Emitted (Gg) |
| | | $C = (A \times B)$ | $D = C/1\ 000\ 000$ |
| 6099755 | 0,3 | 1 829 926,50 | 1,83 |

| MODULE | INDUSTRIAL PROCESSES | | | |
|--------------------|--|---|--|--|
| SUBMODULE | PRODUCTION OF LIME | | | |
| WORKSHEET | 2-2 | | | |
| SHEET | 1 OF 1 CO₂ EMISSIONS | | | |
| COUNTRY | ALGERIA | | | |
| YEAR | 1994 | | | |
| | | | | |
| Lime Type | A Quantity of Lime Produced (t) | B Emission Factor (t CO ₂ /t quicklime or dolomitic lime produced) | C CO ₂ Emitted (t) C = (A x B) | D CO ₂ Emitted (Gg) D = C/1000 |
| Quicklime | 44080 | 0,79 | 34 823,20 | 34,82 |
| Dolomitic Lime | | | 0,00 | 0,00 |
| Total (Gg): | | | | 34,82 |

| MODULE | INDUSTRIAL PROCESSES | | | |
|--------------------|--|---|---|---|
| SUBMODULE | LIMESTONE AND DOLOMITE USE | | | |
| WORKSHEET | 2-3 | | | |
| SHEET | 1 OF 1 CO₂ EMISSIONS | | | |
| COUNTRY | ALGERIA | | | |
| YEAR | 1994 | | | |
| | | | | |
| Material Type | A Quantity of Limestone or Dolomite Used (t) | B Emission Factor (kg CO ₂ /t limestone or dolomite used) | C CO ₂ Emitted (kg) C = (A x B) | D CO ₂ Emitted (Gg) D = C/ 1000 000 |
| Limestone | 5648 | 440 | 2 485 120,00 | 2,49 |
| Dolomite | 2699 | 477 | 1 287 423,00 | 1,29 |
| Total (Gg): | | | | 3,77 |

| | | | |
|--|---|-------------------------------------|--------------------------------------|
| MODULE | INDUSTRIAL PROCESSES | | |
| SUBMODULE | SODA ASH PRODUCTION AND USE | | |
| WORKSHEET | 2-4 | | |
| SHEET | 1 OF 2 SODA ASH PRODUCTION- CO ₂ - EMISSIONS | | |
| COUNTRY | ALGERIA | | |
| YEAR | 1994 | | |
| STEP 1 | | | |
| A Quantity of Trona Utilised (t) | B Emission Factor (t CO ₂ /t trona utilised) | C CO ₂ Emitted (t) | D CO ₂ Emitted (Gg) |
| | | C = (A x B) | D = C/1000 |
| 7264 | 0,097 | 704,61 | 0,70 |

| | | | |
|---------------------------------------|---|--------------------------------------|--------------------------------------|
| MODULE | INDUSTRIAL PROCESSES | | |
| SUBMODULE | SODA ASH PRODUCTION AND USE | | |
| WORKSHEET | 2-4 | | |
| SHEET | 2 OF 2 SODA ASH USE - CO ₂ EMISSIONS | | |
| COUNTRY | ALGERIA | | |
| YEAR | 1994 | | |
| STEP 2 | | | |
| A Quantity of Soda Ash Used (t) | B Emission Factor (kg CO ₂ /t soda ash used) | C CO ₂ Emitted (kg) | D CO ₂ Emitted (Gg) |
| | | C = (A x B) | D = C/1 000 000 |
| 1686 | 415 | 699 690,00 | 0,70 |

| | | | | |
|--------------------|---|---|----------------------------|----------------------------|
| MODULE | INDUSTRIAL PROCESSES | | | |
| SUBMODULE | PRODUCTION AND USE OF MISCELLANEOUS MINERAL PRODUCTS | | | |
| WORKSHEET | 2-5 | | | |
| SHEET | 1 OF 5 ASPHALT ROOFING PRODUCTION - NMVOC EMISSIONS | | | |
| COUNTRY | ALGERIA | | | |
| YEAR | 1994 | | | |
| STEP 1 | | | | |
| Process Type | A Quantity of Asphalt Roofing Produced (t) | B Emission Factor (kg NMVOC/t asphalt roofing produced) | C NMVOC Emitted (kg) | D NMVOC Emitted (Gg) |
| | | | C = (A x B) | D = C/1 000 000 |
| Saturation Process | 17000 | 2,4 | 40 800,00 | 0,04 |
| | | | Total (Gg): | 0,04 |

| | | | |
|--|---|-----------------------------|-----------------------------|
| MODULE | INDUSTRIAL PROCESSES | | |
| SUBMODULE | PRODUCTION AND USE OF MISCELLANEOUS MINERAL PRODUCTS | | |
| WORKSHEET | 2-5 | | |
| SHEET | 2 OF 5 ASPHALT ROOFING PRODUCTION - CO EMISSIONS | | |
| COUNTRY | ALGERIA | | |
| YEAR | 1994 | | |
| STEP 2 | | | |
| A Quantity of Asphalt Roofing Produced (t) | B Emission Factor (kg CO /t asphalt roofing produced) | C CO Emitted (kg) | D CO Emitted (Gg) |
| | | $C = (A \times B)$ | $D = C/1\ 000\ 000$ |
| 17000 | 0,0095 | 161,50 | 0,00 |

| | | | | |
|--------------------|---|--|--------------------------------|--------------------------------|
| MODULE | INDUSTRIAL PROCESSES | | | |
| SUBMODULE | PRODUCTION AND USE OF MISCELLANEOUS MINERAL PRODUCTS | | | |
| WORKSHEET | 2-5 | | | |
| SHEET | 3 OF 5 ROAD PAVING WITH ASPHALT- NMVOC EMISSIONS | | | |
| COUNTRY | ALGERIA | | | |
| YEAR | 1994 | | | |
| STEP 3 | | | | |
| Emission Source | A Quantity of Road Paving Material Used (t) | B Emission Factor (kg NMVOC/t road paving material used) | C NMVOC Emitted (kg) | D NMVOC Emitted (Gg) |
| | | | $C = (A \times B)$ | $D = C/1\ 000\ 000$ |
| Asphalt Plant | | | 0,00 | 0,00 |
| Road Surface | 210000 | 320 | 67 200 000,00 | 67,20 |
| Total (Gg): | | | | 67,20 |

| | | | | |
|--------------------|--|--|---|---|
| MODULE | INDUSTRIAL PROCESSES | | | |
| SUBMODULE | PRODUCTION AND USE OF MISCELLANEOUS MINERAL PRODUCTS | | | |
| WORKSHEET | 2-5 | | | |
| SHEET | 4 OF 5 PRODUCTION OF OTHER MINERAL PRODUCTS - GLASS PRODUCTION - NMVOC EMISSIONS | | | |
| COUNTRY | ALGERIA | | | |
| YEAR | 1994 | | | |
| STEP 4 | | | | |
| Glass Type | A Quantity of Glass Produced (t) | B Emission Factor (kg NMVOC/t glass produced) | C NMVOC Emitted (kg) C = (A x B) | D NMVOC Emitted (Gg) D = C/1 000 000 |
| Container Glass | 29194 | 4,5 | 131 373,00 | 0,13 |
| Total (Gg): | | | | 0,13 |

| | | | | |
|---|---|-----------------------|---|---|
| MODULE | INDUSTRIAL PROCESSES | | | |
| SUBMODULE | AMMONIA PRODUCTION | | | |
| WORKSHEET | 2-6 | | | |
| SHEET | 1 OF 3 TIER 1a - CO ₂ EMISSIONS | | | |
| COUNTRY | ALGERIA | | | |
| YEAR | 1994 | | | |
| STEP 1 | | | | |
| A Amount of Gas Consumed (m ³) | B Carbon Content of Gas (kg/m ³) | C Conversion Ratio | D CO ₂ Emitted (kg) D = (A x B x C) | E CO ₂ Emitted (Gg) E = D/1 000 000 |
| 286018635 | 0,525 | 44/12 | 550 585 872,38 | 550,59 |

| | | | | |
|---|--|--|---|--|
| MODULE | INDUSTRIAL PROCESSES | | | |
| SUBMODULE | AMMONIA PRODUCTION | | | |
| WORKSHEET | 2-6 | | | |
| SHEET | 2 OF 3 TIER 1b - CO ₂ EMISSIONS | | | |
| COUNTRY | ALGERIA | | | |
| YEAR | 1994 | | | |
| STEP 2 | | | | |
| A Amount of Ammonia Produced (t) | B Emission Factor (t CO ₂ /t ammonia produced) | C CO ₂ Emitted (t) C = (A x B) | D CO ₂ Emitted (Gg) D = C/1000 | |
| 295627 | 1,5 | 443 440,50 | 443,44 | |

| | | | |
|---|---|---------------------------------------|---------------------------------------|
| MODULE | INDUSTRIAL PROCESSES | | |
| SUBMODULE | AMMONIA PRODUCTION | | |
| WORKSHEET | 2-6 | | |
| SHEET | 3 OF 3 NMVOC, CO AND SO ₂ EMISSIONS | | |
| COUNTRY | ALGERIA | | |
| YEAR | 1994 | | |
| STEP 3 | | | |
| A Amount of Ammonia Produced (t) | B Emission Factor (kg pollutant/ t ammonia produced) | C Pollutant Emitted (kg) | D Pollutant Emitted (Gg) |
| | | C = (A x B) | D = C/1 000 000 |
| 295627 | NMVOC 4,7 | 1 389 446,90 | NMVOC 1,39 |
| 295627 | CO 7,9 | 2 335 453,30 | CO 2,34 |
| 295627 | SO ₂ 0,03 | 8 868,81 | SO ₂ 0,01 |

