

Chapter 46

Report on Global Environment

Competitiveness of Denmark

Denmark located southwest of Sweden, with which it is connected by a bridge-tunnel, and south of Norway, and bordered to the south by Germany; Denmark is a constitutional monarchy. It covers 42.4 thousand of square kilometers and has a population of 5.57 million. Its GDP reaches \$333.62 billion in 2011. Through the index system and evaluation model, the environment competitiveness index of Denmark ranks at 30 in 133 countries.

Score: 53.14
Rank: 30

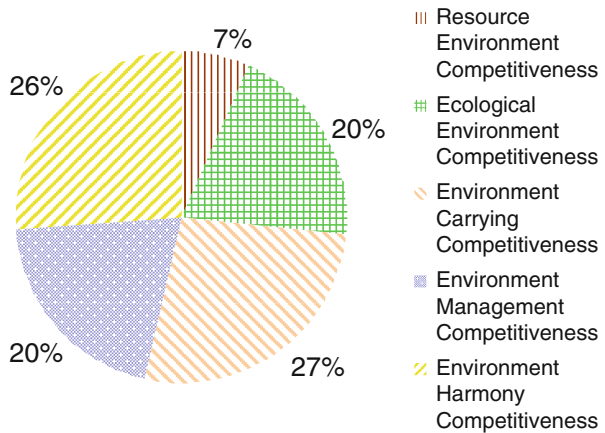


Fig. 46.1 Contribution of sub-index to GEC

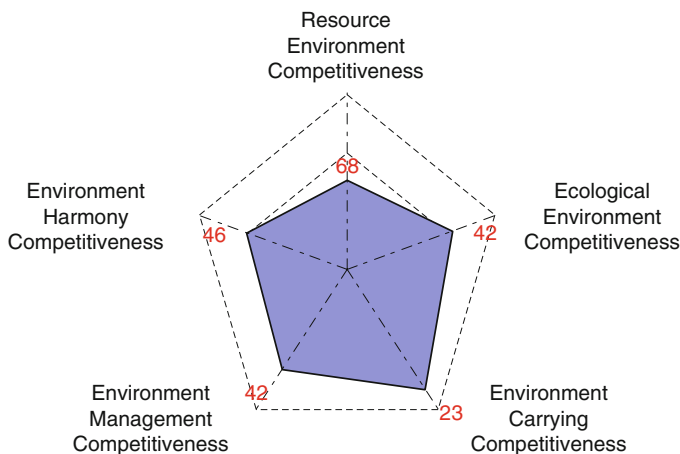


Fig. 46.2 Rank of sub-index of GEC

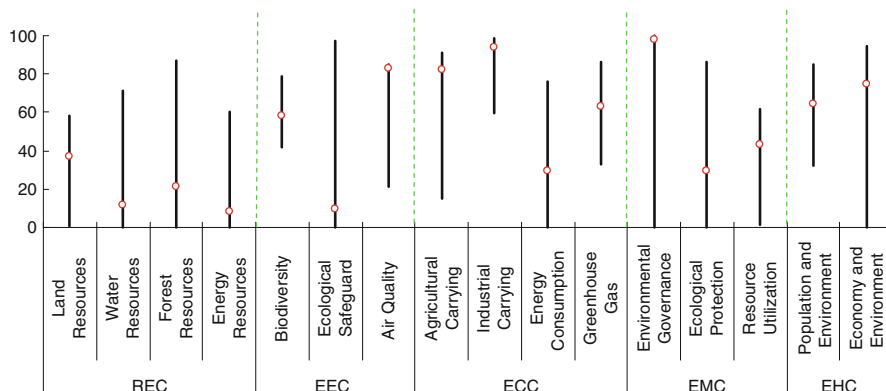


Fig. 46.3 Score and rank of the pillars of GEC

Table 46.1 Score and rank of all indicators of GEC

Indicators	Score	Rank	Indicators	Score	Rank
I Resource Environment Competitiveness	17.51	68	Groundwater	14.56	50
1.1 Land Resources	36.84	5	Total internal renewable water resources	7.13	86
Land area per capita	1.35	101	1.3 Forest Resources	21.33	90
Percentage of arable land to total land area	100.00	1	Growing stock in forest and other wooded land	50.33	91
Arable land per capita	21.00	18	Proportion of land area covered by forest	15.07	87
1.2 Water Resources	11.71	80	Forest area per capita	0.68	97
Surface water	0.94	100	1.4 Energy Resources	7.89	50
Annual precipitation	24.21	73			

