

Submission Number:EB-16-00740

Descriptive statistics, and unit root tests results.

A re-examination of causal relation between economic growth and energy consumption: Evidence from 91 countries

Supplemental Appendix

Table 1. Descriptive Statistics

<u>LnGDP</u>						
<u>Country</u>	<u>Mean</u>	<u>Median</u>	<u>Maximum</u>	<u>Minimum</u>	<u>Std. Dev.</u>	<u>Observation</u>
Albania	3.369	3.323	3.636	3.094	0.152	34
Algeria	3.560	3.558	3.664	3.365	0.062	43
Angola	3.432	3.440	3.613	3.257	0.110	29
Argentina	3.896	3.883	4.035	3.774	0.063	43
Australia	4.566	4.550	4.730	4.415	0.103	44
Austria	4.526	4.540	4.680	4.290	0.115	44
Bahrain	4.310	4.326	4.359	4.219	0.044	34
Bangladesh	2.663	2.625	2.945	2.502	0.125	42
Belgium	4.515	4.526	4.653	4.303	0.104	44
Benin	2.806	2.799	2.892	2.736	0.043	43
Bolivia	3.204	3.207	3.348	3.108	0.058	43
Botswana	3.630	3.659	3.854	3.300	0.152	33
Brazil	3.918	3.917	4.071	3.704	0.078	43
Brunei D.	4.572	4.570	4.650	4.533	0.025	30
Bulgaria	3.656	3.610	3.855	3.508	0.112	34
Cameroon	3.059	3.055	3.223	2.929	0.073	43
Canada	4.565	4.563	4.692	4.391	0.088	44
Chile	3.852	3.855	4.157	3.573	0.189	43
China	2.988	2.948	3.757	2.376	0.439	43
Colombia	3.643	3.650	3.848	3.455	0.100	43
Dem. Congo	2.706	2.700	3.033	2.410	0.223	43
Congo Rep.	3.403	3.418	3.526	3.241	0.072	43
Costa Rica	3.745	3.718	3.946	3.586	0.102	43
Cote d'Ivoire	3.186	3.149	3.379	3.062	0.093	43
Cyprus	4.315	4.353	4.513	3.881	0.167	39
Denmark	4.655	4.656	4.786	4.481	0.096	44
Dominican Rep.	3.498	3.444	3.765	3.246	0.141	43
Ecuador	3.581	3.575	3.725	3.409	0.063	43
Egypt	3.198	3.205	3.426	2.901	0.156	43
El Salvador	3.442	3.452	3.571	3.312	0.084	43
Finland	4.504	4.500	4.693	4.264	0.126	44
France	4.501	4.517	4.620	4.303	0.094	44
Gabon	4.038	4.035	4.289	3.890	0.073	43
Ghana	2.987	2.974	3.216	2.846	0.086	43
Greece	4.314	4.292	4.477	4.126	0.085	44

Guatemala	3.382	3.384	3.466	3.299	0.045	43
Honduras	3.223	3.213	3.347	3.123	0.059	43
Iceland	4.479	4.483	4.658	4.198	0.119	44
India	2.791	2.744	3.191	2.550	0.196	43
Indonesia	3.222	3.270	3.552	2.837	0.205	43
Iran	3.657	3.631	3.809	3.507	0.083	35
Ireland	4.419	4.382	4.732	4.090	0.219	44
Israel	4.335	4.325	4.512	4.143	0.107	43
Italy	4.461	4.495	4.582	4.246	0.102	44
Jamaica	3.656	3.676	3.732	3.545	0.054	43
Japan	4.510	4.580	4.646	4.253	0.124	44
Jordan	3.490	3.499	3.614	3.237	0.084	39
Kenya	2.942	2.935	3.030	2.850	0.033	43
Korea	3.936	4.000	4.376	3.326	0.328	43
Luxembourg	4.793	4.826	5.041	4.526	0.176	44
Malaysia	3.693	3.705	4.002	3.308	0.204	43
Malta	4.081	4.117	4.353	3.583	0.220	43
Mauritius	3.635	3.640	3.946	3.355	0.190	38
Mexico	3.876	3.878	3.969	3.719	0.064	43
Morocco	3.244	3.234	3.492	3.021	0.135	43
Mozambique	2.368	2.333	2.673	2.115	0.176	34
Myanmar	2.477	2.352	3.060	2.209	0.265	43
Nepal	2.587	2.574	2.812	2.436	0.116	43
Netherlands	4.564	4.559	4.717	4.386	0.104	44
New Zealand	4.444	4.430	4.550	4.335	0.068	37
Nicaragua	3.183	3.174	3.411	3.028	0.109	43
Nigeria	3.208	3.201	3.391	3.059	0.100	43
Norway	4.791	4.797	4.961	4.508	0.138	44
Oman	4.162	4.195	4.306	3.896	0.116	43
Pakistan	2.863	2.897	3.036	2.656	0.119	43
Panama	3.701	3.674	3.995	3.559	0.118	43
Paraguay	3.389	3.420	3.561	3.125	0.104	43
Peru	3.557	3.548	3.760	3.417	0.080	43
Philippines	3.212	3.196	3.384	3.109	0.065	43
Portugal	4.202	4.239	4.358	3.943	0.129	44
Saudi Arabia	4.257	4.227	4.435	4.153	0.097	43
Senegal	2.957	2.956	3.006	2.898	0.029	43
Singapore	4.344	4.378	4.703	3.854	0.249	43
South Africa	3.817	3.814	3.882	3.766	0.033	43
Spain	4.349	4.360	4.511	4.131	0.115	44
Sudan	2.979	2.935	3.243	2.847	0.105	43
Sweden	4.577	4.566	4.727	4.422	0.097	44
Switzerland	4.808	4.801	4.877	4.732	0.045	34

