

Annex A. Background Tables for Policy Simulations

Table A.1. Real GDP growth (percentage)

	2002-10	2010-20	2020-30
OECD	2.8	2.2	2.0
North America	3.6	2.5	2.3
<i>US & Canada</i>	3.5	2.4	2.3
<i>Mexico</i>	5.0	3.6	3.1
Europe	2.2	2.1	1.8
Pacific	2.0	1.8	1.3
<i>Asia</i>	1.9	1.7	1.2
<i>Oceania</i>	3.5	2.5	2.2
Transition economies and other Europe	5.5	3.7	3.4
<i>Russia</i>	5.4	3.9	3.6
<i>Other EECCA</i>	6.6	3.5	3.2
<i>Other economies</i>	4.8	3.5	3.1
Developing countries	6.0	4.2	3.9
East and Southeast Asia and Oceania	7.0	4.7	4.0
<i>China</i>	8.0	4.9	4.1
<i>Indonesia</i>	5.7	4.5	3.9
<i>Other East Asia</i>	5.3	4.3	3.7
South Asia	7.0	5.1	4.5
<i>India</i>	7.1	5.2	4.5
<i>Other South Asia</i>	6.8	4.8	4.4
Middle East	5.2	3.6	3.9
Africa	5.7	4.2	4.4
<i>Northern Africa</i>	5.7	4.3	4.1
<i>Republic of South Africa</i>	3.6	2.2	2.4
<i>Other sub-Saharan Africa</i>	6.6	4.9	5.3
Latin America	4.2	2.9	2.8
<i>Brazil</i>	3.3	2.8	2.5
<i>Other Latin America</i>	5.3	3.1	3.1
<i>Central America and Caribbean</i>	2.9	2.7	2.6
World	3.5	2.7	2.5
European Union (25)	2.2	2.0	1.7
BRIICS	6.6	4.5	3.9
ROW	5.3	3.9	3.7

Source: Env-Linkages/IMAGE model analysis.

Table A.2. Real GDP growth in PPP (percentage)

	2002-10	2010-20	2020-30
OECD	2.8	2.4	2.1
North America	3.4	2.6	2.4
<i>US & Canada</i>	3.5	2.5	2.3
<i>Mexico</i>	4.5	3.8	3.1
Europe	2.3	2.3	1.9
Pacific	2.3	2.0	1.5
<i>Asia</i>	2.1	1.9	1.4
<i>Oceania</i>	3.7	2.6	2.2
Transition economies and other Europe	5.8	3.7	3.5
<i>Russia</i>	5.5	3.9	3.7
<i>Other EECCA</i>	6.9	3.5	3.3
<i>Other economies</i>	4.9	3.5	3.1
Developing countries	6.4	4.5	4.0
East and Southeast Asia and Oceania	7.4	4.8	4.0
<i>China</i>	8.2	5.0	4.2
<i>Indonesia</i>	5.5	4.6	4.0
<i>Other East Asia</i>	5.4	4.3	3.6
South Asia	7.0	5.2	4.5
<i>India</i>	7.1	5.3	4.6
<i>Other South Asia</i>	6.7	4.9	4.5
Middle East	5.5	3.6	3.9
Africa	5.7	4.1	4.4
<i>Northern Africa</i>	5.7	4.4	4.2
<i>Republic of South Africa</i>	3.9	2.1	2.4
<i>Other sub-Saharan Africa</i>	6.6	4.8	5.2
Latin America	3.6	2.9	2.8
<i>Brazil</i>	3.3	2.8	2.6
<i>Other Latin America</i>	4.2	3.1	3.1
<i>Central America & Caribbean</i>	2.8	2.7	2.6
World	4.4	3.4	3.1
European Union (25)	2.1	2.1	1.8
BRICS	6.9	4.7	4.1
ROW	5.4	4.0	3.8

Source: Env-Linkages/IMAGE model analysis.

Table A.3. TFP growth (percentage)

	2002-10	2010-20	2020-30
OECD	1.1	0.9	0.8
North America	1.4	0.9	0.9
<i>US & Canada</i>	1.4	0.9	1.0
<i>Mexico</i>	0.9	-0.2	-0.1
Europe	0.9	0.9	0.7
Pacific	0.8	0.8	0.7
<i>Asia</i>	0.7	0.8	0.7
<i>Oceania</i>	1.5	0.7	0.8
Transition economies and other Europe	5.4	3.1	3.0
<i>Russia</i>	5.6	3.4	3.2
<i>Other EECCA</i>	6.4	2.5	2.2
<i>Other economies</i>	4.2	2.8	3.1
Developing countries	2.7	0.8	0.9
East and Southeast Asia and Oceania	2.6	1.0	1.0
<i>China</i>	3.2	1.2	1.2
<i>Indonesia</i>	0.7	0.1	0.1
<i>Other East Asia</i>	1.7	0.7	0.7
South Asia	1.9	0.6	0.7
<i>India</i>	1.8	0.6	0.6
<i>Other South Asia</i>	2.4	0.9	1.2
Middle East	2.1	-1.0	-0.4
Africa	4.4	1.6	1.7
<i>Northern Africa</i>	4.8	2.0	1.4
<i>Republic of South Africa</i>	2.0	0.5	0.9
<i>Other sub-Saharan Africa</i>	5.3	1.6	2.1
Latin America	2.8	0.9	0.9
<i>Brazil</i>	1.8	1.0	0.8
<i>Other Latin America</i>	4.4	0.7	0.8
<i>Central America and Caribbean</i>	0.5	1.0	1.3
World	1.5	0.9	0.9
European Union (25)	0.8	0.9	0.8
BRIICS	2.8	1.2	1.2
ROW	3.3	1.2	1.2

Source: Env-Linkages/IMAGE model analysis.

Table A.4. Capital growth (percentage)

	2002-10	2010-20	2020-30
OECD	3.7	3.6	3.0
North America	4.5	3.9	3.2
<i>US & Canada</i>	4.5	3.7	3.1
<i>Mexico</i>	5.1	5.6	4.6
Europe	3.0	3.5	3.0
Pacific	3.4	3.2	2.8
<i>Asia</i>	3.3	3.1	2.7
<i>Oceania</i>	4.9	4.3	3.4
Transition economies and other Europe	3.9	4.5	4.0
<i>Russia</i>	4.1	4.9	4.4
<i>Other EECCA</i>	3.4	4.1	3.9
<i>Other economies</i>	3.8	3.9	3.2
Developing countries	7.2	7.1	5.6
East and Southeast Asia and Oceania	10.8	8.2	5.8
<i>China</i>	12.6	8.8	6.0
<i>Indonesia</i>	8.6	7.2	5.5
<i>Other East Asia</i>	7.4	6.9	5.4
South Asia	9.5	8.2	6.1
<i>India</i>	9.9	8.4	6.2
<i>Other South Asia</i>	8.3	7.3	5.7
Middle East	4.7	6.9	6.0
Africa	2.8	4.2	4.8
<i>Northern Africa</i>	2.1	4.0	4.9
<i>Republic of South Africa</i>	3.3	3.3	3.0
<i>Other sub-Saharan Africa</i>	3.3	4.9	5.7
Latin America	1.7	3.1	3.5
<i>Brazil</i>	1.9	3.0	3.4
<i>Other Latin America</i>	1.2	3.5	4.0
<i>Central America and Caribbean</i>	2.8	2.3	2.2
World	4.4	4.4	3.8
European Union (25)	3.0	3.4	2.9
BRIICS	9.1	7.7	5.7
ROW	4.4	5.3	4.8

Source: Env-Linkages/IMAGE model analysis.

Table A.5. Labour growth (hours worked, percentage)

	2002-10	2010-20	2020-30
OECD	0.6	0.4	0.2
North America	1.2	0.9	0.7
<i>US & Canada</i>	0.9	0.6	0.5
<i>Mexico</i>	2.4	1.9	1.3
Europe	0.4	0.2	0.0
Pacific	0.1	-0.2	-0.5
<i>Asia</i>	0.0	-0.3	-0.7
<i>Oceania</i>	1.0	0.7	0.4
Transition economies and other Europe	0.2	-0.3	-0.2
<i>Russia</i>	-0.2	-0.6	-0.4
<i>Other EECCA</i>	0.6	0.1	0.1
<i>Other economies</i>	0.1	-0.3	-0.4
Developing countries	1.8	1.4	1.2
East and Southeast Asia and Oceania	1.3	0.8	0.4
<i>China</i>	1.1	0.5	0.2
<i>Indonesia</i>	1.5	1.2	0.8
<i>Other East Asia</i>	1.8	1.3	0.9
South Asia	2.2	1.8	1.4
<i>India</i>	2.0	1.6	1.3
<i>Other South Asia</i>	2.7	2.2	1.9
Middle East	3.1	2.5	2.3
Africa	2.7	2.6	2.5
<i>Northern Africa</i>	2.5	2.0	1.9
<i>Republic of South Africa</i>	0.8	0.6	0.5
<i>Other sub-Saharan Africa</i>	2.9	2.8	2.8
Latin America	1.8	1.5	1.1
<i>Brazil</i>	1.5	1.3	1.0
<i>Other Latin America</i>	1.9	1.6	1.2
<i>Central America and Caribbean</i>	2.0	1.6	1.3
World	1.5	1.2	1.0
European Union (25)	0.2	-0.1	-0.2
BRIICS	1.4	1.0	0.7
ROW	2.1	1.8	1.7

Source: Env-Linkages/IMAGE model analysis.

Table A.6. Investment share (percentage)

	2005	2030
OECD	22	26
North America	21	22
<i>US & Canada</i>	20	21
<i>Mexico</i>	26	33
Europe	21	28
Pacific	27	34
<i>Asia</i>	27	35
<i>Oceania</i>	24	28
Transition economies and other Europe	20	26
<i>Russia</i>	20	29
<i>Other EECCA</i>	15	20
<i>Other economies</i>	24	24
Developing countries	28	38
East and Southeast Asia and Oceania	40	49
<i>China</i>	46	54
<i>Indonesia</i>	30	35
<i>Other East Asia</i>	31	40
South Asia	31	38
<i>India</i>	32	40
<i>Other South Asia</i>	28	32
Middle East	15	36
Africa	17	22
<i>Northern Africa</i>	15	22
<i>Republic of South Africa</i>	23	25
<i>Other sub-Saharan Africa</i>	15	21
Latin America	14	18
<i>Brazil</i>	16	22
<i>Other Latin America</i>	11	17
<i>Central America & Caribbean</i>	18	15
World	23	29
European Union (25)	21	27
BRIICS	35	44
ROW	21	27

Source: Env-Linkages/IMAGE model analysis.

Table A.7. Regional distribution of GDP (percentage)

	2005	2030
OECD	54.8	42.0
North America	23.9	19.8
<i>US & Canada</i>	22.1	17.8
<i>Mexico</i>	1.8	2.0
Europe	21.5	15.9
Pacific	9.3	6.3
<i>Asia</i>	8.1	5.3
<i>Oceania</i>	1.2	1.0
Transition economies and other Europe	4.7	5.1
<i>Russia</i>	2.6	2.9
<i>Other EECCA</i>	1.2	1.3
<i>Other economies</i>	0.9	0.9
Developing countries	40.5	52.9
East and Southeast Asia and Oceania	20.0	27.7
<i>China</i>	14.0	20.3
<i>Indonesia</i>	1.5	1.9
<i>Other East Asia</i>	4.6	5.4
South Asia	7.9	11.9
<i>India</i>	6.3	9.5
<i>Other South Asia</i>	1.6	2.3
Middle East	2.4	2.7
Africa	4.0	5.2
<i>Northern Africa</i>	1.3	1.7
<i>Republic of South Africa</i>	0.9	0.7
<i>Other sub-Saharan Africa</i>	1.7	2.7
Latin America	6.2	5.6
<i>Brazil</i>	2.6	2.2
<i>Other Latin America</i>	2.6	2.5
<i>Central America and Caribbean</i>	0.9	0.8
World	100.0	100.0
European Union (25)	20.1	14.2
BRIICS	27.9	37.7
ROW	14.9	17.7

Source: Env-Linkages/IMAGE model analysis.

