

Chapter 49

Report on Global Environment

Competitiveness of Egypt

Egypt is a country situated mainly within North Africa, with its Sinai Peninsula forming a land bridge in Southwest Asia, making it a transcontinental state. It is bordered by the Mediterranean Sea to the north, the Gaza Strip and Israel to the northeast, the Red Sea to the east, Sudan to the south and Libya to the west. It covers 995.5 thousand of square kilometers and has a population of 82.54 million. Its GDP reaches \$229.53 billion in 2011. Through the index system and evaluation model, the environment competitiveness index of Egypt ranks at 107 in 133 countries.

Score: 46.11
Rank: 107

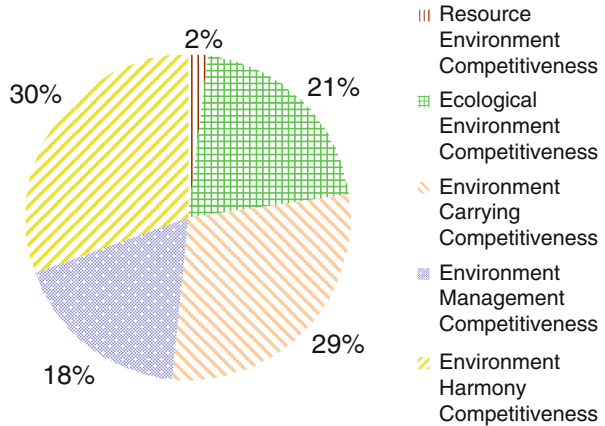


Fig. 49.1 Contribution of sub-index to GEC

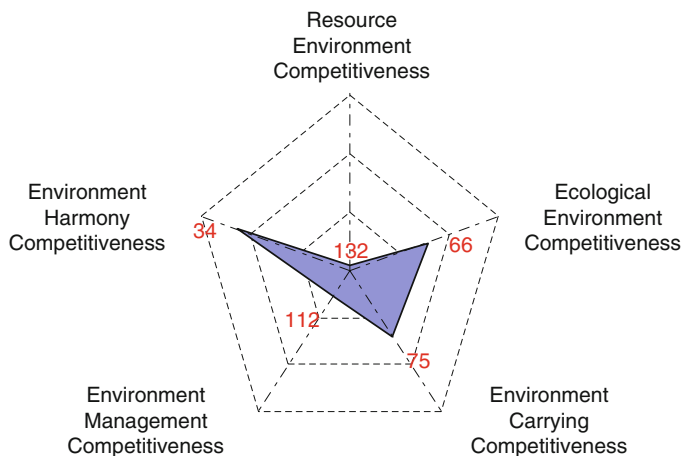


Fig. 49.2 Rank of sub-index of GEC

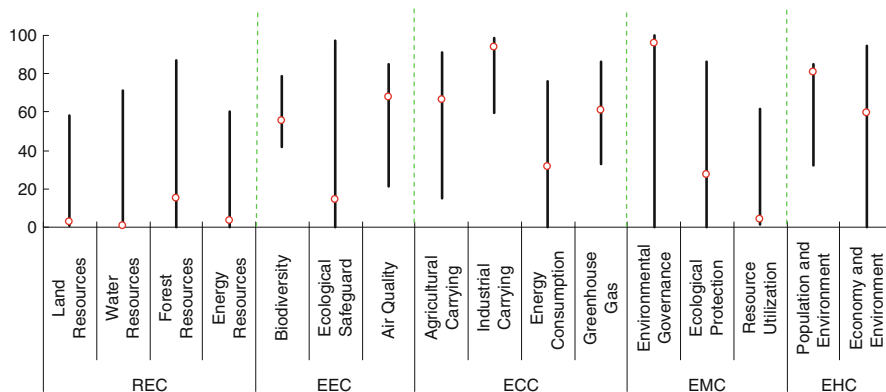


Fig. 49.3 Score and rank of the pillars of GEC

Table 49.1 Score and rank of all indicators of GEC

Indicators	Score	Rank	Indicators	Score	Rank
1 Resource Environment Competitiveness	4.73	132	Groundwater	0.15	122
1.1 Land Resources	2.77	128	Total internal renewable water resources	0.09	128
Land area per capita	2.15	75	1.3 Forest Resources	15.04	124
Percentage of arable land to total land area	4.73	113	Growing stock in forest and other wooded land	50.02	109
Arable land per capita	1.62	124	Proportion of land area covered by forest	0.08	129
1.2 Water Resources	0.72	130	Forest area per capita	0.01	129
Surface water	0.92	101	1.4 Energy Resources	3.19	95
Annual precipitation	1.74	130			

