

INTERNATIONAL ENERGY SECURITY RISK INDEX 2020 EDITION: BAHRAIN

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 Co-operation 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: Bahrain

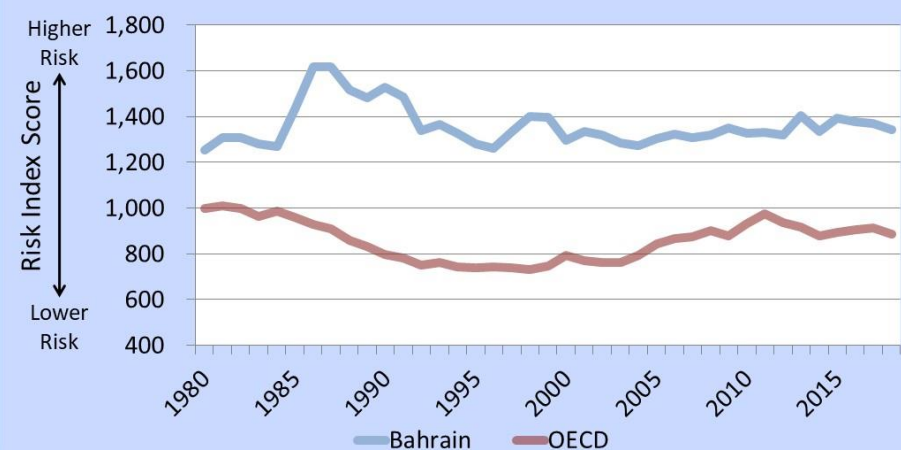
Risk Scores:

2018 Energy Security Risk Score	1,343
Score in Previous Year	1,370
Score in 1980	1,255
Best Energy Security Risk Score	1,255 (1980)
Worst Energy Security Risk Score	1,617 (1986)

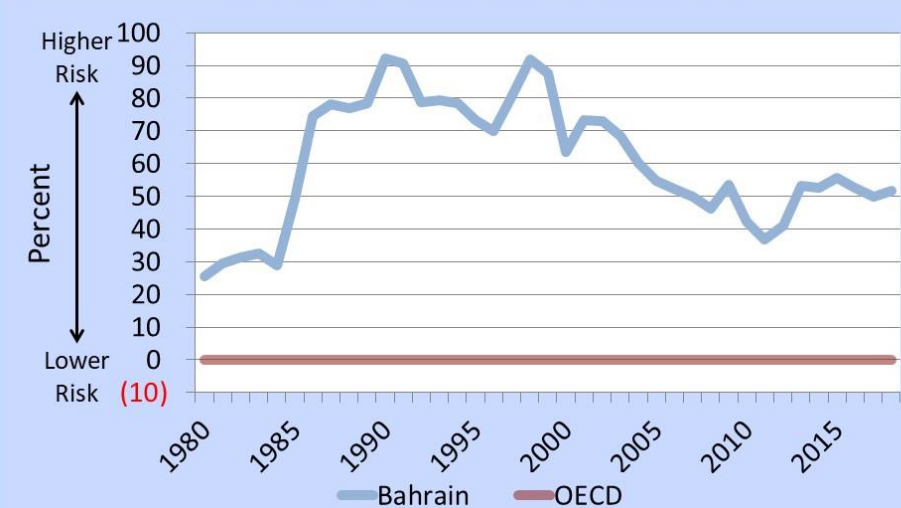
Risk Scores Relative to OECD Average:

Average Annual Difference 1980-2018	60%
Best Relative Score	25% (1980)
Worst Relative Score	92% (1990)

BAHRAIN vs. OECD: Risk Index Scores



BAHRAIN: Risk Variance from OECD



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International Energy Security Risk Index Scores: BAHRAIN

Metric	1980	1985	1990	1995	2000	2005	2010	2015	2017	2018
Global Fuel										
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	0	0	0	0	0	0	38	0	124	288
Gas Import Exposure	0	0	0	0	0	0	0	0	0	0
Coal Import Exposure	1,000	1,233	1,092	1,198	1,274	2,090	3,049	4,094	4,323	4,280
Total Energy Import Exposure	0	0	0	0	0	0	15	0	48	115
Fossil Fuel Import Expenditure/GDP	0	0	0	0	0	0	41	0	123	269
Energy Expenditures										
Energy Expenditure Intensity	2,155	3,117	3,319	2,621	2,420	3,005	2,726	3,239	3,065	3,065
Energy Expenditures per Capita	2,081	2,378	2,126	1,810	2,021	2,952	2,811	3,353	3,220	3,193
Retail Electricity Prices	1,000	816	884	875	626	716	873	888	899	905
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	2,155	2,121	2,787	882	911	430	274	336	367	304
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	1,018	1,145	1,249	1,203	1,094	1,009	985	983	976	980
Energy Use Intensity										
Energy Consumption per Capita	2,142	2,730	2,894	2,814	3,068	2,871	2,456	2,735	2,458	2,320
Energy Intensity	2,218	3,578	4,519	4,076	3,673	2,922	2,382	2,642	2,340	2,227
Petroleum Intensity	1,158	1,258	1,613	1,379	1,055	992	877	999	974	971
Electric Power Sector										
Electricity Capacity Diversity	1,638	1,638	1,638	1,638	1,638	1,638	1,638	1,635	1,635	1,634
Non-Carbon Generation	1,460	1,460	1,460	1,460	1,460	1,460	1,461	1,466	1,394	1,384
Transportation Sector										
Transport Energy per Capita	1,846	1,584	1,434	909	1,240	1,331	1,303	1,170	1,235	1,260
Transport Energy Intensity	1,912	2,077	2,239	1,316	1,484	1,355	1,263	1,130	1,175	1,209
Environmental										
CO ₂ Emissions Trend	1,000	1,470	1,840	2,049	2,613	3,254	4,032	4,747	4,704	4,656
CO ₂ per Capita	1,977	2,493	2,641	2,587	2,798	2,604	2,313	2,462	2,240	2,111
CO ₂ GDP Intensity	2,048	3,268	4,123	3,747	3,351	2,651	2,243	2,378	2,133	2,026
Total Weighted Index	1,255	1,431	1,528	1,282	1,295	1,303	1,326	1,393	1,370	1,343