

## ARTICLE 48-Part 2: Table 1 - Combined Rankings - selected country coverage

Table 1 covers the sources in Article 48 Part 2. It does not have statistically significant results but it does demonstrate a country's commitment to environmental initiatives based on a variety of measures of commitment to environmental initiatives based on a variety of measures.

There are three country rankings, the number of universities per country in three rankings, a country's ratings from Academic Freedom Index, the number of countries in three sources of company rankings, and bibliometric output per country followed by additional information for each category.

	Country Ranks			# of Universities			# of Universities			Rating	# Companies			14 Biblio metric rank
	1 EPI Rank	2 GFI Rank	3 U.S. News Rank	4 GreenM etric	5 THE Impact	6 <sup>1</sup> QS SDG	7 IAU	8 AASHE	9 ULSF	10 AFi	11 Co Kn	12 WSJ 2020	13 SP Gold Silver	
<b>Denmark</b>	1	2	6	2	2	Y	2	2		A	5			25
Luxembourg	2	13								A				79
Switzerland	3	19	2	1	5	Y	9	2	1	9	1	6	6	18
<b>United Kingdom</b>	4	17	18	11	50	Y	5	4	13	A	5	4	8	3
France	5	4	17	3	18	Y	8	1	2	A	9	9	7	8
<b>Austria</b>	6	15	14	1	1	Y	4			5	1			29
<b>Finland</b>	7	6	5	5	8	Y	6		1	A	5	2	1	38
Sweden	8	12	1	2	3	Y	7			8	1	1	3	20
<b>Norway</b>	9	3	3		1	Y	4	0		A	2			33
<b>Germany</b>	10	11	8	8	6	Y	8	1	1	5	7	5	7	5
<b>Netherlands</b>	11	10	10	5	7	Y	5	6		A	3	3	4	15
<b>Japan</b>	12	60	4	4	75	Y	15	3	3	B	5	16	12	6
<b>Australia</b>	13	35	11		24	Y	3	7	24	A	2		6	11
Spain	14	18	24	29		Y	8	3	3	A	3	3	12	12
Belgium	15	9	15	1	3	Y	6			3		2	1	24

Ireland	16	5	16	4	10	Y	6	3	1	A	2			44
Iceland	17	1			2		1			A				90
Slovenia	18		43	1	1	Y	1			A				60
New Zealand	19	8	7	1	8	Y	3	3	1	A				44
Italy	20	22	23	31	16	Y	15	1	1	4	1	2	10	7
Canada	20	14	9	11	23	Y	10	90	41	A	13	3	2	9
Czech Republic	20	28	35	5	7	Y	3		1	A				32
United States	24	40	20	31	45	Y	11	529	173	A	20	21	9	1
Greece	25	37	29	4	7	Y	4	1	1	A				39
Slovakia	26	50	42	2	4	Y				5				52
Portugal	27	30	26	4	11	Y	3	2	1	10			1	26
South Korea	28	31	12		17	Y			1	A	3	7	6	13
Israel	29	38	21	4	1	Y	2	1		A				37
Estonia	30		30	1		Y				A				72
Cyprus (Republic of)	31			3	4	Y	2		2	10				74
Romania	32	48	59	8	10	Y	10		2	A				43
Hungary	33	39	31	8	6	Y	7	1	1	A				50
Croatia	35		39	1	1	Y	2		1	A				58
Lithuania	35		37	1		Y	2			A				69
Latvia	36		33	3	5	Y				2				76
Poland	37	34	27	5	12	Y	3		2	A				17
Singapore	39	16	13			Y		1		C	3			36
Taiwan	40	46		26	35	Y	1	5	47	A	1	5	13	22
Bulgaria	41	44	34	2	1	Y	1		1	A				61
United Arab Emirat	42	42	22	3	4	Y	6	2		E				53
Serbia	45		70	1		Y				B				56
Kuwait	47	65		1	1	Y				C				81
Jordan	48		60	11	11	Y	13							62
Chile	49	24	48	4	16	Y	1	2	3	A		2	2	45
Belarus	49		47	1	3		2			E				77
Colombia	50	25	67	47	18	Y	3	2	31	C		5	5	47