| | | | |
|---|--|---------------------------------------|---------------------------------------|
| MODULE | INDUSTRIAL PROCESSES | | |
| SUBMODULE | NITRIC ACID PRODUCTION | | |
| WORKSHEET | 2-7 | | |
| SHEET | 1 OF 1 N ₂ O AND NO _x EMISSIONS | | |
| COUNTRY | ALGERIA | | |
| YEAR | 1994 | | |
| A Amount of Nitric Acid Produced (t) | B Emission Factor (kg pollutant/t nitric acid produced) | C Pollutant Emitted (kg) | D Pollutant Emitted (Gg) |
| | | C = (A x B) | D = C/1 000 000 |
| 159577 | N ₂ O 5,5 | 877 673,50 | N ₂ O 0,88 |
| 159577 | NO _x 15 | 2 393 655,00 | NO _x 2,39 |

| | | | | |
|------------------|--|--|--------------------------------------|--------------------------------------|
| MODULE | INDUSTRIAL PROCESSES | | | |
| SUBMODULE | PRODUCTION OF OTHER CHEMICALS | | | |
| WORKSHEET | 2-10 | | | |
| SHEET | 5 OF 5 SO₂ EMISSIONS | | | |
| COUNTRY | ALGERIA | | | |
| YEAR | 1994 | | | |
| STEP 5 | | | | |
| Chemical | A Amount of Chemical Produced (t) | B Emission Factor (kg SO ₂ / t chemical produced) | C SO ₂ Emitted (kg) | D SO ₂ Emitted (Gg) |
| | | | C = (A x B) | D = C/1 000 000 |
| Acide Sulfurique | 207606 | 17,5 | 3 633 105,00 | 3,63 |
| | | | 0,00 | 0,00 |
| | | | 0,00 | 0,00 |
| | | | 0,00 | 0,00 |
| | | | 0,00 | 0,00 |
| | | | 0,00 | 0,00 |
| | | | Total (Gg): | 3,63 |

| | | | |
|--|--|-------------------------------------|--------------------------------------|
| MODULE | INDUSTRIAL PROCESSES | | |
| SUBMODULE | METAL PRODUCTION | | |
| WORKSHEET | 2-11 | | |
| SHEET | 2 OF 11 IRON AND STEEL - TIER 1b - CO₂ EMISSIONS | | |
| COUNTRY | ALGERIA | | |
| YEAR | 1994 | | |
| STEP 2 | | | |
| A Amount of Iron or Steel Produced (t) | B Emission Factor (t CO ₂ /t of iron or steel produced) | C CO ₂ Emitted (t) | D CO ₂ Emitted (Gg) |
| | | C = (A x B) | D = C/1000 |
| 807115 | 1,6 | 1 291 384,00 | 1 291,38 |

| | | | |
|--|--|--------------------------------|---------------------------------|
| MODULE | INDUSTRIAL PROCESSES | | |
| SUBMODULE | METAL PRODUCTION | | |
| WORKSHEET | 2-11 | | |
| SHEET | 3 OF 11 IRON AND STEEL - NO_x, NMVOC, CO AND SO₂ EMISSIONS | | |
| COUNTRY | ALGERIA | | |
| YEAR | 1994 | | |
| STEP 3 | | | |
| A Amount of Iron or Steel Produced (t) | B Emission Factor gas/t of iron or steel produced) | C Gas Emitted (g) | D Gas Emitted (Gg) |
| | | C = (A x B) | D = C/1 000 000 000 |
| 748500 | NO _x 40 | 29 940 000,00 | NO _x 0,03 |
| 919000 | NMVOC 100 | 91 900 000,00 | NMVOC 0,09 |
| 124000 | NMVOC 30 | 3 720 000,00 | NMVOC 0,00 |
| 919000 | CO 1300 | 1 194 700 000,00 | CO 1,19 |
| 124000 | CO 1 | 124 000,00 | CO 0,00 |
| 919000 | SO ₂ 2000 | 1 838 000 000,00 | SO ₂ 1,84 |
| 124000 | SO ₂ 45 | 5 580 000,00 | SO ₂ 0,01 |

| | | | |
|--|---|--|---|
| MODULE | INDUSTRIAL PROCESSES | | |
| SUBMODULE | METAL PRODUCTION | | |
| WORKSHEET | 2-11 | | |
| SHEET | 5 OF 11 ALUMINIUM - TIER 1b - CO₂ EMISSIONS | | |
| COUNTRY | ALGERIA | | |
| YEAR | 1994 | | |
| STEP 5 | | | |
| A Amount of Aluminium Produced (t) | B Emission Factor (t CO ₂ /t aluminium produced) | C CO ₂ Emitted (t) | D CO ₂ Emitted (Gg) |
| | | C = (A x B) | D = C/1000 |
| 4102 | 1,5 | 6 153,00 | 6,15 |

| | | | |
|----------------------------------|---|------------------------------|------------------------------|
| MODULE | INDUSTRIAL PROCESSES | | |
| SUBMODULE | METAL PRODUCTION | | |
| WORKSHEET | 2-11 | | |
| SHEET | 8 OF 11 ALUMINIUM - TIER 1c - CF₄ EMISSIONS | | |
| COUNTRY | ALGERIA | | |
| YEAR | 1994 | | |
| STEP 8 | | | |
| A | B | C | D |
| Amount of Aluminium Produced (t) | Emission Factor (kg CF ₄ /t aluminium produced) | CF ₄ Emitted (kg) | CF ₄ Emitted (Gg) |
| | | $C = (A \times B)$ | $D = C/1\ 000\ 000$ |
| 4102 | 0,05 | 205,10 | 0,00 |

| | | |
|--------------------------------------|---|--|
| MODULE | INDUSTRIAL PROCESSES | |
| SUBMODULE | METAL PRODUCTION | |
| WORKSHEET | 2-11 | |
| SHEET | 9 OF 11 ALUMINIUM - TIER 1c - C₂F₆ EMISSIONS | |
| COUNTRY | ALGERIA | |
| YEAR | 1994 | |
| STEP 9 | | |
| A | B | C |
| Total CF ₄ Emissions (Gg) | C ₂ F ₆ Emission Factor (C ₂ F ₆ /CF ₄) | C ₂ F ₆ Emitted (Gg) |
| | 0,1 | $C = (A \times B)$ |
| 0 | 0,1 | 0,00 |

| MODULE | | INDUSTRIAL PROCESSES | |
|------------------------------|---|--|------------------------|
| SUBMODULE | | METAL PRODUCTION - | |
| WORKSHEET | | 2-11 | |
| SHEET | | 10 OF 11 ALUMINIUM - NO _x , CO, SO ₂ EMISSIONS | |
| COUNTRY | | ALGERIA | |
| YEAR | | 1994 | |
| STEP 10 | | | |
| A | B | C | D |
| Amount of Metal Produced (t) | Emission Factor (kg gas/t aluminium produced) | Pollutant Emitted (kg) | Pollutant Emitted (Gg) |
| Aluminium | | C = (A x B) | D = C/1 000 000 |
| 4102 | NO _x 0 | 0,00 | NO _x 0,00 |
| 4102 | CO 400 | 1 640 800,00 | CO 1,64 |
| 4102 | SO ₂ 0,9 | 3 691,80 | SO ₂ 0,00 |
| Zinc | | | |
| 24295 | SO ₂ 14,2 | 344 989,00 | SO ₂ 0,34 |

| MODULE | | INDUSTRIAL PROCESSES | |
|-------------------|---|---|--------------------------------|
| SUBMODULE | | PULP AND PAPER INDUSTRIES | |
| WORKSHEET | | 2-12 | |
| SHEET | | 1 OF 2 NO _x , NMVOC AND CO EMISSIONS | |
| COUNTRY | | ALGERIA | |
| YEAR | | 1994 | |
| STEP 1 | | | |
| Pulp Process Type | A | B | C |
| | Quantity of Air Dried Pulp Produced (t) | Emission Factor (kg gas /t air dried pulp produced) | Pollutant Emitted (kg) |
| | | | D |
| | | C = (A x B) | Pollutant Emitted (Gg) |
| | | | D = C/1 000 000 |
| Kraft | 32702 | NO _x 1,5 | 49 053,00 NO _x 0,05 |
| Kraft | 32702 | NMVO C 3,7 | 120 997,40 NMVOC 0,12 |
| Kraft | 32702 | CO 5,6 | 183 131,20 CO 0,18 |

| | | | | |
|--------------------|---|---|--|--|
| MODULE | INDUSTRIAL PROCESSES | | | |
| SUBMODULE | PULP AND PAPER INDUSTRIES | | | |
| WORKSHEET | 2-12 | | | |
| SHEET | 2 OF 2 SO₂ EMISSIONS | | | |
| COUNTRY | ALGERIA | | | |
| YEAR | 1994 | | | |
| STEP 2 | | | | |
| Pulp Process Type | A Quantity of Air Dried Pulp Produced (t) | B Emission Factor (kg SO ₂ /t air dried pulp produced) | C SO ₂ Emitted (kg) | D SO ₂ Emitted (Gg) |
| | | | C = (A x B) | D = C/1 000 000 |
| Kraft | 32702 | 7 | 228 914,00 | 0,23 |
| | | | 0,00 | 0,00 |
| | | | 0,00 | 0,00 |
| Total (Gg): | | | | 0,23 |

| | | | | |
|-------------------------|---|---|--------------------------------|--------------------------------|
| MODULE | INDUSTRIAL PROCESSES | | | |
| SUBMODULE | FOOD AND DRINK | | | |
| WORKSHEET | 2-13 | | | |
| SHEET | 1 OF 2 ALCOHOLIC BEVERAGE PRODUCTION - NMVOC EMISSIONS | | | |
| COUNTRY | ALGERIA | | | |
| YEAR | 1994 | | | |
| STEP 1 | | | | |
| Alcoholic Beverage Type | A Quantity of Alcoholic Beverage Produced (hl) | B Emission Factor (kg NMVOC/hL beverage produced) | C NMVOC Emitted (kg) | D NMVOC Emitted (Gg) |
| | | | C = (A x B) | D = C/1 000 000 |
| Bière | 397900 | 0,035 | 13 926,50 | 0,01 |
| Vin | 135410 | 0,06 | 8 124,60 | 0,01 |
| | | | 0,00 | 0,00 |
| | | | 0,00 | 0,00 |
| | | | 0,00 | 0,00 |
| Total (Gg): | | | | 0,02 |

