

I. NAP summary table – target calculation
(Grey fields are filled out automatically)

| Row | Data table no. | | Emissions (Mt CO ₂ eq) |
|--|----------------|---|-----------------------------------|
| A | | Target under Kyoto Protocol or Burden Sharing Agreement (avg. annual GHG emissions 2008-12) | 138,8 |
| B | III | <i>Total GHG emissions 2003 (excluding LULUCF emissions and removals)</i> | 137,3 |
| C | | Difference +/- (row A - row B) (negative means need to reduce) | 1,5 |
| D | III | <i>Av. annual projected total GHG emissions 2008-2012 ('with measures' projection)</i> | 152,4 |
| E | | Difference +/- (row A - row D) (negative means need to reduce) | -13,6 |
| Reduction measures (where relevant) | | | |
| F | V | EU emissions trading scheme [1], [2] | -7,4 |
| G | VI | Additional policies and measures (other than emissions trading), including LULUCF | -6,3 |
| H | VII | Government purchase of Kyoto mechanisms | 0,0 |
| I | | Total reduction measures (row F + row G + row H) | -13,7 |

[1] Please insert average annual contribution to reduction (in negative figure)

[2] Please insert the figure in Table V, Line L, Column iv minus the annual average emissions in 2008-2012 in the ETS sector under the business as usual scenario

Ila NAP Summary table – Basic data
(Grey fields are filled out automatically)

| | | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | |
|------|---|----------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------------------|-------------|
| A | Real GDP [1] (in billion €2000) | Absolute | 97,7 | 100,8 | 101,5 | 99,9 | 101,9 | 104,0 | 106,5 | 110,3 | 114,0 | 118,0 | 123,2 | 128,4 |
| | | Trend index 2003=100 | 70,03 | 72,26 | 72,73 | 71,62 | 73,06 | 74,56 | 76,31 | 79,09 | 81,73 | 84,58 | 88,31 | 92,04 |
| B | Emissions [1] (Mt of CO2) [2] | Absolute | 84,3 | 83,9 | 85,2 | 85,4 | 87,3 | 87,4 | 89,6 | 94,4 | 99,0 | 98,1 | 104,0 | 106,2 |
| | | Trend index 2003=100 | 76,71 | 76,30 | 77,55 | 77,70 | 79,43 | 79,54 | 81,54 | 85,85 | 90,04 | 89,29 | 94,59 | 96,63 |
| C | Carbon intensity [1] (million tonnes CO2 / billion €) | Absolute | 0,86 | 0,83 | 0,84 | 0,85 | 0,86 | 0,84 | 0,84 | 0,86 | 0,87 | 0,83 | 0,84 | 0,83 |
| | | Trend index 2003=100 | 109,54 | 105,60 | 106,63 | 108,49 | 108,72 | 106,69 | 106,85 | 108,54 | 110,16 | 105,57 | 107,11 | 104,98 |
| Year | | | | | | | | | | | | | | |
| | | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | Annual average 2008-2012 | |
| A | Real GDP [1] (in billion €2000) | Absolute | 133,3 | 139,5 | 145,3 | 149,6 | 155,1 | 160,8 | 166,7 | 172,8 | 179,2 | 185,4 | 191,8 | 179,17 |
| | | Trend index 2003=100 | 95,54 | 100 | 104,17 | 107,24 | 111,17 | 115,26 | 119,49 | 123,88 | 128,43 | 132,87 | 137,47 | 128,43 |
| B | Emissions [1] (Mt of CO2) [2] | Absolute | 105,9 | 109,9 | 110,3 | 112,9 | 116,5 | 117,9 | 120,6 | 122,1 | 125,9 | 127,8 | 128,4 | 124,98 |
| | | Trend index 2003=100 | 96,35 | 100 | 100,33 | 102,71 | 105,97 | 107,29 | 109,76 | 111,05 | 114,59 | 116,30 | 116,86 | 113,71 |
| C | Carbon intensity [1] (million tonnes CO2 / billion €) | Absolute | 0,79 | 0,79 | 0,76 | 0,75 | 0,75 | 0,73 | 0,72 | 0,71 | 0,70 | 0,69 | 0,67 | 0,70 |
| | | Trend index 2003=100 | 100,85 | 100 | 96,32 | 95,78 | 95,32 | 93,09 | 91,86 | 89,64 | 89,22 | 87,53 | 85,01 | 88,65 |

[1] Indicate data source(s), separately per year where relevant.

