

Sustainable Development Targets in relation to the TranSust.Scan Models

S Challenges and Targets			IFW DART	WIFO GAIN	IVM - DEMETER	UniHH EU- FASOM	FEEM ICES	SMASH - IMACLI M	LIFEA WSD/ IMPEC	ECN - MARK EL	ZEW PACE	FEI WT. H
Policy Area	Targets:	Business As Usual										
Climate Change and Clean Energy:												
<i>Greenhouse gas emissions:</i>	8% below 1990 levels 2008-12	BAU: By 2030, current energy practice will result in emissions 5% higher by 2030 ^f	X			X		X	X	X	X	X
	Developed countries reduce emissions by 30% over 1990 by 2020 (with agreement) EU-27 20% without international agreement ⁱⁱ	National Energy Forecasts submitted under National Emissions Ceiling Directive (2001/81/EC) ⁱⁱⁱ	X			X		X	X	X	X	X
	By 2050 global emissions reduced by up to 50 % compared to 1990 - reductions in developed countries of 60-80% by 2050	-	X		X	X		X	X	X		X
<i>Global average temperature:</i>	Not to rise by more than 2°C above pre-industrial levels	IPCC projects BAU emissions will lead to global average temperature is likely to increase by further 1.8°C to 4°C by 2100 ^v			X					+/-		X
<i>Carbon capture and sequestration and Storage</i>	Need for increased R&D in this area to make the prospect of this policy more economically viable ^v	No BAU outlined in relevant Green paper			X	X						X
<i>Renewable energy</i>	12% of energy consumption from renewables by 2010, 15% by 2015. (25% by 2020 ^{vi})	Renewable energy is expected to reach a share of between 10.5 and 12.5% in 2020 under BAU. ^{vii}				X		X		X		X
	21% of electricity consumption by 2010	Under current trends, the EU will miss targets by 1-2 percentage points ^{viii}				X		X		X		X
<i>Energy efficiency</i>	Achieve a 20% saving in EU energy consumption compared to BAU for 2020 (Presidency Conclusions 2007) ^{ix}	Annual savings of 430-600 million tonnes (Mt) of CO ₂ under BAU, with 20% share, savings are 600-900 Mt ^x Outlined in Green Paper on Energy Efficiency.	X					X		X	X	X
	Overall saving of 9% of final energy consumption over 9 years to 2017 (SDS)	-						?		X		X
<i>Transport fuels</i>	5.75%/8%/10% of transport fuels to be biofuel by 2010/15/20 ^{xi}	Under current trends, the EU will miss first target by 1-2 percentage points ^{xii}	Not Yet			X		X				X
	R&D for 2 nd Generation	N/A				X						X

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Policy Area	Targets:	Business As Usual										
Reduction of transport noise ^{ix}	Directive 2002/49/EC environmental noise: Member States to adopt action plans to reduce/limit noise from transport infrastructures.	N/A										
Public transport efficiency 2010 ^x	Acquire less-polluting and more energy efficient vehicles – encourage motor manufacturers in this area ^{xi} EURO V – VI (proposed limits for light commercial vehicles)	See above and also EUROIV						X				
Living Road deaths by 10 ^{xvii}	50,000 deaths to 25,000 by 2010 over 2000	Current trends there would be 32,500 fatalities in 2010 ^{xviii}						+/-				
Sustainable Consumption and Production												
Promote sustainable consumption and Production patterns	Promote and disseminate social and eco-innovations, environmental innovations through implementation of Environmental Tech Action Plan: Full implementation of EU legislation such as Eco-design, IPPC, WEEE and RoHS will further enhance eco innovation in the future. ^{xviii}	In absence of central plan, analysis of National action plans in this area?										
Conservation and Management of Natural Resources												
Prevention of Avoiding over-exploitation of natural resources	Implement guidelines set out in the Johannesburg Plan (2002) ^{xxv} and European Commission Biodiversity Action Plan (BAP), and Biodiversity Strategy of 2006 ^{xxvi} ; Halt biodiversity loss by the end of the decade	Continued biodiversity loss at present trends.				X						
Restoration	Achieve the 4 UN Objectives on forests by 2015 ^{xxvii} : 1) Reverse the loss of forest cover through sustainable forest management 2) Enhance forest-based economic, social and environmental benefits, 3) Increase significantly the area of protected forests and other sustainably managed forests, 4) Reverse the decline in official development assistance for sustainable forest management					X						X
Recycling	Adoption of life-cycle thinking and promoting reuse and recycling. Specific to waste stream: By December '08 by 55%-80% by weight of all packaging waste to be recycled (Directive 2004/12/EC). Extension to 2012 for Gr, Ire, Port and EU10.											
Public Health												
Strategy for improving air quality and VOC emissions ^{xxviii}	Directive 1996/62/EC on air quality and Directive 1999/30/EC on limit values of pollutants in ambient air.							+/-	X (for outdoor emission)			