Table A.8. GDP per capita (USD 1 000 PPP 2001)

	2005	2030
OECD	31 006	48 272
North America	36 036	55 634
<i>US & Canada</i>	37 583	58 470
<i>Mexico</i>	9 518	19 137
Europe	26 139	40 642
Pacific	27 441	40 439
<i>Asia</i>	27 318	40 000
<i>Oceania</i>	28 732	43 956
Transition economies and other Europe	8 926	25 909
<i>Russia</i>	10 164	30 434
<i>Other EECCA</i>	4 951	12 317
<i>Other economies</i>	9 238	25 932
Developing countries	6 815	16 266
East and Southeast Asia and Oceania	7 913	22 949
<i>China</i>	5 897	18 200
<i>Indonesia</i>	3 660	9 059
<i>Other East Asia</i>	12 553	36 684
South Asia	2 992	7 812
<i>India</i>	3 188	8 580
<i>Other South Asia</i>	2 337	5 138
Middle East	6 908	11 701
Africa	4 692	8 086
<i>Northern Africa</i>	4 874	10 468
<i>Republic of South Africa</i>	10 914	19 751
<i>Other sub-Saharan Africa</i>	1 392	3 022
Latin America	7 605	12 422
<i>Brazil</i>	7 856	12 373
<i>Other Latin America</i>	7 717	13 178
<i>Central America and Caribbean</i>	6 702	9 948
World	25 809	38 537
European Union (25)	26 141	41 253
BRIICS	6 259	16 489
ROW	7 979	19 316

Source: Env-Linkages/IMAGE model analysis.

Table A.9. GDP per capita growth (percentage)

	2002-10	2010-20	2020-30
OECD	2.2	1.9	1.7
North America	2.7	1.9	1.8
<i>US & Canada</i>	2.6	1.8	1.8
<i>Mexico</i>	3.7	3.0	2.6
Europe	1.7	1.8	1.6
Pacific	1.8	1.9	1.7
<i>Asia</i>	1.7	1.9	1.7
<i>Oceania</i>	2.9	1.8	1.6
Transition economies and other			
Europe	6.3	4.4	4.2
<i>Russia</i>	6.4	4.7	4.6
<i>Other EECCA</i>	7.1	3.7	3.6
<i>Other economies</i>	5.5	4.1	3.9
Developing countries	5.0	3.5	3.4
East and Southeast Asia and Oceania	6.7	4.4	4.0
<i>China</i>	8.0	4.8	4.3
<i>Indonesia</i>	4.7	4.0	3.6
<i>Other East Asia</i>	4.6	3.8	3.5
South Asia	5.7	4.1	3.7
<i>India</i>	5.9	4.3	3.9
<i>Other South Asia</i>	4.9	3.2	3.1
Middle East	3.5	1.8	2.5
Africa	4.2	2.9	3.3
<i>Northern Africa</i>	4.3	3.1	3.3
<i>Republic of South Africa</i>	3.6	2.3	2.6
<i>Other sub-Saharan Africa</i>	4.4	2.8	3.5
Latin America	2.4	1.9	2.1
<i>Brazil</i>	2.1	1.9	2.0
<i>Other Latin America</i>	2.9	2.0	2.3
<i>Central America and Caribbean</i>	1.5	1.6	1.8
World	2.8	2.3	2.2
European Union (25)	2.0	2.1	1.9
BRIICS	6.3	4.2	3.9
ROW	4.1	3.1	3.1

Source: Env-Linkages/IMAGE model analysis.

Table A.10. Import to GDP ratio (percentage)

	2005	2030
OECD	20	26
North America	17	20
<i>US & Canada</i>	16	19
<i>Mexico</i>	26	33
Europe	27	34
Pacific	17	26
<i>Asia</i>	15	25
<i>Oceania</i>	28	37
Transition economies and other Europe	39	43
<i>Russia</i>	21	21
<i>Other EECCA</i>	58	68
<i>Other economies</i>	62	74
Developing countries	40	50
East and Southeast Asia and Oceania	55	67
<i>China</i>	48	59
<i>Indonesia</i>	27	27
<i>Other East Asia</i>	73	92
South Asia	20	25
<i>India</i>	20	27
<i>Other South Asia</i>	19	19
Middle East	44	61
Africa	33	37
<i>Northern Africa</i>	31	36
<i>Republic of South Africa</i>	26	31
<i>Other sub-Saharan Africa</i>	37	39
Latin America	21	25
<i>Brazil</i>	14	16
<i>Other Latin America</i>	20	25
<i>Central America and Caribbean</i>	40	45
World	24	33
European Union (25)	37	48
BRIICS	34	43
ROW	45	55

Source: ENV-Linkages/IMAGE model analysis.

Table A.11. Regional composition of world exports of capital goods (percentage)

	2005	2030
OECD	68.1	58.1
North America	18.7	19.1
<i>US & Canada</i>	15.9	16.1
<i>Mexico</i>	2.8	3.0
Europe	35.5	27.4
Pacific	13.9	11.6
<i>Asia</i>	13.2	10.9
<i>Oceania</i>	0.7	0.7
Transition economies and other Europe	2.7	3.3
<i>Russia</i>	1.1	1.3
<i>Other EECCA</i>	0.7	0.8
<i>Other economies</i>	1.0	1.2
Developing countries	29.2	38.6
East and Southeast Asia and Oceania	21.8	29.8
<i>China</i>	11.4	16.7
<i>Indonesia</i>	0.6	0.7
<i>Other East Asia</i>	9.8	12.4
South Asia	1.4	2.6
<i>India</i>	1.0	1.9
<i>Other South Asia</i>	0.4	0.7
Middle East	1.9	1.9
Africa	1.5	1.9
<i>Northern Africa</i>	0.6	0.7
<i>Republic of South Africa</i>	0.4	0.4
<i>Other sub-Saharan Africa</i>	0.4	0.8
Latin America	2.6	2.3
<i>Brazil</i>	0.9	0.7
<i>Other Latin America</i>	0.8	0.9
<i>Central America and Caribbean</i>	0.8	0.6
World	100.0	100.0
European Union (25)	33.9	25.7
BRIICS	15.5	21.8
ROW	14.5	18.2

Source: Env-Linkages/IMAGE model analysis.

Table A.12. Regional composition of world imports of capital goods (percentage)

	2005	2030
OECD	69.3	60.5
North America	26.6	22.7
<i>US & Canada</i>	24.0	19.9
<i>Mexico</i>	2.6	2.8
Europe	34.3	29.6
Pacific	8.4	8.3
<i>Asia</i>	7.1	7.1
<i>Oceania</i>	1.3	1.2
Transition economies and other Europe	2.5	2.7
<i>Russia</i>	0.7	0.7
<i>Other EECCA</i>	0.5	0.8
<i>Other economies</i>	1.2	1.2
Developing countries	28.2	36.8
East and Southeast Asia and Oceania	18.9	24.9
<i>China</i>	9.7	14.0
<i>Indonesia</i>	0.6	0.7
<i>Other East Asia</i>	8.6	10.2
South Asia	1.7	2.5
<i>India</i>	1.2	1.9
<i>Other South Asia</i>	0.5	0.6
Middle East	2.5	3.5
Africa	2.2	2.8
<i>Northern Africa</i>	0.8	1.1
<i>Republic of South Africa</i>	0.5	0.5
<i>Other sub-Saharan Africa</i>	0.9	1.2
Latin America	3.0	3.1
<i>Brazil</i>	0.7	0.8
<i>Other Latin America</i>	1.2	1.4
<i>Central America and Caribbean</i>	1.1	0.9
World	100.0	100.0
European Union (25)	32.2	27.6
BRIICS	13.5	18.6
ROW	14.8	17.4

Source: Env-Linkages/IMAGE model analysis.

Table A.13. Regional composition of world output of agriculture and food (percentage)

	2005	2030
OECD	56.9	47.7
North America	24.6	21.8
<i>US & Canada</i>	21.6	19.5
<i>Mexico</i>	2.9	2.2
Europe	22.4	18.1
Pacific	10.0	7.8
<i>Asia</i>	8.3	6.2
<i>Oceania</i>	1.6	1.6
Transition economies and other Europe	8.6	11.4
<i>Russia</i>	1.6	2.2
<i>Other EECCA</i>	4.9	6.8
<i>Other economies</i>	2.2	2.4
Developing countries	34.4	41.0
East and Southeast Asia and Oceania	15.2	18.4
<i>China</i>	10.3	13.1
<i>Indonesia</i>	1.3	1.6
<i>Other East Asia</i>	3.6	3.7
South Asia	6.0	6.5
<i>India</i>	4.3	4.6
<i>Other South Asia</i>	1.7	1.8
Middle East	1.6	1.8
Africa	4.6	6.5
<i>Northern Africa</i>	1.7	2.4
<i>Republic of South Africa</i>	0.6	0.6
<i>Other sub-Saharan Africa</i>	2.3	3.5
Latin America	7.0	7.8
<i>Brazil</i>	2.2	2.4
<i>Other Latin America</i>	3.6	4.2
<i>Central America and Caribbean</i>	1.2	1.2
World	100.0	100.0
European Union (25)	21.0	16.8
BRIICS	20.3	24.5
ROW	21.1	26.0

Source: Env-Linkages/IMAGE model analysis.

Table A.14. Regional composition of world output of fossil fuels excluding refined petroleum products (percentage)

	2005	2030
OECD	38.9	29.8
North America	25.4	19.9
<i>US & Canada</i>	22.2	16.4
<i>Mexico</i>	3.2	3.5
Europe	11.1	7.9
Pacific	2.4	2.0
<i>Asia</i>	0.2	0.1
<i>Oceania</i>	2.2	1.8
Transition economies and other Europe	14.7	17.4
<i>Russia</i>	10.4	11.2
<i>Other EECCA</i>	3.5	5.3
<i>Other economies</i>	0.8	0.8
Developing countries	46.4	52.8
East and Southeast Asia and Oceania	8.8	10.4
<i>China</i>	4.4	5.3
<i>Indonesia</i>	2.7	3.2
<i>Other East Asia</i>	1.7	1.9
South Asia	1.5	1.7
<i>India</i>	1.1	1.2
<i>Other South Asia</i>	0.4	0.5
Middle East	22.2	25.0
Africa	8.0	10.2
<i>Northern Africa</i>	3.4	4.2
<i>Republic of South Africa</i>	1.2	1.1
<i>Other sub-Saharan Africa</i>	3.4	4.9
Latin America	5.9	5.6
<i>Brazil</i>	0.8	0.6
<i>Other Latin America</i>	4.9	4.8
<i>Central America and Caribbean</i>	0.2	0.2
World	100.0	100.0
European Union (25)	8.1	6.2
BRIICS	20.7	22.6
ROW	18.2	22.7

Source: Env-Linkages/IMAGE model analysis.

Table A.15. Regional composition of world output of capital goods (percentage)

	2005	2030
OECD	70.5	58.7
North America	27.7	24.3
<i>US & Canada</i>	25.5	22.0
<i>Mexico</i>	2.2	2.2
Europe	26.6	20.9
Pacific	16.3	13.5
<i>Asia</i>	15.6	12.9
<i>Oceania</i>	0.7	0.6
Transition economies and other Europe	3.9	5.1
<i>Russia</i>	1.0	1.6
<i>Other EECCA</i>	1.9	2.4
<i>Other economies</i>	1.0	1.1
Developing countries	25.6	36.2
East and Southeast Asia and Oceania	18.3	26.9
<i>China</i>	12.4	19.0
<i>Indonesia</i>	0.6	0.8
<i>Other East Asia</i>	5.4	7.1
South Asia	2.2	3.5
<i>India</i>	1.7	2.6
<i>Other South Asia</i>	0.5	0.9
Middle East	1.0	1.0
Africa	1.3	1.9
<i>Northern Africa</i>	0.5	0.7
<i>Republic of South Africa</i>	0.4	0.4
<i>Other sub-Saharan Africa</i>	0.4	0.7
Latin America	2.8	2.9
<i>Brazil</i>	1.3	1.3
<i>Other Latin America</i>	0.9	1.1
<i>Central America and Caribbean</i>	0.6	0.5
World	100.0	100.0
European Union (25)	25.2	19.4
BRIICS	17.4	25.8
ROW	11.1	14.5

Source: Env-Linkages/IMAGE model analysis.

