

COUNTRY PROFILE

NORWAY

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: NORWAY

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

LOSSES PER YEAR

CLIMATE CHANGE IMPACT

2010 **NIL**
2030 **NIL**

LOSSES PER YEAR

CARBON INTENSIVENESS IMPACT

2010 **0.2%GDP**
2030 **0.4%GDP**

HUMAN NATIONAL LOSS TOTALS: NORWAY

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

ADDITIONAL MORTALITY-YEARLY AVERAGE

CLIMATE + CARBON COMBINED

2010 **800**
2030 **1,000**

ADDITIONAL PERSONS AFFECTED-YEARLY AVERAGE

CLIMATE

2010 **250,000** 2030 **300,000**

CARBON

2010 **25,000** 2030 **35,000**

FULL COUNTRY ASSESSMENT: NORWAY

	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	+	+	1	5								
FLOODS AND LANDSLIDES	+	+	1	5			0	1				
STORMS	+	+	1	5								
WILDFIRES	+	+										
TOTAL			3	15	0	0	0	1				
HABITAT CHANGE												
BIODIVERSITY	+	-	250	500					-500	-950	30	90
DESERTIFICATION	+	+	1	1			0	0	10	20		
HEATING AND COOLING	+	+	-350	-1,000					-2,250	-4,250	-35	-65
LABOUR PRODUCTIVITY	+	+	-200	-650					6	6		
PERMAFROST	+	+	100	200			20	40				
SEA-LEVEL RISE	+	+	500	1,250			0	0	25	75		
WATER	+	+	-1,250	-4,000					-1	-1		
TOTAL			-949	-3,699			20	40				
HEALTH IMPACT												
DIARRHEAL INFECTIONS	+	+			0	0	0	0				
HEAT AND COLD ILLNESSES	+	+			5	10						
HUNGER	+	+										
MALARIA AND VECTOR-BORNE	+	+										
MENINGITIS	+	+										
TOTAL					5	10	0	0				
INDUSTRY STRESS												
AGRICULTURE	+	+	-5	-15								
FISHERIES	+	+	-900	-2,750								
FORESTRY	+	+	-1	-5								
HYDRO ENERGY	+	+	35	-150								
TOURISM	+	+	1	15								
TRANSPORT	+	+										
TOTAL			-870	-2,905								
CLIMATE TOTAL			-1,816	-6,589	5	10	21	41				
CARBON												
ENVIRONMENTAL DISASTERS												
OIL SANDS	+	+										
OIL SPILLS	+	+	20	30					75	85		
TOTAL			20	30								
HABITAT CHANGE												
BIODIVERSITY	+	+	450	1,250					60	250		
CORROSION	+	+										
WATER	+	-	15	20					450	400		
TOTAL			465	1270								
HEALTH IMPACT												
AIR POLLUTION	+	+			500	600	15	25				
INDOOR SMOKE	+	+			150	200	1	2				
OCCUPATIONAL HAZARDS	+	+			55	55	8	8				
SKIN CANCER	+	+			100	200	0	1				
TOTAL					805	1055	25	36				
INDUSTRY STRESS												
AGRICULTURE	+	+	1	-20								
FISHERIES	+	+	15	40								
FORESTRY	+	+	10	25								
TOTAL			26	45								
CARBON TOTAL			511	1,345	805	1,055	25	36				

VULNERABILITY LEVELS:

Acute+ High+
Acute- High-
Severe+ Moderate
Severe- Low

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

Environmental disasters
Habitat change
Health impact
Industry stress

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

OTHER VALUE 1 OTHER VALUE 2

BIODIVERSITY Contraction of biological zones (km²) (cumulative) 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 (1000s)

OIL SPILLS Gallons oil spill (1000s)

BIODIVERSITY Decline in biological richness

WATER Volume of water to treat (millions m³)