Thailand	3.391	3.458	3.749	2.976	0.246	43
Togo	2.731	2.733	2.834	2.612	0.045	43
Trinidad and T.	3.975	3.939	4.231	3.805	0.144	43
Tunisia	3.399	3.383	3.628	3.129	0.137	43
Turkey	3.819	3.815	4.045	3.608	0.127	44
UAE	4.812	4.800	5.060	4.535	0.145	39
UK	4.452	4.455	4.461	4.252	0.115	44
Uruguay	3.892	3.879	4.129	3.744	0.104	43
US	4.558	4.561	4.698	4.367	0.107	44
Venezuela	4.115	4.111	4.192	3.988	0.045	43
Zambia	3.070	3.050	3.206	2.950	0.082	43
Zimbabwe	3.011	3.058	3.114	2.771	0.102	34

<u>InEn</u>						
<u>Country</u>	<u>Mean</u>	<u>Median</u>	<u>Maximum</u>	<u>Minimum</u>	<u>Std. Dev.</u>	<u>Observation</u>
Albania	2.834	2.848	3.060	2.585	0.135	34
Algeria	2.864	2.293	3.095	2.364	3.365	43
Angola	2.728	2.709	2.838	2.684	0.042	29
Argentina	3.192	3.172	3.284	3.133	0.048	43
Australia	3.700	3.701	3.775	3.600	0.048	44
Austria	3.518	3.510	3.613	3.383	0.065	44
Bahrain	4.022	4.029	4.090	3.891	0.051	34
Bangladesh	2.108	2.085	2.333	1.939	0.110	42
Belgium	3.696	3.695	3.756	3.612	0.044	44
Benin	2.540	2.548	2.594	2.455	0.035	43
Bolivia	2.646	2.652	2.895	2.346	0.133	43
Botswana	2.963	2.986	3.040	2.852	0.058	33
Brazil	3.001	2.992	3.157	2.850	0.071	43
Brunei D.	3.867	3.867	3.986	3.740	0.057	30
Bulgaria	3.438	3.415	3.542	3.348	0.064	34
Cameroon	2.589	2.598	2.632	2.502	0.035	43
Canada	3.879	3.877	3.922	3.811	0.025	44
Chile	3.073	3.057	3.342	2.864	0.157	43
China	2.931	2.884	3.347	2.667	0.189	43
Colombia	2.817	2.809	2.871	2.770	0.028	43
Dem. Congo	2.496	2.502	2.532	2.462	0.021	43
Congo Rep.	2.525	2.536	2.744	2.353	0.088	43
Costa Rica	2.803	2.801	3.015	2.628	0.130	43
Cote d'Ivoire	2.632	2.615	2.781	2.549	0.065	43
Cyprus	3.239	3.294	3.379	2.939	0.123	39
Denmark	3.557	3.560	3.620	3.491	0.028	44

Dominican Rep.	2.813	2.799	2.915	2.703	0.059	43
Ecuador	2.807	2.802	2.991	2.551	0.106	43
Egypt	2.716	2.749	2.963	2.334	0.185	43
El Salvador	2.778	2.778	2.899	2.659	0.070	43
Finland	3.745	3.757	3.851	3.587	0.074	44
France	3.570	3.584	3.633	3.469	0.048	44
Gabon	3.178	3.136	3.392	3.062	0.095	43
Ghana	2.537	2.556	2.621	2.434	0.049	43
Greece	3.283	3.321	3.439	2.940	0.129	44
Guatemala	2.735	2.726	2.885	2.638	0.060	43
Honduras	2.720	2.702	2.822	2.672	0.045	43
Iceland	3.931	3.911	4.259	3.626	0.173	44
India	2.567	2.562	2.782	2.428	0.105	43
Indonesia	2.728	2.759	2.937	2.473	0.159	43
Iran	3.223	3.224	3.471	2.992	0.163	35
Ireland	3.442	3.449	3.569	3.306	0.079	44
Israel	3.382	3.411	3.495	3.238	0.087	43
Italy	3.407	3.411	3.500	3.289	0.060	44
Jamaica	3.069	3.082	3.198	2.872	0.087	43
Japan	3.530	3.551	3.612	3.390	0.068	44
Jordan	2.963	2.996	3.097	2.579	0.120	39
Kenya	2.656	2.654	2.691	2.632	0.013	43
Korea	3.324	3.403	3.721	2.712	0.322	43
Luxembourg	3.950	3.933	4.114	3.849	0.069	44
Malaysia	3.141	3.194	3.479	2.716	0.240	43
Malta	3.176	3.267	3.367	2.837	0.168	43
Mauritius	2.830	2.837	3.039	2.617	0.143	38
Mexico	3.125	3.150	3.196	2.903	0.074	43
Morocco	2.520	2.515	2.757	2.256	0.132	43
Mozambique	2.633	2.609	2.750	2.582	0.046	34
Myanmar	2.437	2.433	2.495	2.391	0.023	43
Nepal	2.510	2.491	2.589	2.475	0.034	43
Netherlands	3.653	3.660	3.700	3.575	0.028	44
New Zealand	3.577	3.607	3.646	3.452	0.061	37
Nicaragua	2.705	2.706	2.773	2.652	0.024	43
Nigeria	2.837	2.839	2.901	2.761	0.033	43
Norway	3.698	3.710	3.841	3.533	0.082	44
Oman	3.243	3.444	3.854	2.049	0.510	43
Pakistan	2.597	2.615	2.718	2.455	0.085	43
Panama	2.926	2.928	3.090	2.780	0.077	43
Paraguay	2.836	2.849	2.943	2.722	0.057	43
Peru	2.734	2.731	2.854	2.611	0.077	43
Philippines	2.658	2.654	2.710	2.609	0.023	43

