## Chapter 120 **Report on Global Environment Competitiveness of Serbia**

Serbia is a landlocked country located at the crossroads of Central and Southeast Europe, Serbia borders Hungary to the north, Romania and Bulgaria to the east, the Republic of Macedonia to the south, Croatia, Bosnia and Herzegovina, and Montenegro to the west. It covers 87.5 thousand of square kilometers and has a population of 7.26 million. Its GDP reaches \$45.82billion in 2011. Through the index system and evaluation model, the environment competitiveness index of Serbia ranks at 108 in 133 countries.

Score: 46.07	
Rank: 108	

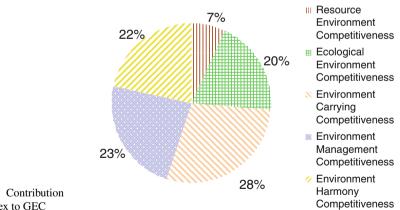
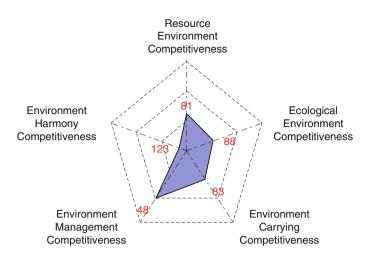
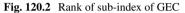


Fig. 120.1 Contribution of sub-index to GEC





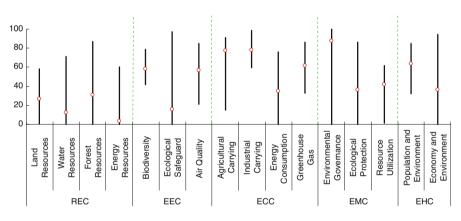


Fig. 120.3 Score and rank of the pillars of GEC

Table 120.1 Score and rank of all indicators of GEC

Indicators	Score	Rank	Indicators	Score	Rank
1 Resource Environment	16.07	81	Groundwater	N/A	N/A
Competitiveness			Total internal renewable	4.85	95
1.1 Land Resources	26.40	15	water resources		
Land area per capita	2.15	76	1.3 Forest Resources	30.96	61
Percentage of arable land to total land area	63.88	12	Growing stock in forest and other wooded land	51.26	68
Arable land per capita	21.24	17	Proportion of land area	36.97	55
1.2 Water Resources	12.11	76	covered by forest		
Surface water	N/A	N/A	Forest area per capita	2.65	58
Annual precipitation	19.38	97	1.4 Energy Resources	3.22	94

(continued)

## Table 120.1 (continued)

Indicators	Score	Rank	Indicators	Score	Rank
Fossil energy	0.00	64	Energy consumption per unit	99.62	88
Energy production	1.47	49	of land area		
Proportion of combustible	7.10	69	Ratio of clean energy	10.95	51
renewable and waste to			consumption		
total energy consumption			Elasticity of energy	14.75	24
Net energy imports of the	8.56	71	consumption	10.50	10
energy consumption			Elasticity of electric power	13.50	19
2 Ecological Environment	44.97	88	consumption	(1 (0	~
Competitiveness	50.07	= <	3.4 Greenhouse Gas	61.60	66
2.1 Biodiversity	58.37	56	Growth rate of CO <sub>2</sub>	62.52	31
Threatened fish species	94.81	28	emissions	64.06	26
Threatened mammal species	96.74	30	Growth rate of Methane emissions	64.06	26
Threatened plant species	99.88	30		00.41	99
GEF benefits index for biodiversity	0.20	109	CO <sub>2</sub> emissions per unit of land area	99.41	
2.2 Ecological Safeguard	16.03	81	$CO_2$ emissions per unit of	19.47	115
Terrestrial protected areas	16.03	90	energy consumption	50.04	10
Marine protected areas	N/A	N/A	4 Environment Management	53.34	48
2.3 Air Quality	56.63	75	Competitiveness	07 (7	72
Inhalable particles (PM10)	100.00	1	4.1 Environmental Governance	87.67	73
Particulate matter (PM2.5)	80.15	86	Agricultural chemicals	71.43	63
Index of indoor air pollution	15.60	82	regulation	/1.45	05
Nitrogen oxides emission	68.03	59	Percentage of the rural	98.00	40
Sulfur dioxide emission	38.10	110	population with access to	90.00	40
3 Environment Carrying Competitiveness	65.92	83	an improved water		
3.1 Agricultural Carrying	77.46	16	source	00.00	- 1
Cereal yield per unit of	51.78	24	Percentage of the urban	99.00	51
arable land	51.76	24	population with access to an improved water		
Fertilizer consumption per	89.18	89	source		
unit of arable land	07.10	07	4.2 Ecological Protection	36.35	57
Annual freshwater	99.97	11	Area of plantation and	0.23	71
withdrawals for	,,,,,,		afforestation	0.23	/1
agriculture per unit			Biome protect	84.50	36
of arable land			Overfishing of fishing	N/A	N/A
3.2 Industrial Carrying	78.08	124	resources	10/11	10/11
Net exports of goods as a	81.85	63	4.3 Resource Utilization	41.68	44
percentage of GDP			Utilization rate of water	N/A	N/A
Electric power consumption	73.55	115	resources		
per unit of value added			Percentage of total internal	N/A	N/A
of industry			renewable water		
SO <sub>2</sub> emissions per unit of	96.94	127	resources to total water		
value added of industry			resources		
Annual freshwater	59.99	130	Percentage of agricultural	68.32	35
withdrawals for industry			land to total land area		
per value added of			Percentage of fossil fuel	15.04	82
industry	24 71	40	energy consumption to		
3.3 Energy Consumption	34.71	49	total energy consumption		
				(co)	ntinued)

(continued)

Indicators	Score	Rank	Indicators	Score	Rank
5 Environment Harmony	50.02	123	CO <sub>2</sub> emissions per capita	82.98	92
Competitiveness			Energy consumption per	84.21	78
5.1 Population and	64.03	105	capita		
Environment			5.2 Economy and	36.00	123
Percentage of population	92.00	57	Environment		
with access to Improved sanitation facilities			Land resource utilization efficiency	0.15	53
Motor vehicles per 1,000 people	69.14	86	Sulfur dioxide emissions per unit of GDP	18.30	128
Renewable internal freshwater resources per	1.40	97	Carbon dioxide emissions per unit of GDP	54.39	122
capita			Energy consumption per unit	71.17	98
SO <sub>2</sub> emissions per capita	43.46	127	of GDP		

Table 120.1 (continued)

Table 120.2 Rank distribution of the individual indicators of GEC

	Number of the					
	individual	Rank	Rank	Rank	Rank	Rank
Sub-index	indicators	1-10	11-30	31-60	61-100	101-133
Resource Environment Competitiveness	14	0	2	2	8	0
Ecological Environment Competitiveness	11	1	3	2	5	0
Environment Carrying Competitiveness	15	0	4	3	5	3
Environment Management Competitiveness	10	0	0	5	3	0
Environment Harmony Competitiveness	10	0	0	2	3	5
Total	60	1	9	14	24	8

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