[2] Please note that contrary to the explanation of Table Ila on page 34 of the English version of the NAP2 guidance communication, we are requesting here only CO2 and not total greenhouse gas emissions.

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NAP Summary table – Basic data on electricity sector [1]
(Grey fields are filled out automatically)

| | Year | 2000 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | Average 2008-2012 |
|---|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
| A | Total domestic electricity production (TWh) | 49,30 | 53,50 | 53,80 | 56,41 | 57,95 | 59,13 | 60,81 | 62,78 | 65,12 | 66,94 | 70,71 | 65,27 |
| B | Total Imports (TWh) | 1,73 | 4,17 | 4,85 | 4,19 | 4,19 | 4,88 | 4,88 | 4,88 | 4,65 | 4,65 | 2,91 | 4,40 |
| | B/a Country 1 | 1,73 | 4,17 | 4,85 | 4,19 | 4,19 | 4,88 | 4,88 | 4,88 | 4,65 | 4,65 | 2,91 | 4,40 |
| | B/b Country n | | | | | | | | | | | | #DIV/0! |
| | B/c Other countries | | | | | | | | | | | | #DIV/0! |
| C | Total Exports (Twh) | 1,74 | 2,08 | 2,03 | 2,04 | 2,04 | 2,04 | 2,04 | 2,04 | 2,04 | 2,04 | 2,04 | 2,04 |
| | C/a Country 1 | 1,74 | 2,08 | 2,03 | 2,04 | 2,04 | 2,04 | 2,04 | 2,04 | 2,04 | 2,04 | 2,04 | 2,04 |
| | C/b Country n | | | | | | | | | | | | #DIV/0! |
| | C/c Other countries | | | | | | | | | | | | #DIV/0! |
| D | Electricity trade balance (TWh, total row B - total row C) | -0,01 | 2,09 | 2,82 | 2,15 | 2,15 | 2,84 | 2,84 | 2,84 | 2,61 | 2,61 | 0,87 | 2,36 |
| E | Share of gas in total domestic electricity production (%) | 11,0% | 13,7% | 15,2% | 18,5% | 20,9% | 21,3% | 22,2% | 23,3% | 26,2% | 28,3% | 33,3% | 26,7% |
| F | Share of oil in total domestic electricity production (%) | 16,5% | 14,9% | 14,1% | 13,9% | 13,6% | 13,1% | 13,0% | 12,7% | 10,6% | 10,2% | 7,8% | 10,9% |
| G | Share of coal in total domestic electricity production (%) | 64,0% | 60,6% | 60,1% | 56,6% | 55,2% | 53,2% | 51,4% | 49,8% | 48,3% | 47,3% | 43,6% | 48,1% |
| H | Share of nuclear energy in total domestic electricity production (%) | 0,0% | 0,0% | 0,0% | 0,0% | 0,0% | 0,0% | 0,0% | 0,0% | 0,0% | 0,0% | 0,0% | 0,0% |
| I | Share of renewable energy, including biomass, in total domestic electricity production (%) [2] | 8,5% | 10,9% | 10,7% | 11,0% | 10,3% | 12,4% | 13,4% | 14,3% | 14,9% | 14,2% | 15,3% | 14,4% |

[1] [Indicate data source\(s\), separately per year where relevant.](#)

[2] [The cell in row I for the year 2010 should also include \(in footnote\) the target pursuant to Directive 2001/77/EC.](#)

IV NAP Summary table – Recent and projected CO₂ emissions in sectors covered by the EU emissions trading scheme