Portugal	3.177	3.241	3.401	2.822	0.188	44
Saudi Arabia	3.549	3.638	3.832	2.990	0.238	43
Senegal	2.403	2.404	2.482	2.317	0.046	43
Singapore	3.534	3.629	3.867	3.111	0.210	43
South Africa	3.405	3.422	3.474	3.300	0.044	43
Spain	3.345	3.373	3.512	3.050	0.124	44
Sudan	2.609	2.602	2.691	2.545	0.037	43
Sweden	3.725	3.730	3.769	3.648	0.034	44
Switzerland	3.534	3.541	3.564	3.474	0.021	34
Thailand	2.905	2.924	3.298	2.556	0.245	43
Togo	2.565	2.523	2.699	2.481	0.066	43
Trinidad and T.	3.759	3.690	4.179	3.360	0.259	43
Tunisia	2.790	2.791	2.988	2.502	0.134	43
Turkey	2.980	2.985	3.193	2.719	0.128	44
UAE	3.956	4.006	4.102	3.561	0.132	39
UK	3.553	3.565	3.588	3.472	0.029	44
Uruguay	2.942	2.936	3.135	2.821	0.079	43
US	3.885	3.889	3.926	3.833	0.020	44
Venezuela	3.312	3.324	3.397	3.147	0.054	43
Zambia	2.833	2.821	2.944	2.769	0.057	43
Zimbabwe	2.904	2.913	2.965	2.822	0.040	34

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<u>Country</u>	<u>Mean</u>	<u>Median</u>	<u>Maximum</u>	<u>Minimum</u>	<u>Std. Dev.</u>	<u>Observation</u>
Albania	3.626	3.636	3.953	3.188	0.212	34
Algeria	4.859	4.924	5.127	4.271	0.200	43
Angola	4.031	3.979	4.523	3.590	0.312	29
Argentina	5.101	5.084	5.284	4.949	0.101	43
Australia	5.422	5.435	5.596	5.196	0.123	44
Austria	4.778	4.771	4.870	4.704	0.043	44
Bahrain	9.650	9.630	10.372	8.973	0.405	34
Bangladesh	4.236	4.244	4.838	3.545	0.372	42
Belgium	5.054	5.049	5.146	4.964	0.045	44
Benin	3.027	2.953	3.763	2.415	0.413	43
Bolivia	3.858	3.818	4.294	3.485	0.243	43
Botswana	3.423	3.499	3.734	3.003	0.239	33
Brazil	5.379	5.343	5.702	5.011	0.172	43
Brunei D.	3.713	3.699	3.986	3.282	0.170	30
Bulgaria	4.771	4.726	4.962	4.597	0.123	34
Cameroon	3.495	3.579	3.883	2.908	0.288	43
Canada	5.658	5.654	5.742	5.533	0.054	44
Chile	4.583	4.522	4.919	4.314	0.024	43
China	6.444	6.430	7.010	5.942	0.304	43

Colombia	4.727	4.750	4.952	4.481	0.110	43
Dem. Congo	3.382	3.449	3.642	2.910	0.204	43
Congo Rep.	3.045	3.084	3.394	2.508	0.221	43
Costa Rica	3.584	3.578	3.910	3.184	0.230	43
Cote d'Ivoire	3.769	3.789	3.961	3.432	0.130	43
Cyprus	3.692	3.736	3.933	3.296	0.177	39
Denmark	4.733	4.741	4.858	4.561	0.058	44
Dominican Rep.	4.058	4.038	4.356	3.547	0.239	43
Ecuador	4.254	4.306	4.638	3.625	0.258	43
Egypt	4.919	4.909	5.336	4.362	0.292	43
El Salvador	3.546	3.520	3.857	3.179	0.235	43
Finland	4.721	4.721	4.839	4.606	0.057	44
France	5.601	5.578	5.723	5.520	0.058	44
Gabon	3.691	3.680	3.878	3.437	0.086	43
Ghana	3.672	3.600	4.164	3.360	0.225	43
Greece	4.813	4.870	4.994	4.383	0.160	44
Guatemala	3.783	3.752	4.133	3.387	0.236	43
Honduras	3.531	3.454	3.957	3.124	0.274	43
Iceland	3.278	3.282	3.363	3.142	0.053	44
India	5.809	5.844	6.308	5.315	0.303	43
Indonesia	5.234	5.306	5.777	4.590	0.322	43
Iran	5.458	5.436	5.808	5.052	0.238	35
Ireland	4.496	4.494	4.649	4.288	0.105	44
Israel	4.574	4.631	4.878	4.210	0.220	43
Italy	5.598	5.601	5.675	5.472	0.049	44
Jamaica	3.896	3.889	4.060	3.655	0.104	43
Japan	6.021	6.041	6.102	5.885	0.063	44
Jordan	4.043	4.132	4.395	3.396	0.277	39
Kenya	3.824	3.802	4.128	3.566	0.168	43
Korea	5.391	5.453	5.772	4.768	0.307	43
Luxembourg	4.010	4.020	4.158	3.866	0.072	44
Malaysia	4.831	4.876	5.373	4.222	0.381	43
Malta	3.224	3.327	3.435	2.819	0.206	43
Mauritius	3.204	3.255	3.609	2.701	0.315	38
Mexico	5.490	5.516	5.688	5.101	0.158	43
Morocco	4.397	4.415	4.797	3.905	0.250	43
Mozambique	3.205	3.192	3.604	2.992	0.188	34
Myanmar	3.843	3.817	4.155	3.613	0.169	43
Nepal	3.093	3.124	3.813	2.296	0.432	43
Netherlands	5.212	5.218	5.273	5.128	0.032	44
New Zealand	4.423	4.433	4.538	4.216	0.107	37
Nicaragua	3.444	3.406	3.688	3.169	0.161	43
Nigeria	4.796	4.816	5.019	4.508	0.151	43
Norway	4.585	4.589	4.778	4.434	0.089	44
Oman	4.127	4.082	4.786	3.320	0.394	43
Pakistan	4.814	4.862	5.212	4.277	0.307	43

