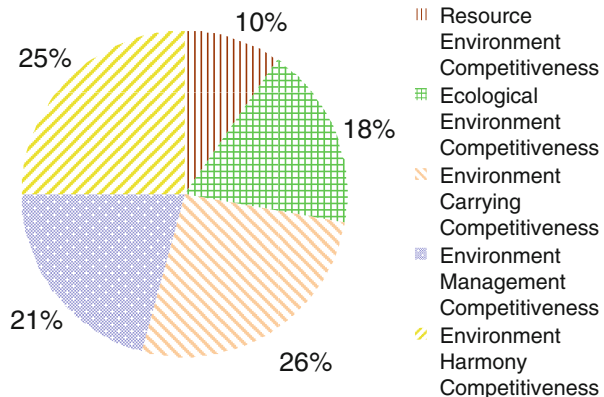


## Chapter 123

# Report on Global Environment Competitiveness of Slovenia

Slovenia is located in South-Central Europe borders Italy to the west, Austria to the north, Croatia to the south and southeast and Hungary to the northeast. Slovenia is located in temperate latitudes. It covers 20.1 thousand of square kilometers and has a population of 2.05 million. Its GDP reaches \$49.54 billion in 2011. Through the index system and evaluation model, the environment competitiveness index of Slovenia ranks at 27 in 133 countries.

|               |
|---------------|
| <b>Score:</b> |
| <b>53.82</b>  |
| <b>Rank:</b>  |
| <b>27</b>     |



**Fig. 123.1** Contribution of sub-index to GEC

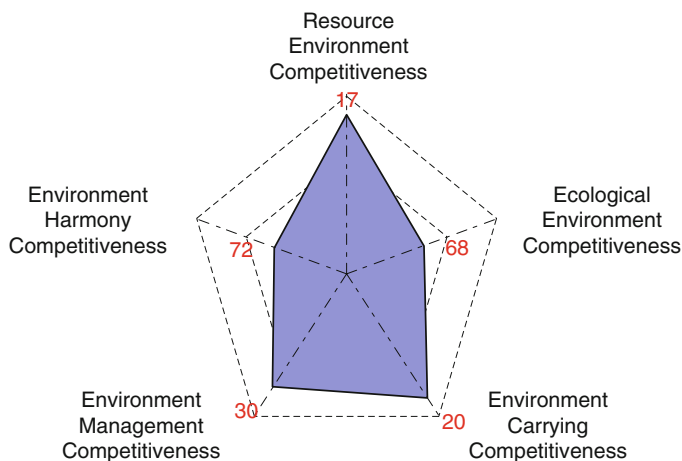


Fig. 123.2 Rank of sub-index of GEC

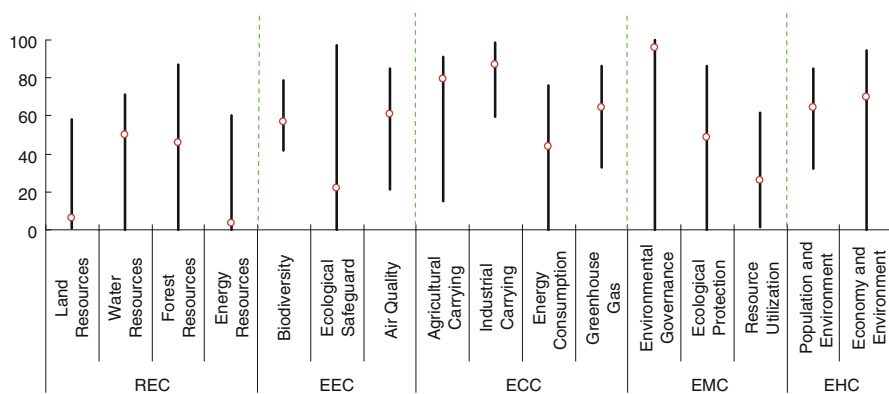


Fig. 123.3 Score and rank of the pillars of GEC

Table 123.1 Score and rank of all indicators of GEC

| Indicators                                   | Score | Rank | Indicators                                    | Score | Rank |
|--|-------|------|---|-------|------|
| 1 Resource Environment Competitiveness       | 26.46 | 17   | Groundwater                                   | 96.55 | 3    |
| 1.1 Land Resources                           | 6.07  | 118  | Total internal renewable water resources      | 46.75 | 21   |
| Land area per capita                         | 1.74  | 85   | 1.3 Forest Resources                          | 45.85 | 16   |
| Percentage of arable land to total land area | 14.05 | 90   | Growing stock in forest and other wooded land | 51.26 | 67   |
| Arable land per capita                       | 3.84  | 104  | Proportion of land area covered by forest     | 72.98 | 8    |
| 1.2 Water Resources                          | 49.99 | 13   | Forest area per capita                        | 4.26  | 42   |
| Surface water                                | 17.00 | 13   | 1.4 Energy Resources                          | 3.60  | 85   |
| Annual precipitation                         | 39.65 | 47   |   |       |      |

(continued)