(Grey fields are filled out automatically)

| | Emissions in Mt CO ₂ eq | i | ii | iii [3] | iv | v | vi | vii | viii | ix | x | xi |
|---|---|--------|--------|---------|-------|-------|--------|--------|--------|--------|--------|--|
| | Year | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | Average annual projected emissions 2008 – 2012 [1] |
| A | combustion installations total (excluding installations covered under rows B-J) | 53,45 | 54,85 | 53,77 | 57,63 | 58,01 | 58,51 | 58,86 | 59,15 | 59,92 | 59,39 | 59,16 |
| | Electricity generation | 52,32 | 53,77 | 52,63 | 56,43 | 56,62 | 57,29 | 57,63 | 57,92 | 58,68 | 58,14 | 57,93 |
| | Other combustion | 1,13 | 1,08 | 1,13 | 1,20 | 1,39 | 1,22 | 1,23 | 1,23 | 1,24 | 1,24 | 1,23 |
| | flaring | | | | | | | | | | | #DIV/0! |
| | integrated steelworks | | | | | | | | | | | #DIV/0! |
| | crackers | | | | | | | | | | | #DIV/0! |
| | furnaces | | | | | | | | | | | #DIV/0! |
| | main activity n | | | | | | | | | | | #DIV/0! |
| B | mineral oil refineries | 3,53 | 3,54 | 3,64 | 4,64 | 5,35 | 5,98 | 6,05 | 8,54 | 8,54 | 8,54 | 7,53 |
| C | coke ovens | | | | | | | | | | | #DIV/0! |
| D | metal ore roasting, sintering, pig iron and steel producing installations | 1,22 | 1,28 | 1,25 | 1,36 | 1,44 | 1,54 | 1,59 | 1,65 | 1,71 | 1,77 | 1,65 |
| E | cement producing installations | 10,57 | 10,76 | 10,97 | 11,17 | 11,38 | 11,59 | 11,80 | 12,01 | 12,23 | 12,46 | 12,02 |
| F | lime producing installations | 0,64 | 0,82 | 0,59 | 0,90 | 0,95 | 0,99 | 1,04 | 1,10 | 1,15 | 1,21 | 1,10 |
| G | glass and glass fibre producing installations | 0,10 | 0,05 | 0,07 | 0,06 | 0,06 | 0,06 | 0,06 | 0,06 | 0,06 | 0,06 | 0,06 |
| H | ceramics producing installations | 0,81 | 0,72 | 0,77 | 0,96 | 0,99 | 1,03 | 1,06 | 1,10 | 1,14 | 1,18 | 1,10 |
| I | pulp, paper and board producing installations | 0,19 | 0,19 | 0,19 | 0,25 | 0,25 | 0,25 | 0,26 | 0,26 | 0,27 | 0,27 | 0,26 |
| J | Total (ΣRows A and B to I) [2] | 70,51 | 72,20 | 71,25 | 76,97 | 78,42 | 79,95 | 80,72 | 83,87 | 85,02 | 84,88 | 82,89 |
| K | Share of EU ETS CO₂ in total GHG emissions (%) (Row J / Row N in table III) | 51,36% | 52,46% | 50,18% | | | 54,42% | 54,16% | 54,56% | 54,51% | 54,29% | 54,39% |

[1] Numbers to be used in last two columns of Table V.

[2] Row J must be equal to Row O in Table III:
70,51 72,20 71,33 76,97 78,42 79,95 80,72 83,87 85,02 84,88 82,89

[3] Please note that the figures in this column derive from the verified emission reports submitted by the installations to the Competent Authority before or on March 31, 2012.

V NAP Summary table – Proposed allocation in relation to first period allocation (without additional policies and measures) in the sectors covered by the EU emissions trading scheme

(Grey fields are filled out automatically)