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Social Inclusion, Demography and Migration												
<i>Labour Market participation</i> ^{xvix}	Increase participation of women and older workers according to Lisbon and Stockholm employment targets by 2020. 70% overall, 60% for women and 50% for older women	Maintain present participation levels?							X (lab part. By age, gender and education)			
	Increase labour participation by disabled persons	Maintain present participation levels?										
<i>Youth participation</i>	Reduce early school leaving to 10%	Maintain present levels?							X			
	85% of 22 year olds should have completed upper secondary education	Maintain present participation levels?							X			
	Every young person who has left school and is unemployed should be offered job/apprenticeship/additional training within 6 months/4 months by 2007/2010	Maintain present participation levels?							X			
Global Poverty and Sustainable Development Challenges												
<i>Global poverty and sustainable development</i>	Recommit to targets set out in Johannesburg (2002)							X (T3WP2)	X (inc inequality)			
<i>Global Aid</i>	Raise volume of aid to 0.56%/0.7% of Gross National Income by 2010/2015	Maintain present levels?						X (T3WP2)				

ⁱ **Energy for a Changing World: An Energy Policy for Europe – The Need for Action:**

http://ec.europa.eu/energy/energy_policy/doc/2007_03_02_energy_leaflet_en.pdf

ⁱⁱ **European Commission Directorate-General for Environment: EU Action Against Climate Change – Leading Global Action to 2020 and Beyond:**

http://ec.europa.eu/environment/climat/pdf/eu_action_against_climate_change.pdf

ⁱⁱⁱ **National emission ceilings for SO₂, NO_x, VOC and NH₃, to be obtained by 2010:**

http://ec.europa.eu/environment/air/pdf/eu27_nat_emission_ceilings_2010.pdf

^{iv} **European Commission Directorate-General for Environment: EU Action Against Climate Change – Leading Global Action to 2020 and Beyond:**

http://ec.europa.eu/environment/climat/pdf/eu_action_against_climate_change.pdf

^v **European Commission COM (2005) 105 Final: GREEN PAPER A European Strategy for Sustainable, Competitive and Secure Energy:**

http://ec.europa.eu/energy/green-paper-energy/doc/2006_03_08_gp_document_en.pdf

^{vi} **European Commission SEC (2006) 1720: Commission Staff Working Document. Renewable Energy Road Map. Summary of the Impact Assessment.**

European Parliament, has called for a mandatory target for renewable energy of 25% of overall energy consumption in 2020 (together with mandatory sectoral targets):

http://ec.europa.eu/energy/energy_policy/doc/04_renewable_energy_roadmap_summary_impact_assessment_en.pdf

^{vii} **European Commission SEC (2006) 1720 Commission Staff Working Document. Renewable Energy Road Map – Summary of the Impact Assessment:**

http://ec.europa.eu/energy/energy_policy/doc/04_renewable_energy_roadmap_summary_impact_assessment_en.pdf

^{viii} **European Commission Com (2005) 105 Final: GREEN PAPER A European Strategy for Sustainable, Competitive and Secure Energy:**

http://ec.europa.eu/energy/green-paper-energy/doc/2006_03_08_gp_document_en.pdf

^{ix} **Council of the European Union 7224/07: Presidency Conclusions:**

http://www.consilium.europa.eu/ueDocs/cms_Data/docs/pressData/en/ec/93135.pdf

^x **European Commission SEC (2006) 1720 Commission Staff Working Document. Renewable Energy Road Map – Summary of the Impact Assessment:**

http://ec.europa.eu/energy/energy_policy/doc/04_renewable_energy_roadmap_summary_impact_assessment_en.pdf

^{xi} **Energy for a Changing World: An Energy Policy for Europe – The Need for Action:**

http://ec.europa.eu/energy/energy_policy/doc/2007_03_02_energy_leaflet_en.pdf

^{xii} **European Commission Com (2005) 105 Final: GREEN PAPER A European Strategy for Sustainable, Competitive and Secure Energy:**

http://ec.europa.eu/energy/green-paper-energy/doc/2006_03_08_gp_document_en.pdf

^{xiii} **European Commission, Staff Working Document. Impact Assessment of the Communication “Keep Europe Moving” Sustainable mobility for our continent. Mid-term review of the European Commission’s 2001 Transport White Paper:**

http://ec.europa.eu/transport/transport_policy_review/doc/2006_transport_policy_review_impact_assessment_en.pdf

^{xiv} **Community guidelines for the development of the trans-European transport network** <http://europa.eu/scadplus/leg/en/lvb/l24094.htm>