**Table 123.1** (continued)

| Indicators  | Score        | Rank      | Indicators  | Score        | Rank      |
|---|--------------|-----------|---|--------------|-----------|
| Fossil energy   | 0.00         | 64        | Energy consumption per unit of land area  | 99.24        | 106       |
| Energy production   | 1.83         | 39        | Ratio of clean energy consumption   | 46.55        | 11        |
| Proportion of combustible renewable and waste to total energy consumption | 9.97         | 62        | Elasticity of energy consumption  | 14.57        | 25        |
| Net energy imports of the energy consumption                              | 6.44         | 86        | Elasticity of electric power consumption  | 15.89        | 16        |
| <b>2 Ecological Environment Competitiveness</b>                           | <b>47.95</b> | <b>68</b> | 3.4 Greenhouse Gas  | 64.21        | 45        |
| 2.1 Biodiversity  | 56.83        | 85        | Growth rate of CO <sub>2</sub> emissions  | 58.45        | 41        |
| Threatened fish species   | 86.32        | 74        | Growth rate of Methane emissions  | 61.68        | 41        |
| Threatened mammal species   | 97.83        | 17        | CO <sub>2</sub> emissions per unit of land area                                 | 99.15        | 110       |
| Threatened plant species  | 99.59        | 54        | CO <sub>2</sub> emissions per unit of energy consumption                        | 43.30        | 63        |
| GEF benefits index for biodiversity                                       | 0.20         | 109       | <b>4 Environment Management Competitiveness</b>                                 | <b>56.11</b> | <b>30</b> |
| 2.2 Ecological Safeguard  | 21.68        | 64        | 4.1 Environmental Governance  | 95.89        | 38        |
| Terrestrial protected areas   | 35.60        | 55        | Agricultural chemicals regulation   | 90.48        | 37        |
| Marine protected areas  | 0.80         | 75        | Percentage of the rural population with access to an improved water source      | 99.00        | 30        |
| 2.3 Air Quality   | 61.00        | 61        | Percentage of the urban population with access to an improved water source      | 100.00       | 1         |
| Inhalable particles (PM10)  | 81.02        | 56        | 4.2 Ecological Protection   | 48.75        | 17        |
| Particulate matter (PM2.5)  | 88.38        | 45        | Area of plantation and afforestation  | 0.04         | 99        |
| Index of indoor air pollution   | 35.60        | 59        | Biome protect   | 76.90        | 49        |
| Nitrogen oxides emission  | 68.77        | 21        | Overfishing of fishing resources  | 85.56        | 5         |
| Sulfur dioxide emission   | 40.87        | 44        | 4.3 Resource Utilization  | 26.13        | 113       |
| <b>3 Environment Carrying Competitiveness</b>                             | <b>71.61</b> | <b>20</b> | Utilization rate of water resources   | 0.12         | 87        |
| 3.1 Agricultural Carrying   | 79.41        | 13        | Percentage of total internal renewable water resources to total water resources | 41.29        | 97        |
| Cereal yield per unit of arable land                                      | 63.22        | 14        | Percentage of agricultural land to total land area                              | 27.47        | 108       |
| Fertilizer consumption per unit of arable land                            | 80.43        | 112       | Percentage of fossil fuel energy consumption to total energy consumption        | 35.67        | 45        |
| Annual freshwater withdrawals for agriculture per unit of arable land     | 99.99        | 5         |   |              |           |
| 3.2 Industrial Carrying   | 87.10        | 102       |   |              |           |
| Net exports of goods as a percentage of GDP                               | 63.47        | 113       |   |              |           |
| Electric power consumption per unit of value added of industry            | 92.03        | 65        |   |              |           |
| SO <sub>2</sub> emissions per unit of value added of industry             | 99.90        | 41        |   |              |           |
| Annual freshwater withdrawals for industry per value added of industry    | 92.99        | 103       |   |              |           |
| 3.3 Energy Consumption  | 44.06        | 14        |   |              |           |

(continued)

**Table 123.1** (continued)

| Indicators   | Score  | Rank | Indicators                               | Score | Rank |
|--|--------|------|--|-------|------|
| 5 Environment Harmony Competitiveness                                  | 66.99  | 72   | CO <sub>2</sub> emissions per capita     | 79.82 | 102  |
| 5.1 Population and Environment   | 64.31  | 102  | Energy consumption per capita            | 73.31 | 100  |
| Percentage of population with access to improved sanitation facilities | 100.00 | 1    | 5.2 Economy and Environment              | 69.68 | 30   |
| Motor vehicles per 1,000 people  | 30.37  | 120  | Land resource utilization efficiency     | 0.72  | 25   |
| Renewable internal freshwater resources per capita                     | 11.00  | 34   | Sulfur dioxide emissions per unit of GDP | 97.01 | 39   |
| SO <sub>2</sub> emissions per capita                                   | 90.74  | 94   | Carbon dioxide emissions per unit of GDP | 89.53 | 58   |
|  |        |      | Energy consumption per unit of GDP       | 91.46 | 35   |

**Table 123.2** Rank distribution of the individual indicators of GEC

| Sub-index                              | Number of the individual indicators | Rank      |            |            |             |              |
|--|-------------------------------------|-----------|------------|------------|-------------|--------------|
|  |                                     | Rank 1–10 | Rank 11–30 | Rank 31–60 | Rank 61–100 | Rank 101–133 |
| Resource Environment Competitiveness   | 14                                  | 2         | 3          | 2          | 6           | 1            |
| Ecological Environment Competitiveness | 11                                  | 0         | 2          | 5          | 4           | 0            |
| Environment Carrying Competitiveness   | 15                                  | 0         | 5          | 4          | 1           | 5            |
| Environment Management Competitiveness | 10                                  | 0         | 2          | 3          | 3           | 2            |
| Environment Harmony Competitiveness    | 10                                  | 1         | 2          | 3          | 1           | 3            |
| Total                                  | 60                                  | 3         | 14         | 17         | 15          | 11           |

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