Panama	3.645	3.563	4.015	3.401	0.189	43
Paraguay	3.374	3.403	3.725	2.802	0.273	43
Peru	4.431	4.382	4.760	4.259	0.139	43
Philippines	4.694	4.687	4.992	4.422	0.174	43
Portugal	4.578	4.653	4.824	4.183	0.189	44
Saudi Arabia	5.346	5.338	5.752	4.776	0.250	43
Senegal	3.541	3.535	3.925	3.131	0.189	43
Singapore	4.563	4.557	4.840	4.219	0.144	43
South Africa	5.503	5.528	5.701	5.226	0.142	43
Spain	5.361	5.354	5.554	5.067	0.113	44
Sudan	3.769	3.689	4.202	3.480	0.230	43
Sweden	4.777	4.743	4.965	4.634	0.093	44
Switzerland	4.605	4.606	4.632	4.563	0.017	34
Thailand	4.970	5.040	5.484	4.284	0.396	43
Togo	2.952	2.926	3.444	2.493	0.257	43
Trinidad and T.	4.324	4.285	4.683	3.908	0.211	43
Tunisia	4.132	4.190	4.441	3.624	0.234	43
Turkey	5.140	5.178	5.517	4.629	0.252	44
UAE	4.839	4.764	5.236	4.492	0.237	39
UK	5.744	5.738	5.820	5.651	0.039	44
Uruguay	3.728	3.749	3.939	3.502	0.103	43
US	6.699	6.693	6.763	6.634	0.040	44
Venezuela	5.070	5.086	5.298	4.758	0.165	43
Zambia	3.440	3.431	3.661	3.250	0.116	43
Zimbabwe	4.089	4.105	4.246	3.890	0.101	34

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<u>Country</u>	<u>Mean</u>	<u>Median</u>	<u>Maximum</u>	<u>Minimum</u>	<u>Std. Dev.</u>	<u>Observation</u>
Albania	35.820	31.264	64.929	20.915	14.465	34
Algeria	40.472	40.651	53.546	28.010	6.077	43
Angola	67.253	69.147	75.254	55.593	5.584	29
Argentina	42.353	39.502	56.894	32.534	8.218	43
Australia	62.445	64.800	78.302	45.637	12.136	44
Austria	69.787	70.331	88.604	47.762	14.806	44
Bahrain	82.157	83.513	88.559	74.529	5.123	34
Bangladesh	16.349	10.265	35.823	9.121	0.079	42
Belgium	85.477	87.641	94.801	74.449	6.671	44
Benin	27.595	26.862	40.618	18.308	6.755	43
Bolivia	48.865	47.087	61.036	36.106	7.919	43
Botswana	65.271	66.255	74.114	55.265	5.225	33
Brazil	46.214	45.653	57.214	39.043	5.547	43
Brunei D.	69.578	70.080	79.334	60.573	6.639	30
Bulgaria	55.133	53.612	81.068	39.788	13.744	34
Cameroon	29.469	29.240	41.439	19.337	6.708	43
Canada	73.031	70.912	84.507	62.958	6.242	44

