INTERNATIONAL ENERGY SECURITY RISK INDEX 2020 EDITION: SINGAPORE



What do the numbers mean?

The numbers in these tables and charts relate to the energy security risk index scores calculated for each country. A higher index score indicates greater risk, a lower score lesser risk. The data provide a historical view of how energy security risks have trended both within each country since 1980 and in relation to the average index for the Organization for Economic Cooperation and Development (OECD).

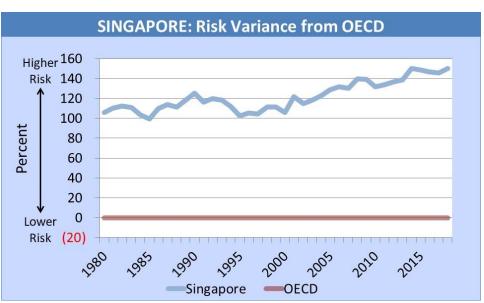
The OECD average index provides a baseline against which the scores of each country can be compared. The OECD index was set with a 1980 value equaling 1,000. The year 1980 was a year of very high risk, so a total index risk score around 1,000 indicates a relatively high level of risk. Country scores range from 500 to just below 6,000, with an average of about 1,200.

The first chart plots the raw index scores for each country and the OECD. The second chart plots percent difference between each country and the OECD and provides a picture of how each country's risk has trended over time compared to OECD baseline risk. Again, a higher value indicates greater risk, a lower value lesser risk.

The final table provides historical index scores for each of the 29 metrics used to calculate each country's total index score.

Energy Security Risk Summary: Singapore							
Risk Scores:							
2018 Energy Security Risk Score	2,211						
Score in Previous Year	2,246						
Score in 1980	2,058						
Best Energy Security Risk Score	1,495 (1995)						
Worst Energy Security Risk Score	2,273 (2011)						
Risk Scores Relative to OECD Average:							
Average Annual Difference 1980-2018	122%						
Best Relative Score	100% (1985)						
Worst Relative Score	150% (2018)						





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International Energy Security Risk Index Scores: SINGAPORE											
Metric	1980	1985	1990	1995	2000	2005	2010	2015	2017	2018	
Global Fuel								<u> </u>			
Global Oil Reserves	1,000	1,040	1,241	1,313	1,277	870	882	973	1,059	1,121	
Global Oil Production	1,000	914	783	751	696	742	786	851	922	928	
Global Gas Reserves	1,000	1,360	865	876	993	979	928	1,003	1,076	1,035	
Global Gas Production	1,000	1,466	917	666	715	768	778	882	991	988	
Global Coal Reserves	1,000	1,075	688	566	582	644	616	615	615	615	
Global Coal Production	1,000	1,074	844	832	788	1,118	1,490	1,647	1,663	1,663	
Fuel Imports		-				-			-		
Oil Import Exposure	1,558	1,424	1,220	1,170	1,085	1,156	1,226	1,326	1,437	1,446	
Gas Import Exposure	3,629	6,839	5,246	4,279	4,596	4,933	5,001	5,670	6,367	6,348	
Coal Import Exposure	5,790	7,137	5,592	5,509	5,220	7,405	9,872	10,914	11,018	11,018	
Total Energy Import Exposure	2,904	2,903	2,895	2,892	2,894	2,899	2,890	3,267	3,596	3,790	
Fossil Fuel Import Expenditure/GDP	6,144	4,228	4,032	2,300	3,043	4,704	4,237	4,483	4,206	4,019	
Energy Expenditures											
Energy Expenditure Intensity	4,053	2,789	2,660	1,508	1,998	2,484	2,657	2,801	2,623	2,502	
Energy Expenditures per Capita	2,260	1,711	2,369	2,500	2,919	4,070	6,245	7,113	7,005	6,999	
Retail Electricity Prices	1,012	826	894	885	633	685	1,086	1,105	1,119	1,126	
Crude Oil Prices	1,000	618	434	275	427	726	963	580	583	748	
Price & Market Volatility											
Crude Oil Price Volatility	1,000	425	410	155	605	671	1,702	1,310	1,342	678	
Energy Expenditure Volatility	4,053	3,551	2,013	1,312	239	394	903	230	222	349	
World Oil Refinery Usage	1,000	1,005	1,197	1,194	1,227	1,299	1,176	1,212	1,249	1,242	
GDP per Capita	1,339	1,277	1,060	777	827	781	652	628	612	598	
Energy Use Intensity											
Energy Consumption per Capita	1,022	1,016	1,474	1,886	2,116	2,830	3,170	3,087	2,979	2,938	
Energy Intensity	1,833	1,657	1,655	1,138	1,449	1,727	1,349	1,216	1,115	1,050	
Petroleum Intensity	4,008	3,620	3,605	2,360	3,040	3,341	2,616	2,588	2,616	2,582	
Electric Power Sector											
Electricity Capacity Diversity	1,638	1,638	1,620	1,602	1,582	1,573	1,573	1,564	1,537	1,515	
Non-Carbon Generation	1,460	1,460	1,440	1,426	1,434	1,424	1,419	1,383	1,347	1,337	
Transportation Sector											
Transport Energy per Capita	922	917	1,429	1,728	1,684	1,518	1,923	2,048	2,153	2,213	
Transport Energy Intensity	1,655	1,494	1,604	1,043	1,153	926	818	807	806	791	
Environmental											
CO ₂ Emissions Trend	1,000	1,122	1,973	2,820	3,671	4,557	6,513	7,861	8,032	7,959	
CO ₂ per Capita	1,115	1,104	1,742	2,153	2,452	2,875	3,452	3,822	3,851	3,798	
CO ₂ GDP Intensity	2,000	1,799	1,956	1,299	1,679	1,754	1,469	1,505	1,442	1,358	
Total Weighted Index	2,058	1,915	1,789	1,495	1,628	1,927	2,160	2,226	2,246	2,211	