(continued)

Table 49.1 (continued)

Indicators	Score	Rank	Indicators	Score	Rank
Fossil energy	0.14	55	Annual freshwater withdrawals for industry per value added of industry	94.68	93
Energy production	1.10	59	3.3 Energy Consumption	31.83	89
Proportion of combustible renewable and waste to total energy consumption	2.29	97	Energy consumption per unit of land area	99.85	52
Net energy imports of the energy consumption	15.33	36	Ratio of clean energy consumption	2.85	84
2 Ecological Environment Competitiveness	48.07	66	Elasticity of energy consumption	13.97	61
2.1 Biodiversity	55.61	104	Elasticity of electric power consumption	10.65	70
Threatened fish species	81.60	90	3.4 Greenhouse Gas	61.30	68
Threatened mammal species	90.76	96	Growth rate of CO ₂ emissions	54.24	53
Threatened plant species	99.88	30	Growth rate of Methane emissions	63.56	30
GEF benefits index for biodiversity	2.90	64	CO ₂ emissions per unit of land area	99.80	66
2.2 Ecological Safeguard	14.34	87	CO ₂ emissions per unit of energy consumption	34.66	89
Terrestrial protected areas	15.76	91	4 Environment Management Competitiveness	41.02	112
Marine protected areas	12.22	26	4.1 Environmental Governance	95.89	38
2.3 Air Quality	67.72	49	Agricultural chemicals regulation	90.48	37
Inhalable particles (PM10)	43.07	121	Percentage of the rural population with access to an improved water source	99.00	30
Particulate matter (PM2.5)	67.32	114	Percentage of the urban population with access to an improved water source	100.00	1
Index of Indoor air pollution	100.00	1	4.2 Ecological Protection	27.59	87
Nitrogen oxides emission	64.95	99	Area of plantation and afforestation	0.09	87
Sulfur dioxide emission	39.34	98	Biome protect	34.70	91
3 Environment Carrying Competitiveness	66.59	75	Overfishing of fishing resources	57.14	40
3.1 Agricultural Carrying	66.23	67	4.3 Resource Utilization	4.07	132
Cereal yield per unit of arable land	69.63	11	Utilization rate of water resources	4.82	7
Fertilizer consumption per unit of arable land	59.32	124	Percentage of total internal renewable water resources to total water resources	2.10	126
Annual freshwater withdrawals for agriculture per unit of arable land	68.60	127			
3.2 Industrial Carrying	93.66	38			
Net exports of goods as a percentage of GDP	91.40	14			
Electric power consumption per unit of value added of industry	88.75	88			
SO ₂ emissions per unit of value added of industry	99.82	67			

(continued)

Table 49.1 (continued)

Indicators	Score	Rank	Indicators	Score	Rank
Percentage of agricultural land to total land area	4.38	131	Renewable internal freshwater resources per capita	0.03	131
Percentage of fossil fuel energy consumption to total energy consumption	4.96	109	SO ₂ emissions per capita	97.10	54
			CO ₂ emissions per capita	94.17	58
			Energy consumption per capita	93.98	47
5 Environment Harmony Competitiveness	70.15	34	5.2 Economy and Environment	59.71	91
5.1 Population and Environment	80.58	15	Land resource utilization efficiency	0.07	84
Percentage of population with access to improved sanitation facilities	94.00	52	Sulfur dioxide emissions per unit of GDP	91.86	80
			Carbon dioxide emissions per unit of GDP	69.99	109
Motor vehicles per 1,000 people	94.94	37	Energy consumption per unit of GDP	76.92	86

Table 49.2 Rank distribution of the individual indicators of GEC

Sub-index	Number of the individual indicators	Rank				
		1–10	11–30	31–60	61–100	101–133
Resource Environment Competitiveness	14	0	0	2	3	9
Ecological Environment Competitiveness	11	1	1	1	5	3
Environment Carrying Competitiveness	15	0	3	3	8	1
Environment Management Competitiveness	10	1	1	2	3	3
Environment Harmony Competitiveness	10	0	1	4	3	2
Total	60	2	6	12	22	18

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