| MODULE | INDUSTRIAL PROCESSES | | | |
|-------------------------------|---|--|---|---|
| SUBMODULE | FOOD AND DRINK | | | |
| WORKSHEET | 2-13 | | | |
| SHEET | 2 OF 2 BREAD AND OTHER FOOD PRODUCTION - NMVOC EMISSIONS | | | |
| COUNTRY | ALGERIA | | | |
| YEAR | 1994 | | | |
| STEP 2 | | | | |
| Food Production Type | A Quantity of Food Produced (t) | B Emission Factor (kg NMVOC/t food processed) | C NMVOC Emitted (kg) C = (A x B) | D NMVOC Emitted (Gg) D = C/1 000 000 |
| Viande, Poisson et Volaille | 435002 | 0,3 | 130 500,60 | 0,13 |
| Sucre | 192800 | 10 | 1 928 000,00 | 1,93 |
| Margarine et graisse solide | 22000 | 10 | 220 000,00 | 0,22 |
| Gâteaux, biscuits et céréales | 16256 | 1 | 16 256,00 | 0,02 |
| Pain | 2480000 | 8 | 19 840 000,00 | 19,84 |
| Aliments pour animaux | 1331300 | 1 | 1 331 300,00 | 1,33 |
| Torréfaction de café | 72500 | 0,55 | 39 875,00 | 0,04 |
| | | | 0,00 | 0,00 |
| | | | Total (Gg): | 23,51 |

| MODULE | | INDUSTRIAL PROCESSES | | | |
|------------------------|---|---|---|---|---|
| SUBMODULE | | CONSUMPTION OF HALOCARBONS AND SULPHUR HEXAFLUORIDE | | | |
| WORKSHEET | | 2-15 | | | |
| SHEET | | 2 OF 13 - TIER 1b ONLY - PRODUCT CONTAINING HALOCARBONS | | | |
| HALOCARBON NAME | | | | | |
| COUNTRY | | ALGERIA | | | |
| YEAR | | 1994 | | | |
| STEP 2 | | | | | |
| Type of Product | F Number of Units Imported (+) or Exported (-) | G Quantity of Material per Unit (kg) | H Fraction of Halocarbon in Material (%/100) | | I Potential Product Halocarbon Emissions (t) |
| | | | | | $I = F \times G \times H / 1000$ |
| Réfrigérateurs | 119100 | 0,5 | HFCs | 2 | 119,10 |
| | 119100 | 0,5 | PFCs | 2 | 119,10 |
| Congélateurs | 15830 | 0,5 | HFCs | 2 | 15,83 |
| | 15830 | 0,5 | PFCs | 2 | 15,83 |
| Climatiseurs | 4000 | 100 | HFCs | 2 | 800,00 |
| | 4000 | 100 | PFCs | 2 | 800,00 |
| Solvants | | | HFCs | | 0,00 |
| | | | PFCs | | 0,00 |
| Aérosols en bombe | 6549000 | | HFCs | | 0,00 |
| | | | PFCs | | 0,00 |
| Panneaux isothermes | | | HFCs | | 0,00 |
| | | | PFCs | | 0,00 |
| Total HFCs (Gg) | | | | | 934,93 |
| Total PFCs (Gg) | | | | | 934,93 |
| TOTAL (Gg) | | | | | 1 869,86 |

| MODULE | | INDUSTRIAL PROCESSES | | | |
|--|------|--|--|--|--|
| SUBMODULE | | CONSUMPTION OF HALOCARBONS AND SULPHUR HEXAFLUORIDE - TIER 1a AND TIER 1b - SUMMARY OF HALOCARBONS EMISSIONS | | | |
| WORKSHEET | | 2-15 | | | |
| SHEET | | 3 OF 13 | | | |
| HALOCARBON NAME | | | | | |
| COUNTRY | | ALGERIA | | | |
| YEAR | | 1994 | | | |
| STEP 3 | | | | | |
| J Potential Bulk Halocarbon Emissions (t) | | K Potential Product Halocarbon Emissions (t) | L Total Potential Halocarbon Emission (t) | M Total Potential Halocarbon Emissions (Gg) | |
| J= E from Step 1 | | K= I from Step 2 | L = J + K | M = L/1000 | |
| HFCs | 0,00 | 934,93 | 934,93 | 0,93 | |
| PFCs | 0,00 | 934,93 | 934,93 | 0,93 | |

ANNEXE 3

AGRICULTURE

| | | | | | | |
|-----------------------|---|--|---|---|--|---|
| MODULE | AGRICULTURE | | | | | |
| SUBMODULE | METHANE AND NITROUS OXIDE EMISSIONS FROM DOMESTIC LIVESTOCK ENTERIC FERMENTATION AND MANURE MANAGEMENT | | | | | |
| WORKSHEET | 4-1 | | | | | |
| SHEET | 1 OF 2 METHANE EMISSIONS FROM DOMESTIC LIVESTOCK ENTERIC FERMENTATION AND MANURE MANAGEMENT | | | | | |
| COUNTRY | ALGERIA | | | | | |
| YEAR | 1994 | | | | | |
| | STEP 1 | | | STEP 2 | | STEP 3 |
| Livestock Type | A Number of Animals (1000s) | B Emissions Factor for Enteric Fermentation (kg/head/yr) | C Emissions from Enteric Fermentation (t/yr) | D Emissions Factor for Manure Management (kg/head/yr) | E Emissions from Manure Management (t/yr) | F Total Annual Emissions from Domestic Livestock (Gg) |
| | | | $C = (A \times B)$ | | $E = (A \times D)$ | $F = (C + E)/1000$ |
| Dairy Cattle | 748,47 | 36 | 26 944,92 | 2 | 1 496,94 | 28,44 |
| Non-dairy Cattle | 559,69 | 32 | 17 910,08 | 1 | 559,69 | 18,47 |
| Buffalo | 0 | 55 | 0,00 | 0 | 0,00 | 0,00 |
| Sheep | 18076,42 | 5 | 90 382,10 | 0,16 | 2 892,23 | 93,27 |
| Goats | 2667,41 | 5 | 13 337,05 | 0,17 | 453,46 | 13,79 |
| Camels | 114,26 | 46 | 5 255,96 | 1,92 | 219,38 | 5,48 |
| Horses | 72,08 | 18 | 1 297,44 | 1,64 | 118,21 | 1,42 |
| Mules & Asses | 341,54 | 10 | 3 415,40 | 0,9 | 307,39 | 3,72 |
| Swine | 0 | 1 | 0,00 | | 0,00 | 0,00 |
| Poultry | 134884 | | 0,00 | 0,018 | 2 427,91 | 2,43 |
| Totals | | | 158 542,95 | | 8 475,21 | 167,02 |

| | |
|---------------------|---|
| MODULE | AGRICULTURE |
| SUBMODULE | METHANE AND NITROUS OXIDE EMISSIONS FROM DOMESTIC LIVESTOCK ENTERIC FERMENTATION AND MANURE MANAGEMENT |
| WORKSHEET | 4-1 (SUPPLEMENTAL) |
| SPECIFY AWMS | SOLID STORAGE AND DRYLOT |
| SHEET | NITROGEN EXCRETION FOR ANIMAL WASTE MANAGEMENT SYSTEM |
| COUNTRY | ALGERIA |
| YEAR | 1994 |

| Livestock Type | A Number of Animals (1000s) | B Nitrogen Excretion Nex (kg/head/(yr)) | C Fraction of Manure Nitrogen per AWMS (%/100) (fraction) | D Nitrogen Excretion per AWMS, Nex (kg/N/yr) |
|------------------|-----------------------------------|--|---|---|
| | | | | D = (A x B x C) |
| Non-dairy Cattle | 559,79 | 50000 | 0 | 0,00 |
| Dairy Cattle | 748,58 | 70000 | 0,4 | 20 960 240,00 |
| Poultry | 134884 | 600 | 0,4 | 32 372 160,00 |
| Sheep | 20743,83 | 12000 | 0,1 | 24 892 596,00 |
| Swine | 0 | 0 | 0 | 0,00 |
| Others | 560,54 | 40000 | 0,1 | 2 242 160,00 |
| TOTAL | | | | 80 467 156,00 |

| | |
|---------------------|---|
| MODULE | AGRICULTURE |
| SUBMODULE | METHANE AND NITROUS OXIDE EMISSIONS FROM DOMESTIC LIVESTOCK ENTERIC FERMENTATION AND MANURE MANAGEMENT |
| WORKSHEET | 4-1 (SUPPLEMENTAL) |
| SPECIFY AWMS | DAILY SPREAD |
| SHEET | NITROGEN EXCRETION FOR ANIMAL WASTE MANAGEMENT SYSTEM |
| COUNTRY | ALGERIA |
| YEAR | 1994 |

| Livestock Type | A Number of Animals (1000s) | B Nitrogen Excretion Nex (kg/head/(yr)) | C Fraction of Manure Nitrogen per AWMS (%/100) (fraction) | D Nitrogen Excretion per AWMS, Nex (kg/N/yr) |
|------------------|-----------------------------------|--|---|---|
| | | | | D = (A x B x C) |
| Non-dairy Cattle | 559,79 | 50000 | 0,2 | 5 597 900,00 |
| Dairy Cattle | 748,58 | 70000 | 0,4 | 20 960 240,00 |
| Poultry | 134884 | 600 | 0,4 | 32 372 160,00 |
| Sheep | 20743,83 | 12000 | 0,1 | 24 892 596,00 |
| Swine | 0 | 0 | | 0,00 |
| Others | 560,54 | 40000 | 0,1 | 2 242 160,00 |
| TOTAL | | | | 86 065 056,00 |