(continued)

Table 46.1 (continued)

Indicators	Score	Rank	Indicators	Score	Rank
Fossil energy	0.35	44	3.3 Energy Consumption	29.70	123
Energy production	4.25	23	Energy consumption per unit of land area	99.03	109
Proportion of combustible renewable and waste to total energy consumption	19.94	42	Ratio of clean energy consumption	5.55	67
Net energy imports of the energy consumption	15.40	35	Elasticity of energy consumption	8.38	124
2 Ecological Environment Competitiveness	53.43	42	Elasticity of electric power consumption	5.83	118
2.1 Biodiversity	58.44	51	3.4 Greenhouse Gas	62.96	59
Threatened fish species	92.92	44	Growth rate of CO ₂ emissions	59.45	38
Threatened mammal species	98.91	6	Growth rate of Methane emissions	62.98	34
Threatened plant species	99.94	22	CO ₂ emissions per unit of land area	98.77	116
GEF benefits index for biodiversity	0.20	109	CO ₂ emissions per unit of energy consumption	34.14	91
2.2 Ecological Safeguard	9.47	100	4 Environment Management Competitiveness	54.20	42
Terrestrial protected areas	13.04	100	4.1 Environmental Governance	98.10	24
Marine protected areas	4.12	47	Agricultural chemicals regulation	95.24	20
2.3 Air Quality	82.63	11	Percentage of the rural population with access to an improved water source	100.00	1
Inhalable particles (PM10)	89.05	16	Percentage of the urban population with access to an improved water source	100.00	1
Particulate matter (PM2.5)	92.66	24	4.2 Ecological Protection	29.56	83
Index of indoor air pollution	100.00	1	Area of plantation and afforestation	0.53	53
Nitrogen oxides emission	67.67	71	Biome protect	30.10	95
Sulfur dioxide emission	40.93	20	Overfishing of fishing resources	67.74	21
3 Environment Carrying Competitiveness	71.32	23	4.3 Resource Utilization	43.16	36
3.1 Agricultural Carrying	82.37	7	Utilization rate of water resources	0.43	60
Cereal yield per unit of arable land	62.28	15	Percentage of total internal renewable water resources to total water resources	75.00	49
Fertilizer consumption per unit of arable land	91.65	79	Percentage of agricultural land to total land area	73.38	29
Annual freshwater withdrawals for agriculture per unit of arable land	99.86	25	Percentage of fossil fuel energy consumption to total energy consumption	23.85	69
3.2 Industrial Carrying	93.59	40			
Net exports of goods as a percentage of GDP	78.50	81			
Electric power consumption per unit of value added of industry	95.94	26			
SO ₂ emissions per unit of value added of industry	99.99	10			
Annual freshwater withdrawals for industry per value added of industry	99.94	7			

(continued)

Table 46.1 (continued)

Indicators	Score	Rank	Indicators	Score	Rank
5 Environment Harmony Competitiveness	69.24	46	CO ₂ emissions per capita	77.11	108
5.1 Population and Environment	64.06	104	Energy consumption per capita	73.70	99
Percentage of population with access to Improved sanitation facilities	100.00	1	5.2 Economy and Environment	74.42	4
Motor vehicles per 1,000 people	32.47	115	Land resource utilization efficiency	2.30	13
Renewable internal freshwater resources per capita	1.30	101	Sulfur dioxide emissions per unit of GDP	99.86	4
SO ₂ emissions per capita	98.31	33	Carbon dioxide emissions per unit of GDP	96.65	8
			Energy consumption per unit of GDP	98.88	2

Table 46.2 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	2	1	4	6	1
Ecological Environment Competitiveness	11	2	4	2	3	0
Environment Carrying Competitiveness	15	2	2	4	3	4
Environment Management Competitiveness	10	1	3	4	2	0
Environment Harmony Competitiveness	10	4	1	1	0	4
Total	60	11	11	15	14	9

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