

COUNTRY PROFILE

BAHRAIN

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

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 - cvm@daraint.org - +34 915310372

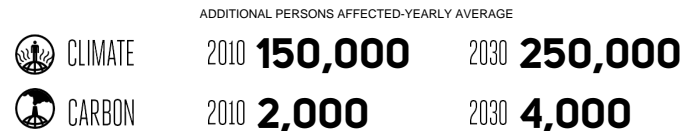
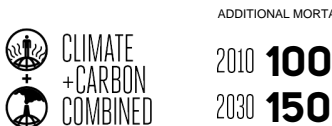
ECONOMIC NATIONAL LOSS TOTALS: BAHRAIN

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



HUMAN NATIONAL LOSS TOTALS: BAHRAIN

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



FULL COUNTRY ASSESSMENT: BAHRAIN

	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
ENVIRONMENTAL DISASTERS												
DROUGHT	-	-	1	5								
FLOODS AND LANDSLIDES							0	0				
STORMS			-5	-35								
WILDFIRES												
TOTAL			-4	-30	0	0	0	0				
HABITAT CHANGE												
BIODIVERSITY												
DESERTIFICATION			5	25								
HEATING AND COOLING			15	200					100	400	60	250
LABOUR PRODUCTIVITY			10	60					31	21		
PERMAFROST												
SEA-LEVEL RISE			35	95			0	0			1	
WATER			-1	-5								
TOTAL			65	375			0	0				
HEALTH IMPACT												
DIARRHEAL INFECTIONS					0	0	0	0				
HEAT AND COLD ILLNESSES					1	1						
HUNGER					1	1	0	0				
MALARIA AND VECTOR-BORNE												
MENINGITIS					1	1	0	0				
TOTAL					3	3	0	0				
INDUSTRY STRESS												
AGRICULTURE			25	200								
FISHERIES			20	200								
FORESTRY												
HYDRO ENERGY												
TOURISM			15	150								
TRANSPORT												
TOTAL			60	550								
CLIMATE TOTAL			120	896	2	2	0	1				
ENVIRONMENTAL DISASTERS												
OIL SANDS												
OIL SPILLS												
TOTAL			0	0								
HABITAT CHANGE												
BIODIVERSITY												
CORROSION												
WATER												
TOTAL			0	0								
HEALTH IMPACT												
AIR POLLUTION					75	100	1	3				
INDOOR SMOKE					20	25	0	0				
OCCUPATIONAL HAZARDS					1	1	0	0				
SKIN CANCER							1	0				
TOTAL					95.75	126.5	2	4				
INDUSTRY STRESS												
AGRICULTURE			-1	-75								
FISHERIES			1	10								
FORESTRY												
TOTAL			0	-65								
CARBON TOTAL			0	-65	95	126	2	4				

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 ²) (cumulative)	Decline in biological richness
DESERTIFICATION	Additional land degraded (km ²) (cumulative)	
HEATING & COOLING	Change in energy load (GWh)	
LABOUR PRODUCTIVITY	Share of workforce particularly affected (%)	
SEA-LEVEL RISE	Net loss of land (km ²) (cumulative)	
WATER	Loss in water runoff 2030 (km ³)	
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 ³)	