

COUNTRY PROFILE

POLAND

CLIMATE: **LOW** CARBON: **MODERATE**

THE MONITOR ASSESSMENT

The Climate Vulnerability Monitor provides a comprehensive national-level assessment of vulnerabilities and impact specifically related to contemporary climate change and carbon intensiveness. This 2012 Monitor assessment was commissioned by the Climate Vulnerable Forum and has been independently developed by DARA. It is grounded in leading and up-to-date scientific studies, research and data assimilated on the basis of an externally reviewed methodology. The assessment spans 34 indicators of impact/vulnerability: 22 for climate change ("Climate") and 12 for carbon intensiveness ("Carbon"). Estimates in human, economic and environmental terms are for 2010 and 2030. Vulnerability at country-level and by indicator is comparative to the 184 countries included in the assessment.

→ For the full report, data & additional info: www.daraint.org/cvm2 - cvm@daraint.org - +34 915310372

ECONOMIC NATIONAL LOSS TOTALS: POLAND

ADDITIONAL ECONOMIC COSTS (NEGATIVE NUMBERS SHOW POSITIVE EFFECTS) - YEARLY AVERAGE

LOSSES PER YEAR
CLIMATE CHANGE IMPACT
 2010 **NIL**
 2030 **0.2%GDP**

LOSSES PER YEAR
CARBON INTENSIVENESS IMPACT
 2010 **0.3%GDP**
 2030 **0.3%GDP**

HUMAN NATIONAL LOSS TOTALS: POLAND

ADDITIONAL HUMAN IMPACTS (NEGATIVE NUMBERS SHOW POSITIVE EFFECTS) - YEARLY AVERAGE

ADDITIONAL MORTALITY-YEARLY AVERAGE
CLIMATE + CARBON COMBINED
 2010 **15,000**
 2030 **15,000**

ADDITIONAL PERSONS AFFECTED-YEARLY AVERAGE
CLIMATE
 2010 **200,000** 2030 **200,000**
CARBON
 2010 **150,000** 2030 **150,000**

FULL COUNTRY ASSESSMENT: POLAND

	VULNERABILITY LEVEL		ADDITIONAL ECONOMIC COSTS (MILLION USD PPP)		ADDITIONAL MORTALITY		ADDITIONAL AFFECTED POPULATION (1000s)		OTHER VALUE 1*		OTHER VALUE 2*	
	2010	2030	2010	2030	2010	2030	2010	2030	2010	2030	2010	2030
CLIMATE												
ENVIRONMENTAL DISASTERS												
DROUGHT	-	+	30	100								
FLOODS AND LANDSLIDES	-	-	85	600	1	1	5	4				
STORMS	-	-	1	10								
WILDFIRES	+	+										
TOTAL			116	710	1	1	5	4				
HABITAT CHANGE												
BIODIVERSITY	-	+	700	4,750					-2,500	-5,000	80	250
DESERTIFICATION	-	-										
HEATING AND COOLING	-	-	-1,250	-8,250					-6,750	-10,000	-7,000	-15,000
LABOUR PRODUCTIVITY	-	-	15	100					5	5		
PERMAFROST	-	-										
SEA-LEVEL RISE	-	-	200	850			0	0	15	35		
WATER	-	+	900	6,250					1	1		
TOTAL			565	3,700			0	0				
HEALTH IMPACT												
DIARRHEAL INFECTIONS	-	-			1	1	0					
HEAT AND COLD ILLNESSES	+	-			250	350						
HUNGER	-	-										
MALARIA AND VECTOR-BORNE	-	-										
MENINGITIS	-	-										
TOTAL					251	351	0	0				
INDUSTRY STRESS												
AGRICULTURE	-	-	90	500								
FISHERIES	-	-	25	200								
FORESTRY	-	-	-5	-40								
HYDRO ENERGY	-	-	5	20								
TOURISM	-	-	-10	-65								
TRANSPORT	-	-										
TOTAL			105	615								
CLIMATE TOTAL			786	5,025	251	350	5	4				
CARBON												
ENVIRONMENTAL DISASTERS												
OIL SANDS	-	-										
OIL SPILLS	-	-										
TOTAL			0	0								
HABITAT CHANGE												
BIODIVERSITY	-	-	400	2,750					80	200		
CORROSION	+	+	20	50								
WATER	+	+	200	650					6,500	5,750		
TOTAL			620	3450								
HEALTH IMPACT												
AIR POLLUTION	-	+			6,500	7,500	75	100				
INDOOR SMOKE	-	+			5,500	7,250	35	45				
OCCUPATIONAL HAZARDS	+	+			200	200	20	20				
SKIN CANCER	+	+			500	1,000	0	1				
TOTAL					12700	15950	130	166				
INDUSTRY STRESS												
AGRICULTURE	+	-	400	-150								
FISHERIES	-	-	1	10								
FORESTRY	-	-	150	350								
TOTAL			551	210								
CARBON TOTAL			1,171	3,660	12,700	15,950	130	166				

VULNERABILITY LEVELS:
 + Acute+ High+
 - Acute- High-
 + Severe+ Moderate
 - Severe- Low

+ = Upper tier of vulnerability level
 - = Lower tier of vulnerability level

CLIMATE = Impact/Vulnerability to Climate Change
CARBON = Impact/Vulnerability to Carbon Intensiveness

BIODIVERSITY OTHER VALUE 1: Contraction of biological zones (km²) (cumulative); OTHER VALUE 2: Decline in biological richness

DESERTIFICATION Additional land degraded (km²) (cumulative)

HEATING & COOLING Change in energy load (GWh)

LABOUR PRODUCTIVITY Share of workforce particularly affected (%)

SEA-LEVEL RISE Net loss of land (km²) (cumulative)

WATER Loss in water runoff 2030 (km³)

OIL SANDS Tonnes toxic waste ('000s)

OIL SPILLS Gallons oil spill ('000s)

BIODIVERSITY Decline in biological richness

WATER Volume of water to treat (millions m³)