

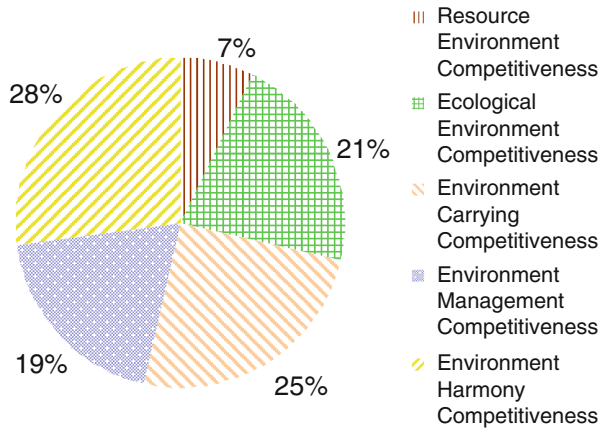
# Chapter 36

## Report on Global Environment

### Competitiveness of Chile

Chile is a country in South America occupying a long, narrow strip of land between the Andes mountains to the east and the Pacific Ocean to the west. It borders Peru to the north, Bolivia to the northeast, Argentina to the east, and the Drake Passage in the far south. It covers 743.5 thousand of square kilometers and has a population of 17.27 million. Its GDP reaches \$248.59 billion in 2011. Through the index system and evaluation model, the environment competitiveness index of Chile ranks at 24 in 133 countries.

<b>Score:</b>
<b>54.25</b>
<b>Rank:</b>
<b>24</b>



**Fig. 36.1** Contribution of sub-index to GEC

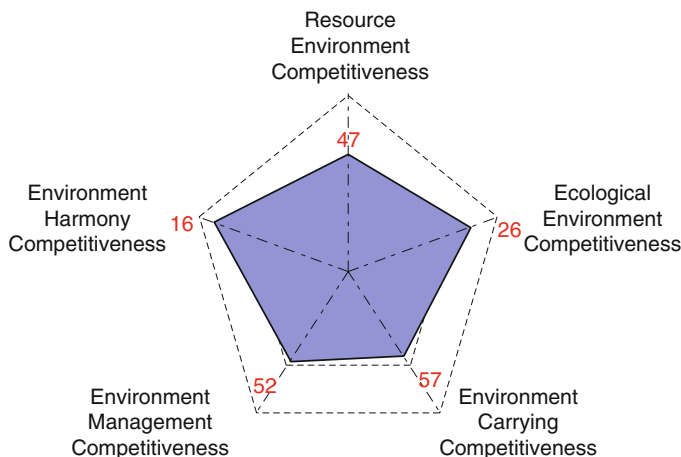


Fig. 36.2 Rank of sub-index of GEC

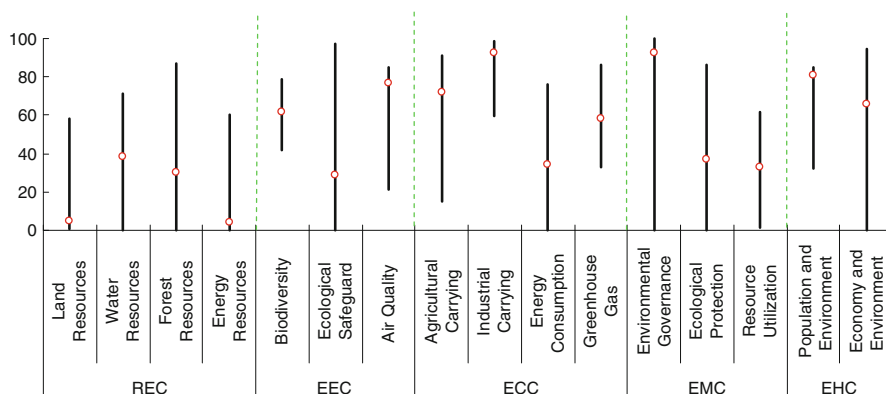


Fig. 36.3 Score and rank of the pillars of GEC

Table 36.1 Score and rank of all indicators of GEC

Indicators	Score	Rank	Indicators	Score	Rank
1 Resource Environment Competitiveness	19.70	47	Groundwater	27.09	30
1.1 Land Resources	5.02	121	Total internal renewable water resources	59.96	13
Land area per capita	7.74	30	1.3 Forest Resources	29.95	66
Percentage of arable land to total land area	2.84	120	Growing stock in forest and other wooded land	59.08	17
Arable land per capita	3.57	108	Proportion of land area covered by forest	25.63	75
1.2 Water Resources	38.23	24	Forest area per capita	6.57	27
Surface water	13.38	21	1.4 Energy Resources	4.14	78
Annual precipitation	52.49	32			