Chile	60.632	55.142	85.172	40.258	15.218	43
China	38.425	40.446	55.724	24.670	10.567	43
Colombia	39.571	39.141	57.961	24.765	11.749	43
Dem. Congo	25.694	22.873	51.786	15.838	9.746	43
Congo Rep.	55.043	51.227	69.480	43.560	8.160	43
Costa Rica	55.074	54.025	71.987	38.585	10.220	43
Cote d'Ivoire	38.865	37.456	52.846	30.309	6.568	43
Cyprus	62.605	51.531	89.088	48.473	15.754	39
Denmark	74.513	76.917	90.015	57.791	11.019	44
Dominican Rep.	37.351	31.570	61.949	22.708	13.173	43
Ecuador	34.913	32.174	56.121	17.758	12.891	43
Egypt	37.747	39.169	50.273	26.110	7.081	43
El Salvador	47.635	40.526	66.889	35.647	11.172	43
Finland	68.076	68.939	88.807	45.464	16.195	44
France	58.663	61.206	72.300	42.776	10.486	44
Gabon	41.605	40.603	61.376	34.412	5.236	43
Ghana	31.494	23.422	54.516	17.706	12.713	43
Greece	61.966	59.020	76.243	49.243	9.411	44
Guatemala	41.398	38.428	60.534	26.510	11.367	43
Honduras	45.159	42.996	69.112	24.243	15.829	43
Iceland	63.825	60.812	80.121	50.324	10.350	44
India	26.032	23.843	43.476	17.275	9.551	43
Indonesia	44.174	38.392	66.551	30.192	12.363	43
Iran	21.249	20.808	33.984	13.747	6.359	35
Ireland	88.885	88.794	97.076	77.321	6.130	44
Israel	68.022	64.428	81.904	57.645	8.274	43
Italy	57.504	57.493	75.849	40.398	13.212	44
Jamaica	60.374	61.671	76.021	47.924	7.814	43
Japan	39.279	43.003	51.104	25.583	8.928	44
Jordan	55.800	53.907	70.507	42.659	9.345	39
Kenya	31.600	32.422	41.132	24.019	5.695	43
Korea	45.399	42.204	62.100	29.819	10.449	43
Luxembourg	94.115	93.895	99.153	91.261	2.075	44
Malaysia	68.546	67.212	81.459	58.001	6.594	43
Malta	72.614	66.197	93.884	60.609	12.076	43
Mauritius	57.794	53.511	87.218	43.005	13.711	38
Mexico	49.970	52.150	64.061	37.237	8.688	43
Morocco	38.793	37.415	58.618	26.981	7.488	43
Mozambique	42.816	42.824	58.020	27.381	8.922	34
Myanmar	39.643	38.294	55.846	31.498	8.150	43
Nepal	17.927	14.996	30.365	10.990	6.537	43
Netherlands	83.776	85.585	95.329	63.332	9.402	44
New Zealand	73.332	76.482	84.256	57.767	9.643	37
Nicaragua	41.475	37.821	61.580	22.580	13.985	43
Nigeria	37.233	39.087	60.530	17.844	14.702	43
Norway	72.553	74.899	82.841	57.192	7.166	44

Oman	66.657	64.720	80.013	59.605	5.530	43
Pakistan	28.645	26.287	42.064	20.241	7.134	43
Panama	70.195	65.810	81.523	63.437	6.292	43
Paraguay	42.339	41.671	59.338	30.850	10.049	43
Peru	46.097	37.960	76.142	27.032	16.908	43
Philippines	45.980	44.701	62.760	31.955	9.146	43
Portugal	70.738	67.373	85.401	55.782	10.777	44
Saudi Arabia	62.177	61.541	69.895	54.923	3.021	43
Senegal	34.920	33.136	51.608	27.530	7.035	43
Singapore	93.717	94.328	97.487	86.182	2.793	43
South Africa	59.657	58.589	69.521	50.201	5.607	43
Spain	62.978	65.528	81.149	41.019	14.862	44
Sudan	19.864	12.865	42.592	7.759	11.859	43
Sweden	71.460	76.912	88.650	43.402	16.017	44
Switzerland	82.928	82.415	92.320	76.960	3.930	34
Thailand	45.583	40.675	71.345	26.904	15.242	43
Togo	42.009	41.475	56.861	31.910	5.958	43
Trinidad and T.	63.719	61.883	77.673	49.295	10.061	43
Tunisia	49.996	48.925	60.904	42.627	5.301	43
Turkey	45.416	44.695	62.224	29.394	12.088	44
UAE	77.233	75.566	88.443	70.989	5.809	39
UK	65.487	67.136	76.121	42.497	8.818	44
Uruguay	54.095	54.664	67.319	42.830	7.917	43
US	56.497	57.536	65.369	47.065	5.539	44
Venezuela	47.891	46.464	58.336	38.289	5.644	43
Zambia	50.630	49.035	64.049	39.990	6.004	43
Zimbabwe	38.870	40.576	50.890	29.196	6.736	34

Table 2. Unit Root Test Results

Country	Variable	ADF Test				d _{max}
		Level		First difference		
		C	C + T	C	C + T	
Albania (1980-2013)	Ln GDP	-0.583	-1.431	-3.863**	-3.200***	1
	Ln En. C.	-1.570	-1.219	-4.100***	-4.284***	1
	Ln CO2	-1.175	-1.043	-4.892***	-4.972***	1
	Eco. G.	-0.850	-2.562	-3.741***	-3.631**	1
Algeria (1971-2013)	Ln GDP	-0.523	-4.035	-8.212***	-7.861***	1
	Ln En. C.	-4.053***	-3.276	-1.580	-1.588	0
	Ln CO2	-2.932	-4.514***	-6.638***	-6.573***	0
	Eco. G.	-1.300	-3.494	-5.337***	-5.267***	1
Angola (1985-2013)	Ln GDP	-1.264	-1.861	-2.820	-2.992	2
	Ln En. C.	-0.388	-1.196	-5.000***	-5.505	1
	Ln CO2	-0.239	-3.817**	-7.962***	-7.852***	1
	Eco. G.	-0.991	-0.236	-4.145***	-4.753***	1
Argentina (1971-2013)	Ln GDP	-0.489	-1.986	-5.362***	-5.432***	1
	Ln En. C.	-0.398	-2.284	-6.443***	-6.418***	1
	Ln CO2	-0.336	-2.922	-5.558***	-4.588***	1
	Eco. G.	-1.151	-0.172	-6.058***	-6.560***	1
Australia (1970-2013)	Ln GDP	0.282	-2.241	-5.781***	-5.708***	1
	Ln En. C.	-1.685	-2.102	-7.429***	-7.776***	1
	Ln CO2	-2.333	-1.949	-6.870***	-7.504***	1
	Eco. G.	-1.031	-0.594	-6.434***	-6.509***	1
Austria (1970-2013)	Ln GDP	-3.341**	-1.983	-4.745***	-5.773***	0
	Ln En. C.	-1.807	-3.405	-7.159***	-7.226***	1
	Ln CO2	-2.215	-2.801	-8.528***	-8.513***	1
	Eco. G.	-1.438	0.492	-4.167***	-4.417***	1
Bahrain (1980-2013)	Ln GDP	-1.183	-2.046	-4.581***	-4.492***	1
	Ln En. C.	-2.765	-1.927	-6.440***	-7.354***	1
	Ln CO2	-0.693	-3.073	-6.921***	-6.809***	1
	Eco. G.	-1.157	-0.276	-4.243***	-4.420***	1
Bangladesh (1972-2013)	Ln GDP	3.830	0.593	-6.308***	-9.383***	1
	Ln En. C.	2.350	-0.984	-8.122***	-8.998***	1
	Ln CO2	-0.485	-3.948**	-6.106***	-6.035	1
	Eco. G.	1.180	-0.749	-3.812***	-4.555***	1
Belgium (1970-2013)	Ln GDP	-3.137**	-1.355	-5.611***	-6.547***	0
	Ln En. C.	-1.952	-1.673	-6.098***	-6.269***	1
	Ln CO2	-1.231	-2.224	-7.154***	-7.140	1
	Eco. G.	-1.796	1.750	-3.638***	-4.456***	1
Benin	Ln GDP	-0.426	-2.543	-6.210***	-5.315***	1
	Ln En. C.	-1.563	-1.242	-6.514***	-6.744***	1