Table A.16. Regional composition of world output of services (percentage)

	2005	2030
OECD	82.5	75.2
North America	40.1	37.9
<i>US & Canada</i>	38.6	36.3
<i>Mexico</i>	1.5	1.6
Europe	26.9	24.7
Pacific	15.5	12.6
<i>Asia</i>	14.0	11.1
<i>Oceania</i>	1.5	1.6
Transition economies and other Europe	2.1	2.8
<i>Russia</i>	0.8	1.4
<i>Other EECCA</i>	0.6	0.7
<i>Other economies</i>	0.6	0.7
Developing countries	15.5	22.0
East and Southeast Asia and Oceania	7.8	12.1
<i>China</i>	4.8	7.7
<i>Indonesia</i>	0.4	0.6
<i>Other East Asia</i>	2.6	3.8
South Asia	1.7	2.5
<i>India</i>	1.3	1.9
<i>Other South Asia</i>	0.4	0.6
Middle East	1.4	1.7
Africa	1.4	2.0
<i>Northern Africa</i>	0.6	0.9
<i>Republic of South Africa</i>	0.4	0.4
<i>Other sub-Saharan Africa</i>	0.5	0.7
Latin America	3.1	3.6
<i>Brazil</i>	1.2	1.3
<i>Other Latin America</i>	1.4	1.8
<i>Central America and Caribbean</i>	0.5	0.6
World	100.0	100.0
European Union (25)	25.3	23.0
BRIICS	8.8	13.2
ROW	7.3	9.8

Source: Env-Linkages/IMAGE model analysis.

Table A.17. Exports minus imports in agriculture and food processing (USD millions)

	2005	2030
OECD	-87 035	-62 771
North America	9 002	30 614
<i>US & Canada</i>	14 018	37 444
<i>Mexico</i>	-5 017	-6 830
Europe	-42 067	-28 189
Pacific	-53 970	-65 196
<i>Asia</i>	-78 969	-113 934
<i>Oceania</i>	24 999	48 738
Transition economies and other Europe	-14 338	-30 323
<i>Russia</i>	-8 159	-20 050
<i>Other EECCA</i>	414	865
<i>Other economies</i>	-6 593	-11 138
Developing countries	-463	-86 138
East and Southeast Asia and Oceania	-28 222	-94 313
<i>China</i>	-26 124	-77 646
<i>Indonesia</i>	1 388	-82
<i>Other East Asia</i>	-3 486	-16 584
South Asia	-7 189	-12 316
<i>India</i>	-3 568	-11 080
<i>Other South Asia</i>	-3 621	-1 236
Middle East	-17 164	-52 709
Africa	1 773	-12 926
<i>Northern Africa</i>	-7 333	-23 435
<i>Republic of South Africa</i>	1 006	2 269
<i>Other sub-Saharan Africa</i>	8 100	8 241
Latin America	50 339	86 126
<i>Brazil</i>	17 347	30 755
<i>Other Latin America</i>	31 303	51 959
<i>Central America & Caribbean</i>	1 689	3 412
World	-101 836	-179 231
European Union (25)	-40 130	-22 246
BRIICS	-18 110	-75 835
ROW	20 473	12 083

Source: Env-Linkages/IMAGE model analysis.

Table A.18. Exports minus imports of fossil fuels, excluding refined petroleum products (USD millions)

	2005	2030
OECD	67 911	225 336
North America	7 925	6 401
<i>US & Canada</i>	7 624	5 609
<i>Mexico</i>	301	793
Europe	-30 235	-6 714
Pacific	90 221	225 648
<i>Asia</i>	85 756	221 617
<i>Oceania</i>	4 465	4 031
Transition economies and other Europe	-5 180	-15 323
<i>Russia</i>	2 401	-839
<i>Other EECCA</i>	-1 385	-2 204
<i>Other economies</i>	-6 196	-12 280
Developing countries	25 483	-25 414
East and Southeast Asia and Oceania	-18 762	-53 933
<i>China</i>	-4 220	-15 637
<i>Indonesia</i>	-704	-1 409
<i>Other East Asia</i>	-13 838	-36 887
South Asia	-1 274	-10 505
<i>India</i>	-6 835	-18 765
<i>Other South Asia</i>	5 562	8 260
Middle East	3 626	-2 322
Africa	44 772	47 391
<i>Northern Africa</i>	19 230	18 012
<i>Republic of South Africa</i>	-119	-168
<i>Other sub-Saharan Africa</i>	25 661	29 547
Latin America	-2 879	-6 046
<i>Brazil</i>	-5 007	-11 075
<i>Other Latin America</i>	4 934	10 645
<i>Central America & Caribbean</i>	-2 805	-5 616
World	88 213	184 598
European Union (25)	-55 242	-80 793
BRIICS	-14 484	-47 892
ROW	31 161	9 477

Source: Env-Linkages/IMAGE model analysis.

Table A.19. Regional composition of world energy-intensive industrial outputs (percentage)

	2005	2030
OECD	74.3	63.4
North America	29.3	26.1
<i>US & Canada</i>	27.2	23.9
<i>Mexico</i>	2.1	2.2
Europe	29.2	23.1
Pacific	15.8	14.1
<i>Asia</i>	14.9	13.3
<i>Oceania</i>	0.9	0.8
Transition economies and other Europe	3.5	4.9
<i>Russia</i>	0.7	1.4
<i>Other EECCA</i>	1.9	2.4
<i>Other economies</i>	0.9	1.1
Developing countries	22.1	31.8
East and Southeast Asia and Oceania	14.6	22.8
<i>China</i>	9.7	16.1
<i>Indonesia</i>	0.5	0.8
<i>Other East Asia</i>	4.4	5.9
South Asia	1.9	2.9
<i>India</i>	1.5	2.2
<i>Other South Asia</i>	0.4	0.7
Middle East	0.9	1.1
Africa	1.4	1.8
<i>Northern Africa</i>	0.6	0.8
<i>Republic of South Africa</i>	0.4	0.5
<i>Other sub-Saharan Africa</i>	0.4	0.6
Latin America	3.3	3.2
<i>Brazil</i>	1.4	1.4
<i>Other Latin America</i>	1.3	1.3
<i>Central America & Caribbean</i>	0.6	0.5
World	100.0	100.0
European Union (25)	27.7	21.6
BRIICS	14.3	22.4
ROW	10.4	13.2

Source: Env-Linkages/IMAGE model analysis

Table A.20. Use of coal to produce electricity (PJ)

	2005	2030
OECD	44 862	62 284
North America	26 661	37 128
<i>Canada</i>	1 071	1 231
<i>USA</i>	25 272	35 428
<i>Mexico</i>	319	469
Europe	12 503	16 472
<i>Other OECD Europe</i>	6 593	9 819
<i>Eastern Europe</i>	5 209	5 410
<i>Turkey</i>	701	1 243
Pacific	5 699	8 684
<i>Asia</i>	3 826	6 250
<i>Oceania</i>	1 873	2 434
Other developed and transition economies	9 683	8 001
<i>Russian Federation</i>	7 433	6 321
<i>EECCA countries</i>	4 500	3 360
<i>ECA</i>	2 250	1 680
<i>Ukraine +</i>	1 457	1 328
<i>Asia-Stan</i>	793	352
Developing countries	31 963	77 355
East and Southeast Asia and Oceania	22 045	54 611
<i>China +</i>	20 889	46 488
<i>Indonesia +</i>	866	2 683
<i>South East Asia</i>	1 290	5 440
South Asia	5 653	14 894
<i>India</i>	5 609	14 145
<i>Rest of S. Asia</i>	44	748
Middle East	447	1 348
Africa	2 366	5 883
<i>Northern Africa</i>	101	432
<i>Sub-Saharan Africa</i>	2 265	5 451
<i>Western Africa</i>	5	79
<i>Eastern Africa</i>	1	314
<i>Republic of South Africa</i>	2 131	3 643
<i>Rest of Southern Africa</i>	128	1 415
Latin America	453	619
<i>Brazil</i>	134	294
<i>Rest South America</i>	303	250
<i>Rest Central America</i>	16	75
World	86 509	147 640
BRIC	34 065	67 248
ROW	7 581	18 107

Source: Env-Linkages/IMAGE model analysis.

Table A.21. Total GHG emissions from energy and transport (1 000 Pg C-eq)

	2005	2030
OECD	3 967	4 557
North America	1 973	2 492
<i>US & Canada</i>	1 872	2 309
<i>Mexico</i>	101	183
Europe	1 342	1 642
Pacific	652	746
<i>Asia</i>	541	594
<i>Oceania</i>	111	152
Other developed & transition countries	1 156	895
<i>Russia Federation</i>	877	610
<i>EECCA countries</i>	271	285
Developing countries	2 900	5 963
East and Southeast Asia and Oceania	1 632	3 157
<i>China +</i>	1 341	2 482
<i>Indonesia</i>	97	233
<i>Other East and Southeast Asia</i>	194	442
South Asia	383	918
Middle East	336	680
Africa	268	659
<i>Northern Africa</i>	95	227
<i>Sub-Saharan Africa</i>	173	432
<i>Western Africa</i>	45	147
<i>Eastern Africa</i>	10	46
<i>Southern Africa</i>	118	239
Latin America	281	549
<i>Brazil</i>	99	199
<i>Rest South America</i>	146	291
<i>Rest Central America</i>	36	59
World	7 745	11 736
BRIC	2 429	4 209
ROW	1 349	2 647

Source: Env-Linkages/IMAGE model analysis.

Table A.22. Energy-related CO₂ emissions per capita (tonnes of C-eq)

	2005	2030
OECD	3.17	3.57
North America	4.60	4.77
<i>Canada</i>	4.66	4.23
<i>USA</i>	5.89	6.06
<i>Mexico</i>	0.96	1.41
Europe	2.24	2.64
<i>Western Europe</i>	2.51	2.81
<i>Eastern Europe</i>	2.16	2.70
<i>Turkey</i>	0.97	1.86
Pacific	2.92	3.31
<i>Asia</i>	2.73	3.06
<i>Japan</i>	2.77	2.81
<i>Korea</i>	2.67	3.49
<i>Oceania</i>	4.45	4.93
Other developed & transition countries	3.05	3.33
<i>Russia +</i>	3.70	4.26
<i>EECCA countries</i>	2.18	2.27
<i>Ukraine +</i>	2.46	2.34
<i>Central Asia</i>	1.89	2.20
Developing countries	0.59	0.90
East and Southeast Asia and Oceania	0.86	1.46
<i>China +</i>	1.01	1.70
<i>Indonesia</i>	0.42	0.84
<i>Other East and Southeast Asia</i>	0.58	1.04
South Asia	0.26	0.45
<i>India</i>	0.30	0.54
<i>Rest of S. Asia</i>	0.13	0.24
Middle East	1.72	2.25
Africa	0.28	0.43
<i>Northern Africa</i>	0.58	1.00
<i>Sub-Saharan Africa</i>	0.22	0.33
<i>Western Africa</i>	0.12	0.23
<i>Eastern Africa</i>	0.04	0.12
<i>South Africa</i>	2.11	3.14
<i>Rest of South Africa</i>	0.11	0.37
Latin America	0.63	0.96
<i>Brazil</i>	0.55	0.89
<i>Rest South America</i>	0.79	1.19
<i>Rest Central America</i>	0.45	0.56
World	1.19	1.42
BRIC	0.86	1.25
ROW	0.56	0.78

Source: Env-Linkages/IMAGE model analysis.