(continued)

**Table 36.1** (continued)

Indicators	Score	Rank	Indicators	Score	Rank
Fossil energy	0.00	64	Energy consumption per unit of land area	99.92	40
Energy production	0.54	77	Ratio of clean energy consumption	12.94	43
Proportion of combustible renewable and waste to total energy consumption	16.99	48	Elasticity of energy consumption	13.92	66
Net energy imports of the energy consumption	3.67	105	Elasticity of electric power consumption	11.30	43
<b>2 Ecological Environment Competitiveness</b>	<b>57.72</b>	<b>26</b>	3.4 Greenhouse Gas	58.31	95
2.1 Biodiversity	61.66	14	Growth rate of CO <sub>2</sub> emissions	45.53	89
threatened fish species	90.57	53	Growth rate of Methane emissions	61.05	46
threatened mammal species	89.13	99	CO <sub>2</sub> emissions per unit of land area	99.90	49
threatened plant species	98.02	89	CO <sub>2</sub> emissions per unit of energy consumption	39.55	74
GEF benefits index for biodiversity	15.30	21	<b>4 Environment Management Competitiveness</b>	<b>52.33</b>	<b>52</b>
2.2 Ecological Safeguard	28.81	50	4.1 Environmental Governance	92.20	57
Terrestrial protected areas	44.84	38	Agricultural chemicals regulation	100.00	1
Marine protected areas	4.78	42	Percentage of the rural population with access to an improved water source	75.00	85
2.3 Air Quality	76.43	39	Percentage of the urban population with access to an improved water source	99.00	51
Inhalable particles (PM10)	66.42	94	4.2 Ecological Protection	36.81	54
Particulate matter (PM2.5)	87.25	51	Area of plantation and afforestation	3.09	19
Index of indoor air pollution	100.00	1	Biome protect	59.90	66
Nitrogen oxides emission	67.27	82	Overfishing of fishing resources	58.67	38
Sulfur dioxide emission	37.37	112	4.3 Resource Utilization	33.17	81
<b>3 Environment Carrying Competitiveness</b>	<b>67.94</b>	<b>57</b>	Utilization rate of water resources	0.05	111
3.1 Agricultural Carrying	71.89	37	Percentage of total internal renewable water resources to total water resources	83.24	29
Cereal yield per unit of arable land	72.81	9	Percentage of agricultural land to total land area	25.03	111
Fertilizer consumption per unit of arable land	51.80	125	Percentage of fossil fuel energy consumption to total energy consumption	24.37	67
Annual freshwater withdrawals for agriculture per unit of arable land	90.76	109			
3.2 Industrial Carrying	92.68	50			
Net exports of goods as a percentage of GDP	79.28	75			
Electric power consumption per unit of value added of industry	95.06	34			
SO <sub>2</sub> emissions per unit of value added of industry	99.57	99			
Annual freshwater withdrawals for industry per value added of industry	96.82	73			
3.3 Energy Consumption	34.52	53			

(continued)

**Table 36.1** (continued)

Indicators	Score	Rank	Indicators	Score	Rank
5 Environment Harmony Competitiveness	73.56	16	CO <sub>2</sub> emissions per capita	89.05	77
5.1 Population and Environment	81.11	11	Energy consumption per capita	86.85	72
Percentage of population with access to improved sanitation facilities	96.00	42	5.2 Economy and Environment	66.02	59
Motor vehicles per 1,000 people	78.77	80	Land resource utilization efficiency	0.10	68
Renewable internal freshwater resources per capita	61.94	7	Sulfur dioxide emissions per unit of GDP	81.93	108
SO <sub>2</sub> emissions per capita	69.90	122	Carbon dioxide emissions per unit of GDP	89.71	57
			Energy consumption per unit of GDP	92.33	29

**Table 36.2** Rank distribution of the individual indicators of GEC

Sub-index	Number of the individual indicators	Rank	Rank	Rank	Rank	Rank
		1–10	11–30	31–60	61–100	101–133
Resource Environment Competitiveness	14	0	5	2	5	2
Ecological Environment Competitiveness	11	1	1	5	4	0
Environment Carrying Competitiveness	15	1	0	8	5	1
Environment Management Competitiveness	10	1	2	2	3	2
Environment Harmony Competitiveness	10	1	1	3	3	2
Total	60	4	9	20	20	7

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