(1971-2013)	Ln CO2	0.043	-2.642	-7.337***	-7.451***	1
	Eco. G.	-0.246	-2.914	-7.267***	-7.227***	1
Bolivia (1971-2013)	Ln GDP	-0.053	-1.055	-2.560	-3.690**	1
	Ln En. C.	-1.414	-2.677	-7.515***	-7.430***	1
	Ln CO2	-0.229	-1.931	-7.035***	-7.023***	1
	Eco. G.	-1.104	-1.435	-5.212***	-5.214***	1
Botswana (1981-2013)	Ln GDP	-2.483	-2.481	-4.512***	-4.722***	1
	Ln En. C.	-1.364	-2.503	-6.951***	-6.876***	1
	Ln CO2	-3.912***	-1.841	-6.465***	-6.432***	1
	Eco. G.	-1.137	-3.082	-4.815***	-4.907***	1
Brazil (1971-2013)	Ln GDP	0.463	-3.407	-4.781***	-3.143	1
	Ln En. C.	-0.420	-1.818	-5.528***	-5.468***	1
	Ln CO2	-1.121	-2.973	-4.760***	-4.657***	1
	Eco. G.	-1.314	-2.108	-6.174***	-6.122***	1
Brunei	Ln GDP	-2.009	-2.566	-5.332***	-5.102***	1
Darussalam (1984-2013)	Ln En. C.	-2.668	-3.320	-4.477***	-4.251***	1
	Ln CO2	-2.586	-2.626	-4.757***	-3.817**	1
	Eco. G.	-1.515	-2.390	-2.828	-2.767	2
Bulgaria (1980-2013)	Ln GDP	-0.509	-1.903	-2.998**	-3.011	1
	Ln En. C.	-1.220	-1.972	-4.557***	-4.471***	1
	Ln CO2	-0.700	-2.368	-5.842***	-5.024***	1
	Eco. G.	-0.137	-2.786	-5.778***	-5.812***	1
Cameroon (1971-2013)	Ln GDP	-2.947**	-2.947	-4.162***	-4.214***	0
	Ln En. C.	0.367	-1.241	-5.252***	-6.169***	1
	Ln CO2	-2.669	-3.276	-6.838***	-6.815***	1
	Eco. G.	-1.520	-3.821**	-8.682***	-8.578***	0
Canada (1970-2013)	Ln GDP	-1.808	-3.083	-4.669***	-4.768***	1
	Ln En. C.	-3.198**	-2.690	-5.365***	-5.720***	0
	Ln CO2	-2.504	-1.387	-5.277***	-5.685***	1
	Eco. G.	-1.627	-1.338	-4.160***	-4.329***	1
Chile (1971-2013)	Ln GDP	0.127	-3.409	-4.386***	-4.434***	1
	Ln En. C.	0.341	-3.067	-4.383***	-4.613***	1
	Ln CO2	0.043	-2.928	-4.365***	-4.548***	1
	Eco. G.	-0.765	-2.707	-2.674	-2.683	2
China (1971-2013)	Ln GDP	1.074	-3.075	-2.978**	-4.270***	1
	Ln En. C.	1.625	-0.433	-3.853***	-4.385***	1
	Ln CO2	0.102	-2.321	-3.909***	-3.889**	1
	Eco. G.	-0.818	-2.081	-7.582***	-5.837***	1
Colombia (1971-2013)	Ln GDP	0.206	-1.230	-4.640***	-4.644***	1
	Ln En. C.	-1.786	-1.708	-7.076***	-7.061***	1
	Ln CO2	-1.006	-2.036	-6.363***	-6.268***	1
	Eco. G.	0.085	-2.171	-5.422***	-5.389***	1
	Ln GDP	-1.469	-1.315	-2.265	-2.454	2

