

## COUNTRY PROFILE

### ESTONIA

CLIMATE: **LOW** CARBON: **HIGH**

#### 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: ESTONIA

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



LOSSES PER YEAR

2010 **0.8%GDP**  
2030 **0.7%GDP**



LOSSES PER YEAR

2010 **0.6%GDP**  
2030 **1.0%GDP**

#### HUMAN NATIONAL LOSS TOTALS: ESTONIA

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



ADDITIONAL MORTALITY-YEARLY AVERAGE

2010 **250**  
2030 **300**



ADDITIONAL PERSONS AFFECTED-YEARLY AVERAGE

2010 **10,000** 2030 **10,000**  
2010 **4,500** 2030 **5,500**

#### FULL COUNTRY ASSESSMENT: ESTONIA

	VULNERABILITY LEVEL		ADDITIONAL ECONOMIC COSTS (MILLION USD PPP)		ADDITIONAL MORTALITY		ADDITIONAL POPULATION (1000s)		OTHER VALUE 1*		OTHER VALUE 2*	
	2010	2030	2010	2030	2010	2030	2010	2030	2010	2030	2010	2030
<b>ENVIRONMENTAL DISASTERS</b>												
DROUGHT	-	+	1	5								
FLOODS AND LANDSLIDES							0	0				
STORMS			1	1								
WILDFIRES												
<b>TOTAL</b>			1	6	0	0	0	0				
<b>HABITAT CHANGE</b>												
BIODIVERSITY	-	+	85	400					-150	-300	90	300
DESERTIFICATION												
HEATING AND COOLING			-40	-250					-150	-300	-150	-300
LABOUR PRODUCTIVITY			5	20					5	5		
PERMAFROST												
SEA-LEVEL RISE		+	250	1,250			0	0	60	200		
WATER			-100	-800					-0	-1		
<b>TOTAL</b>			200	620			0	0				
<b>HEALTH IMPACT</b>												
DIARRHEAL INFECTIONS					0	0	0	0				
HEAT AND COLD ILLNESSES	-	+			20	25						
HUNGER												
MALARIA AND VECTOR-BORNE												
MENINGITIS												
<b>TOTAL</b>					20	25	0	0				
<b>INDUSTRY STRESS</b>												
AGRICULTURE			5	20								
FISHERIES			15	90								
FORESTRY				-1								
HYDRO ENERGY												
TOURISM				-1								
TRANSPORT												
<b>TOTAL</b>			20	108								
<b>CLIMATE TOTAL</b>			221	734	20	25	0	0				
<b>ENVIRONMENTAL DISASTERS</b>												
OIL SANDS												
OIL SPILLS												
<b>TOTAL</b>			0	0								
<b>HABITAT CHANGE</b>												
BIODIVERSITY			35	250					45	200		
CORROSION												
WATER	-	+	5	15					200	200		
<b>TOTAL</b>			40	265								
<b>HEALTH IMPACT</b>												
AIR POLLUTION					1	1	0	1				
INDOOR SMOKE					200	200	2	2				
OCCUPATIONAL HAZARDS					5	5	1	1				
SKIN CANCER					20	35	0	0				
<b>TOTAL</b>					226	241	4	5				
<b>INDUSTRY STRESS</b>												
AGRICULTURE	+	+	40	250								
FISHERIES	+	+	35	250								
FORESTRY												
<b>TOTAL</b>			75	500								
<b>CARBON TOTAL</b>			115	765	226	241	4	5				

**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 (km²)
- 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)