

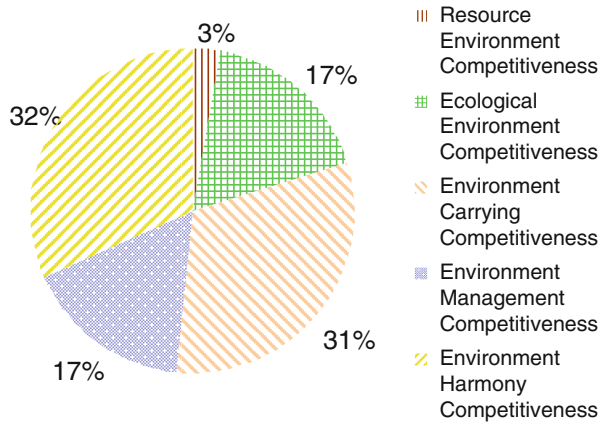
# Chapter 146

## Report on Global Environment

### Competitiveness of Yemen

Yemen, Rep is located on southwest end of Arabia Peninsula. It borders Saudi Arabia, Oman on the Red Sea, the Gulf of Aden adjacent, and the Arabia sea. It covers 528.0 thousand of square kilometers and has a population of 24.80 million. Its GDP reaches \$33.76 billion in 2011. Through the index system and evaluation model, the environment competitiveness index of Yemen ranks at 125 in 133 countries.

<b>Score:</b>
<b>41.60</b>
<b>Rank:</b>
<b>125</b>



**Fig. 146.1** Contribution of sub-index to GEC

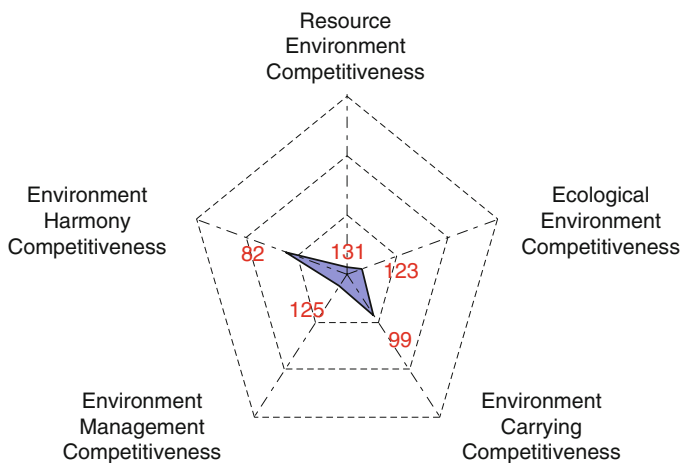


Fig. 146.2 Rank of sub-index of GEC

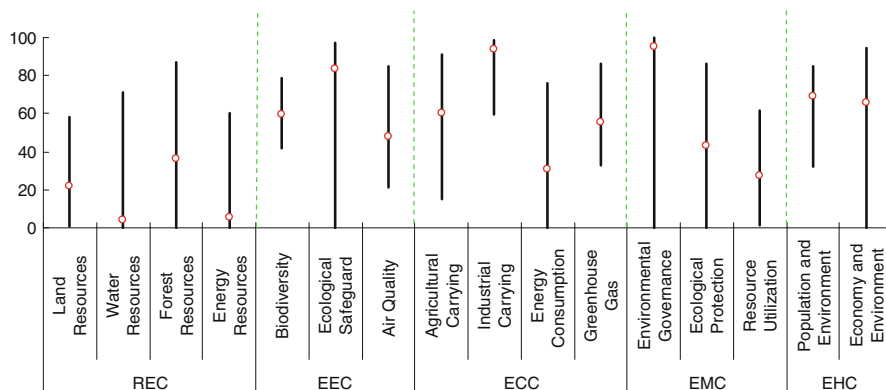


Fig. 146.3 Score and rank of the pillars of GEC

Table 146.1 Score and rank of all indicators of GEC

Indicators	Score	Rank	Indicators	Score	Rank
1 Resource Environment Competitiveness	6.02	131	Groundwater	0.37	118
1.1 Land Resources	3.25	126	Total internal renewable water resources	0.20	125
Land area per capita	3.81	46	1.3 Forest Resources	15.54	119
Percentage of arable land to total land area	3.56	116	Growing stock in forest and other wooded land	50.02	114
Arable land per capita	2.19	120	Proportion of land area covered by forest	1.22	122
1.2 Water Resources	1.57	121	Forest area per capita	0.15	120
Surface water	0.04	122	1.4 Energy Resources	5.97	62
Annual precipitation	5.66	120			

