

Environment at a Glance 2004

Ukraine



Introduction



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GOVERNMENT INVOLVEMENT: MULTINATIONAL AGREEMENTS

Vienna Convention (ozone)	1986
UNFCCC (climate change)	1997
UNCLOS (law of the sea)	1999
UNCCD (desertification treaty)	..
Ramsar Convention (wetlands)	1991
Kyoto Protocol (CO2 emissions)	(signed only)
Convention on Biodiversity	..
CMS (migratory species treaty)	1999
CITES (species trade treaty)	..

Ukraine is a Lower Middle Income country with per capita income of \$780. It is located in the Europe and Central Asia region. Its land area is 57,935 thousand hectares. Total population is 51.5 millions, of which 33% is rural. Population density is 84 people per sq. km.

Forest area accounts for 1% of total forests in Europe and Central Asia. Nationally protected areas cover 3.9% of the territory (the conventional target is 10%).

Fish catch is among the 20 highest in the world, with 414,020 tons per year.

In year 2000 total emissions of CO2 represented 1.9% of global emissions. Health damages from particulate emissions (PM10) have been estimated to account for 1.0% of GNI.

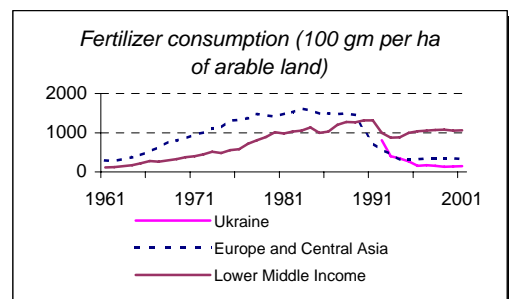
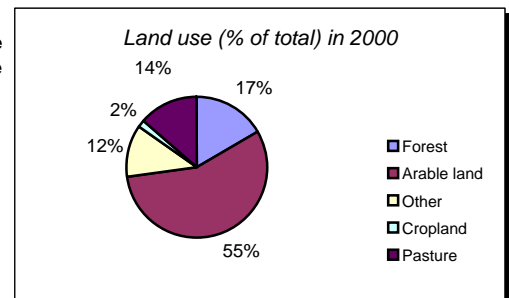
Access to improved water source is 98%, which is above the regional and income group levels. Access to sanitation facilities is 99%.

In 2002 adjusted net savings (% of GNI) were -0.5 %. Continuously negative rates of adjusted net savings are associated with declining consumption and welfare over time.

Environment and Natural Resource Indicators

AGRICULTURE

	Ukraine		Europe and Central Asia	Lower Middle Income
	1995	2002	2002	2002
Population, total (millions)	51.5	48.7	472.4	2,633.4
Rural population (% of total)	32.6	31.9	36.4	50.6
	1995	2001	2001	2001
Land area (thousand ha)	57,935	57,935	..	..
Arable land (thousand ha)	33,286	32,564	..	..
Forest area (% of area)	16.0	16.5	39.7	31.8
Arable land (% of area)	57.5	56.2	11.2	9.9
Cropland (% of area)	1.8	1.6	0.4	0.9
Pasture (% of area)	13.0	13.7	16.4	24.4
Area under cereal production (thousand ha)	12,878	14,263	117,180	252,450
Irrigated land (thousand ha)	2,585	2,408	..	..
Fertilizer consumption (100 gm per ha of arable land)	267.4	145.6	331.2	1,060.1
Agriculture value added per worker (constant 1995 US\$)	1,498.6	1,684.6	2,451.7	728.7
Food production index (1989-91 = 100)	61.8	52.6	..	157.7