| MODULE | AGRICULTURE | | | |
|---------------------|---|--|---|--|
| SUBMODULE | METHANE AND NITROUS OXIDE EMISSIONS FROM DOMESTIC LIVESTOCK ENTERIC FERMENTATION AND MANURE MANAGEMENT | | | |
| WORKSHEET | 4-1 (SUPPLEMENTAL) | | | |
| SPECIFY AWMS | PASTURE RANGE AND PADDOCK | | | |
| SHEET | NITROGEN EXCRETION FOR ANIMAL WASTE MANAGEMENT SYSTEM | | | |
| COUNTRY | ALGERIA | | | |
| YEAR | 1994 | | | |
| | | | | |
| Livestock Type | A Number of Animals (1000s) | B Nitrogen Excretion Nex (kg/head/(yr)) | C Fraction of Manure Nitrogen per AWMS (%/100) (fraction) | D Nitrogen Excretion per AWMS, Nex (kg N/yr) D = (A x B x C) |
| Non-dairy Cattle | 559,69 | 50000 | 0,8 | 22 387 600,00 |
| Dairy Cattle | 748,47 | 70000 | 0,2 | 10 478 580,00 |
| Poultry | 134884 | 600 | 0,2 | 16 186 080,00 |
| Sheep | 20743,83 | 12000 | 0,8 | 199 140 768,00 |
| Swine | 0 | 0 | 0 | 0,00 |
| Others | 560,54 | 40000 | 0,8 | 17 937 280,00 |
| TOTAL | | | | 266 130 308,00 |

| MODULE | AGRICULTURE | | |
|---|--|---|--|
| SUBMODULE | METHANE AND NITROUS OXIDE EMISSIONS FROM DOMESTIC LIVESTOCK ENTERIC FERMENTATION AND MANURE MANAGEMENT | | |
| WORKSHEET | 4-1 | | |
| SHEET | 2 OF 2 NITROUS OXIDE EMISSIONS FROM ANIMAL PRODUCTION EMISSIONS FROM ANIMAL WASTE MANAGEMENT SYSTEMS (AWMS) | | |
| COUNTRY | ALGERIA | | |
| YEAR | 1994 | | |
| STEP 4 | | | |
| Animal Waste Management System (AWMS) | A Nitrogen Excretion Nex(AWMS) (kg N/yr) | B Emission Factor For AWMS EF ₃ (kg N ₂ O–N/kg N) | C Total Annual Emissions of N ₂ O (Gg) C=(AxB)[44/28] / 1 000 000 |
| Anaerobic lagoons | 0,00 | | 0,00 |
| Liquid systems | 0,00 | | 0,00 |
| Daily spread | 86 065 056,00 | | |
| Solid storage & drylot | 80 467 156,00 | 0,02 | 2,53 |
| Pasture range and paddock | 266 130 308,00 | | |
| Other | 0,00 | | 0,00 |
| Total | 432 662 520,00 | Total | 2,53 |

| MODULE | | AGRICULTURE | | | | | | |
|--|-------------------------------------|--|--|--------------------------|---|--------------------------------|------------------------|--------------------------------------|
| SUBMODULE | | FIELD BURNING OF AGRICULTURAL RESIDUES | | | | | | |
| WORKSHEET | | 4-4 | | | | | | |
| SHEET | | 1 OF 3 | | | | | | |
| COUNTRY | | ALGERIA | | | | | | |
| YEAR | | 1994 | | | | | | |
| Crops (specify locally important crops) | STEP 1 | | | STEP 2 | | STEP 3 | | |
| | A Annual Production (Gg crop) | B Residue to Crop Ratio | C Quantity of Residue (Gg biomass) | D Dry Matter Fraction | E Quantity of Dry Residue (Gg dm) | F Fraction Burned in Fields | G Fraction Oxidised | H Total Biomass Burned (Gg dm) |
| | | | $C = (A \times B)$ | | $E = (C \times D)$ | | | $H = (E \times F \times G)$ |
| Wheat (blé) | 1188,965 | 1,3 | 1 545,65 | 0,83 | 1 282,89 | 0,1 | 0,9 | 115,46 |
| Barley (orge) | 680,126 | 1,2 | 816,15 | 0,83 | 677,41 | 0,1 | 0,9 | 60,97 |
| Maize (maïs) | 0,357 | 1 | 0,36 | 0,4 | 0,14 | 0,1 | 0,9 | 0,01 |
| Oats (avoine) | 45,113 | 1,3 | 58,65 | 0,83 | 48,68 | 0,1 | 0,9 | 4,38 |
| Rye (seigle) | | | 0,00 | | 0,00 | | | 0,00 |
| Sorghoum(sorgho) | 0,14 | 1,4 | 0,20 | 0,83 | 0,16 | 0,1 | 0,9 | 0,01 |
| Millet (mil) | | | 0,00 | | 0,00 | | | 0,00 |
| Pea (pois) | 25,021 | 1,5 | 37,53 | 0,45 | 16,89 | 0,1 | 0,9 | 1,52 |
| Bean (fèves) | 23,532 | 2,1 | 49,42 | 0,45 | 22,24 | 0,1 | 0,9 | 2,00 |
| Soya (soja) | | | 0,00 | | 0,00 | | | 0,00 |
| Gesses Guerfafas | 0,138 | 2,1 | 0,29 | 0,45 | 0,13 | 0,1 | 0,9 | 0,01 |
| Potatoes(Pdeterre) | 979,56 | 0,4 | 391,82 | 0,45 | 176,32 | 0,1 | 0,9 | 15,87 |
| Feedbeet(fourrage) | 754,478 | 0,3 | 226,34 | 0,15 | 33,95 | 0,1 | 0,9 | 3,06 |
| Sugarbeet(Càsucre) | | | 0,00 | | 0,00 | | | 0,00 |
| Artichoke) | 6,049 | 0,8 | 4,84 | 0,45 | 2,18 | 0,1 | 0,9 | 0,20 |
| Peanut (arachide) | 3,398 | 1 | 3,40 | 0,45 | 1,53 | 0,1 | 0,9 | 0,14 |
| Onion (oignon) | 249,901 | 0,4 | 99,96 | 0,45 | 44,98 | 0,1 | 0,9 | 4,05 |
| Allium (ail) | 30 | 0,4 | 12,00 | 0,45 | 5,40 | 0,1 | 0,9 | 0,49 |
| Tomatoes(tomates) | 706,681 | 0,8 | 565,34 | 0,45 | 254,41 | 0,1 | 0,9 | 22,90 |
| Tabaco(tabac) | 5,593 | 1 | 5,59 | 0,45 | 2,52 | 0,1 | 0,9 | 0,23 |
| Other (A cultures) | 1324,322 | 0,8 | 1 059,46 | 0,45 | 476,76 | 0,1 | 0,9 | 42,91 |
| Jachère et alfa | 3007,9 | 0,3 | 902,37 | 0,15 | 135,36 | 0,1 | 0,9 | 12,18 |
| Parcours steppiques 1470 | 1470 | 0,3 | 441,00 | 0,15 | 66,15 | 0,1 | 0,9 | 5,95 |
| Zones humides | 1200 | 1 | 1 200,00 | 0,4 | 480,00 | 0,1 | 0,9 | 43,20 |
| Total: | | | | | | | | 335,53 |

| MODULE | | AGRICULTURE | | |
|--------------------------------|----------------------------|--|-----------------------|--|
| SUBMODULE | | FIELD BURNING OF AGRICULTURAL RESIDUES | | |
| WORKSHEET | | 4-4 | | |
| SHEET | | 2 OF 3 | | |
| COUNTRY | | ALGERIA | | |
| YEAR | | 1994 | | |
| STEP 4 | | STEP 5 | | |
| Crops | I | J | K | L |
| | Carbon Fraction of Residue | Total Carbon Released (Gg C) J = (H x I) | Nitrogen-Carbon Ratio | Total Nitrogen Released (Gg N) L = (J x K) |
| Wheat (blé) | 0,4853 | 56,03 | 0,012 | 0,67 |
| Barley (orge) | 0,4567 | 27,84 | 0,015 | 0,42 |
| Maize (mais) | 0,4709 | 0,01 | 0,02 | 0,00 |
| Oats (avoine) | 0,45 | 1,97 | 0,015 | 0,03 |
| Rye (seigle) | | 0,00 | | 0,00 |
| Sorghoum(sorgho) | 0,45 | 0,01 | 0,02 | 0,00 |
| Millet (mil) | | 0,00 | | 0,00 |
| Pea (pois) | 0,45 | 0,68 | 0,015 | 0,01 |
| Bean (fèves) | 0,45 | 0,90 | 0,015 | 0,01 |
| Soya (soja) | | 0,00 | | 0,00 |
| Gesses Guerfafas | 0,45 | 0,01 | 0,015 | 0,00 |
| Potatoes(Pdeterre) | 0,4226 | 6,71 | 0,015 | 0,10 |
| Feedbeet(fourrage) | 0,4072 | 1,24 | 0,015 | 0,02 |
| Sugarbeet(Càsucre) | | 0,00 | | 0,00 |
| Artichoke) | 0,45 | 0,09 | 0,015 | 0,00 |
| Peanut (arachide) | 0,45 | 0,06 | 0,015 | 0,00 |
| Onion (oignon) | 0,45 | 1,82 | 0,015 | 0,03 |
| Allium (ail) | 0,45 | 0,22 | 0,015 | 0,00 |
| Tomatoes(tomates) | 0,45 | 10,30 | 0,015 | 0,15 |
| Tabaco(tabac) | 0,45 | 0,10 | 0,015 | 0,00 |
| Other (A cultures) | 0,45 | 19,31 | 0,015 | 0,29 |
| Jachère et alfa | 0,45 | 5,48 | 0,015 | 0,08 |
| Fourrages(parcours steppiques) | 0,45 | 2,68 | 0,015 | 0,04 |
| Plantes (zones humides) | 0,4079 | 17,60 | 0,02 | 0,35 |
| Total: | | 153,07 | | 2,21 |