(continued)

**Table 146.1** (continued)

Indicators	Score	Rank	Indicators	Score	Rank
Fossil energy	0.24	48	Energy consumption per unit of land area	99.98	14
Energy production	0.83	66	Ratio of clean energy consumption	0.00	116
Proportion of combustible renewable and waste to total energy consumption	1.57	100	Elasticity of energy consumption	14.33	35
Net energy imports of the energy consumption	35.27	14	Elasticity of electric power consumption	9.67	99
<b>2 Ecological Environment Competitiveness</b>	<b>36.33</b>	<b>123</b>	3.4 Greenhouse Gas	58.12	97
2.1 Biodiversity	56.29	94	Growth rate of CO <sub>2</sub> emissions	60.11	37
Threatened fish species	89.15	62	Growth rate of Methane emissions	53.03	99
Threatened mammal species	95.11	49	CO <sub>2</sub> emissions per unit of land area	99.95	36
Threatened plant species	90.78	114	CO <sub>2</sub> emissions per unit of energy consumption	17.40	120
GEF benefits index for biodiversity	3.20	61	<b>4 Environment Management Competitiveness</b>	<b>34.81</b>	<b>125</b>
2.2 Ecological Safeguard	1.56	124	4.1 Environmental Governance	60.46	120
Terrestrial protected areas	1.09	124	Agricultural chemicals regulation	61.90	72
Marine protected areas	2.26	60	Percentage of the rural population with access to an improved water source	47.00	110
2.3 Air Quality	47.45	106	Percentage of the urban population with access to an improved water source	72.00	127
Inhalable particles (PM10)	75.18	76	4.2 Ecological Protection	18.79	107
Particulate matter (PM2.5)	58.45	124	Area of plantation and afforestation	N/A	N/A
Index of indoor air pollution	14.80	83	Biome protect	3.30	124
Nitrogen oxides emission	68.32	46	Overfishing of fishing resources	34.29	83
Sulfur dioxide emission	40.25	86	4.3 Resource Utilization	30.50	94
<b>3 Environment Carrying Competitiveness</b>	<b>64.88</b>	<b>99</b>	Utilization rate of water resources	6.84	6
3.1 Agricultural Carrying	61.68	106	Percentage of total internal renewable water resources to total water resources	60.00	76
Cereal yield per unit of arable land	8.12	117	Percentage of agricultural land to total land area	52.50	62
Fertilizer consumption per unit of arable land	99.03	29	Percentage of fossil fuel energy consumption to total energy consumption	2.65	114
Annual freshwater withdrawals for agriculture per unit of arable land	95.75	88	<b>5 Environment Harmony Competitiveness</b>	<b>65.94</b>	<b>82</b>
3.2 Industrial Carrying	95.18	17			
Net exports of goods as a percentage of GDP	86.06	39			
Electric power consumption per unit of value added of industry	95.99	25			
SO <sub>2</sub> emissions per unit of value added of industry	99.31	110			
Annual freshwater withdrawals for industry per value added of industry	99.37	26			
3.3 Energy Consumption	30.99	107			

(continued)

**Table 146.1** (continued)

Indicators	Score	Rank	Indicators	Score	Rank
5.1 Population and Environment	73.41	47	Energy consumption per capita	98.77	6
Percentage of population with access to Improved sanitation facilities	52.00	95	5.2 Economy and Environment	58.48	95
Motor vehicles per 1,000 people	95.93	32	Land resource utilization efficiency	0.02	109
Renewable internal freshwater resources per capita	0.10	129	Sulfur dioxide emissions per unit of GDP	74.05	120
SO <sub>2</sub> emissions per capita	95.60	68	Carbon dioxide emissions per unit of GDP	74.58	101
CO <sub>2</sub> emissions per capita	97.67	35	Energy consumption per unit of GDP	85.27	64

**Table 146.2** Rank distribution of the individual indicators of GEC

Sub-index	Number of the individual indicators	Rank 1–10	Rank 11–30	Rank 31–60	Rank 61–100	Rank 101–133
Resource Environment Competitiveness	14	0	0	2	3	9
Ecological Environment Competitiveness	11	0	0	2	4	5
Environment Carrying Competitiveness	15	0	4	4	2	5
Environment Management Competitiveness	10	1	0	0	4	4
Environment Harmony Competitiveness	10	0	0	3	3	4
Total	60	1	4	11	16	27

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