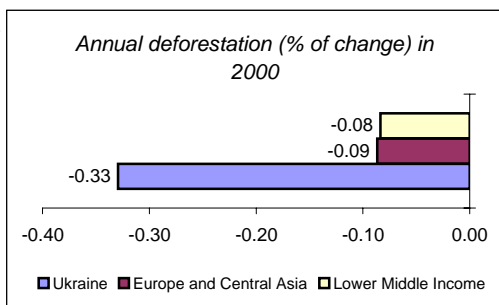
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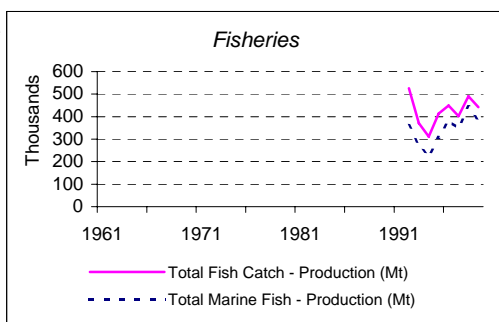
FORESTS

	Ukraine		Europe and Central Asia	Lower Middle Income
	1990	2000	2000	2000
Forest area (sq km)	92,740	95,840	9,464,200	19,065,000
Forest area (% of area)	16.0	16.5	39.7	31.8
Deforestation (sq km per annum)	..	(310)	(8,143)	14,730
Annual deforestation (% of change)	..	(0.33)	(0.09)	(0.08)



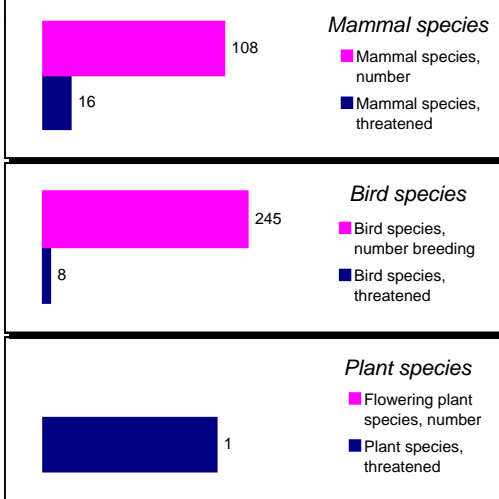
FISHERIES

	Ukraine		Europe and Central Asia	Lower Middle Income
	1989	1995	1998	1999
Total Fish Catch - Production (Mt)	-	414,020	490,640	441,670
Total Fish Catch - Exports (Mt)	..	503	4,740	2,294
Total Fish Catch - Imports (Mt)	..	12,154	1,651	991
Total Marine Fish - Production (Mt)	-	307,070	443,530	385,910
Total Marine Fish - Exports (Mt)	..	31	170	154
Total Marine Fish - Imports (Mt)	..	5,766	934	200



BIODIVERSITY

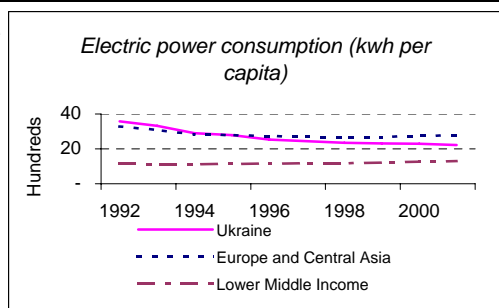
	Ukraine		Europe and Central Asia	Lower Middle Income
	1996	2003	2003	2003
Nationally protected areas (% of total area)	..	3.9	6.8	7.2
Mammal species, number	..	108	..	..
Mammal species, number threatened	15	16	..	..
Bird species, number breeding	..	245	..	..
Bird species, number threatened	10	8	..	..
Fish species, number	..	88	..	..
Fish species, number threatened	12	11	..	..
Flowering plant species, number	..	..	..	..
Plant species, number threatened	..	1	..	..



Note: Flowering plant species, number is for 1999.

ENERGY

	Ukraine		Europe and Central Asia	Lower Middle Income
	1995	2001	2001	2001
Electric power consumption (kwh in millions)	143,500	108,840	..	..
Electric power consumption (kwh per capita)	2,785	2,217	2,774	1,304
Electricity production (kwh in millions)	193,820	172,800	1,855,800	4,098,300
Electricity production from coal sources (% of total)	32.9	27.5	31.0	42.5