| MODULE | | AGRICULTURE | | |
|------------------|---------------------|--|-----------------------|--|
| SUBMODULE | | FIELD BURNING OF AGRICULTURAL RESIDUES | | |
| WORKSHEET | | 4-4 | | |
| SHEET | | 3 OF 3 | | |
| COUNTRY | | ALGERIA | | |
| YEAR | | 1994 | | |
| STEP 6 | | | | |
| | M Emission Ratio | N Emissions (Gg C or Gg N) $N = (J \times M)$ | O Conversion Ratio | P Emissions from Field Burning of Agricultural Residues (Gg) $P = (N \times O)$ |
| CH ₄ | 0,005 | 0,77 | 16/12 | 1,02 |
| CO | 0,06 | 9,18 | 28/12 | 21,43 |
| | | $N = (L \times M)$ | | $P = (N \times O)$ |
| N ₂ O | 0,007 | 0,02 | 44/28 | 0,02 |
| NO _x | 0,121 | 0,27 | 46/14 | 0,88 |

| MODULE | | AGRICULTURE | | |
|---|--|---|---|--|
| SUBMODULE | | AGRICULTURAL SOILS | | |
| WORKSHEET | | 4-5 | | |
| SHEET | | 1 OF 5 DIRECT NITROUS OXIDE EMISSIONS FROM AGRICULTURAL FIELDS, EXCLUDING CULTIVATION OF HISTOSOLS | | |
| COUNTRY | | ALGERIA | | |
| YEAR | | 1994 | | |
| | | STEP 1 | STEP 2 | |
| Type of N input to soil | A Amount of N Input (kg N/yr) | B Factor for Direct Emissions EF ₁ (kg N ₂ O-N/kg N) | C Direct Soil Emissions (Gg N ₂ O-N/yr) | |
| | | | $C = (A \times B) / 1\ 000\ 000$ | |
| Synthetic fertiliser (F _{SN}) | 42 060 000,00 | 0,0125 | 0,53 | |
| Animal waste (F _{AW}) | 337 476 765,60 | 0,0125 | 4,22 | |
| N-fixing crops (F _{BN}) | 3 200 436 | 0,0125 | 0,04 | |
| Crop residue (F _{CR}) | 99 316 800,00 | 0,0125 | 1,24 | |
| | | Total | 6,03 | |

| MODULE | | AGRICULTURE | | | |
|---------------------------------------|--|--|--|-----------------------|--|
| SUBMODULE | | AGRICULTURAL SOILS | | | |
| WORKSHEET | | 4-5A (SUPPLEMENTAL) | | | |
| SHEET | | 1 OF 1 MANURE NITROGEN USED | | | |
| COUNTRY | | ALGERIA | | | |
| YEAR | | 1994 | | | |
| A | B | C | D | E | F |
| Total Nitrogen Excretion (kg N/yr) | Fraction of Nitrogen Burned for Fuel (fraction) | Fraction of Nitrogen Excreted During Grazing (fraction) | Fraction of Nitrogen Excreted Emitted as NO _x and NH ₃ (fraction) | Sum (fraction) | Manure Nitrogen Used (corrected for NO _x and NH ₃ emissions), F _{AW} (kg N/yr) |
| | | | | $F = 1 - (B + C + D)$ | $F = (A \times E)$ |
| 432 662 520,00 | 0 | 0,02 | 0,2 | 0,78 | 337 476 765,60 |

| MODULE | | AGRICULTURE | | | | |
|---|--|--|--|--|---|---|
| SUBMODULE | | AGRICULTURAL SOILS | | | | |
| WORKSHEET | | 4-5B (SUPPLEMENTAL) | | | | |
| SHEET | | 1 OF 1 NITROGEN INPUT FROM CROP RESIDUES | | | | |
| COUNTRY | | ALGERIA | | | | |
| YEAR | | 1994 | | | | |
| A | B | C | D | E | F | G |
| Production of non - N - Fixing Crops (kg dry biomass/yr) | Fraction of Nitrogen of non - N - Fixing Crops, (kg N/kg dry biomass) | Production of Pulses and Soybeans (kg dry biomass/yr) | Fraction of Nitrogen in N-Fixing Crops, (kg N/kg dry biomass) | One minus the Fraction of Crop Residue Removed From Field, (fraction) | One minus the Fraction of Crop Residue Burned (fraction) | Nitrogen Input from Crop Residues, F _{CR} (kg N/yr) |
| | | | | | | $G = 2 \times (A \times B + C \times D) \times E \times F$ |
| 5974000000 | 0,015 | 53000000 | 0,03 | 0,55 | 0,99 | 99 316 800,00 |

| | | | | |
|------------------|---|--|--|---|
| MODULE | AGRICULTURE | | | |
| SUBMODULE | AGRICULTURAL SOILS | | | |
| WORKSHEET | 4-5 | | | |
| SHEET | 2 OF 5 DIRECT NITROUS OXIDE EMISSIONS FROM CULTIVATION OF HISTOSOLS | | | |
| COUNTRY | ALGERIA | | | |
| YEAR | 1994 | | | |
| | STEP 3 | | | STEP 4 |
| | D Area of Cultivated Organic Soils F _{OS} (ha) | E Emission Factor for Direct Soil Emissions EF ₂ (kg N ₂ O-N/ha/yr) | F Direct Emissions from Histosols (Gg N ₂ O-N/yr) | G Total Direct Emissions of N ₂ O (Gg) |
| | | | F=(D x E)/1 000 000 | G = (C+F)[44/28] |
| Subtotal | 0 | | 0,00 | 9,47 |

| | | | |
|---------------------------------------|--|--|---|
| MODULE | AGRICULTURE | | |
| SUBMODULE | AGRICULTURAL SOILS | | |
| WORKSHEET | 4-5 | | |
| SHEET | 3 OF 5 NITROUS OXIDE SOIL EMISSIONS FROM GRAZING ANIMALS - PASTURE RANGE AND PADDOCK | | |
| COUNTRY | ALGERIA | | |
| YEAR | 1994 | | |
| | STEP 5 | | |
| Animal Waste Management System (AWMS) | A Nitrogen Excretion N _{ex(AWMS)} (kg N/yr) | B Emission Factor for AWMS EF ₃ (kg N ₂ O-N/kg N) | C Emissions Of N ₂ O from Grazing Animals (Gg) |
| | | | C = (A x B)[44/28]/1 000 000 |
| Pasture range & paddock | 266 130 308,00 | 0,02 | 8,36 |

| | | | | | | | |
|--------------------|--|--|--|---|--|---|--|
| MODULE | AGRICULTURE | | | | | | |
| SUBMODULE | AGRICULTURAL SOILS | | | | | | |
| WORKSHEET | 4-5 | | | | | | |
| SHEET | 4 OF 5 INDIRECT NITROUS OXIDE EMISSIONS FROM ATMOSPHERIC DEPOSITION OF NH ₃ AND NO _x | | | | | | |
| COUNTRY | ALGERIA | | | | | | |
| YEAR | 1994 | | | | | | |
| STEP 6 | | | | | | | |
| Type of Deposition | A Synthetic Fertiliser N Applied to Soil, N _{FERT} (kg N/yr) | B Fraction of Synthetic Fertiliser N Applied that Volatilizes Frac _{GASFS} (kg N/kg N) | C Amount of Synthetic N Applied to Soil that Volatilizes (kg N/kg N) | D Total N Excretion by Livestock N _{EX} (kg N/yr) | E Fraction of Total Manure N Excreted that Volatilizes Frac _{GASM} (kg N/kg N) | F Total N Excretion by Livestock that Volatilizes (kg N/kg N) | G Emission F EF ₄ (kg N ₂ O-N/yr) |
| | | | C = (A x B) | | | F = (D x E) | |
| Total | 46735620 | 0,1 | 4 673 562,00 | 432 662 520,00 | 0,2 | 86 532 504,00 | |

| | | | | | | |
|------------------|--|---|---|---|--|-----------------|
| MODULE | AGRICULTURE | | | | | |
| SUBMODULE | AGRICULTURAL SOILS | | | | | |
| WORKSHEET | 4-5 | | | | | |
| SHEET | 5 OF 5 INDIRECT NITROUS OXIDE EMISSIONS FROM LEACHING | | | | | |
| COUNTRY | ALGERIA | | | | | |
| YEAR | 1994 | | | | | |
| STEP 7 | | | | | | |
| | I Synthetic Fertiliser Use N _{FERT} (kg N/yr) | J Livestock N Excretion N _{EX} (kg N/yr) | K Fraction of N That Leaches Frac _{LEACH} (kg N/kg N) | L Emission Factor EF ₅ | M Nitrous Oxide Emissions From Leaching (Gg N ₂ O-N/yr) | T N (|

| | | | | | | |
|--------------|---------------|----------------|-----|-------|---|-----|
| | | | | | $M = (I + J) \times K \times L / 1\ 000\ 000$ | N = |
| Total | 46 735 620,00 | 432 662 520,00 | 0,3 | 0,025 | 3,60 | |

