

## COUNTRY PROFILE

### HUNGARY

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: HUNGARY

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

LOSSES PER YEAR

CLIMATE CHANGE IMPACT

2010 **NIL**

2030 **0.4%GDP**

LOSSES PER YEAR

CARBON INTENSIVENESS IMPACT

2010 **0.3%GDP**

2030 **0.4%GDP**

#### HUMAN NATIONAL LOSS TOTALS: HUNGARY

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

ADDITIONAL MORTALITY-YEARLY AVERAGE

CLIMATE + CARBON COMBINED

2010 **3,500**

2030 **4,500**

ADDITIONAL PERSONS AFFECTED-YEARLY AVERAGE

CLIMATE

2010 **2,500** 2030 **900**

CARBON

2010 **40,000** 2030 **45,000**

#### FULL COUNTRY ASSESSMENT: HUNGARY

	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	-	-	15	90								
FLOODS AND LANDSLIDES			10	65			1	0				
STORMS				1								
WILDFIRES												
<b>TOTAL</b>			25	156	0	0	1	0				
<b>HABITAT CHANGE</b>												
BIODIVERSITY		-	150	950					-750	-1,500	90	250
DESERTIFICATION												
HEATING AND COOLING			-350	-2,250					-1,500	-2,750	-750	-1,250
LABOUR PRODUCTIVITY			5	30					5	5		
PERMAFROST												
SEA-LEVEL RISE												
WATER	-	+	500	3,500					1	1		
<b>TOTAL</b>			305	2,230			0	0				
<b>HEALTH IMPACT</b>												
DIARRHEAL INFECTIONS					0	0	0	0				
HEAT AND COLD ILLNESSES					100	200						
HUNGER												
MALARIA AND VECTOR-BORNE												
MENINGITIS												
<b>TOTAL</b>					100	200	0	0				
<b>INDUSTRY STRESS</b>												
AGRICULTURE			30	150								
FISHERIES			1	15								
FORESTRY			-1	-10								
HYDRO ENERGY												
TOURISM			-1	5								
TRANSPORT	-	+	1	25								
<b>TOTAL</b>			30	184								
<b>CLIMATE TOTAL</b>			360	2,570	100	200	1	0				
<b>CARBON</b>												
<b>ENVIRONMENTAL DISASTERS</b>												
OIL SANDS												
OIL SPILLS												
<b>TOTAL</b>			0	0								
<b>HABITAT CHANGE</b>												
BIODIVERSITY			95	650					85	200		
CORROSION			5	15								
WATER			35	100					1,250	1,000		
<b>TOTAL</b>			135	765								
<b>HEALTH IMPACT</b>												
AIR POLLUTION		-			2,250	2,250	25	30				
INDOOR SMOKE					1,250	1,500	8	9				
OCCUPATIONAL HAZARDS					80	85	6	6				
SKIN CANCER					150	250	0	0				
<b>TOTAL</b>					3730	4085	39	46				
<b>INDUSTRY STRESS</b>												
AGRICULTURE			300	1,250								
FISHERIES			1	1								
FORESTRY			1	5								
<b>TOTAL</b>			301.25	1255.75								
<b>CARBON TOTAL</b>			436	2,020	3,730	4,085	39	46				

**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 (km <sup>2</sup> ) (cumulative)	Decline in biological richness
DESERTIFICATION	Additional land degraded (km <sup>2</sup> ) (cumulative)	
HEATING & COOLING	Change in energy load (GWh)	
LABOUR PRODUCTIVITY	Share of workforce particularly affected (%)	
SEA-LEVEL RISE	Net loss of land (km <sup>2</sup> ) (cumulative)	
WATER	Loss in water runoff 2030 (km <sup>3</sup> )	
OIL SANDS	Tonnes toxic waste ('000s)	
OIL SPILLS	Gallons oil spill ('000s)	
BIODIVERSITY	Decline in biological richness	
WATER	Volume of water to treat (millions m <sup>3</sup> )	