

## COUNTRY PROFILE

# CZECH REPUBLIC

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: CZECH REPUBLIC

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



### HUMAN NATIONAL LOSS TOTALS: CZECH REPUBLIC

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



### FULL COUNTRY ASSESSMENT: CZECH REPUBLIC

	VULNERABILITY LEVEL		ADDITIONAL ECONOMIC COSTS (MILLION USD PPP)		ADDITIONAL MORTALITY		ADDITIONAL POPULATION AFFECTED (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	40								
FLOODS AND LANDSLIDES	-	-	55	350			1	1				
STORMS			1	5			0	1				
WILDFIRES												
<b>TOTAL</b>			66	395	0	0	2	2				
<b>HABITAT CHANGE</b>												
BIODIVERSITY	-	+	250	1,750					-750	-1,500	90	250
DESERTIFICATION												
HEATING AND COOLING			-700	-4,250					-3,500	-6,500	-2,500	-4,750
LABOUR PRODUCTIVITY			5	40					5	5		
PERMAFROST												
SEA-LEVEL RISE												
WATER	-	+	1,250	9,000					1	1		
<b>TOTAL</b>			805	6,540			0	0				
<b>HEALTH IMPACT</b>												
DIARRHEAL INFECTIONS					0	0	0	0				
HEAT AND COLD ILLNESSES		+			30	70						
HUNGER												
MALARIA AND VECTOR-BORNE												
MENINGITIS												
<b>TOTAL</b>					30	70	0	0				
<b>INDUSTRY STRESS</b>												
AGRICULTURE			25	100								
FISHERIES			1	10								
FORESTRY												
HYDRO ENERGY				5								
TOURISM			5	70								
TRANSPORT												
<b>TOTAL</b>			31	185								
<b>CLIMATE TOTAL</b>			902	7,120	30	70	2	2				
<b>CARBON</b>												
<b>ENVIRONMENTAL DISASTERS</b>												
OIL SANDS												
OIL SPILLS												
<b>TOTAL</b>			0	0								
<b>HABITAT CHANGE</b>												
BIODIVERSITY			100	800					70	150		
CORROSION	-	+	5	10								
WATER	+	+	90	250					2,250	2,000		
<b>TOTAL</b>			195	1060								
<b>HEALTH IMPACT</b>												
AIR POLLUTION	-	-			1,500	1,750	15	20				
INDOOR SMOKE					500	650	3	4				
OCCUPATIONAL HAZARDS	+	+			100	100	6	6				
SKIN CANCER	+	+			150	250	0	0				
<b>TOTAL</b>					2,250	2,750	24	31				
<b>INDUSTRY STRESS</b>												
AGRICULTURE	+		100	65								
FISHERIES												
FORESTRY												
<b>TOTAL</b>			100	65								
<b>CARBON TOTAL</b>			295	1,125	2,250	2,750	24	31				

**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

	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> )	