ANNEXE 4

CHANGEMENT D’AFFECTATION DES SOLS ET FORESTERIE

| MODULE | | LAND USE CHANGE AND FORESTRY | | | | | |
|---------------------------------|---------------|--|---|---|--|---------------------------------------|---|
| SUBMODULE | | CHANGES IN FOREST AND OTHER WOODY BIOMASS STOCKS | | | | | |
| WORKSHEET | | 5-1 | | | | | |
| SHEET | | 1 OF 3 | | | | | |
| COUNTRY | | ALGERIA | | | | | |
| YEAR | | 1994 | | | | | |
| STEP 1 | | | | | | | |
| Forest trees | | | A Area of Forest/Biomass Stocks (kha) | B Annual Growth Rate (t dm/ha) | C Annual Biomass Increment (kt dm) C=(A x B) | D Carbon Fraction of Dry Matter | E Total Carbon Uptake Increment (kt C) E=(C x D) |
| Temperate | Plantations | <i>Eucalyptus spp</i> | 52 | 1,65 | 85,80 | 0,5 | 42,90 |
| | | <i>Juniper tree</i> | 277 | 1,25 | 346,25 | 0,5 | 173,13 |
| | | <i>Cork oak</i> | 463 | 0,71 | 328,73 | 0,5 | 164,37 |
| | | <i>Oak</i> | 419 | 1,25 | 523,75 | 0,5 | 261,88 |
| | | <i>Hardwood</i> | 116 | 1,25 | 145,00 | 0,5 | 72,50 |
| | | <i>Pinus spp</i> | 812 | 0,59 | 479,08 | 0,5 | 239,54 |
| | | <i>Cédar</i> | 30 | 0,59 | 17,70 | 0,5 | 8,85 |
| | | <i>Thuya</i> | 143 | 0,59 | 84,37 | 0,5 | 42,19 |
| | Other Forests | <i>Maquis</i> | 1329,5 | 0,12 | 159,54 | 0,5 | 79,77 |
| | | Seasonal | | | 0,00 | | 0,00 |
| | | Dry | | | 0,00 | | 0,00 |
| Other (specify) | | | | 0,00 | | 0,00 | |
| | Plantations | Douglas fir | | | 0,00 | | 0,00 |
| | | Loblolly pine | | | 0,00 | | 0,00 |
| | Commercial | Evergreen | | | 0,00 | | 0,00 |
| | | Deciduous | | | 0,00 | | 0,00 |
| | Other | | | | 0,00 | | 0,00 |
| Boreal | | | | 0,00 | | 0,00 | |
| Non-Forest Trees (specify type) | | | A Number of Trees (1000s of trees) | B Annual Growth Rate (kt dm/1000 trees) | | | |
| <i>Olive tree</i> | | | 32462 | 0,004125 | 133,91 | 0,5 | 66,95 |
| <i>Citrus fruit</i> | | | 16252 | 0,004125 | 32,67 | 0,5 | 16,34 |
| <i>Fig</i> | | | 8342 | 0,002475 | 16,77 | 0,5 | 8,40 |
| <i>date tree</i> | | | 16872 | 0,002475 | 33,91 | 0,5 | 16,95 |
| <i>fruit tree</i> | | | 35486,4 | 0,002475 | 71,32 | 0,5 | 35,66 |
| <i>Vine</i> | | | 28234,4 | 0,002475 | 56,75 | 0,5 | 28,37 |
| <i>Road tree</i> | | | 4000 | 0,004 | 16,00 | 0,5 | 8,00 |
| Total | | | | | | | 1 265,78 |

| MODULE | LAND USE CHANGE AND FORESTRY | | | | | | | |
|---------------------------------|---|--|---|--|---|--|--|---|
| SUBMODULE | CHANGES IN FOREST AND OTHER WOODY BIOMASS STOCKS | | | | | | | |
| WORKSHEET | 5-1 | | | | | | | |
| SHEET | 2 OF 3 | | | | | | | |
| COUNTRY | ALGERIA | | | | | | | |
| YEAR | 1994 | | | | | | | |
| STEP 2 | | | | | | | | |
| Harvest Categories (specify) | F Commercial Harvest (if applicable) (1000 m ³ roundwood) | G Biomass Conversion/ Expansion Ratio (if applicable) (t dm/m ³) | H Total Biomass Removed in Commercial Harvest (kt dm) | I Total Traditional Fuelwood Consumed (kt dm) | J Total Other Wood Use (kt dm) | K Total Biomass Consumption (kt dm) | L Wood Removed From Forest Clearing (kt dm) | M Total Biomass Consumption From Stocks (kt dm) |
| | | | H = (F x G) | FAO data | | K = (H + I + J) | (From column M, Worksheet 5- 2, sheet 3) | M = K - L |
| Work & industry wood | 142,18 | 0,88 | 125,12 | | | 125,12 | | |
| Other Wood | 39,12 | 0,88 | 34,43 | 0,116 | 0 | 34,54 | | |
| Oak wood | | | 9,29 | | | 9,29 | | |
| | | | | | | | | |
| Totals | 181,30 | | 168,84 | 0,12 | 0,00 | 168,95 | 0,00 | 168,95 |

| MODULE | LAND USE AND FORESTRY | | |
|-----------------------------|---|--|---|
| SUBMODULE | CHANGES IN FOREST AND OTHER WOODY BIOMASS STOCKS | | |
| WORKSHEET | 5-1 | | |
| SHEET | 3 OF 3 | | |
| COUNTRY | ALGERIA | | |
| YEAR | 1994 | | |
| STEP 3 | | STEP 4 | |
| N Carbon Fraction | O Annual Carbon Release (kt C) | P Net Annual Carbon Uptake (+) or Release (-) (kt C) | Q Convert to CO ₂ Annual Emission (-) or Removal (+) (Gg CO ₂) |
| | O = (M x N) | P = (E - O) | Q = (P x [44/12]) |

| MODULE | | LAND-USE CHANGE AND FORESTRY | | | | |
|-----------------------------|----------------------------|--|--|---|--|---|
| SUBMODULE | | FOREST AND GRASSLAND CONVERSION - CO ₂ FROM BIOMASS | | | | |
| WORKSHEET | | 5-2 | | | | |
| SHEET | | 1 OF 5 BIOMASS CLEARED | | | | |
| COUNTRY | | ALGERIA | | | | |
| YEAR | | 1994 | | | | |
| | | STEP 1 | | | | |
| Vegetation types | | A Area Converted Annually (kha) | B Biomass Before Conversion (t dm/ha) | C Biomass After Conversion (t dm/ha) | D Net Change in Biomass Density (t dm/ha) | E Annual Loss of Biomass (kt dm) |
| | | | | | D = (B - C) | E = (A x D) |
| Tropical | Wet/Very Moist | | | | 0,00 | 0,00 |
| | Moist, short dry season | | | | 0,00 | 0,00 |
| | Moist, long dry season | | | | 0,00 | 0,00 |
| | Dry | | | | 0,00 | 0,00 |
| | Montane Moist | | | | 0,00 | 0,00 |
| | Montane Dry | | | | 0,00 | 0,00 |
| Tropical Savanna/Grasslands | | | | | 0,00 | 0,00 |
| Temperate | Coniferous | 16,82 | 220 | 10 | 210,00 | 3 532,20 |
| | Broadleaf | 12,18 | 175 | 10 | 165,00 | 2 009,70 |
| Grasslands | | 91,61 | 10 | 0 | 10,00 | 916,10 |
| Boreal | Mixed Broadleaf/Coniferous | | | | 0,00 | 0,00 |
| | Coniferous | | | | 0,00 | 0,00 |
| | Forest-tundra | | | | 0,00 | 0,00 |
| Grasslands/Tundra | | | | | 0,00 | 0,00 |
| Other | | | | | 0,00 | 0,00 |
| Subtotals | | 120,61 | | | 385,00 | 6 458,00 |

| MODULE | LAND-USE CHANGE AND FORESTRY | | | | | |
|-------------------------------|--|--|--|--|--|--|
| SUBMODULE | FOREST AND GRASSLAND CONVERSION - CO₂ FROM BIOMASS | | | | | |
| WORKSHEET | 5-2 | | | | | |
| SHEET | 2 OF 5 CARBON RELEASED BY ON-SITE BURNING | | | | | |
| COUNTRY | ALGERIA | | | | | |
| YEAR | 1994 | | | | | |
| STEP 2 | | | | | | |
| | F Fraction of Biomass Burned on Site | G Quantity of Biomass Burned on Site (kt dm) G = (E x F) | H Fraction of Biomass Oxidised on Site | I Quantity of Biomass Oxidised on Site (kt dm) I = (G x H) | J Carbon Fraction of Above- ground Biomass (burned on site) | K Quantity of Carbon Released (from biomass burned) (kt C) K = (I x J) |
| Wet/Very Moist | | 0,00 | | 0,00 | | 0,00 |
| Moist, short dry season | | 0,00 | | 0,00 | | 0,00 |
| Moist, long dry season | | 0,00 | | 0,00 | | 0,00 |
| Dry | | 0,00 | | 0,00 | | 0,00 |
| Montane Moist | | 0,00 | | 0,00 | | 0,00 |
| Montane Dry | | 0,00 | | 0,00 | | 0,00 |
| | | 0,00 | | 0,00 | | 0,00 |
| Coniferous | 0,5 | 1 766,10 | 0,9 | 1 589,49 | 0,5 | 794,75 |
| Broadleaf | 0,5 | 1 004,85 | 0,9 | 904,37 | 0,5 | 452,18 |
| | 0,1 | 91,61 | 0,9 | 82,45 | 0,5 | 41,22 |
| Mixed Broadleaf/Coniferous | | 0,00 | | 0,00 | | 0,00 |
| Coniferous | | 0,00 | | 0,00 | | 0,00 |
| Forest-tundra | | 0,00 | | 0,00 | | 0,00 |
| | | 0,00 | | 0,00 | | 0,00 |
| | | 0,00 | | 0,00 | | 0,00 |
| Subtotal | | | | | | 1 288,15 |

