

Chapter 42

Report on Global Environment

Competitiveness of Croatia

Croatia is a unitary democratic parliamentary republic in Europe at the crossroads of Central Europe, the Balkans, and the Mediterranean. Most of Croatia has a moderately warm and rainy continental climate as defined by the Köppen climate classification. It covers 56.0 thousand of square kilometers and has a population of 4.40 million. Its GDP reaches \$62.49 billion in 2011. Through the index system and evaluation model, the environment competitiveness index of Croatia ranks at 53 in 133 countries.

Score:
51.38
Rank:
53

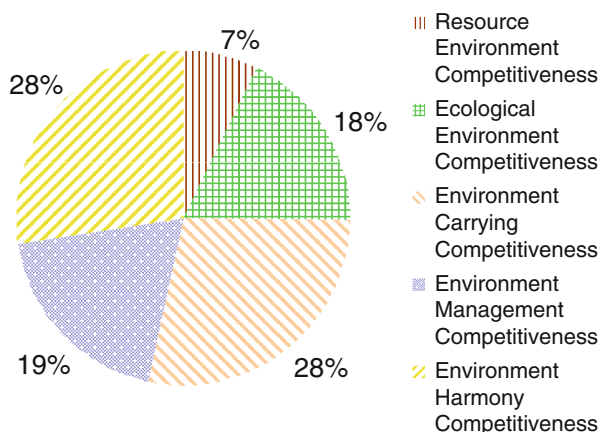


Fig. 42.1 Contribution of sub-index to GEC

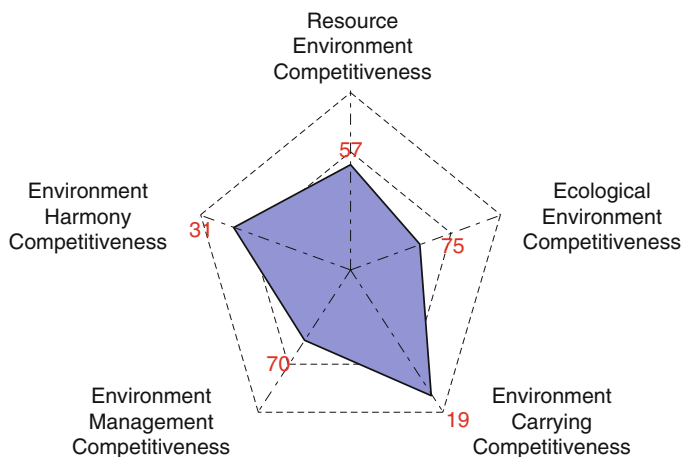


Fig. 42.2 Rank of sub-index of GEC

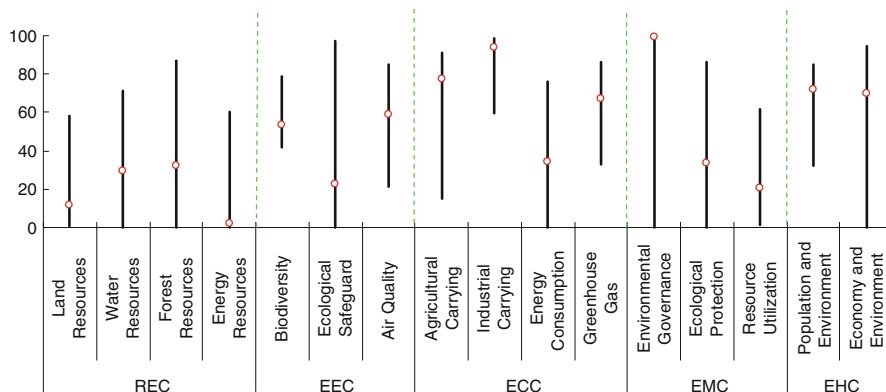


Fig. 42.3 Score and rank of the pillars of GEC

Table 42.1 Score and rank of all indicators of GEC

Indicators	Score	Rank	Indicators	Score	Rank
1 Resource Environment Competitiveness	18.44	57	Groundwater	28.28	28
1.1 Land Resources	11.89	73	Total internal renewable water resources	33.98	33
Land area per capita	2.27	70	1.3 Forest Resources	32.39	55
Percentage of arable land to total land area	27.08	53	Growing stock in forest and other wooded land	51.24	69
Arable land per capita	9.53	66	Proportion of land area covered by forest	40.26	47
1.2 Water Resources	29.69	35	Forest area per capita	3.05	55
Surface water	18.32	11	1.4 Energy Resources	2.27	104
Annual precipitation	38.16	54			