Dem. Congo (1971-2013)	Ln En. C.	-0.861	-2.126	-7.221***	-7.184***	1
	Ln CO2	-1.155	-1.040	-5.506***	-5.482***	1
	Eco. G.	0.291	-1.528	-5.897***	-6.102***	1
Congo Rep. (1971-2013)	Ln GDP	-2.326	-2.448	-3.729***	-3.700**	1
	Ln En. C.	-0.026	0.178	-6.367***	-7.160***	1
	Ln CO2	-2.176	-2.555	-6.653***	-6.575***	1
	Eco. G.	-0.474	-2.829	-6.400***	-6.351***	1
Costa Rica (1971-2013)	Ln GDP	0.183	-0.984	-4.141***	-4.212***	1
	Ln En. C.	-0.322	-1.848	-5.544***	-5.499***	1
	Ln CO2	-1.208	-1.832	-5.322***	-5.271***	1
	Eco. G.	-1.236	-2.499	-6.521***	-6.465***	1
Cote d'Ivoire (1971-2013)	Ln GDP	-0.985	-1.014	-4.266**	-4.253***	1
	Ln En. C.	-0.689	-1.330	-7.132***	-7.568	1
	Ln CO2	-2.793	-3.437	-8.002***	-7.952***	1
	Eco. G.	-0.705	-2.106	-7.137***	-4.437***	1
Cyprus (1975-2013)	Ln GDP	-6.756***	-1.882	-3.751***	-5.091***	0
	Ln En. C.	-3.128**	0.008	-5.359***	-6.971***	0
	Ln CO2	-3.144**	0.229	-4.820***	-5.641***	0
	Eco. G.	-0.456	-1.921	-6.674***	-6.644***	1
Denmark (1970-2013)	Ln GDP	-2.060	-0.133	-4.912***	-5.277***	1
	Ln En. C.	-2.703	-3.056	-6.982***	-6.945***	1
	Ln CO2	-1.615	-2.590	-8.209***	-8.313***	1
	Eco. G.	-1.474	0.350	-5.489***	-5.871***	1
Dominican R. (1971-2013)	Ln GDP	-0.051	-1.337	-4.918***	-5.540***	1
	Ln En. C.	-1.971	-2.417	-7.667***	-7.567***	1
	Ln CO2	-2.073	-2.499	-5.795***	-5.776***	1
	Eco. G.	0.343	-1.442	-4.777***	-4.869***	1
Ecuador (1971-2013)	Ln GDP	-1604	-2.248	-4.224***	-4.181**	1
	Ln En. C.	-1.755	-2.489	-6.461***	-6.499***	1
	Ln CO2	-2.697	-3.001	-7.250***	-7.592***	1
	Eco. G.	-1.332	-1.312	-4.262***	-4.322***	1
Egypt (1971-2013)	Ln GDP	-1.786	-3.212	-3.558**	-3.832**	1
	Ln En. C.	-2.236	-1.404	-5.787***	-6.120***	1
	Ln CO2	-1.834	-2.205	-7.858***	-8.175***	1
	Eco. G.	-1.406	-4.065**	-5.554***	-5.511***	0
El Salvador (1971-2013)	Ln GDP	-1.456	-2.507	-2.446	-2.588	2
	Ln En. C.	-1.525	-1.638	-6.475***	-6.417***	1
	Ln CO2	-1.140	-1.284	-6.502***	-6.466***	1
	Eco. G.	-0.529	-2.318	-3.393**	-3.364	1
Finland (1970-2013)	Ln GDP	-1.696	-2.942	-3.822***	-4.012**	1
	Ln En. C.	-2.170	-1.980	-7.058***	-7.459***	1
	Ln CO2	-2.920	-2.867	-6.547***	-6.679***	1
	Eco. G.	-1.351	0.142	-3.901***	-4.062**	1

France (1970-2013)	Ln GDP	-3.811***	-1.347	-4.506***	-5.259***	0
	Ln En. C.	-2.197	-1.369	-7.092***	-7.540***	1
	Ln CO2	-0.904	-2.514	-7.848***	-7.754***	1
	Eco. G.	-1.418	-0.150	-5.465***	-5.699***	1
Gabon (1971-2013)	Ln GDP	-2.604	-3.766**	-4.673***	-4.655***	0
	Ln En. C.	-1.315	-1.706	-6.120***	-6.052***	1
	Ln CO2	-1.649	-2.995	-7.873***	-7.601***	1
	Eco. G.	2.394	1.453	-2.052	-2.601	2
Ghana (1971-2013)	Ln GDP	0.646	-0.805	-4.109***	-5.491***	1
	Ln En. C.	-1.642	-2.001	-5.874***	-5.794***	1
	Ln CO2	0.799	-3.148	-9.224***	-9.375***	1
	Eco. G.	-0.267	-2.284	-7.629***	-7.644***	1
Greece (1970-2013)	Ln GDP	-1.804	-1.846	-3.710***	-3.904**	1
	Ln En. C.	-4.354***	-1.064	-4.015***	-5.161***	0
	Ln CO2	-5.235***	-0.240	-3.463**	-5.594***	0
	Eco. G.	-0.870	-1.478	-5.836***	-5.803***	1
Guatemala (1971-2013)	Ln GDP	-1.018	-2.263	-3.054**	-3.024	1
	Ln En. C.	0.495	-0.680	-5.418***	-5.661***	1
	Ln CO2	-0.822	-1.724	-6.331***	-6.235***	1
	Eco. G.	-0.053	-1.732	-5.210***	-5.140***	1
Honduras (1971-2013)	Ln GDP	-0.173	-1.320	-4.865***	-4.847***	1
	Ln En. C.	-0.569	-1.890	-7.360***	-6.738***	1
	Ln CO2	-0.183	-1.964	-6.094***	-6.047***	1
	Eco. G.	-0.336	-1.967	-4.529***	-4.474***	1
Iceland (1970-2013)	Ln GDP	-1.403	-2.396	-4.762***	-4.727***	1
	Ln En. C.	-0.266	-1.937	-6.474***	-6.401***	1
	Ln CO2	-2.823	-2.974	-7.455***	-7.583***	1
	Eco. G.	-0.816	-1.416	-5.825***	-5.761***	1
India (1971-2013)	Ln GDP	3.643	-1.375	-5.869***	-7.867***	1
	Ln En. C.	3.300	-0.601	-4.871***	-5.805***	1
	Ln CO2	-0.058	-1.778	-5.801***	-5.710***	1
	Eco. G.	0.971	-1.946	-5.600***	-5.921***	1
Indonesia (1971-2013)	Ln GDP	-1.275	-2.252	-4.716***	-4.729***	1
	Ln En. C.	-1.124	-1.034	-6.364***	-6.459***	1
	Ln CO2	-1.727	-3.039	-5.612***	-5.759***	1
	Eco. G.	-0.732	-2.707	-5.210***	-5.140***	1
Iran (1979-2013)	Ln GDP	-1.125	-2.011	-5.450***	-5.520***	1
	Ln En. C.	-0.254	-3.245	-8.258***	-8.125***	1
	Ln CO2	0.032	-6.216***	-6.870***	-6.575***	0
	Eco. G.	-1.058	-2.829	-5.318***	-5.247***	1
Ireland (1970-2013)	Ln GDP	-1.103	-1.481	-3.040**	-3.120	1
	Ln En. C.	-1.763	-0.296	-6.889***	-7.097***	1
	Ln CO2	-2.184	-0.375	-6.877***	-7.161***	1