| MODULE | | LAND-USE CHANGE AND FORESTRY | | | | | | |
|-----------------------------|----------------------------|--|--|---------------------------------------|--|---|--|--|
| SUBMODULE | | FOREST AND GRASSLAND CONVERSION - CO ₂ FROM BIOMASS | | | | | | |
| WORKSHEET | | 5-2 | | | | | | |
| SHEET | | 3 OF 5 CARBON RELEASED BY OFF-SITE BURNING | | | | | | |
| COUNTRY | | ALGERIA | | | | | | |
| YEAR | | 1994 | | | | | | |
| STEP 3 | | | | | | | STEP 4 | |
| Vegetation types | | L | M | N | O | P | Q | R |
| | | Fraction of Biomass Burned off Site | Quantity of Biomass Burned off Site (kt dm) | Fraction of Biomass Oxidised off Site | Quantity of Biomass Oxidised off Site (kt dm) | Carbon Fraction of Above-ground Biomass (burned off site) | Quantity of Carbon Released (from biomass burned off site) (kt C) | Total Carbon Released (from on and off site burning) (kt C) |
| | | | M = (E x L) | | O = (M x N) | | Q = (O x P) | R = (K + Q) |
| Tropical | Wet/Very Moist | | 0,00 | | 0,00 | | 0,00 | 0,00 |
| | Moist, short dry season | | 0,00 | | 0,00 | | 0,00 | 0,00 |
| | Moist, long dry season | | 0,00 | | 0,00 | | 0,00 | 0,00 |
| | Dry | | 0,00 | | 0,00 | | 0,00 | 0,00 |
| | Montane Moist | | 0,00 | | 0,00 | | 0,00 | 0,00 |
| | Montane Dry | | 0,00 | | 0,00 | | 0,00 | 0,00 |
| Tropical Savanna/Grasslands | | | 0,00 | | 0,00 | | 0,00 | 0,00 |
| Temperate | Coniferous | | 0,00 | | 0,00 | | 0,00 | 794,75 |
| | Broadleaf | | 0,00 | | 0,00 | | 0,00 | 452,18 |
| Grasslands | | | 0,00 | | 0,00 | | 0,00 | 41,22 |
| Boreal | Mixed Broadleaf/Coniferous | | 0,00 | | 0,00 | | 0,00 | 0,00 |
| | Coniferous | | 0,00 | | 0,00 | | 0,00 | 0,00 |
| | Forest- tundra | | 0,00 | | 0,00 | | 0,00 | 0,00 |
| Grasslands/Tundra | | | 0,00 | | 0,00 | | 0,00 | 0,00 |
| Other | | | 0,00 | | 0,00 | | 0,00 | 0,00 |
| Subtotals | | | 0,00 | | | | 0,00 | 1 288,15 |

| | | | |
|-----------------------------------|--|--------------------------------|---|
| MODULE | LAND-USE CHANGE AND FORESTRY | | |
| SUBMODULE | FOREST AND GRASSLAND CONVERSION - CO₂ FROM BIOMASS | | |
| WORKSHEET | 5-2 | | |
| SHEET | 5 OF 5 SUMMARY AND CONVERSION TO CO ₂ | | |
| COUNTRY | ALGERIA | | |
| YEAR | 1994 | | |
| STEP 6 | | | |
| A | B | C | D |
| Immediate Release From Burning | Delayed Emissions From Decay | Total Annual Carbon Release | Total Annual CO ₂ Release |
| (kt C) | (kt C) (10-year average) | (kt C) | (Gg CO ₂) |
| | | C = A + B | D = C x (44/12) |
| 1 288,15 | 0,00 | 1 288,15 | 4 723,22 |

| | | | | | | | | |
|--|------------------------------|---|---------------|----------------------------------|------------------------|-------------------------|---|--------|
| MODULE | | LAND-USE CHANGE AND FORESTRY | | | | | | |
| SUBMODULE | | ON-SITE BURNING OF FORESTS - NON-CO₂ TRACE GASES FROM BURNING BIOMASS | | | | | | |
| WORKSHEET | | 5-3 | | | | | | |
| SHEET | | 1 OF 1 NON-CO ₂ GAS EMISSIONS | | | | | | |
| COUNTRY | | ALGERIA | | | | | | |
| YEAR | | 1994 | | | | | | |
| STEP 1 | | | STEP 2 | | | | | |
| A | B | C | | D | E | F | G | |
| Quantity of Carbon Released | Nitrogen- Carbon Ratio | Total Nitrogen Released | | Trace Gas Emissions Ratios | Trace Gas Emissions | Conversio n Ratio | Trace Gas Emissions from Burning of Cleared Forests | |
| (kt C) | | (kt N) | | | (kt C) | | (Gg CH ₄ , CO) | |
| (From column K, sheet 2 of Worksheet 5-2) | | C = (A x B) | | | E = (A x D) | | G = (E x F) | |
| | | | | CH ₄ | 0,012 | 15,46 | 16/12 | 20,61 |
| | | | | CO | 0,06 | 77,29 | 28/12 | 180,34 |
| | | | | | (kt N) | | (Gg N ₂ O, NO _x) | |
| 1 288,15 | 0,01 | 12,88 | | | E = (C x D) | | G = (E x F) | |
| | | | | N ₂ O | 0,07 | 0,90 | 44/28 | 1,42 |
| | | | | NO _x | 0,121 | 1,56 | 46/14 | 5,12 |

| | | | | |
|--|---|--|---|---|
| MODULE | LAND-USE CHANGE AND FORESTRY | | | |
| SUBMODULE | CALCULATION OF TOTAL CO₂-C EMISSIONS FROM AGRICULTURALLY-IMPACTED SOILS | | | |
| WORKSHEET | 5-5 | | | |
| SHEET | 4 OF 4 | | | |
| COUNTRY | ALGERIA | | | |
| YEAR | 1994 | | | |
| STEP 6 | | | | |
| Source | A Worksheet values | B Unit Conversion Factor | C Total Annual Carbon Emissions (Gg) | D Convert to Total Annual CO ₂ Emission (Gg/yr) |
| | | | $C = (A \times B)$ | $D = C \times (44/12)$ |
| Total Net Change in Soil Carbon in Mineral Soils | -40,60 | -50 | 2 030,00 | 7 443,33 |
| Total Net Carbon Loss from Organic Soils | 0,00 | 0,001 | 0,00 | 0,00 |
| Carbon Emissions from Liming | 0,00 | 0,001 | 0,00 | 0,00 |
| | | | Total | 7 443,33 |

ANNEXE 5

DECHETS

| MODULE | | WASTE | | | | | | | | | | |
|---|---------------------------------|---|---|--|------------------|--|--|---|--|---|---|--|
| SUBMODULE | | METHANE EMISSIONS FROM SOLID WASTE DISPOSAL SITES | | | | | | | | | | |
| WORKSHEET | | 6-1 | | | | | | | | | | |
| SHEET | | 1 OF 1 | | | | | | | | | | |
| COUNTRY | | ALGERIA | | | | | | | | | | |
| YEAR | | 1994 | | | | | | | | | | |
| STEP 1 | STEP 2 | STEP 3 | | | | | | STEP 4 | | | | |
| A | B | C | D | E | F | G | H | J | K | L | M | N |
| Total Annual MSW Disposed to SWDSs (Gg MSW) | Methane Correction Factor (MCF) | Fraction of DOC in MSW | Fraction of DOC which Actually Degrades | Fraction of Carbon Released as Methane | Conversion Ratio | Potential Methane Generation Rate per Unit of Waste (Gg CH ₄ /Gg MSW) | Realised (Country-specific) Methane Generation Rate per Unit of Waste (Gg CH ₄ /Gg MSW) | Gross Annual Methane Generation (Gg CH ₄) | Recovered Methane per Year (Gg CH ₄) | Net Annual Methane Generation (Gg CH ₄) | One Minus Methane Oxidation Correction Factor | Net Annual Methane Emissions (Gg CH ₄) |
| | | | | | | $G = (C \times D \times E \times F)$ | $H = (B \times G)$ | $J = (H \times A)$ | | $L = (J - K)$ | | $N = (L \times M)$ |
| 1 437.25 | 0.6 | 0.17 | 0.77 | 0.5 | 16/12 | 0.09 | 0.05 | 77.61 | 0 | 77.61 | 1 | 77.61 |
| 1544.13 | 0.6 | 0.17 | 0.77 | 0.5 | 16/12 | 0.09 | 0.05 | 80.85 | 0 | 80.85 | 1 | 80.85 |
| 711.07 | 0.6 | 0.17 | 0.77 | 0.5 | 16/12 | 0.09 | 0.05 | 37.23 | 0 | 37.23 | 1 | 37.23 |

| MODULE | | WASTE | | |
|---|-------------------------------------|--|--|---|
| SUBMODULE | | QUANTITY OF MSW DISPOSED OF IN SOLID WASTE DISPOSAL SITES USING COUNTRY DATA | | |
| WORKSHEET | | 6-1A (SUPPLEMENTAL) | | |
| SHEET | | 1 OF 1 | | |
| COUNTRY | | ALGERIA | | |
| YEAR | | 1994 | | |
| A | B | C | D | E |
| Population whose Waste goes to SWDSs (Urban or Total) (persons) | MSW Generation Rate (kg/capita/day) | Annual Amount of MSW Generated (Gg MSW) | Fraction of MSW Disposed to SWDSs (Urban or Total) | Total Annual MSW Disposed to SWDSs (Gg MSW) |
| | | $C = (A \times B \times 365) / 1\,000\,000$ | | $E = (C \times D)$ |
| 6 617 916 | 0.85 | 2 053.21 | 0.7 | 1 437.25 |
| 8 058 073 | 0.75 | 2 205.90 | 0.7 | 1 544.13 |
| 4 281 597 | 0.65 | 1 015.81 | 0.7 | 711.07 |

| MODULE | | WASTE | |
|----------------------------------|--|---------------------------------|--|
| SUBMODULE | | METHANE CORRECTION FACTOR | |
| WORKSHEET | | 6-1C (SUPPLEMENTAL) | |
| SHEET | | 1 OF 1 | |
| COUNTRY | | ALGERIA | |
| YEAR | | 1994 | |
| Type of Site | W | X | Y |
| | Proportion of Waste (by weight) for Each Type of SWDSs | Methane Correction Factor (MCF) | Weighted Average MCF for Each Type of SWDS |
| | | | $Y = W \times X$ |
| Managed | 0 | 1 | 0.00 |
| Unmanaged - deep (>=5m waste) | 0 | 0.8 | 0.00 |
| Unmanaged - shallow (< 5m waste) | 1 | 0.4 | 0.40 |
| Total | | 0.6 | 0.60 |