Table A.23. Total crop area (billions km²)

	2005	2030
OECD	13.57	14.10
North America	6.00	6.22
Europe	2.65	2.77
Pacific	4.92	5.11
<i>Asia</i>	.10	.09
<i>Oceania</i>	4.82	5.02
Other developed & transition countries	5.72	6.22
<i>Russian Federation</i>	2.48	2.85
<i>EECCA countries</i>	3.24	3.37
Developing countries	31.45	35.26
East and Southeast Asia & Oceania	8.14	8.55
<i>China +</i>	6.88	6.95
<i>Other East and Southeast Asia</i>	1.26	1.60
South Asia	2.89	3.60
Middle East	1.66	1.65
Africa	11.70	13.82
Latin America	7.06	7.64
<i>Brazil</i>	2.75	2.96
<i>Other Latin America</i>	4.31	4.68
World	50.75	55.58
BRIC	15.00	16.36
ROW	22.18	25.12

Source: Env-Linkages/IMAGE model analysis.

Table A.24. Total GHG emissions from agriculture and land-use change (Pg C-eq)

	2005	2030
OECD	0.62	0.76
North America	0.32	0.38
<i>US & Canada</i>	0.25	0.33
<i>Mexico</i>	0.07	0.05
Europe	0.17	0.24
Pacific	0.13	0.14
<i>Asia</i>	0.03	0.03
<i>Oceania</i>	0.10	0.11
Other developed and transition countries	0.07	0.17
Russian Federation	0.04	0.10
EECCA countries	0.03	0.06
Developing countries	3.07	2.91
East and Southeast Asia and Oceania	0.97	0.77
<i>China +</i>	0.53	0.44
<i>Indonesia</i>	0.21	0.16
<i>Other East and Southeast Asia</i>	0.23	0.17
South Asia	0.58	0.63
Middle East	0.04	0.06
Africa	0.77	0.97
<i>Northern Africa</i>	0.03	0.04
<i>Sub-Saharan Africa</i>	0.74	0.93
<i>Western Africa</i>	0.21	0.42
<i>Eastern Africa</i>	0.20	0.30
<i>Southern Africa</i>	0.33	0.21
Latin America	0.71	0.48
<i>Brazil</i>	0.30	0.23
<i>Rest South America</i>	0.36	0.23
<i>Rest Central America</i>	0.05	0.02
World	3.73	3.82
BRIC	1.45	1.40
ROW	1.67	1.66

Source: Env-Linkages/IMAGE model analysis.

Table A.25. Total anthropogenic GHG emissions (Gt C-eq)

	2005	2030
OECD	5.1	6.3
North America	2.6	3.2
<i>US & Canada</i>	2.4	3.0
<i>Mexico</i>	0.2	0.3
Europe	1.7	2.1
Pacific	0.9	1.0
<i>Asia</i>	0.7	0.7
<i>Oceania</i>	0.2	0.3
Other developed & transition countries	1.2	1.3
<i>Russian Federation</i>	0.8	0.9
<i>EECCA countries</i>	0.4	0.4
Developing countries	6.5	10.0
East and Southeast Asia and Oceania	2.9	4.4
<i>China +</i>	2.1	3.3
<i>Indonesia</i>	0.3	0.4
<i>Other East and Southeast Asia</i>	0.5	0.7
South Asia	1.0	1.7
Middle East	0.5	0.9
Africa	1.1	1.8
<i>Northern Africa</i>	0.1	0.3
<i>Sub-Saharan Africa</i>	1.0	1.5
<i>Western Africa</i>	0.3	0.6
<i>Eastern Africa</i>	0.2	0.4
<i>Southern Africa</i>	0.5	0.5
Latin America	1.0	1.2
<i>Brazil</i>	0.4	0.5
<i>Rest South America</i>	0.5	0.6
<i>Rest Central America</i>	0.1	0.1
World	12.8	17.5
BRIC	4.3	6.4
ROW	3.4	4.8

Source: Env-Linkages/IMAGE model analysis.

Table A.26. Total SO_x (Mt sulfur)

	2005	2030
OECD	19.36	13.07
North America	7.15	6.70
<i>US & Canada</i>	6.33	6.30
<i>Mexico</i>	0.82	0.40
Europe	9.32	4.68
Pacific	2.88	1.70
<i>Asia</i>	2.38	1.43
<i>Oceania</i>	0.50	0.27
Other developed & transition countries	5.35	1.82
<i>Russian Federation</i>	3.61	1.13
<i>EECCA countries</i>	1.74	0.69
Developing countries	29.83	39.86
East and Southeast Asia and Oceania	17.94	20.82
<i>China +</i>	14.05	12.47
<i>Indonesia</i>	0.75	1.68
<i>Other East and Southeast Asia</i>	3.14	6.67
South Asia	4.76	8.73
<i>India</i>	4.10	7.88
<i>Rest of South Asia</i>	0.66	0.85
Middle East	2.14	2.99
Africa	2.68	4.77
<i>Northern Africa</i>	0.85	1.10
<i>Sub-Saharan Africa</i>	1.83	3.67
<i>Western Africa</i>	0.27	0.58
<i>Eastern Africa</i>	0.19	0.51
<i>South Africa</i>	1.23	1.78
<i>Rest Southern Africa</i>	0.14	0.80
Latin America	2.31	2.55
<i>Brazil</i>	0.93	1.16
<i>Rest South America</i>	0.90	0.95
<i>Rest Central America</i>	0.48	0.44
World	54.54	54.79
BRIC	22.69	22.64
ROW	12.49	19.08

Source: Env-Linkages/IMAGE model analysis.

Table A.27. Total NO_x (Mt N)

	2005	2030
OECD	11.55	7.43
North America	6.17	4.01
<i>US & Canada</i>	5.84	3.72
<i>Mexico</i>	0.43	0.29
Europe	4.65	2.40
Pacific	1.64	1.02
<i>Asia</i>	1.19	0.72
<i>Oceania</i>	0.45	0.30
Other developed & transition countries	2.95	1.76
<i>Russian Federation</i>	2.05	1.04
<i>EECCA countries</i>	0.90	0.72
Developing countries	13.05	17.99
East and Southeast Asia and Oceania	6.38	7.28
<i>China +</i>	4.93	4.85
<i>Indonesia</i>	0.49	0.87
<i>Other East and Southeast Asia</i>	0.96	1.56
South Asia	2.28	4.33
<i>India</i>	1.91	3.37
<i>Rest of South Asia</i>	0.37	0.96
Middle East	1.25	1.61
Africa	1.59	3.12
<i>Northern Africa</i>	0.46	0.78
<i>Sub-Saharan Africa</i>	1.13	2.34
<i>Western Africa</i>	0.29	0.78
<i>Eastern Africa</i>	0.20	0.50
<i>South Africa</i>	0.50	0.59
<i>Rest Southern Africa</i>	0.14	0.47
Latin America	1.56	1.64
<i>Brazil</i>	0.64	0.63
<i>Rest South America</i>	0.70	0.77
<i>Rest Central America</i>	0.22	0.24
World	27.55	27.19
BRIC	9.61	12.32
ROW	6.39	7.44

Source: Env-Linkages/IMAGE model analysis.

Table A.28. River nitrogen transport (1 000 Gg/yr)

	2000	2030
OECD	12.8	12.1
North America	6.1	5.8
Europe	4.7	4.5
Pacific	2.0	1.8
<i>Asia</i>	1.3	1.1
<i>Oceania</i>	0.7	0.7
Other developed and transition countries	3.9	2.9
<i>Russian Federation</i>	3.3	2.5
<i>EECCA+</i>	0.6	0.4
Developing countries	36.6	40.3
East and Southeast Asia & Oceania	12.9	14.5
<i>China +</i>	8.0	9.3
<i>Other East and Southeast Asia</i>	4.9	5.2
South Asia	4.0	5.7
Middle East	0.4	0.6
Africa	8.3	8.0
Latin America	11.0	11.5
<i>Brazil</i>	6.6	6.8
<i>Other Latin America</i>	4.4	4.7
World	53.3	55.3
BRIC	21.9	24.3
ROW	18.6	18.9

Source: Env-Linkages/IMAGE model analysis.

Table A.29. Land subject to high risk of water erosion (1 000 billion km²)

	2005	2030
OECD	6 212.3	7 085.1
North America	4 096.7	4 760.7
<i>US & Canada</i>	3 270.0	3 843.2
<i>Mexico</i>	826.7	917.5
Europe	1 374.9	1 540.5
Pacific	740.7	783.9
<i>Asia</i>	114.8	98.2
<i>Oceania</i>	625.9	685.7
Other developed & transition countries	226.3	311.7
<i>Russian Federation</i>	172.9	271.8
<i>EECCA countries</i>	53.4	39.9
Developing countries	15 103.5	19 304.8
East and Southeast Asia and Oceania	4 008.2	4 960.7
<i>China</i>	2 777.0	3 383.2
<i>Indonesia</i>	511.7	715.1
<i>Other East and Southeast Asia</i>	719.5	862.4
South Asia	2 824.3	3 527.6
Middle East	207.3	212.7
Africa	5 502.4	7 269.0
<i>Northern Africa</i>	134.4	124.3
<i>Sub-Saharan Africa</i>	5 368.0	7 144.7
<i>Western Africa</i>	2 587.1	3 250.8
<i>Eastern Africa</i>	1 492.2	2 067.6
<i>Southern Africa</i>	1 288.7	1 826.3
Latin America	2 561.3	3 334.8
<i>Brazil</i>	837.9	1 130.5
<i>Other Latin America</i>	1 336.0	1 830.7
<i>Central America and the Caribbean</i>	387.4	373.6
World	21 542.2	26 701.6
BRIC	6 612.2	8 313.1
ROW	8 717.7	11 303.4

Source: Env-Linkages/IMAGE model analysis.

Table A.30. Remaining natural forest cover (1 000 km²)

	2005	2030
OECD	10 863	10 072
North America	7 896	7 388
<i>Canada</i>	5 184	4 963
<i>USA</i>	2 352	2 102
<i>Mexico</i>	360	323
Europe	1 768	1 645
Pacific	1 199	1 039
<i>Asia</i>	409	384
<i>Oceania</i>	790	655
Other developed & transition countries	11 652	11 131
<i>Russia Federation</i>	11 390	10 944
<i>EECCA countries</i>	262	187
Developing countries	17 265	14 376
East and Southeast Asia and Oceania	4 102	3 448
<i>China +</i>	1 057	757
<i>Indonesia</i>	1 748	1 557
<i>Other East and Southeast Asia</i>	1 297	1 134
South Asia	580	169
Middle East	0	0
Africa	4 691	3 442
<i>Northern Africa</i>	1	1
<i>Sub-Saharan Africa</i>	4 690	3 441
<i>Western Africa</i>	3 112	2 702
<i>Eastern Africa</i>	587	253
<i>Southern Africa</i>	991	487
Latin America	7 892	7 317
<i>Brazil</i>	4 394	4 216
<i>Rest South America</i>	3 224	2 834
<i>Rest Central America</i>	274	267
World	39 780	35 579
BRIC	14 421	16 086
ROW	14 496	9 421

Source: Env-Linkages/IMAGE model analysis.

Table A.31. Remaining biodiversity (percentage of original)

	2000	2030
OECD	70.6	64.5
North America	74.5	68.8
<i>Canada</i>	88.1	83.3
<i>USA</i>	62.4	56.3
<i>Mexico</i>	65.9	57.2
<i>Greenland</i>	97.6	97.6
Europe	47.8	39.7
<i>Western Europe</i>	49.3	43.9
<i>Central Europe</i>	41.7	35.1
<i>Turkey</i>	51.2	27.4
Pacific	n.a.	n.a.
<i>Asia</i>	56.5	46.4
<i>Japan</i>	53.4	46.5
<i>Korea</i>	61.8	46.2
<i>Oceania</i>	78.0	72.9
Other developed & transition countries	n.a.	n.a.
<i>Russian Federation</i>	83.1	77.8
<i>EECCA countries</i>	61.6	54.9
<i>Ukraine +</i>	36.0	30.7
<i>Central Asia</i>	67.2	60.1
Developing countries	n.a.	n.a.
East and Southeast Asia and Oceania	n.a.	n.a.
<i>China</i>	64.0	57.5
<i>Indonesia</i>	71.1	57.8
<i>Other East and Southeast Asia</i>	57.8	44.2
South Asia	50.0	29.8
Middle East	80.7	77.6
Africa	77.2	68.0
<i>Northern Africa.</i>	85.3	82.9
<i>Sub-Saharan Africa</i>	n.a.	n.a.
<i>Western Africa</i>	77.9	68.2
<i>Eastern Africa</i>	72.8	61.7
<i>Southern Africa</i>	73.2	60.4
Latin America	n.a.	n.a.
<i>Brazil</i>	74.6	68.8
<i>Rest South America</i>	72.6	65.6
<i>Central America</i>	58.8	50.8
World	73.0	65.6
BRIC	72.3	64.7
ROW	74.1	65.6

Source: Env-Linkages/IMAGE model analysis.

