

## COUNTRY PROFILE

# DENMARK

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](http://www.daraint.org/cvm2) - [cvm@daraint.org](mailto:cvm@daraint.org) - +34 915310372

### ECONOMIC NATIONAL LOSS TOTALS: DENMARK

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



### HUMAN NATIONAL LOSS TOTALS: DENMARK

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



### FULL COUNTRY ASSESSMENT: DENMARK

	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
<b>CLIMATE</b>												
<b>ENVIRONMENTAL DISASTERS</b>												
DROUGHT	-	+	10	25								
FLOODS AND LANDSLIDES				1			0	0				
STORMS			5	15			0	0				
WILDFIRES												
<b>TOTAL</b>			15	41	0	0	0	0				
<b>HABITAT CHANGE</b>												
BIODIVERSITY		+	150	400					-30	-60	90	300
DESERTIFICATION												
HEATING AND COOLING			-900	-2,500					-2,250	-4,000	-1,250	-2,500
LABOUR PRODUCTIVITY									6	6		
PERMAFROST												
SEA-LEVEL RISE			550	1,000			1	1	100	250		
WATER			-65	-200								
<b>TOTAL</b>			-265	-1,300			1	1				
<b>HEALTH IMPACT</b>												
DIARRHEAL INFECTIONS							0	0				
HEAT AND COLD ILLNESSES							15	30				
HUNGER												
MALARIA AND VECTOR-BORNE												
MENINGITIS												
<b>TOTAL</b>					15	30	0	0				
<b>INDUSTRY STRESS</b>												
AGRICULTURE			-25	-60								
FISHERIES			35	100								
FORESTRY												
HYDRO ENERGY												
TOURISM			-1	-1								
TRANSPORT												
<b>TOTAL</b>			10	39								
<b>CLIMATE TOTAL</b>			-241	-1,220	15	30	1	1				
<b>CARBON</b>												
<b>ENVIRONMENTAL DISASTERS</b>												
OIL SANDS												
OIL SPILLS												
<b>TOTAL</b>			0	0								
<b>HABITAT CHANGE</b>												
BIODIVERSITY			55	150					60	150		
CORROSION			1	1								
WATER			30	35					1,000	900		
<b>TOTAL</b>			86	186								
<b>HEALTH IMPACT</b>												
AIR POLLUTION		+			900	1,000	15	25				
INDOOR SMOKE					150	250	2	2				
OCCUPATIONAL HAZARDS		+			75	75	7	8				
SKIN CANCER		+			80	150	0	0				
<b>TOTAL</b>					1205	1475	25	36				
<b>INDUSTRY STRESS</b>												
AGRICULTURE		+	150	250								
FISHERIES			10	25								
FORESTRY				1								
<b>TOTAL</b>			160	276								
<b>CARBON TOTAL</b>			246	462	1,205	1,475	25	36				

**VULNERABILITY LEVELS:**

- Acute+ (Red +)
- Acute- (Red -)
- Severe+ (Orange +)
- Severe- (Orange -)
- High+ (Yellow +)
- High- (Yellow -)
- Moderate (Green)
- Low (Dark Green)

+ = 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

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