

## COUNTRY PROFILE

### GREECE

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: GREECE

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

LOSSES PER YEAR  
**CLIMATE CHANGE IMPACT**  
 2010 **0.6%GDP**  
 2030 **1.1%GDP**

LOSSES PER YEAR  
**CARBON INTENSIVENESS IMPACT**  
 2010 **NIL**  
 2030 **0.2%GDP**

#### HUMAN NATIONAL LOSS TOTALS: GREECE

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

ADDITIONAL MORTALITY-YEARLY AVERAGE  
**CLIMATE + CARBON COMBINED**  
 2010 **4,500**  
 2030 **5,000**

ADDITIONAL PERSONS AFFECTED-YEARLY AVERAGE  
**CLIMATE**  
 2010 **400,000** 2030 **600,000**  
**CARBON**  
 2010 **50,000** 2030 **60,000**

#### FULL COUNTRY ASSESSMENT: GREECE

	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	+	+	35	95			2	3				
FLOODS AND LANDSLIDES			10	30	1	1						
STORMS			1	5								
WILDFIRES	-	-										
<b>TOTAL</b>			46	130	1	1	2	3				
<b>HABITAT CHANGE</b>												
BIODIVERSITY	-	+	400	1,250					-3,750	-7,250	80	250
DESERTIFICATION	+	+	100	350			100	250	1,500	2,750		
HEATING AND COOLING			-25	-45					-250	-250	-200	-200
LABOUR PRODUCTIVITY									5	5		
PERMAFROST												
SEA-LEVEL RISE			250	500			0	0	30	50		
WATER	-	+	900	2,750					1	1		
<b>TOTAL</b>			1,625	4,805			100	250				
<b>HEALTH IMPACT</b>												
DIARRHEAL INFECTIONS					0	0	0	0				
HEAT AND COLD ILLNESSES	+	+			150	200						
HUNGER												
MALARIA AND VECTOR-BORNE												
MENINGITIS												
<b>TOTAL</b>					150	200	0	0				
<b>INDUSTRY STRESS</b>												
AGRICULTURE			200	450								
FISHERIES			10	25								
FORESTRY			10	25								
HYDRO ENERGY			1	20								
TOURISM												
TRANSPORT												
<b>TOTAL</b>			221	520								
<b>CLIMATE TOTAL</b>			1,892	5,455	150	200	102	253				
<b>CARBON</b>												
<b>ENVIRONMENTAL DISASTERS</b>												
OIL SANDS												
OIL SPILLS												
<b>TOTAL</b>			0	0								
<b>HABITAT CHANGE</b>												
BIODIVERSITY			350	1,000					70	200		
CORROSION	-	-	1	1								
WATER			10	15					350	300		
<b>TOTAL</b>			361	1016								
<b>HEALTH IMPACT</b>												
AIR POLLUTION	+	+			3,500	4,000	40	45				
INDOOR SMOKE					450	600	5	6				
OCCUPATIONAL HAZARDS	-	-			90	90	5	5				
SKIN CANCER	+	+			100	200	0	1				
<b>TOTAL</b>					4140	4890	51	58				
<b>INDUSTRY STRESS</b>												
AGRICULTURE			-55	-400								
FISHERIES			5	15								
FORESTRY			35	40								
<b>TOTAL</b>			-15	-345								
<b>CARBON TOTAL</b>			346	671	4,140	4,890	51	58				

**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> )	