

## COUNTRY PROFILE

### TIMOR-LESTE

CLIMATE: **ACUTE** 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: TIMOR-LESTE

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

LOSSES PER YEAR

CLIMATE CHANGE IMPACT

2010 **8.7%<sub>GDP</sub>**

2030 **15.9%<sub>GDP</sub>**

LOSSES PER YEAR

CARBON INTENSIVENESS IMPACT

2010 **5.8%<sub>GDP</sub>**

2030 **11.0%<sub>GDP</sub>**

#### HUMAN NATIONAL LOSS TOTALS: TIMOR-LESTE

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

ADDITIONAL MORTALITY-YEARLY AVERAGE

CLIMATE + CARBON COMBINED

2010 **250**

2030 **250**

ADDITIONAL PERSONS AFFECTED-YEARLY AVERAGE

CLIMATE

2010 **100,000** 2030 **150,000**

CARBON

2010 **2,000** 2030 **4,000**

#### FULL COUNTRY ASSESSMENT: TIMOR-LESTE

	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>ENVIRONMENTAL DISASTERS</b>												
DROUGHT	-	-		1								
FLOODS AND LANDSLIDES	+	+			1	1	25	25				
STORMS	+	+										
WILDFIRES	+	+										
<b>TOTAL</b>			0	1	1	1	25	25				
<b>HABITAT CHANGE</b>												
BIODIVERSITY	-	+	10	85					-1,500	-3,250	150	500
DESERTIFICATION	+	+	25	200			50	100	650	1,250		
HEATING AND COOLING	-	-	1	10					5	20		
LABOUR PRODUCTIVITY	-	+	90	750					35	27		
PERMAFROST												
SEA-LEVEL RISE	-	+	95	600			0		1			
WATER	-	-	-5	-35								
<b>TOTAL</b>			216	1,610			50	100				
<b>HEALTH IMPACT</b>												
DIARRHEAL INFECTIONS	+	+			0	0	0	0				
HEAT AND COLD ILLNESSES	+	+										
HUNGER	+	-			35	50	0	0				
MALARIA AND VECTOR-BORNE	+	+										
MENINGITIS	-	-			5	5	0	0				
<b>TOTAL</b>					40	55	0	0				
<b>INDUSTRY STRESS</b>												
AGRICULTURE	+	-	10	80								
FISHERIES	+	+		5								
FORESTRY	+	+	20	250								
HYDRO ENERGY	+	+										
TOURISM	+	+	5	65								
TRANSPORT	+	+										
<b>TOTAL</b>			35	400								
<b>CLIMATE TOTAL</b>			250	2,010	41	56	75	125				
<b>ENVIRONMENTAL DISASTERS</b>												
OIL SANDS												
OIL SPILLS												
<b>TOTAL</b>			0	0								
<b>HABITAT CHANGE</b>												
BIODIVERSITY	+	+	150	1,500					2,750	5,000		
CORROSION	+	+										
WATER	+	+										
<b>TOTAL</b>			150	1500								
<b>HEALTH IMPACT</b>												
AIR POLLUTION	-	-			1	5	0	2				
INDOOR SMOKE	-	-			200	200	0	0				
OCCUPATIONAL HAZARDS	-	-			1	5	0	0				
SKIN CANCER	-	-			1	1	0	0				
<b>TOTAL</b>					202.75	211	1	3				
<b>INDUSTRY STRESS</b>												
AGRICULTURE	+	+		-35								
FISHERIES	+	+										
FORESTRY	+	+	1	10								
<b>TOTAL</b>			1	-25								
<b>CARBON TOTAL</b>			151	1,475	202	211	1	3				

**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> )	