Table A.32. Policy simulation 1: reduced support to agricultural producers in OECD countries

Percentage difference from baseline in 2030

	GDP	Household consumption	Export volume	Land Use	CO₂
OECD	0.00	0.00	-0.01	-0.29	-0.02
North America	0.00	0.00	-0.02	-0.63	-0.03
<i>US & Canada</i>	0.00	0.00	-0.02	-0.82	-0.03
<i>Mexico</i>	-0.01	-0.03	-0.01	0.29	-0.01
Europe	0.00	0.00	-0.01	-0.11	-0.01
Pacific	-0.02	-0.03	-0.02	0.07	-0.01
<i>Asia</i>	-0.02	-0.04	-0.01	0.95	-0.01
<i>Oceania</i>	0.00	0.01	-0.02	0.06	0.00
Other developed & transition countries	0.00	0.00	0.00	0.02	0.00
<i>Russian Federation</i>	0.00	0.00	0.00	0.01	0.00
<i>EECCA and other countries</i>	0.00	-0.01	0.00	0.03	0.00
Developing countries	0.00	0.00	-0.02	0.13	0.00
East and Southeast Asia and Oceania	0.00	0.00	-0.02	0.15	0.00
<i>China</i>	0.00	-0.01	-0.01	0.02	0.00
<i>Indonesia</i>	-0.01	-0.02	0.00	0.03	-0.02
<i>Other East and Southeast Asia</i>	0.01	0.01	-0.03	0.54	0.00
<i>India</i>	0.00	0.00	-0.05	0.18	-0.02
Other South Asia	-0.02	-0.02	-0.07	0.16	0.03
Middle East	0.00	0.00	0.00	0.07	0.00
Africa	0.01	0.01	0.02	0.12	0.01
<i>Northern Africa</i>	0.00	0.00	0.00	0.03	0.00
<i>Sub-Saharan Africa</i>	0.01	0.01	0.03	0.12	0.01
<i>Other Africa</i>	0.02	0.02	0.05	0.16	0.02
<i>South Africa</i>	0.00	0.01	0.00	0.02	0.00
<i>Other Southern Africa</i>	0.01	0.00	0.02	0.09	0.03
Latin America	0.00	0.00	-0.02	0.12	0.01
<i>Brazil</i>	0.00	0.00	0.01	0.05	0.00
<i>Other Latin America</i>	0.00	0.00	0.01	0.06	0.01
<i>Central America & Caribbean</i>	-0.01	-0.01	-0.08	0.46	0.02
World	0.00	0.00	-0.01	0.00	-0.01
BRIICS	0.00	0.00	-0.02	-0.12	0.00
ROW	0.00	0.00	-0.01	0.10	0.00

Source: Env-Linkages/IMAGE model analysis.

Table A.32. Policy simulation 1: reduced support to agricultural producers in OECD countries (continued)

Percentage difference from baseline in 2030

	Agr. prod.	Fibres exports	Rice exports	Chem. demand
OECD	-1.03	-12.88	-39.0	-0.01
North America	-1.77	-11.69	-74.04	-0.02
<i>US & Canada</i>	-2.10	-11.79	-74.04	-0.02
<i>Mexico</i>	8.28	2.12	0.00	0.00
Europe	-0.79	-36.16	-26.03	-0.01
Pacific	-0.53	-0.03	-23.67	0.01
<i>Asia</i>	-1.82	-1.32	-25.62	0.01
<i>Oceania</i>	0.05	-0.02	15.12	-0.02
Other developed & transition countries	0.21	3.43	0.02	0.00
<i>Russian Federation</i>	0.01	1.50	0.02	0.00
<i>EECCA and other countries</i>	0.35	3.61	0.00	0.00
Developing countries	0.37	3.61	16.19	0.01
East and Southeast Asia and Oceania	0.44	4.20	12.94	0.01
<i>China</i>	0.27	6.26	19.74	0.01
<i>Indonesia</i>	-0.19	0.00	0.00	-0.01
<i>Other East and Southeast Asia</i>	3.01	2.40	6.41	0.01
<i>India</i>	0.46	1.19	81.74	-0.01
Other South Asia	0.43	2.75	10.69	-0.01
Middle East	0.28	3.97	514.91	0.03
Africa	0.19	3.70	0.16	0.03
<i>Northern Africa</i>	0.09	4.00	0.13	0.00
<i>Sub-Saharan Africa</i>	0.23	3.66	0.27	0.05
<i>Other Africa</i>	0.25	3.60	0.27	0.07
<i>South Africa</i>	0.04	3.37	0.00	0.00
<i>Other Southern Africa</i>	0.19	4.09	0.00	0.05
Latin America	0.28	3.27	10.83	0.01
<i>Brazil</i>	0.17	4.15	0.00	0.00
<i>Other Latin America</i>	0.14	2.71	10.55	0.01
<i>Central America & Caribbean</i>	0.92	6.93	26.01	0.03
World	0.22	-3.21	-7.91	0.00
BRIICS	0.31	3.46	43.54	0.01
ROW	0.40	3.58	12.42	0.01

Source: Env-Linkages/IMAGE model analysis.

Table A.33. Policy simulation 2: reduced tariffs on agricultural imports

Percentage difference from baseline in 2030

	GDP	Cons.	Exports	Land	CO₂
OECD	0.05	0.09	2.64	1.70	0.12
North America	-0.03	-0.07	2.90	1.45	-0.07
<i>US & Canada</i>	-0.04	-0.05	2.70	2.27	-0.05
<i>Mexico</i>	0.05	-0.36	4.40	-2.54	-0.37
Europe	-0.02	0.05	1.61	-1.48	0.01
Pacific	0.44	0.80	5.50	3.55	0.94
<i>Asia</i>	0.52	0.87	5.71	-17.02	0.98
<i>Oceania</i>	-0.28	0.35	4.22	4.00	0.75
Other developed & transition countries	0.18	0.43	0.81	0.31	0.37
<i>Russian Federation</i>	0.21	0.28	0.52	0.21	0.31
<i>EECCA and other countries</i>	0.15	0.55	0.99	0.38	0.45
Developing countries	0.17	0.66	1.24	1.59	0.45
East and Southeast Asia and Oceania	0.13	0.88	1.36	0.42	0.46
<i>China</i>	0.10	1.04	1.78	0.23	0.48
<i>Indonesia</i>	0.29	0.51	1.22	-0.03	0.28
<i>Other East and Southeast Asia</i>	0.18	0.68	0.76	1.06	0.46
<i>India</i>	0.13	0.36	1.47	0.06	0.24
Other South Asia	0.50	0.88	3.89	0.32	1.58
Middle East	0.24	0.53	0.44	0.18	0.48
Africa	0.17	0.29	0.52	1.83	0.23
<i>Northern Africa</i>	0.09	0.21	0.54	0.47	0.26
<i>Sub-Saharan Africa</i>	0.23	0.35	0.50	1.90	0.21
<i>Other Africa</i>	0.13	0.21	0.05	0.12	0.15
<i>South Africa</i>	0.09	0.20	0.49	1.54	0.11
<i>Other Southern Africa</i>	0.55	1.03	1.49	4.74	0.87
Latin America	0.17	0.64	1.44	3.79	0.49
<i>Brazil</i>	0.19	0.92	2.55	7.73	0.77
<i>Other Latin America</i>	0.16	0.37	0.62	1.75	0.22
<i>Central America & Caribbean</i>	0.18	1.01	1.95	1.08	0.75
World	0.09	0.25	2.01	1.44	0.31
BRIICS	0.13	0.78	1.65	-0.76	0.41
ROW	0.21	0.54	0.81	1.46	0.49

Source: Env-Linkages/IMAGE model analysis.

Table A.33. Policy simulation 2: reduced tariffs on agricultural imports (continued)

Percentage difference from baseline in 2030

	Agr. prod.	Chem. demand	Fibres exports	Rice exports	Sugar exports
OECD	0.04	0.25	2.03	117.51	24.46
North America	2.27	0.11	2.56	238.26	4.84
<i>US & Canada</i>	4.06	0.12	2.53	238.26	6.85
<i>Mexico</i>	-51.81	0.01	7.22	0.00	1.32
Europe	-2.27	0.27	2.84	-68.89	8.96
Pacific	2.70	0.62	0.52	63.13	76.22
<i>Asia</i>	8.12	0.65	69.10	48.92	11.68
<i>Oceania</i>	0.26	0.29	0.31	346.04	76.89
Other developed & transition countries	0.33	0.19	0.37	2.23	-1.90
<i>Russian Federation</i>	0.24	0.20	4.10	2.23	0.32
<i>EECCA and other countries</i>	0.40	0.18	0.03	0.00	-2.18
Developing countries	-0.07	0.20	0.70	44.36	40.77
East and Southeast Asia and Oceania	-0.20	0.18	-0.55	375.85	95.71
<i>China</i>	0.30	0.10	-2.50	661.32	45.90
<i>Indonesia</i>	-4.37	0.07	0.00	0.00	65.97
<i>Other East and Southeast Asia</i>	-6.56	0.47	1.16	101.71	98.58
<i>India</i>	-0.14	0.03	2.73	5.25	11.86
Other South Asia	0.17	1.47	-1.84	-2.95	-18.53
Middle East	0.15	0.74	2.26	44.29	29.40
Africa	-0.02	0.23	1.09	-1.05	54.31
<i>Northern Africa</i>	-0.58	0.10	0.78	-1.46	-6.92
<i>Sub-Saharan Africa</i>	0.18	0.35	1.13	0.16	61.46
<i>Other Africa</i>	0.13	0.04	1.55	0.16	27.19
<i>South Africa</i>	1.63	0.09	0.94	0.00	21.04
<i>Other Southern Africa</i>	0.08	1.58	-1.65	0.00	76.10
Latin America	0.26	-0.02	-1.44	1.11	25.59
<i>Brazil</i>	-3.12	-0.49	-1.38	0.00	4.33
<i>Other Latin America</i>	1.29	0.16	0.30	1.03	64.29
<i>Central America & Caribbean</i>	0.73	0.59	4.36	5.30	34.15
World	-0.01	0.23	1.21	75.96	37.00
BRICS	0.02	0.05	-1.08	336.84	8.34
ROW	-0.07	0.41	0.76	5.41	55.35

Source: Env-Linkages/IMAGE model analysis.