Mexico	51	36	73	24	18	Y	16	30	9	A				28
Costa Rica	52	7	45	1	2	Y	1	1	5	A				94
Argentina	54	59	51	2	4	Y	1		1	A				155
Brazil	55	32	46	38		Y	3	5	52	C	2		1	14
Ecuador	56	62	65	7	10		1	3	1	A				56
Bahrain	56			2	3		3			E				101
Russia	58	73	25	51	75	Y	12	1	4	D				10
Ukraine	60	63	62	17	15		17	1	3	C				42
Uruguay	61	20	50		2		2			1				87
Iran	67	74		41	27	Y	20	1		E				16
Malaysia	68	56	32	23	19	Y	7	1	1	C		4		23
Tunisia	71		68	3	6	Y	2		1	A				55
Azerbaijan	72		56	3	6		1			E				93
Paraguay	73	75	63		2				1	A				132
Dominican Republic	74	55	78		2		1			A				37
Bosnia Herzegovina	78			1	1		1			B				91
Thailand	79	29	41	36	25	Y	4		2	E		2	19	40
Lebanon	79		76	4	6	Y	12		2	B				70
Algeria	84	72			6					D				57
Kazakhstan	85	33	72	16	7		5		1	C				65
Uzbekistan	88		75	2	12		3			D				89
Peru	90	66	58	2	7	Y	1	1	4	A				67
Saudi Arabia	91	61	36	7	12	Y	7	2	1	E				27
Egypt	94	58	55	9	31	Y	5	2	1	E				31
South Africa	95	47	44	3	5	Y	5		5	A	1		1	30
El Salvador	95		77	1						B				159
Turkey	99	68	40	56	49	Y	16	2	1	E	1		1	19
Morocco	100	26	71	1	7		1	1		C				54
Iraq	106		74	60	37		11							48
Sri Lanka	109		61	6	3	Y	7			C				75
Philippines	111	43	53	6	5	Y	7	2	3	B				64

Indonesia	117	57	49	88	18	Y	1			B				21
China	120	45	19	2	13	Y	5		2	E	2	1	1	2
Qatar	122	76	28		1	Y	1			D				68
Zimbabwe	123	51					2		1	D				99
Uganda	128	54				Y	3			D				85
Kenya	132	23	54		1	Y	8		3	B				71
Ethiopia	134	27								C				66
Fiji	135			1			1	1		C				125
Cambodia	139		66		1		2			D				122
Vietnam	141	49	52	2	4	Y	1		2	D				49
Pakistan	142	67		50	36	Y	13	2	3	C				39
Guatemala	149	70	69	1						B				98
Nigeria	151	53			5		8	1	2	A		1		51
Angola	158	52								C				57
Bangladesh	162	69		3	7		6		2	D				59
India	168	21	38	28	49	Y	37	2	31	C	1	2	2	4
Ghana	168	71			3	Y	7	1	2	B				73
Hong Kong		64			3	Y	3		3	D	1	2		35
Palestine				5	2		10			C				99
Number of														
Countries	94	75	76	76	82	70	82	43	55	95	26	21	24	96
				898	1029	785	482	732	508		100	100	139	
<b>COUNTRY RANKINGS - see Appendix C</b>														
<b>Environmental Performance Index</b> - from Yale and Columbia universities; 180 total countries;														
Top 10 from Europe; 16 of top 20 from Europe; 3 of top 20 from Asia-Pac; Scores range from 82.5 down to 22.6.														
Online access: <a href="https://epi.yale.edu/epi-results/2020/component/epi">https://epi.yale.edu/epi-results/2020/component/epi</a>														
Downloadable dataset: <a href="https://sedac.ciesin.columbia.edu/data/set/epi-environmental-performance-index-2020/data-download">https://sedac.ciesin.columbia.edu/data/set/epi-environmental-performance-index-2020/data-download</a>														
<b>The Green Future Index</b> , from MIT Technology Review Insights; 76 countries Scores range from 6.5 to 2.6; 8 of top10														

in Europe; Top 20 include 15 from Europe, 2 each from Latin America and one from North America, Asia, and Oceania.

<https://www.technologyreview.com/2021/01/25/1016648/green-future-index/>

<https://mittrinsights.s3.amazonaws.com/GFI/Report2021.pdf>

**U.S. News Best countries for green living-** 7 of top 10 from Europe; 12 of top 20 from Europe with 4 from Asia and two from Oceania and North America.

<https://www.usnews.com/news/best-countries/most-sustainable-countries>

**Overall, Denmark, Finland, and Norway were top 10 in all three and 14 were top 20 in all three**

**UNIVERSITY RANKINGS , the number of universities per country** see [Ruth's Rankings 48 Part 1](#)

**GreenMetric** from University of Indonesia; 6 of top 10 from Middle East and Asia; **universities provide data**

Indonesia has the most universities, followed by Iraq. <https://greenmetric.ui.ac.id/rankings/ranking-by-region-2020>

**Times Higher Ed Impact Rankings 2021 - universities provide the data; Japan and Russia have the most universities**

<https://www.timeshighereducation.com/impactrankings#!/>

**QS World Rankings 2022;** total is approximate; Based on QS World rankings research output in Environmental impact

<https://www.topuniversities.com/university-rankings/world-university-rankings/2022>