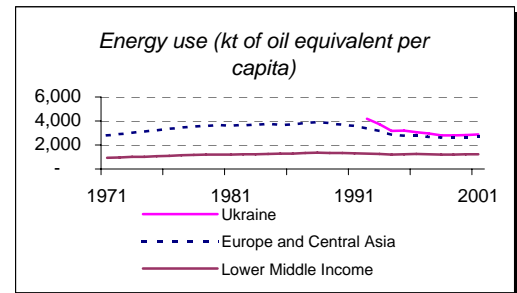
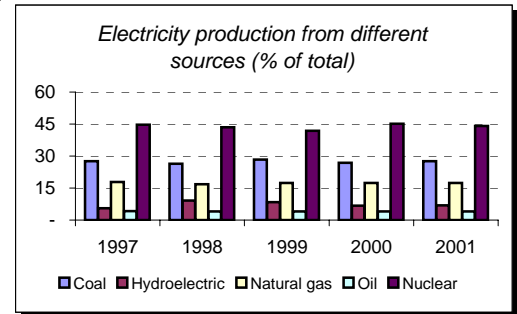


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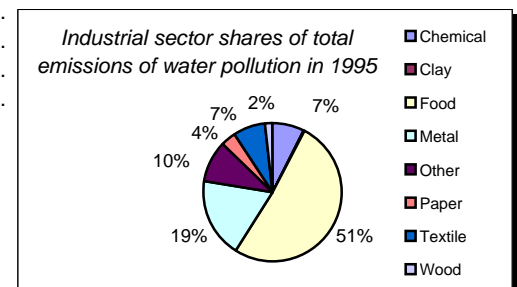
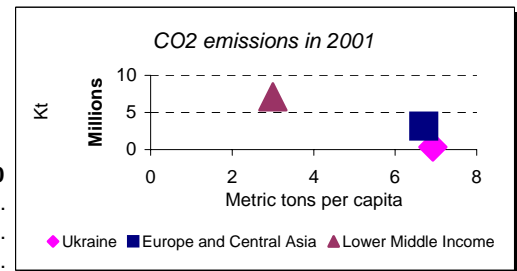
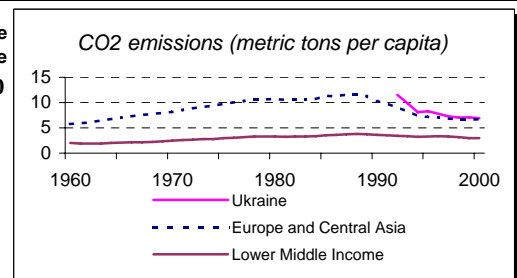
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	1995	2001	2001	2001
Electricity production from hydroelectric sources (% of total)	5.1	7.0	16.9	23.5
Electricity production from natural gas sources (% of total)	21.3	17.4	31.4	19.7
Electricity production from nuclear sources (% of total)	36.4	44.1	16.0	6.9
Electricity production from oil sources (% of total)	4.3	4.0	4.3	6.7
Energy use (kt of oil equivalent)	165,520	141,580	1,273,000	2,929,400
Energy use (kg of oil equivalent per capita)	3,212	2,884	2,684	1,226
Energy production (kt of oil equivalent)	83,020	83,428	1,516,800	3,544,600
Combustible renewables and waste (% of total energy use)	0.2	0.2	2.3	11.9
GDP per unit of energy use (constant 1995 PPP \$ per kg of oil equivalent)	1.2	1.4	2.2	3.7
Private investment in energy (current US\$, millions)	..	160	1,120	8,522



EMISSIONS and POLLUTION	Ukraine		Europe and Central Asia	Lower Middle Income
	1995	2000	2000	2000
CO2 emissions (kt)	428,700	428,700	3,389,000	7,473,500
CO2 emissions (metric tons per capita)	8.3	6.9	6.7	3.0
CO2 emissions (kg per 1995 US\$ of GDP)	8.9	7.9	2.8	1.9
Organic water pollutant (BOD) emissions (kg per day)	551,830	..	..	..
Organic water pollutant (BOD) emissions (kg per day per worker)	0.2	..	..	..
Water pollution by industry (% of total BOD emissions)	1995	2000	2000	2000
Chemical	7.4
Clay	0.5
Food	51.0
Metal	18.6
Paper	3.8
Textile	7.3
Wood	1.8



