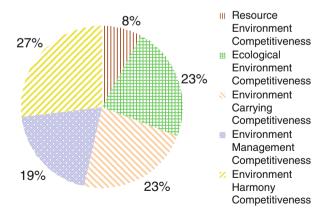
## **Chapter 48 Report on Global Environment Competitiveness of Ecuador**

Ecuador a representative democratic republic in South America, bordered by Colombia on the north, Peru on the east and south, and by the Pacific Ocean to the west. It is one of only two countries in South America, along with Chile, that do not have a border with Brazil. It covers 248.4 thousand of square kilometers and has a population of 14.67 million. Its GDP reaches \$65.95 billion in 2011. Through the index system and evaluation model, the environment competitiveness index of Ecuador ranks at 11 in 133 countries.

Score: 55.89 Rank: 11



**Fig. 48.1** Contribution of sub-index to GEC.

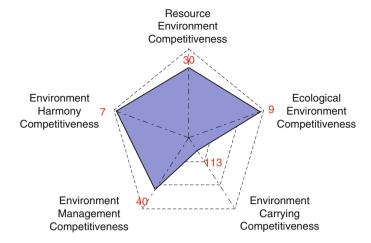


Fig. 48.2 Rank of sub-index of GEC

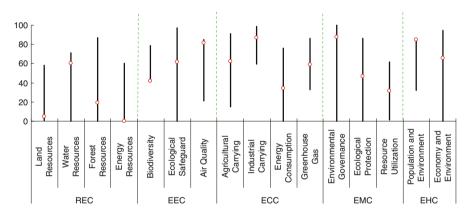


Fig. 48.3 Score and rank of the pillars of GEC

Table 48.1 Score and rank of all indicators of GEC

Indicators	Score	Rank	Indicators	Score	Rank
1 Resource Environment	22.78	30	Groundwater	70.61	5
Competitiveness			Total internal renewable	81.02	4
1.1 Land Resources	4.49	123	water resources		·
Land area per capita	2.82	54	1.3 Forest Resources	19.09	104
Percentage of arable land to total land area	7.60	106	Growing stock in forest and other wooded land	N/A	N/A
Arable land per capita	3.61	106	Proportion of land area	44.30	39
1.2 Water Resources	60.20	9	covered by forest		
Surface water	18.59	9	Forest area per capita	4.56	38
Annual precipitation	70.57	9	1.4 Energy Resources	0.00	125

(continued)

Table 48.1 (continued)

Indicators	Score	Rank	Indicators	Score	Rank
Fossil energy	1.20	31	Energy consumption per	99.90	44
Energy production	1.83	38	unit of land area		
Proportion of combustible renewable and waste to	5.72	75	Ratio of clean energy consumption	11.59	47
total energy consumption			Elasticity of energy	13.60	89
Net energy imports of the	27.74	20	consumption	12.20	20
energy consumption	(2.60	0	Elasticity of electric power consumption	12.38	29
2 Ecological Environment Competitiveness	63.60	9	3.4 Greenhouse Gas	58.94	90
2.1 Biodiversity	41.79	133	Growth rate of CO <sub>2</sub>	53.77	56
Threatened fish species	75.00	106	emissions	00.,,	
Threatened mammal species	75.54	120	Growth rate of Methane	54.12	91
Threatened plant species	0.00	133	emissions		
GEF benefits index for biodiversity	29.20	13	CO <sub>2</sub> emissions per unit of land area	99.86	57
2.2 Ecological Safeguard	61.79	11	CO <sub>2</sub> emissions per unit of	32.18	96
Terrestrial protected areas	67.39	14	energy consumption		
Marine protected areas	53.39	1	4 Environment Management	54.41	40
2.3 Air Quality	81.32	17	Competitiveness	07.00	70
Inhalable particles (PM10)	86.13	36	4.1 Environmental Governance	87.88	70
Particulate matter (PM2.5)	88.91	39	Agricultural chemicals	80.95	52
Index of indoor air pollution	100.00	1	regulation	60.93	32
Nitrogen oxides emission	68.03	58	Percentage of the rural	89.00	64
Sulfur dioxide emission	40.71	61	population with access	0,.00	٠.
3 Environment Carrying Competitiveness	63.37	113	to an improved water source		
3.1 Agricultural Carrying	62.13	102	Percentage of the urban	96.00	88
Cereal yield per unit of arable land	30.88	62	population with access to an improved water		
Fertilizer consumption per	84.67	100	source		
unit of arable land Annual freshwater	81.24	120	4.2 Ecological Protection	46.65	20
withdrawals for	01.24	120	Area of plantation and	0.19	75
agriculture per unit of			afforestation Biome protect	91.10	22
arable land			Overfishing of fishing	64.15	26
3.2 Industrial Carrying	86.90	103	resources	04.13	20
Net exports of goods as a	78.52	79	4.3 Resource Utilization	31.27	88
percentage of GDP			Utilization rate of water	0.13	85
Electric power consumption	81.80	109	resources		
per unit of value added			Percentage of total internal	76.18	46
of industry	01.20	120	renewable water		
SO <sub>2</sub> emissions per unit of value added of industry	91.30	129	resources to total water		
Annual freshwater	95.97	82	resources	25.46	07
withdrawals for industry	73.71	02	Percentage of agricultural land to total land area	35.46	97
per value added of			Percentage of fossil fuel	13 22	86
industry			energy consumption to	13.32	οU
3.3 Energy Consumption	34.37	55	total energy consumption		
			2 2 2 2 2 2 2 3 2 3 2 2 2 2 2 2 2 2 2 2	(con	tinued)

(continued)

<b>Table 48.1</b>	(continued)
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Indicators	Score	Rank	Indicators	Score	Rank
5 Environment Harmony	75.31	7	CO <sub>2</sub> emissions per capita	94.17	56
Competitiveness			Energy consumption per	94.48	44
5.1 Population and	84.78	1	capita		
Environment			5.2 Economy and	65.83	60
Percentage of population	92.00	56	Environment		
with access to Improved sanitation facilities			Land resource utilization efficiency	0.07	82
Motor vehicles per 1,000 people	92.47	42	Sulfur dioxide emissions per unit of GDP	94.81	65
Renewable internal freshwater resources per	33.34	12	Carbon dioxide emissions per unit of GDP	81.42	88
capita			Energy consumption per	87.04	56
SO <sub>2</sub> emissions per capita	97.25	50	unit of GDP		

Table 48.2 Rank distribution of the individual indicators of GEC

	Number of the					
Sub-index	individual indicators	Rank 1–10	Rank 11–30	Rank 31–60	Rank 61–100	Rank 101–133
Resource Environment Competitiveness	14	4	0	4	1	4
Ecological Environment Competitiveness	11	1	3	3	0	4
Environment Carrying Competitiveness	15	0	0	5	6	4
Environment Management Competitiveness	10	0	2	2	6	0
Environment Harmony Competitiveness	10	1	1	5	3	0
Total	60	6	6	19	16	12

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