| | | i | ii | iii | iv | v |
|---|--|---|---|---------------------------------------|---|--|
| | | 2003 actual CO ₂ emissions (Mt CO ₂) | 2004 actual CO ₂ emissions (Mt CO ₂) | Average annual allocation 2005 - 2007 | Proposed average annual allocation in 2008-2012 | Proposed ETS allocation as a percentage of first period ETS allocation |
| A | combustion installations total (excluding installations covered under rows B-J) | 53,45 | 54,85 | 55,64 | 52,87 | 95,03% |
| | Electricity generation | 52,32 | 53,77 | 54,44 | 51,72 | 95,0% |
| | Other combustion | 1,13 | 1,08 | 1,20 | 1,15 | 95,8% |
| | flaring | 0,00 | 0,00 | | | #DIV/0! |
| | integrated steelworks | 0,00 | 0,00 | | | #DIV/0! |
| | crackers | 0,00 | 0,00 | | | #DIV/0! |
| | furnaces | 0,00 | 0,00 | | | #DIV/0! |
| | main activity n | 0,00 | 0,00 | | | #DIV/0! |
| B | mineral oil refineries | 3,53 | 3,54 | 4,06 | 7,17 | 176,5% |
| C | coke ovens | 0,00 | 0,00 | | | #DIV/0! |
| D | metal ore roasting, sintering, pig iron and steel producing installations | 1,22 | 1,28 | 1,56 | 1,61 | 103,2% |
| F | cement producing installations | 10,57 | 10,76 | 11,26 | 11,48 | 101,9% |
| G | lime producing installations | 0,64 | 0,82 | 0,75 | 1,06 | 140,8% |
| H | glass and glass fibre producing installations | 0,10 | 0,05 | 0,11 | 0,06 | 52,6% |
| I | ceramics producing installations | 0,81 | 0,72 | 0,81 | 1,02 | 125,4% |
| J | pulp, paper and board producing installations | 0,19 | 0,19 | 0,21 | 0,24 | 113,9% |
| L | Total | 70,51 | 72,20 | 74,40 | 75,50 | 101,5% |

NAP Summary table – Reductions expected by policies and measures other than the EU emissions trading scheme and which have not been taken into account for the "with measures" projection presented in Table III (Mt CO₂e)

| | Measures | i | ii | iii | iv | v | vi | vii | viii | ix |
|-----|---|---|--------------------|------------------------------------|---|--------------------|------------------------------------|---|--------------------|------------------------------------|
| | | Under implementation [1] | | | Adopted [2] | | | Planned [3] | | |
| | | Expected average annual reduction (2008-12) | | Full effects expected as from year | Expected average annual reduction (2008-12) | | Full effects expected as from year | Expected average annual reduction (2008-12) | | Full effects expected as from year |
| | | In ETS sectors | In non-ETS sectors | | In ETS sectors | In non-ETS sectors | | In ETS sectors | In non-ETS sectors | |
| A | Energy conservation in buildings | | | | 1,8 | 0,7 | 2010 | | | |
| B | Promotion of public means of transport | | | | | 0,6 | 2010 | | | |
| C | Further penetration of cleaner fuels and energy conservation measures in industry | | | | | 0,3 | 2010 | | | |
| D | Promotion of RES in electricity generation | | | | 2,4 | | 2010 | | | |
| E | Combustion of biogas | | | | | 0,2 | 2010 | | | |
| F | Manure management systems and organic farming | | | | | 0,1 | 2010 | | | |
| G | Recovery of HFC from final disposal of appliances | | | | | 0,2 | 2010 | | | |
| H | | | | | | | | | | |
| I | | | | | | | | | | |
| ... | | | | | | | | | | |
| X | Subtotal | 0,00 | 0,00 | | 4,20 | 2,10 | | 0,00 | 0,00 | |
| | Total (equal to row G in Table I) | | | | | 6,30 | | | | |

[1] Implementation is ongoing, and the measure is not taken into account for the "with measures" projections presented in Table III. As regards the year, Member States should indicate the year where the full or a substantial part of the effects can be expected, not the first year of implementation.

[2] The measure has been adopted by the final instance at the relevant local, regional or national level, but it is not yet implemented.

[3] The measure is at least mentioned in a formal government document.

VII

NAP Summary table – Government's planned use of Kyoto units (Mt CO₂eq) and status of implementation

(Grey fields are filled out automatically)

| | | ERUs | CERs | AAUs and others | Total | |
|---|---|--------------------------------------|---------|-----------------|---------|---------|
| A | Planned purchase | Total 2008-2012 | | | 0,00 | |
| B | | Annual average | 0 | 0 | 0 | 0,00 |
| C | Quantity of units already paid for | | | | 0,00 | |
| D | Quantity of units contracted, but yet unpaid (delivery pending start of UN ITL) [1] | | | | 0,00 | |
| E | Neither bought nor contracted by date of notification (A - C - D) | | 0 | 0 | 0 | 0,00 |
| F | Full budget appropriated to first commitment period (2008-12) | Currently available for 2006 (M EUR) | | | | 0,00 |
| G | | Committed for the future (M EUR) [2] | | | | 0,00 |
| H | Implied future price M EUR/Mt CO ₂ eq ((F+G)/E) | | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! |