**Y** means that there were universities in the category

<https://librarylearningpace.com/ruths-rankings-48-part-1-how-green-is-my-university-ranking-green-universities-new-metrics-and-new-leaders/>

**PARTICIPANTS IN international Organizations -** see [Ruth's Rankings Part 1](#)

**IAU - International Associations of Universities** has seven member countries that are also top 10 with GreenMetrics or THE. It also has unique countries:

Andorra, Brunei, Burkina Faso, Congo, Eswatini (Swaziland), Faroe Islands, Lesotho, Mozambique, Nepal,

Niger, Oman, Rwanda, San Marino, Senegal, Syrian Arab Republic <https://www.iau-aiu.net/>

**AASHE -Association for the Advancement of Sustainability in Higher Education;** parent to STARS

Overwhelmingly North American with over 500 from the US followed by Canada and Mexico

<https://reports.aashe.org/institutions/participants-and-reports/?sort=country>

**ULSF - University Leaders for a sustainable future,** maintains the signatory list for Talloires Declaration;

<http://ulsf.org/96-2/>

**SOCIAL INDICATORS - Academic Freedom Index (AFi) - see Appendix B**

175 countries and territories are rated from A to E and all have scores. The top 10 in the world are given a rank here

[https://www.gppi.net/media/KinzelbachEtAl\\_2021\\_Free\\_Universities\\_AFi-2020.pdf](https://www.gppi.net/media/KinzelbachEtAl_2021_Free_Universities_AFi-2020.pdf)

**COMPANIES - All companies are traded on stock exchanges - See Appendix D**

**Corporate Knights - 100 most sustainable companies; 6 Asia-Pac countries represented**

<https://www.corporateknights.com/rankings/global-100-rankings/2021-global-100-rankings/2021-global-100-ranking/>

**Wall Street Journal Report:** Sustainably managed companies; limited free access; subscription required for most data

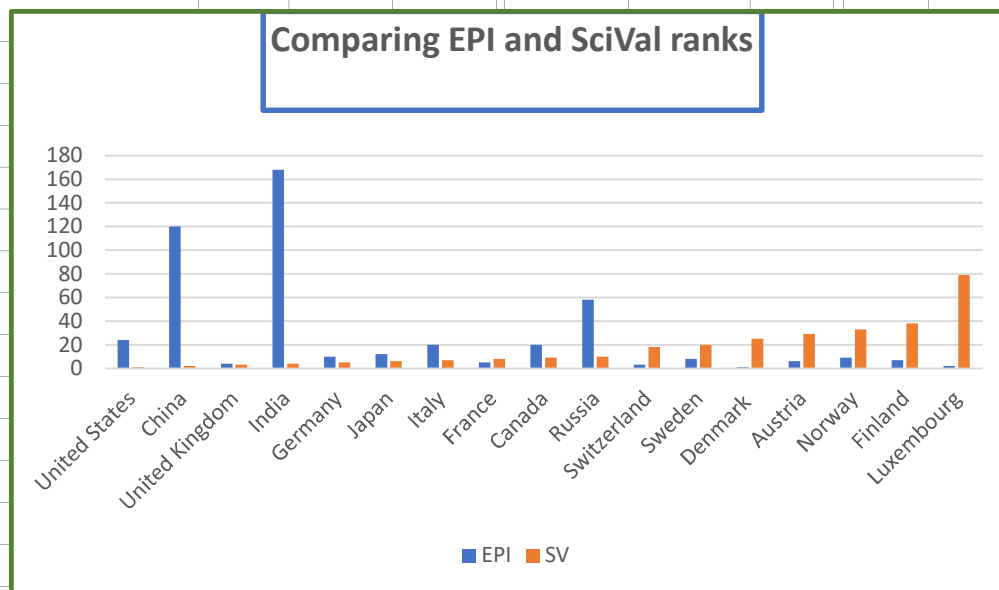
<https://webreprints.djreprints.com/57697.html>

**S&P Global , The Sustainability Yearbook 2021**-companies are rated; spreadsheet data include gold (70), silver(74)

Companies are rated; spreadsheet data include gold (70) and silver(74) ratings

<https://www.spglobal.com/esg/csa/yearbook/ranking/index.aspx>

**Bibliometrics: Comparing EPI countries with their scholarly output using SciVal data from 2018 to 2020**



ISV

US	<b>1</b>
China	2
<b>UK</b>	<b>3</b>
India	4
<b>Germ</b>	<b>5</b>
Japan	<b>6</b>
Italy	<b>7</b>
<b>France</b>	<b>8</b>
Canada	<b>9</b>
Russia	10
Swiss	<b>18</b>
Sweden	<b>20</b>
Denmar	<b>25</b>
Austria	29
<b>Norway</b>	33
Finland	38
Lux	79