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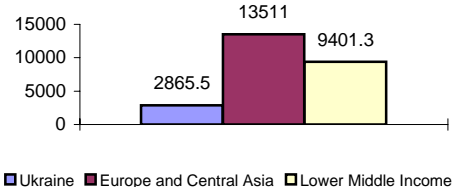
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WATER and SANITATION

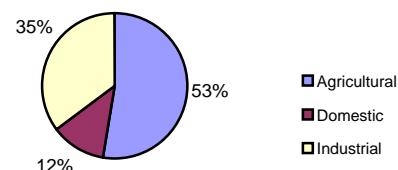
	Ukraine		Europe and Central Asia	Lower Middle Income
	1990	2002	2002	2002
Freshwater resources per capita (cubic meters)	..	2,866	13,511	9,401
Freshwater use (% of total water resources)	..	18.6	6.1	5.4
Note: Freshwater use (% of total water resources) number for the country is for 2000.				
	1990	2000	2000	2000
Agricultural water use (%)	..	52.0	..	..
Domestic water use (%)	..	12.0	..	..
Industrial water use (%)	..	35.0	..	..
Access to improved water source	1990	2000	2000	2000
% of population with access	..	98.0	90.9	81.3
% of rural population with access	..	94.0	82.6	69.9
% of urban population with access	..	100.0	95.6	94.8
Access to improved sanitation facilities	1990	2000	2000	2000
% of population with access	..	99.0	..	59.1
% of rural population with access	..	98.0	..	41.8
% of urban population with access	..	100.0	..	81.3
Mortality rate, under-5 (per 1,000)	22	21	38	42
Private investment in water and sanitation (current US\$, mil)	1,334	2,694

Fresh water resources per capita (cubic meters) in 2002



Countries with the renewable fresh water annual resources below a 1,700 m³ per capita threshold, will experience water stress, below 1,000 m³ per capita threshold will experience water scarcity, and below 500 m³ per capita threshold will experience absolute water scarcity.

Sector shares of fresh water withdrawals in 2000

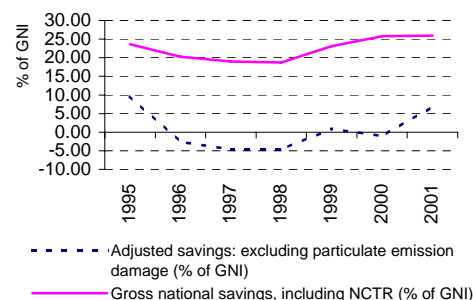


Note: Private investment in water and sanitation (current US\$) is for 1996 in the 1990 column.

NATIONAL ACCOUNTING AGGREGATES

	Ukraine		Europe and Central Asia	Lower Middle Income
	1995	2002	2002	2002
GDP (current US\$ billions)	48.2	41.5	1,132.8	3,426.3
GNI (current US\$ billions)	47.4	40.9	1,117.2	3,371.9
GNI per capita, Atlas method (current US\$)	920	780	2,160	1,400
Gross national savings, including NCTR (% of GNI)	23.6	28.0	23.6	27.0
Consumption of fixed capital (% of GNI)	9.7	9.9	10.5	9.9
Net national savings (% of GNI)	13.9	18.2	12.2	20.9
Education expenditure (% of GNI)	6.4	4.4	4.8	3.2
Energy depletion (% of GNI)	5.6	5.8	9.7	6.6
Mineral depletion (% of GNI)	0.0	0.0	0.1	0.3
Net forest depletion (% of GNI)	0.0	0.0	..	0.1
CO2 damage (% of GNI)	4.9	4.5	2.1	1.7
Particulate emission damage (% of GNI)	..	1.0	0.6	0.7
Adjusted net savings (% of GNI)	9.7	(0.5)	..	14.6

Savings



Adjusted net savings is a sustainability indicator that measures the true rate of savings in an economy after taking into account net national savings, investments in human capital, depletion of natural resources, and damage caused by pollution.

Note: for 1995, Adjusted net savings exclude particulate emissions damage.

Sources: WDI, FAO, FAO AQUASTAT, WRI, and IUCN.

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