Table A.33. Policy simulation 2: reduced tariffs on agricultural imports (continued)

Percentage difference from baseline in 2030

	Meat exports	Meat prod. exp.	Dairy exports
OECD	14.50	24.59	22.11
North America	22.95	61.55	58.24
<i>US & Canada</i>	23.25	58.39	64.82
<i>Mexico</i>	15.59	86.25	8.42
Europe	8.74	13.65	15.71
Pacific	12.91	41.40	38.86
<i>Asia</i>	17.81	82.17	66.64
<i>Oceania</i>	12.89	5.95	38.75
Other developed & transition countries	3.19	3.55	60.44
<i>Russian Federation</i>	1.73	-0.28	26.40
<i>EECCA and other countries</i>	3.25	4.89	63.91
Developing countries	101.12	6.39	16.62
East and Southeast Asia and Oceania	-3.22	6.50	23.25
<i>China</i>	-4.25	0.25	-1.36
<i>Indonesia</i>	-2.87	8.15	-1.50
<i>Other East and Southeast Asia</i>	-0.92	13.68	41.37
<i>India</i>	-0.52	-8.44	-0.89
Other South Asia	-5.08	-5.10	0.35
Middle East	9.09	3.81	1.01
Africa	219.15	-3.65	-1.08
<i>Northern Africa</i>	913.55	-1.51	-1.37
<i>Sub-Saharan Africa</i>	178.62	-4.63	-0.80
<i>Other Africa</i>	1.20	-2.00	-1.81
<i>South Africa</i>	99.46	-3.70	1.27
<i>Other Southern Africa</i>	222.84	-9.84	-2.36
Latin America	114.18	11.14	30.37
<i>Brazil</i>	214.81	11.24	-6.41
<i>Other Latin America</i>	38.80	17.53	36.36
<i>Central America and the Caribbean</i>	1.67	-11.25	7.18
World	40.90	17.82	24.64
BRIICS	123.45	4.15	7.16
ROW	68.52	8.73	39.33

Source: Env-Linkages/IMAGE model analysis.

Table A.34. Policy simulation 3: enhanced levels of ODA targeted on the poorest countries

Percentage difference from baseline 2013

	GDP	Water demand	Transp. demand	Forestry demand	CO₂
OECD	-0.01	-0.01	0.00	-0.01	-0.01
North America	0.00	0.00	0.00	0.00	0.00
<i>US & Canada</i>	0.00	0.00	0.00	0.00	0.00
<i>Mexico</i>	0.00	0.00	0.00	0.01	0.01
Europe	-0.02	-0.03	-0.01	-0.03	-0.04
Pacific	0.00	0.00	0.00	-0.01	-0.01
<i>Asia</i>	0.00	0.00	0.00	-0.01	0.00
<i>Oceania</i>	-0.01	-0.02	0.00	-0.01	-0.03
Other developed & transition countries	0.00	0.00	0.00	0.00	0.01
<i>Russian Federation</i>	0.00	0.00	0.00	0.01	0.01
<i>EECCA and other countries</i>	0.00	0.00	0.00	-0.01	0.00
Developing countries	0.17	0.17	0.09	0.40	0.08
East and Southeast Asia and Oceania	0.00	0.00	0.00	0.00	0.00
<i>China</i>	0.00	0.00	0.00	0.00	0.00
<i>Indonesia</i>	0.00	0.00	0.01	0.01	0.01
<i>Other East and Southeast Asia</i>	0.00	0.01	0.00	-0.01	0.00
<i>India</i>	0.00	0.00	0.00	0.02	0.00
Other South Asia	0.00	0.00	-0.01	0.00	-0.01
Middle East	0.04	-0.04	0.01	0.07	0.07
Africa	0.97	1.14	0.93	2.36	0.93
<i>Northern Africa</i>	0.01	0.02	0.00	0.03	0.03
<i>Sub-Saharan Africa</i>	1.97	1.96	1.59	2.52	1.53
<i>Other Africa</i>	1.98	2.57	2.47	2.92	3.71
<i>South Africa</i>	0.01	0.04	0.03	0.00	0.03
<i>Other Southern Africa</i>	1.94	2.38	2.25	1.33	3.71
Latin America	0.01	0.01	0.01	0.03	0.05
<i>Brazil</i>	0.00	0.00	0.00	0.01	0.04
<i>Other Latin America</i>	0.01	0.02	0.02	0.05	0.06
<i>Central America & Caribbean</i>	0.00	0.00	0.00	-0.01	0.01
World	0.01	0.03	0.02	0.20	0.03
BRIICS	0.00	0.00	0.00	0.00	0.00
ROW	0.16	0.21	0.16	0.83	0.18

Source: Env-Linkages/IMAGE model analysis.

Table A.35. Policy simulation 4: eco-labelling schemes for forestry and fisheries

Percentage change from baseline in 2030

	GDP	Export volume	Forestry exports	Fish exports	CO₂
OECD	0.00	-0.01	-10.9	-4.9	0.00
North America	0.00	-0.01	-17.3	-8.2	0.00
<i>US & Canada</i>	0.00	-0.02	-17.1	-8.3	0.00
<i>Mexico</i>	0.00	0.00	-21.4	-7.1	0.00
Europe	0.00	-0.01	-6.8	-3.7	0.00
Pacific	0.00	-0.01	-11.8	-9.8	0.00
<i>Asia</i>	0.00	-0.02	-23.8	-10.2	0.00
<i>Oceania</i>	0.01	0.04	-11.8	-9.0	0.00
Other developed & transition countries	0.01	0.03	-13.1	-8.0	-0.01
<i>Russian Federation</i>	0.02	0.10	-14.4	-10.4	-0.01
<i>EECCA and other countries</i>	0.00	-0.01	-10.6	-7.8	-0.01
Developing countries	-0.01	-0.05	-13.6	-8.6	-0.08
East and Southeast Asia and Oceania	-0.01	-0.07	-14.0	-8.6	-0.12
<i>China</i>	0.00	-0.13	-18.1	-6.6	-0.16
<i>Indonesia</i>	-0.02	0.05	-15.6	-10.0	-0.03
<i>Other East and Southeast Asia</i>	-0.01	0.01	-13.5	-9.8	-0.01
<i>India</i>	0.01	-0.13	-22.3	-10.4	-0.01
Other South Asia	0.00	-0.03	-19.2	-9.9	0.00
Middle East	0.00	-0.02	-21.0	-10.5	-0.01
Africa	-0.04	0.02	-12.9	-9.6	-0.08
<i>Northern Africa</i>	-0.01	-0.02	-21.0	-10.2	-0.01
<i>Sub-Saharan Africa</i>	-0.07	0.04	-12.9	-9.2	-0.13
<i>Other Africa</i>	-0.10	0.09	-12.5	-9.8	-0.28
<i>South Africa</i>	-0.01	-0.02	-17.3	-8.5	0.00
<i>Other Southern Africa</i>	-0.04	-0.04	-15.3	-10.6	-0.05
Latin America	0.00	0.00	-17.4	-7.3	0.00
<i>Brazil</i>	0.00	0.00	-18.1	-7.6	0.02
<i>Other Latin America</i>	0.00	0.00	-17.1	-7.9	0.00
<i>Central America & Caribbean</i>	0.00	0.00	-18.4	-6.5	0.00
World	0.00	-0.03	-12.6	-6.0	-0.04
BRIICS	0.00	-0.10	-15.1	-7.7	-0.09
ROW	-0.01	0.00	-13.0	-9.0	-0.02

Source: Env-Linkages/IMAGE model analysis.

Table A.36. Policy simulation 5: tariff on oil imports

Percentage change from baseline in 2030

	GDP	Cons.	Export volumes	Oil exports	CO₂
OECD	-0.11	-0.12	-0.72	-15.1	-2.50
North America	0.00	0.03	-0.81	-18.6	-1.72
<i>US & Canada</i>	0.02	0.06	-0.91	-32.1	-1.85
<i>Mexico</i>	-0.18	-0.40	-0.14	-11.8	0.05
Europe	-0.30	-0.41	-0.65	-11.0	-3.38
Pacific	-0.08	-0.05	-0.73	-18.7	-3.29
<i>Asia</i>	-0.08	-0.06	-0.66	0.0	-3.47
<i>Oceania</i>	-0.03	-0.04	-1.17	-18.7	-2.63
Other developed & transition countries	-0.06	-0.16	-0.11	-6.7	-0.13
<i>Russian Federation</i>	-0.08	-0.15	-0.10	13.5	-0.10
<i>EECCA and other countries</i>	-0.03	-0.17	-0.12	-3.1	-0.16
Developing countries	-0.25	-0.53	-0.16	-9.6	-0.21
East and Southeast Asia and Oceania	-0.04	-0.10	-0.02	-10.8	0.01
<i>China</i>	-0.01	-0.07	-0.03	-12.0	0.02
<i>Indonesia</i>	-0.20	-0.36	-0.17	-11.8	0.32
<i>Other East and Southeast Asia</i>	-0.06	-0.11	0.01	-8.3	-0.13
<i>India</i>	-0.01	0.00	0.02	14.6	0.02
Other South Asia	0.03	0.06	0.07	-4.2	0.58
Middle East	-1.49	-2.51	-1.16	-8.6	-1.37
Africa	-0.56	-1.10	-0.35	-12.0	-0.97
<i>Northern Africa</i>	-0.36	-0.76	-0.10	-17.0	-0.55
<i>Sub-Saharan Africa</i>	-0.69	-1.37	-0.51	-10.0	-1.28
<i>Other Africa</i>	-1.08	-1.99	-0.81	-9.6	-2.61
<i>South Africa</i>	-0.01	0.02	-0.02	0.0	0.01
<i>Other Southern Africa</i>	-0.37	-0.82	-0.18	13.0	-1.35
Latin America	-0.09	-0.21	0.05	-11.4	0.24
<i>Brazil</i>	-0.04	-0.04	0.02	-3.9	0.49
<i>Other Latin America</i>	-0.16	-0.36	-0.03	-11.1	0.14
<i>Central America & Caribbean</i>	0.00	-0.05	0.25	-20.6	0.02
World	-0.15	-0.23	-0.47	-10.1	-1.15
BRIICS	-0.03	-0.07	-0.03	-12.5	0.02
ROW	-0.46	-0.83	-0.27	-9.2	-0.58

Source: Env-Linkages/IMAGE model analysis.

Table A.37. Policy simulation 6: higher labour force participation rates in OECD countries

Percentage change from baseline in 2030

	GDP	Cons.	Export volumes	Labour inputs	Land inputs	CO₂
OECD	4.79	5.41	6.63	5.93	0.41	4.78
North America	0.00	0.10	-0.37	0.00	-0.37	-0.20
<i>US & Canada</i>	0.00	0.10	-0.39	0.00	-0.54	-0.18
<i>Mexico</i>	0.00	0.08	-0.24	0.00	0.43	-0.41
Europe	10.34	12.46	9.68	10.75	-0.24	10.30
Pacific	8.79	9.89	11.89	9.57	1.81	9.76
<i>Asia</i>	9.34	10.67	13.13	10.48	12.45	11.49
<i>Oceania</i>	4.38	5.03	3.81	4.28	1.58	3.39
Other dev. & transition countries	0.00	0.30	-0.53	0.20	-1.60	0.01
<i>Russian Federation</i>	-0.17	0.08	-1.19	-0.17	0.00	-0.34
<i>EECCA and other countries</i>	0.22	0.50	-0.14	0.44	-2.72	0.52
Developing countries	-0.04	-0.04	-0.57	0.26	-0.18	-0.24
East and Southeast Asia and Oceania	0.41	0.46	-0.12	0.91	0.06	0.37
<i>China</i>	0.74	0.94	0.48	0.78	-0.30	0.62
<i>Indonesia</i>	1.01	1.30	0.61	1.01	1.33	0.45
<i>Other East and Southeast Asia</i>	-0.46	-0.40	-1.08	1.25	0.69	-0.67
<i>India</i>	0.53	0.56	0.44	0.53	-0.03	0.09
Other South Asia	0.11	0.11	0.27	0.38	-0.14	-0.49
Middle East	-1.61	-1.49	-2.67	-1.61	0.17	-2.44
Africa	-1.84	-1.66	-2.48	-1.47	-0.77	-1.74
<i>Northern Africa</i>	-2.10	-1.87	-2.90	-1.96	-1.66	-2.08
<i>Sub-Saharan Africa</i>	-1.66	-1.50	-2.23	-1.37	-0.73	-1.50
<i>Other Africa</i>	-1.44	-1.17	-2.12	-1.30	-0.13	-1.21
<i>South Africa</i>	-1.58	-1.89	-1.54	-1.58	-7.45	-1.67
<i>Other Southern Africa</i>	-2.27	-2.09	-2.91	-1.56	0.00	-1.92
Latin America	0.40	0.51	-0.25	0.63	0.21	0.01
<i>Brazil</i>	0.89	1.06	0.47	0.89	0.03	0.30
<i>Other Latin America</i>	0.09	0.16	-0.57	0.47	0.36	-0.14
<i>Central America & Caribbean</i>	0.34	0.68	-0.33	0.37	0.16	-0.11
World	3.29	3.88	3.42	1.18	-0.22	1.86
BRIICS	0.60	0.73	0.34	0.65	0.20	0.26
ROW	-0.73	-0.58	-1.38	-0.26	-0.11	-0.98

Source: Env-Linkages/IMAGE model analysis.