(continued)

Table 42.1 (continued)

Indicators	Score	Rank	Indicators	Score	Rank
Fossil energy	0.00	64	Energy consumption per unit of land area	99.68	84
Energy production	0.96	62	Ratio of clean energy consumption	11.59	48
Proportion of combustible renewable and waste to total energy consumption	5.01	84	Elasticity of energy consumption	13.77	77
Net energy imports of the energy consumption	6.19	87	Elasticity of electric power consumption	13.17	24
2 Ecological Environment Competitiveness	46.64	75	3.4 Greenhouse Gas Growth rate of CO ₂ emissions	67.07	34
2.1 Biodiversity	53.76	115	Growth rate of Methane emissions	69.83	16
Threatened fish species	71.70	111	Growth rate of Methane emissions	55.78	86
Threatened mammal species	96.20	37	CO ₂ emissions per unit of land area	99.62	88
Threatened plant species	99.71	47	CO ₂ emissions per unit of energy consumption	40.28	70
GEF benefits index for biodiversity	0.60	95	4 Environment Management Competitiveness	49.27	70
2.2 Ecological Safeguard	22.79	63	4.1 Environmental Governance	99.10	20
Terrestrial protected areas	35.05	56	Agricultural chemicals regulation	100.00	1
Marine protected areas	4.38	44	Percentage of the rural population with access to an improved water source	97.00	43
2.3 Air Quality	59.19	63	Percentage of the urban population with access to an improved water source	100.00	1
Inhalable particles (PM10)	83.94	47	4.2 Ecological Protection	33.28	68
Particulate matter (PM2.5)	84.82	67	Area of plantation and afforestation	0.09	87
Index of indoor air pollution	30.20	65	Biome protect	70.80	54
Nitrogen oxides emission	68.40	42	Overfishing of fishing resources	40.00	73
Sulfur dioxide emission	40.80	50	4.3 Resource Utilization	20.78	125
3 Environment Carrying Competitiveness	71.66	19	Utilization rate of water resources	0.02	121
3.1 Agricultural Carrying	77.09	17	Percentage of total internal renewable water resources to total water resources	35.57	105
Cereal yield per unit of arable land	57.72	20	Percentage of agricultural land to total land area	27.46	109
Fertilizer consumption per unit of arable land	80.03	113	Percentage of fossil fuel energy consumption to total energy consumption	20.08	76
Annual freshwater withdrawals for agriculture per unit of arable land	99.99	6			
3.2 Industrial Carrying	94.02	31			
Net exports of goods as a percentage of GDP	86.49	37			
Electric power consumption per unit of value added of industry	90.48	77			
SO ₂ emissions per unit of value added of industry	99.85	57			
Annual freshwater withdrawals for industry per value added of industry	99.25	29			
3.3 Energy Consumption	34.55	52			

(continued)

Table 42.1 (continued)

Indicators	Score	Rank	Indicators	Score	Rank
5 Environment Harmony Competitiveness	70.90	31	CO ₂ emissions per capita	88.44	79
5.1 Population and Environment	72.10	57	Energy consumption per capita	85.86	75
Percentage of population with access to Improved sanitation facilities	99.00	31	5.2 Economy and Environment	69.71	29
Motor vehicles per 1,000 people	52.84	101	Land resource utilization efficiency	0.32	35
Renewable internal freshwater resources per capita	10.36	37	Sulfur dioxide emissions per unit of GDP	96.42	51
SO ₂ emissions per capita	93.53	82	Carbon dioxide emissions per unit of GDP	89.80	55
			Energy consumption per unit of GDP	92.28	30

Table 42.2 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	2	5	6	1
Ecological Environment Competitiveness	11	0	0	5	4	2
Environment Carrying Competitiveness	15	0	3	6	5	1
Environment Management Competitiveness	10	1	1	2	2	4
Environment Harmony Competitiveness	10	0	1	6	2	1
Total	60	1	7	24	19	9

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