[1] Units partially paid for should be proportionally distributed between lines C and D

[2] Row G should not include the sums intended to cover payments for units represented in row D

NAP Summary table – Details on new entrants, closures and auctioning

| Issues with respect to new entrants | Description of NAP provisions |
|--|--|
| Does the plan contain a new entrants' reserve? | Yes |
| What is its size in absolute terms and as a percentage of the total quantity of allowances for the period? | 30,780,459 t CO ₂ , 8.2% of the total quantity of allowances for the period 2008-2012 |
| What use is made of allowances left over in the reserve at the end of the trading period? (cancellation, sold) | Auctioning (up to 10%) of the total quantity of allowances and cancellation for the rest of allowances if any |
| How will new entrants be treated in case the reserve runs out of allowances before the end of the trading period? (reserve replenished, further new entrants buy in the market) | Further new entrants buy in the market |
| Does the allocation to the new entrant depend on the actual choice of fuel? | Yes |
| Does the allocation to the new entrant depend on the actual choice of technology? | Yes |
| Does the allocation to the new entrant depend on the estimated or actual number of operating hours or does the allocation use a standard number of operating hours? | The allocation to the new entrant depends on the actual number of operating hours of similar installations |
| Auctioning | |
| Will any allowances be auctioned? | Possibly (the annual unused allowances of the new entrants reserve) |
| What share of the total quantity of allowances will be auctioned? | Up to the 10% of the total allowances |
| Who can participate in the auction? | All account holders in EU National Registries |
| What auctioning method will be used? | Not decided yet |
| When/at what intervals will the auction(s) be held? | No more than once per year |
| What quantity of allowances will be auctioned each time? | Part of the annual unused allowances of the new entrants reserve |
| What use will be made of the revenues? | Not decided yet |
| Will the auctions be coordinated with any auctions in other Member States? | Not necessarily |
| Closures | |
| Do operators have to report to the competent authority when an installation closes, and on what conditions is an installation considered to be closed? | Yes. The following conditions are defined: The operation permit for an installation is removed / withdrawn by the competent authority. The operator of the installation has provided written notification to the competent authority for the provision of the greenhouse gas emission permit stating that he will no longer be in operation. The closure is a result of a court order (e.g. bankruptcy). The installation has permanently modified its activity, |
| Does the operator continue to be issued allowances for a closed installation in the remaining years of the trading period? If the reply depends on whether the operator sets up a new entrant installation replacing the closed installation, please briefly describe the provision. | It depends on whether the operator sets up a new entrant installation replacing the closed installation. The relevant provisions are described in Paragraph 3.2.1.3 (transfer rules) |
| What happens to any allowances that were intended for an installation, which will not receive them after closure? (cancellation, fed into a new entrants' reserve, auctioning) | The allowances will be fed into the new entrants' reserve |

IX

NAP Summary table – Further details on selected new entrants

| | Power plant with a rated thermal input exceeding 20 MW | Power plant with a rated thermal input exceeding 20 MW |
|---|---|---|
| Maximum capacity of the actual installation | (At least 100 MW) | (At least 100 MW) |
| Fuel (s) used | Coal | Gas |
| Forecast number of operating hours/year in the period 2008 to 2012 | | 5000 |
| Annual allowance allocation in 2008 to 2012 | | 193223 |

X

NAP Summary table - Important assumptions on annual averages

| Year | EU Allowance price (in Euro) | Crude oil price (Brent) \$2000/bbl | Natural gas price \$2000/toe | Coal price \$2000/t | Exchange rate [2] | Other |
|------|------------------------------|------------------------------------|------------------------------|---------------------|-------------------|-------|
| 2005 | | 48,7 | 199 | 39,5 | | |
| 2006 | | 46,8 | 204 | 38,7 | | |
| 2007 | | 45,1 | 208 | 38,2 | | |
| 2008 | | 43,4 | 213 | 38,0 | | |
| 2009 | | 41,7 | 218 | 37,6 | | |
| 2010 | | 40,2 | 223 | 37,2 | | |
| 2011 | | 40,2 | 223 | 37,0 | | |
| 2012 | | 40,3 | 224 | 36,7 | | |

[1] Use common market standard and specify, including the currency used; indicate in detail sources of data and methodologies

[2] For those Member States outside the Euro-zone