Table A.37. Policy simulation 6: higher labour force participation rates in OECD countries (continued)

Percentage change from baseline in 2030

	Iron & steel volume	Elect. volume	Minerals volume	Pulp, paper volume	Chemical volume
OECD	5.01	3.33	3.18	4.56	4.73
North America	-1.39	-0.13	-0.44	-0.06	-0.67
<i>US & Canada</i>	-1.49	-0.12	-0.48	-0.05	-0.69
<i>Mexico</i>	-0.91	-0.10	-0.31	-0.22	-0.47
Europe	9.16	6.58	11.33	9.76	9.54
Pacific	7.77	5.86	4.37	9.00	9.07
<i>Asia</i>	8.00	6.24	7.41	9.62	9.41
<i>Oceania</i>	2.44	2.60	2.54	4.34	3.28
Other developed & transition countries	-1.09	-0.02	-0.07	-0.48	-0.67
<i>Russian Federation</i>	-1.74	-0.44	-0.67	-1.18	-1.69
<i>EECCA and other countries</i>	-0.71	0.59	0.06	-0.27	-0.32
Developing countries	-1.07	-0.19	-0.04	-0.48	-0.99
East and Southeast Asia and Oceania	-0.75	0.14	0.18	-0.01	-0.54
<i>China</i>	-0.24	0.57	0.19	0.40	0.05
<i>Indonesia</i>	-1.03	0.27	1.38	0.46	-0.43
<i>Other East and Southeast Asia</i>	-2.93	-0.56	-0.61	-1.89	-2.22
<i>India</i>	-0.76	0.36	0.67	0.31	0.28
Other South Asia	-1.21	-0.38	-0.19	-0.83	-0.39
Middle East	-7.10	-2.21	-1.67	-4.73	-6.25
Africa	-1.09	-1.63	-1.71	-3.26	-3.62
<i>Northern Africa</i>	-5.59	-2.32	-2.55	-4.23	-4.35
<i>Sub-Saharan Africa</i>	-2.94	-1.32	-1.02	-2.65	-2.88
<i>Other Africa</i>	-4.74	-1.28	-0.92	-2.94	3.17
<i>South Africa</i>	2.70	-1.27	0.04	-1.58	-2.56
<i>Other Southern Africa</i>	-2.64	-1.59	-2.83	-3.49	-2.71
Latin America	-1.27	0.62	0.94	0.24	-0.54
<i>Brazil</i>	-0.63	1.28	2.00	1.14	0.21
<i>Other Latin America</i>	-1.81	0.24	0.55	-0.44	-0.99
<i>Central America & Caribbean</i>	-2.07	0.06	-1.17	0.13	-1.07
World	2.07	1.77	0.81	3.07	2.47
BRIICS	-0.55	0.19	0.30	0.31	-0.06
ROW	-2.28	-0.59	-0.61	-1.58	-2.18

Source: Env-Linkages/IMAGE model analysis.

Table A.38. Policy simulation 7: improved macroeconomic policies in developing countries

Percentage change from baseline in 2030

	GDP	Cons.	Export volume	Land	CO₂
OECD	-0.03	0.05	-0.34	-0.73	0.04
North America	-0.02	0.05	-0.36	-0.75	-0.04
<i>US & Canada</i>	0.00	0.07	-0.37	-0.87	-0.03
<i>Mexico</i>	-0.22	-0.11	-0.32	-0.17	-0.16
Europe	-0.05	0.07	-0.32	-0.46	0.11
Pacific	-0.03	0.02	-0.33	-0.84	0.14
<i>Asia</i>	-0.03	0.03	-0.35	-0.26	0.23
<i>Oceania</i>	-0.06	-0.02	-0.21	-0.85	-0.16
Other developed & transition countries	0.00	0.08	-0.15	-0.10	0.00
<i>Russian Federation</i>	0.00	0.03	-0.09	-0.13	-0.05
<i>EECCA and other countries</i>	0.00	0.11	-0.19	-0.09	0.05
Developing countries	4.59	5.56	4.24	2.13	3.77
East and Southeast Asia and Oceania	0.77	0.70	0.94	0.86	0.50
<i>China</i>	0.00	0.10	-0.16	-0.04	0.08
<i>Indonesia</i>	0.00	0.02	-0.09	0.08	0.26
<i>Other East and Southeast Asia</i>	2.71	1.72	2.67	3.59	2.43
<i>India</i>	0.00	0.11	-0.49	-0.08	-0.19
Other South Asia	0.00	0.10	-0.36	-0.32	0.31
Middle East	17.57	17.04	19.56	5.10	20.44
Africa	3.60	3.50	3.81	2.22	4.65
<i>Northern Africa</i>	1.38	1.43	1.59	0.66	1.49
<i>Sub-Saharan Africa</i>	5.19	5.09	5.17	2.29	7.02
<i>Other Africa</i>	5.07	4.59	5.41	2.59	5.28
<i>South Africa</i>	9.31	10.59	8.98	4.82	9.99
<i>Other Southern Africa</i>	2.13	1.88	2.24	1.21	2.06
Latin America	11.88	13.25	13.66	3.91	9.95
<i>Brazil</i>	12.87	14.85	13.76	1.28	11.97
<i>Other Latin America</i>	9.28	10.08	9.88	4.66	7.07
<i>Central America & Caribbean</i>	18.57	20.38	21.19	7.70	16.55
World	1.29	1.48	1.53	1.05	1.82
BRIICS	1.45	2.23	0.56	-0.41	0.56
ROW	7.25	7.31	6.81	1.07	7.52

Source: Env-Linkages/IMAGE model analysis.

Table A.38. Policy simulation 7: improved macroeconomic policies in developing countries (continued)

Percentage change from baseline in 2030

	Total Demand (volume)				
	Iron & Steel	Elect.	Minerals	Pulp, paper, pub.	Chem.
OECD	-0.32	-0.17	-0.55	-0.02	-0.20
North America	-0.41	-0.11	-0.55	0.00	-0.14
<i>US & Canada</i>	-0.39	-0.11	-0.54	0.01	-0.13
<i>Mexico</i>	-0.46	-0.23	-0.61	-0.16	-0.20
Europe	-0.41	-0.21	-0.52	-0.04	-0.27
Pacific	-0.13	-0.22	-0.58	-0.04	-0.21
<i>Asia</i>	-0.15	-0.21	-0.42	-0.06	-0.21
<i>Oceania</i>	0.13	-0.34	-0.92	0.03	-0.17
Other developed & transition countries	-0.03	-0.08	-0.20	0.08	-0.01
<i>Russian Federation</i>	0.07	-0.11	-0.35	0.01	-0.03
<i>EECCA and other countries</i>	-0.09	-0.05	-0.17	0.09	-0.01
Developing countries	2.78	4.75	1.77	4.57	3.64
East and Southeast Asia and Oceania	0.53	0.62	0.14	0.65	0.52
<i>China</i>	0.04	-0.08	-0.13	0.05	-0.10
<i>Indonesia</i>	0.21	0.15	-0.07	-0.16	0.04
<i>Other East and Southeast Asia</i>	2.43	1.87	2.66	3.12	2.66
<i>India</i>	0.06	0.02	-0.23	0.00	-0.24
Other South Asia	0.00	0.23	-0.15	0.12	-0.18
Middle East	24.41	19.75	23.23	20.11	21.89
Africa	4.74	5.21	3.46	4.44	4.09
<i>Northern Africa</i>	2.27	1.65	1.53	1.74	1.66
<i>Sub-Saharan Africa</i>	7.58	6.85	5.58	6.36	6.23
<i>Other Africa</i>	7.02	6.49	5.96	5.95	5.55
<i>South Africa</i>	13.55	8.74	9.53	9.97	10.94
<i>Other Southern Africa</i>	2.22	1.84	2.14	2.44	2.00
Latin America	17.01	13.86	13.89	15.92	15.57
<i>Brazil</i>	17.09	17.24	14.08	18.80	15.52
<i>Other Latin America</i>	12.57	9.67	11.46	12.04	12.75
<i>Central America & Caribbean</i>	30.14	18.32	27.73	22.57	25.15
World	1.15	1.48	0.87	1.25	1.29
BRIICS	0.83	1.57	0.35	1.79	1.14
ROW	6.10	6.13	3.36	6.57	6.16

Source: Env-Linkages/IMAGE model analysis.

Table A.39. Policy simulation 8: ambitious structural reforms adopted by developing countries

Percentage change from baseline in 2030

	GDP	Cons.	Exports	Land	CO₂
OECD	0.15	0.30	-0.46	-1.59	0.22
North America	0.33	0.41	-0.15	-1.39	0.24
<i>US & Canada</i>	0.00	0.16	-0.87	-1.63	-0.06
<i>Mexico</i>	4.56	4.24	4.56	-0.23	4.26
Europe	-0.05	0.20	-0.63	-0.86	0.18
Pacific	-0.03	0.07	-0.58	-2.22	0.24
<i>Asia</i>	-0.03	0.08	-0.61	-0.71	0.39
<i>Oceania</i>	-0.06	0.03	-0.40	-2.25	-0.28
Other developed & transition countries	0.00	0.22	-0.43	-0.22	0.03
<i>Russian Federation</i>	0.00	0.14	-0.36	-0.27	-0.09
<i>EECCA and other countries</i>	0.00	0.29	-0.47	-0.18	0.20
Developing countries	9.30	10.91	9.69	3.43	9.04
East and Southeast Asia and Oceania	2.43	1.98	2.81	2.53	1.45
<i>China</i>	0.00	0.25	-0.40	-0.03	0.22
<i>Indonesia</i>	0.00	0.12	-0.36	0.06	0.34
<i>Other East and Southeast Asia</i>	8.55	4.90	7.85	10.40	7.12
<i>India</i>	0.00	0.29	-1.36	-0.15	-0.27
Other South Asia	0.00	0.26	-0.92	-0.78	0.38
Middle East	49.11	49.98	56.55	14.28	54.42
Africa	9.48	9.68	9.42	3.45	14.05
<i>Northern Africa</i>	5.10	5.26	5.88	1.85	4.66
<i>Sub-Saharan Africa</i>	12.64	13.05	11.58	3.53	21.09
<i>Other Africa</i>	4.51	4.26	4.39	2.34	4.57
<i>South Africa</i>	42.62	50.22	41.25	13.09	40.40
<i>Other Southern Africa</i>	6.49	6.11	7.90	3.01	6.08
Latin America	11.48	13.32	11.06	3.38	7.29
<i>Brazil</i>	13.67	16.43	14.12	0.67	13.30
<i>Other Latin America</i>	9.62	11.09	8.92	4.15	3.59
<i>Central America & Caribbean</i>	12.87	14.98	12.28	7.37	7.36
World	2.76	3.03	3.67	1.58	4.41
BRIICS	2.24	3.64	0.84	-0.72	1.38
ROW	15.49	14.92	15.97	0.84	17.96

Source: Env-Linkages/IMAGE model analysis.