^{xv} **European Commission, Staff Working Document. Impact Assessment of the Communication “Keep Europe Moving” Sustainable mobility for our continent. Mid-term review of the European Commission’s 2001 Transport White Paper**

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^{xvi} **European Commission, Staff Working Document. Impact Assessment of the Communication “Keep Europe Moving” Sustainable mobility for our continent. Mid-term review of the European Commission’s 2001 Transport White Paper**

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^{xvii} **European Commission, Staff Working Document. Impact Assessment of the Communication “Keep Europe Moving” Sustainable mobility for our continent. Mid-term review of the European Commission’s 2001 Transport White Paper**

http://ec.europa.eu/transport/transport_policy_review/doc/2006_transport_policy_review_impact_assessment_en.pdf

^{xviii} **European Commission, Staff Working Document. Impact Assessment of the Communication “Keep Europe Moving” Sustainable mobility for our continent. Mid-term review of the European Commission’s 2001 Transport White Paper**

http://ec.europa.eu/transport/transport_policy_review/doc/2006_transport_policy_review_impact_assessment_en.pdf

^{xxix} **Directive 2002/49/EC of the European Parliament and of the Council of 25 June 2002: relating to the assessment and management of environmental noise**

<http://www.imagine-project.org/bestanden/2002-49-EC.pdf>

^{xx} Public Passenger Transport Services for Road and Rail:

http://eur-lex.europa.eu/LexUriServ/site/en/com/2005/com2005_0319en01.pdf

Promotion of Clean Road transport Vehicles:

http://ec.europa.eu/transport/clean/doc/com_2005_0634_en.pdf

^{xxi} **European Commission Directorate-General for Energy and Transport COM (2005) 265: Doing More With Less – Green Paper on Energy Efficiency:**

http://ec.europa.eu/energy/efficiency/doc/2005_06_green_paper_book_en.pdf

^{xxii} **European Commission Directorate-General for Energy and Transport: Halving the number of road accident victims in the EU by 2010: A shared responsibility.**

http://ec.europa.eu/transport/roadsafety_library/rsap/memo_rsap_en.pdf

^{xxiii} **European Commission, Staff Working Document. Impact Assessment of the Communication “Keep Europe Moving” Sustainable mobility for our continent. Mid-term review of the European Commission’s 2001 Transport White Paper**

http://ec.europa.eu/transport/transport_policy_review/doc/2006_transport_policy_review_impact_assessment_en.pdf

^{xxiv} **European Commission COM (2007) 162: Report of the Environmental Technologies Action Plan (2005-2006)**

http://ec.europa.eu/environment/etap/pdfs/comm_pdf_com_2007_0162_f_en_acte.pdf

^{xxv} **Johannesburg Plan of Implementation: IV. Protecting and managing the natural resource base of economic and social development.**

http://www.un.org/esa/sustdev/documents/WSSD_POI_PD/English/POIChapter4.htm

^{xxvi} **European Commission (2001) 162 Biodiversity Action plan for Economic and Development co-operation:** [http://eur-](http://eur-lex.europa.eu/smartapi/cgi/sga_doc?smartapi!celexapi!prod!CELEXnumdoc&lg=en&numdoc=52001DC0162(05)&model=guichett)

[lex.europa.eu/smartapi/cgi/sga_doc?smartapi!celexapi!prod!CELEXnumdoc&lg=en&numdoc=52001DC0162\(05\)&model=guichett](http://eur-lex.europa.eu/smartapi/cgi/sga_doc?smartapi!celexapi!prod!CELEXnumdoc&lg=en&numdoc=52001DC0162(05)&model=guichett)

European Commission COM (2006) 216: Halting the Loss of Biodiversity by 2010 – And Beyond. Sustaining ecosystem services for human well-being :

http://eur-lex.europa.eu/LexUriServ/site/en/com/2006/com2006_0216en01.pdf

European Commission SEC (2006) 216: Halting the Loss of Biodiversity by 2010 – And Beyond. Sustaining ecosystem services for human well-being. Impact Assessment:

http://ec.europa.eu/environment/nature/biodiversity/current_biodiversity_policy/biodiversity_com_2006/pdf/sec_2006_607.pdf

^{xxvii} **Global Objectives on Forests:**
http://www.un.org/esa/forests/pdf/session_documents/unff6/newsrelease-endofsession.pdf

^{xxviii} **COUNCIL DIRECTIVE 1999/13/EC of 11 March 1999 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain activities and installations** <http://eur-lex.europa.eu/LexUriServ/site/en/consleg/1999/L/01999L0013-20040430-en.pdf>

^{xxix} **EU Job Target for 2010:**

http://ec.europa.eu/employment_social/news/2002/feb/022_en.html