| | | | | | |
|----------------------------|---|---|---|---|---|
| MODULE | WASTE | | | | |
| SUBMODULE | METHANE EMISSIONS FROM DOMESTIC AND COMMERCIAL WASTEWATER AND SLUDGE TREATMENT | | | | |
| WORKSHEET | 6-2 | | | | |
| SHEET | 1 OF 4 ESTIMATION OF ORGANIC WASTEWATER AND SLUDGE | | | | |
| COUNTRY | ALGERIA | | | | |
| YEAR | 1994 | | | | |
| STEP 1 | | | | | |
| A Region or City | B Population (1,000 persons) | C Degradable Organic Component (kg BOD/1000 persons/yr) | D Fraction of Degradable Organic Component Removed as Sludge | E Total Domestic/Commercial Organic Wastewater (kg BOD/yr) | F Total Domestic/Commercial Organic Sludge (kg BOD/yr) |
| | | | | $E = [B \times C \times (1-D)]$ | $F = (B \times C \times D)$ |
| | | | | 0.00 | 0.00 |
| Zones urbaines | 18958 | 14235 | 0 | 269 867 130.00 | 0.00 |
| | | | | 0.00 | 0.00 |
| | | | | 0.00 | 0.00 |
| Total: | | | | 269 867 130.00 | 0.00 |

| | | | | | |
|--|---|---|---------------------|---|--|
| MODULE | WASTE | | | | |
| SUBMODULE | METHANE EMISSIONS FROM DOMESTIC AND COMMERCIAL WASTEWATER TREATMENT | | | | |
| WORKSHEET | 6-2 | | | | |
| SHEET | 2 OF 4 ESTIMATION OF EMISSION FACTOR FOR WASTEWATER HANDLING SYSTEMS | | | | |
| COUNTRY | ALGERIA | | | | |
| YEAR | 1994 | | | | |
| STEP 2 | | | | | |
| A Wastewater Handling System | B Fraction of Wastewater Treated by the Handling System | C Methane Conversion Factor for the Handling System | D Product | E Maximum Methane Producing Capacity (kg CH ₄ /kg BOD) | F Emission Factor for Domestic/Commercial Wastewater (kg CH ₄ /kg BOD) |
| | | | $D = (B \times C)$ | | $F = (D \times E)$ |
| lagunage | 0.2 | 0.8 | 0.16 | | |
| | | | 0.00 | | |
| | | | 0.00 | | |
| | | | 0.00 | | |
| Aggregate MCF: | | | 0.16 | 0.25 | 0.04 |

| | | | | | |
|------------------|--|--|--|---|--|
| MODULE | WASTE | | | | |
| SUBMODULE | METHANE EMISSIONS FROM DOMESTIC AND COMMERCIAL WASTEWATER AND SLUDGE TREATMENT | | | | |
| WORKSHEET | 6-2 | | | | |
| SHEET | 4 OF 4 ESTIMATION OF METHANE EMISSIONS FROM DOMESTIC/COMMERCIAL WASTEWATER AND SLUDGE | | | | |
| COUNTRY | ALGERIA | | | | |
| YEAR | 1994 | | | | |
| STEP 4 | | | | | |
| | A Total Organic Product (kg BOD/yr) | B Emission Factor (kg CH ₄ /kg BOD) | C Methane Emissions Without Recovery/Flaring | D Methane Recovered and/or Flared (kg CH ₄) | E Net Methane Emissions (Gg CH ₄) |
| | from Worksheet 6-2, Sheet 1 | from Worksheet 6-2, Sheets 2 and 3 | C = (A x B) | | E = (C - D)/1 000 000 |
| Wastewater | 269 867 130.00 | 0.04 | 10 794 685.20 | | 10.79 |
| Sludge | 0.00 | 0.00 | 0.00 | | 0.00 |
| Total: | | | | | 10.79 |

| MODULE | | WASTE | | | | | |
|--|-----------------|--|------------------------------------|------------------------|--------------|-------------------------|----------------------|
| SUBMODULE | | METHANE EMISSIONS FROM INDUSTRIAL WASTEWATER AND SLUDGE HANDLING | | | | | |
| WORKSHEET | | 6-3 | | | | | |
| SHEET | | 1 OF 4 TOTAL ORGANIC WASTEWATER AND SLUDGE | | | | | |
| COUNTRY | | ALGERIA | | | | | |
| YEAR | | 1994 | | | | | |
| STEP 1 | | | | | | | |
| | | A | B | C | D | E | F |
| | | Total | Degradable | Wastewater | Fraction of | Total Organic | Total Organic Sludge |
| | | Industrial | Organic | Produced | Degradable | Wastewater from | from Industrial |
| | | Output | Component | (m ³ /tonne | Organic | Industrial Source | Source |
| | | (t/yr) | (kg COD/m ³ wastewater) | product) | Component | (kg COD/yr) | (kg COD/yr) |
| | | | | | Removed as | | |
| | | | | | Sludge | | |
| | | | | | | E = [A x B x C x (1-D)] | F = (A x B x C x D) |
| Iron and Steel | | 1 800 000 | 0.006 | 16 | 0 | 172 800.00 | 0.00 |
| Non-ferrous metals | | 24354 | 0.006 | 5 | 0.1 | 657.56 | 73.06 |
| Fertiliser | | 379 500 | 1.3 | 2.1 | 0 | 1 036 035.00 | 0.00 |
| Food & Beverage | Canneries | 6 868 900 | 6 | 1.4 | 0 | 57 698 760.00 | 0.00 |
| | Beer | 407 900 | 1.5 | 5 | 0 | 3 059 250.00 | 0.00 |
| | Wine | 13441 | 13 | 5 | 0 | 873 665.00 | 0.00 |
| | Meatpacking | 3578 | 3 | 72 | | 772 848.00 | 0.00 |
| | Dairy products | 1044040 | 1.5 | 2.8 | 0 | 4 384 968.00 | 0.00 |
| | Sugar | 192 900 | 98 | 2.1 | 0 | 39 698 820.00 | 0.00 |
| | Fish processing | | | | | 0.00 | 0.00 |
| | Oil & grease | 409 100 | 0.3 | 1.6 | 0 | 196 368.00 | 0.00 |
| | Coffee | | | | | 0.00 | 0.00 |
| | Soft drinks | 171 000 | 6 | 2.1 | 0 | 2 154 600.00 | 0.00 |
| | Other | | | | | 0.00 | 0.00 |
| Paper & Pulp | Paper | 142 300 | 3 | 72 | | 30 736 800.00 | 0.00 |
| | Pulp | 3530 | 5 | 72 | | 1 270 800.00 | 0.00 |
| | Other | | | | | 0.00 | 0.00 |
| Petroleum refining/Petrochemicals | | 21 282 000 | 0.35 | 1.2 | 0 | 8 938 440.00 | 0.00 |
| | Bleaching | 146 245 | 1.3 | 1.2 | 0 | 228 142.20 | 0.00 |
| | Dying | | | | | 0.00 | 0.00 |
| | Other | | | | | 0.00 | 0.00 |
| Rubber | | | | | | 0.00 | 0.00 |
| Other | | 31418 | 1.3 | 1.2 | 0 | 49 012.08 | 0.00 |
| | | | | | Total | 151 271 965.84 | 73.06 |

| | | | | | |
|---|---|--|---------------------|--|---|
| MODULE | WASTE | | | | |
| SUBMODULE | METHANE EMISSIONS FROM INDUSTRIAL WASTEWATER TREATMENT | | | | |
| SOURCE | | | | | |
| WORKSHEET | 6-3 | | | | |
| SHEET | 2 OF 4 ESTIMATION OF EMISSION FACTOR FOR WASTEWATER HANDLING SYSTEMS | | | | |
| COUNTRY | ALGERIA | | | | |
| YEAR | 1994 | | | | |
| STEP 2 | | | | | |
| A Wastewater Handling System | B Fraction of Wastewater Treated by the Handling System | C Methane Conversion Factor (MCF) | D Product | E Maximum Methane Producing Capacity (kg CH ₄ /kg DC) | F Emission Factor for Industrial Wastewater Source (kg CH ₄ /kg COD) |
| | | | D = (B x C) | | F = (D x E) |
| lagunage | 0.1 | 0.8 | 0.08 | | |
| | | | 0.00 | | |
| | | | 0.00 | | |
| | | | 0.00 | | |
| Aggregate MCF: | | | 0.08 | 0.25 | 0.02 |

| | | | | | |
|------------------|---|---|--|--|---|
| MODULE | WASTE | | | | |
| SUBMODULE | METHANE EMISSIONS FROM INDUSTRIAL WASTEWATER AND SLUDGE TREATMENT | | | | |
| WORKSHEET | 6-3 | | | | |
| SHEET | 4 OF 4 ESTIMATION OF METHANE EMISSIONS FROM INDUSTRIAL WASTEWATER AND SLUDGE | | | | |
| COUNTRY | ALGERIA | | | | |
| YEAR | 1994 | | | | |
| STEP 4 | | | | | |
| | A Total Organic Product (kg COD/yr) | B Emission Factor (kg CH ₄ /kg COD) | C Methane Emissions without Recovery/Flaring | D Methane Recovered and/or Flared (kg CH ₄) | E Net Methane Emissions (Gg CH ₄) |
| | Worksheet 6-3, Sheet 1 | Worksheets 6-3, Sheets 2 and 3 | C = (A x B) | | E = (C - D) / 1 000 000 |
| Wastewater | 151 271 965.84 | 0.02 | 3 025 439.32 | | 3.03 |
| Sludge | 73.06 | 0.00 | 0.00 | | 0.00 |
| Total: | | | | | 3.03 |

| | | | | | |
|------------------|---|---------------------|---|---|---|
| MODULE | WASTE | | | | |
| SUBMODULE | INDIRECT NITROUS OXIDE EMISSIONS FROM HUMAN SEWAGE | | | | |
| WORKSHEET | 6-4 | | | | |
| SHEET | 1 OF 1 | | | | |
| COUNTRY | ALGERIA | | | | |
| YEAR | 1994 | | | | |
| | A | B | C | D | E |
| | Per Capita Protein Consumption (Protein in kg/person/yr) | Population (number) | Fraction of Nitrogen in Protein F_{NPR} (kg N/kg protein) | Emission factor EF_6 (kg N ₂ O-N/kg sewage-N produced) | Total Annual N ₂ O Emissions (Gg N ₂ O/yr) |
| | | | | | $E = (A \times B \times C \times D) \times (44/28) / 1\,000\,000$ |
| Total | 20 | 26743075 | 0.16 | 0.01 | 1.34 |