Table A.39. Policy simulation 8: ambitious structural reforms adopted by developing countries (continued)

Percentage change from baseline in 2030

	Total Demand (volume)				
	Iron & Steel	Elect.	Minerals	Pulp, paper, pub.	Chem.
OECD	-0.10	-0.17	-0.28	0.20	-0.13
North America	0.33	-0.04	0.34	0.36	0.21
<i>US & Canada</i>	-0.74	-0.14	-0.82	0.06	-0.27
<i>Mexico</i>	4.94	3.74	4.57	4.54	4.48
Europe	-0.63	-0.24	-0.78	0.06	-0.46
Pacific	-0.08	-0.32	-0.93	0.01	-0.36
<i>Asia</i>	-0.11	-0.30	-0.69	-0.01	-0.37
<i>Oceania</i>	0.62	-0.47	-1.47	0.19	-0.29
Other developed & transition countries	0.04	-0.14	-0.24	0.27	0.05
<i>Russian Federation</i>	0.04	-0.21	-0.60	-0.03	-0.16
<i>EECCA and other countries</i>	0.03	-0.03	-0.15	0.34	0.11
Developing countries	5.77	9.51	3.29	8.61	6.67
East and Southeast Asia and Oceania	1.67	1.95	0.69	2.17	1.81
<i>China</i>	0.14	-0.06	-0.13	0.21	-0.20
<i>Indonesia</i>	0.36	0.16	-0.31	-0.60	-0.17
<i>Other East and Southeast Asia</i>	7.74	5.59	8.46	10.33	8.76
<i>India</i>	0.39	0.18	-0.43	0.13	-0.45
Other South Asia	0.07	0.33	-0.35	0.42	-0.32
Middle East	68.83	52.39	65.27	59.03	63.08
Africa	14.58	14.17	9.40	12.70	11.85
<i>Northern Africa</i>	8.57	5.50	5.78	6.29	6.12
<i>Sub-Saharan Africa</i>	21.50	18.18	13.39	17.24	16.89
<i>Other Africa</i>	6.10	5.90	5.65	5.37	4.92
<i>South Africa</i>	68.64	33.02	39.50	45.57	51.06
<i>Other Southern Africa</i>	6.13	5.17	6.20	7.85	6.33
Latin America	14.14	10.97	9.56	15.41	13.52
<i>Brazil</i>	17.17	18.03	14.12	22.83	16.05
<i>Other Latin America</i>	10.93	4.78	7.12	11.35	11.83
<i>Central America & Caribbean</i>	13.36	8.60	11.49	13.59	13.05
World	2.66	3.05	1.85	2.52	2.51
BRIICS	1.31	2.69	0.84	3.16	1.70
ROW	13.60	12.91	5.97	12.67	11.87

Source: Env-Linkages/IMAGE model analysis.

Table A.40. Policy simulation 9: more ambitious environmental policies in developing countries

Percentage change from baseline in 2030

	GDP	Cons	Water demand	Trans demand	CO₂
OECD	-0.06	-0.14	-0.02	-0.13	0.02
North America	-0.14	-0.35	-0.04	-0.29	-0.14
<i>US & Canada</i>	-0.14	-0.36	-0.04	-0.30	-0.14
<i>Mexico</i>	-0.01	-0.04	-0.02	-0.07	-0.11
Europe	0.01	0.12	0.14	0.06	0.33
Pacific	-0.01	-0.02	0.00	-0.03	-0.11
<i>Asia</i>	-0.01	-0.02	-0.01	-0.03	-0.09
<i>Oceania</i>	-0.01	0.05	0.05	-0.01	-0.17
Other developed & transition countries	0.06	0.60	0.08	0.42	0.12
<i>Russian Federation</i>	0.01	0.04	0.02	-0.02	-0.10
<i>EECCA and other countries</i>	0.06	1.09	0.10	0.67	0.44
Developing countries	0.25	1.27	1.11	0.80	0.93
East and Southeast Asia and Oceania	0.00	-0.07	-0.04	-0.08	-0.06
<i>China</i>	-0.01	-0.10	-0.04	-0.05	-0.05
<i>Indonesia</i>	0.02	0.00	0.00	-0.05	-0.06
<i>Other East and Southeast Asia</i>	0.00	-0.02	-0.02	-0.06	-0.09
<i>India</i>	-0.02	-0.02	-0.03	-0.07	-0.11
Other South Asia	0.00	0.01	-0.03	-0.07	-0.14
Middle East	0.54	4.99	3.19	4.11	5.67
Africa	0.02	0.06	0.00	0.00	-0.03
<i>Northern Africa</i>	0.01	0.03	0.04	-0.01	-0.03
<i>Sub-Saharan Africa</i>	0.03	0.08	-0.01	0.01	-0.03
<i>Other Africa</i>	0.05	0.14	-0.01	0.04	0.04
<i>South Africa</i>	-0.01	-0.01	0.03	-0.02	-0.06
<i>Other Southern Africa</i>	0.01	0.02	-0.05	-0.03	-0.04
Latin America	0.48	2.85	2.28	2.58	5.36
<i>Brazil</i>	0.03	0.00	-0.07	0.01	-0.10
<i>Other Latin America</i>	0.63	5.42	5.54	4.49	7.06
<i>Central America & Caribbean</i>	0.01	0.01	-0.02	-0.02	-0.42
World	-0.02	0.17	0.23	0.10	0.41
BRICS	-0.01	-0.05	-0.04	-0.04	-0.07
ROW	0.24	2.16	1.42	1.63	2.23

Source: Env-Linkages/IMAGE model analysis.

Table A.41. Policy simulation 10: package 1

Percentage change from baseline in 2015

	GDP	Cons	CO₂	Export volumes
OECD	0.03	-0.29	0.03	2.44
North America	0.01	-0.55	-0.22	3.89
<i>US & Canada</i>	0.00	-0.56	-0.21	3.98
<i>Mexico</i>	0.07	-0.40	-0.30	3.27
Europe	-0.02	-0.17	0.20	1.15
Pacific	0.20	0.29	0.49	3.99
<i>Asia</i>	0.24	0.31	0.59	4.18
<i>Oceania</i>	-0.20	0.18	0.08	2.72
Other developed & transition countries	0.12	0.89	0.38	0.08
<i>Russian Federation</i>	0.12	0.23	0.01	0.26
<i>EECCA and other countries</i>	0.12	1.47	0.89	-0.03
Developing countries	0.36	2.19	1.38	0.06
East and Southeast Asia and Oceania	-0.01	0.39	-0.01	0.75
<i>China</i>	-0.06	0.42	-0.04	1.09
<i>Indonesia</i>	0.19	0.32	0.11	0.95
<i>Other East and Southeast Asia</i>	0.06	0.35	0.08	0.25
<i>India</i>	0.02	0.22	0.00	1.12
Other South Asia	0.16	0.32	0.05	2.24
Middle East	1.28	5.85	7.28	-0.42
Africa	1.12	3.91	1.71	-2.14
<i>Northern Africa</i>	0.05	0.10	-0.01	0.07
<i>Sub-Saharan Africa</i>	1.92	6.95	2.86	-3.67
<i>Other Africa</i>	2.55	8.46	7.39	-4.48
<i>South Africa</i>	0.08	0.33	-0.15	0.62
<i>Other Southern Africa</i>	2.78	11.07	5.00	-6.15
Latin America	0.58	3.56	4.44	-2.54
<i>Brazil</i>	0.07	0.62	0.07	1.37
<i>Other Latin America</i>	1.08	6.13	8.89	-6.48
<i>Central America & Caribbean</i>	0.12	0.87	-0.14	1.15
World	0.11	0.27	0.64	1.53
BRIICS	0.00	0.38	-0.11	1.03
ROW	0.71	3.36	3.27	-0.76

Source: Env-Linkages/IMAGE model analysis.

Table A.42. Policy simulation 11: package 2

Percentage change from baseline in 2015

	GDP	Cons	CO₂	Export volumes
OECD	-0.09	-0.18	-1.99	-0.47
North America	0.01	0.04	-1.38	-0.85
<i>US & Canada</i>	0.02	0.06	-1.49	-0.95
<i>Mexico</i>	-0.09	-0.25	0.10	-0.16
Europe	-0.26	-0.58	-2.73	-0.24
Pacific	-0.06	-0.09	-2.44	-0.48
<i>Asia</i>	-0.07	-0.07	-2.54	-0.43
<i>Oceania</i>	-0.04	-0.20	-2.02	-0.83
Other developed & transition countries	-0.02	-0.16	-0.04	0.02
<i>Russian Federation</i>	-0.05	-0.20	-0.02	-0.01
<i>EECCA and other countries</i>	0.02	-0.13	-0.07	0.04
Developing countries	-0.01	0.08	-0.03	-0.31
East and Southeast Asia and Oceania	-0.01	-0.05	-0.08	-0.06
<i>China</i>	0.01	0.00	-0.09	-0.12
<i>Indonesia</i>	-0.17	-0.27	0.20	-0.19
<i>Other East and Southeast Asia</i>	-0.01	-0.08	-0.11	0.05
<i>India</i>	0.01	0.04	0.01	-0.02
Other South Asia	0.02	0.05	0.41	-0.03
Middle East	-0.77	-1.75	-0.81	-0.76
Africa	0.80	2.88	1.26	-2.51
<i>Northern Africa</i>	-0.13	-0.52	-0.18	0.16
<i>Sub-Saharan Africa</i>	1.51	5.60	2.22	-4.33
<i>Other Africa</i>	1.96	6.62	5.42	-5.09
<i>South Africa</i>	0.03	0.16	0.00	0.29
<i>Other Southern Africa</i>	2.32	9.64	4.47	-7.34
Latin America	-0.03	-0.15	0.25	0.14
<i>Brazil</i>	-0.01	-0.01	0.33	0.10
<i>Other Latin America</i>	-0.06	-0.26	0.27	0.09
<i>Central America & Caribbean</i>	0.00	-0.05	0.02	0.27
World	-0.07	-0.13	-0.95	-0.40
BRIICS	-0.01	-0.02	-0.03	-0.09
ROW	-0.02	0.11	-0.03	-0.45

Source: Env-Linkages/IMAGE model analysis.

Acronyms

BRIC	Brazil, Russia, India and China
BRIICS	Brazil, Russia, India, Indonesia, China and South Africa
CBD	Convention on Biological Diversity
CCS	Carbon capture and storage
CDM	Clean Development Mechanism
CO	Carbon monoxide
CO ₂	Carbon dioxide
CO ₂ eq	Carbon dioxide equivalents
CSD	Commission on Sustainable Development
DAC	OECD Development Assistance Committee
EJ	Exajoules
EO	Environmental Outlook
EU-15	Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, Netherlands, Portugal, Spain, Sweden, United Kingdom
EU-25	Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, United Kingdom
EUR	Euro (currency of European Union)
FAO	Food and Agriculture Organisation of the United Nations
GBP	Pound sterling
GDP	Gross domestic product

GHG	Greenhouse gas
GJ	Gigajoules
GNI	Gross national income
Gt	Giga tonnes
GTAP	Global Trade Analyses Project
GW	Gigawatt
IEA	International Energy Agency
IMAGE	Integrated Model to Assess the Global Environment
IPCC	Intergovernmental Panel on Climate Change
LULUCF	Land use, land use change and forestry
MAD	Mutual Acceptance of Data
MDGs	Millennium Development Goals
MEA	Multilateral environmental agreement
MNP	Netherlands Environmental Assessment Agency
MSA	Mean species abundance
Mt	Million tonnes
MWh	Megawatt-hour
PFC	Perfluorocarbon
PM	Particulate matter
PM _{2.5}	Particulate matter, particles of 2.5 micrometres (µm) or less
PM ₁₀	Particulate matter, particles of 10 micrometres (µm) or less
ppb	Parts per billion
ppm	Parts per million
ppmv	Parts per million by volume
PPPs	Purchasing Power Parities
ROW	Rest of world
RTA	Regional trade agreement

UNFCCC	United Nations Framework Convention on Climate Change
USD	United States dollar
VOC	Volatile organic compound
WHO	World Health Organization
WSSD	World Summit on Sustainable Development
WTO	World Trade Organization

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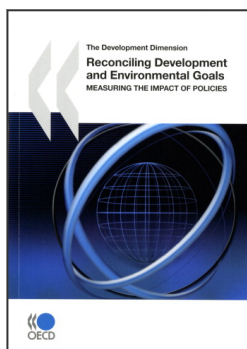
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