	Eco. G.	-1.959	-0.218	-6.361***	-7.098***	1
Israel (1971-2013)	Ln GDP	-0.711	-3.515**	-7.343***	-7.225***	0
	Ln En. C.	-1.581	-3.752**	-12.177***	-12.050***	0
	Ln CO2	-1.204	-1.010	-7.449***	-7.546***	1
	Eco. G.	-1.071	-2.695	-4.844***	-4.834***	1
Italy (1970-2013)	Ln GDP	-3.388**	1.362	-4.267***	-5.586***	0
	Ln En. C.	-1.711	0.112	-6.208***	-7.010***	1
	Ln CO2	-1.917	0.337	-4.751***	-5.772***	1
	Eco. G.	-1.101	-0.038	-4.972***	-5.091***	1
Jamaica (1971-2013)	Ln GDP	-1.678	-3.847	-6.146***	-6.521***	1
	Ln En. C.	-2.104	-2.319	-4.894***	-4.770***	1
	Ln CO2	-1.751	-2.147	-3.982***	-3.847***	1
	Eco. G.	-1.387	-2.136	-5.467***	-5.461***	1
Japan (1970-2013)	Ln GDP	-3.374**	-0.729	-4.738***	-5.674***	0
	Ln En. C.	-2.213	-0.782	-6.097***	-6.603***	1
	Ln CO2	-1.897	-2.297	-6.437***	-6.486***	1
	Eco. G.	-0.864	-1.605	-5.498***	-5.443***	1
Jordan (1975-2013)	Ln GDP	-1.806	-2.033	-4.953***	-4.855***	1
	Ln En. C.	-5.052***	-3.403	-6.008***	-7.008***	0
	Ln CO2	-3.710***	-3.217	-6.190***	-7.424***	0
	Eco. G.	-0.817	-2.249	-6.380***	-6.304***	1
Kenya (1971-2013)	Ln GDP	-0.053	-1.325	-5.669***	-5.672***	1
	Ln En. C.	-0.522	-1.254	-5.433***	-5.675***	1
	Ln CO2	-0.859	-2.367	-6.625***	-6.550***	1
	Eco. G.	-1.036	-3.523	-5.495***	-5.424***	1
Korea (1971-2013)	Ln GDP	-3.175	-0.148	-5.020***	-6.327***	1
	Ln En. C.	-2.995**	-0.217	-5.312***	-6.433***	0
	Ln CO2	-2.981**	-1.160	-6.029***	-7.402***	0
	Eco. G.	-0.732	-2.721	-6.210***	-6.126***	1
Luxembourg (1970-2013)	Ln GDP	-0.988	-0.705	-4.869***	-4.902***	1
	Ln En. C.	-2.201	-2.595	-5.419***	-5.364***	1
	Ln CO2	-2.234	-2.088	-4.901***	-4.909***	1
	Eco. G.	-0.499	-3.446	-4.507***	-4.359***	1
Malaysia (1971-2013)	Ln GDP	-1.572	-2.256	-5.539***	-5.618***	1
	Ln En. C.	-1.005	-2.043	-6.705***	-6.784***	1
	Ln CO2	-0.748	-1.793	-7.707***	-7.666***	1
	Eco. G.	0.206	-2.940	-7.274***	-7.229***	1
Malta (1971-2013)	Ln GDP	-2.503	-3.267	-2.528	-5.096***	1
	Ln En. C.	-1.619	-0.730	-10.123***	-10.358***	1
	Ln CO2	-1.610	-0.576	-9.409***	-9.673***	1
	Eco. G.	-0.206	-1.844	-7.317***	-7.334***	1
Mauritius	Ln GDP	0.607	-2.562	-5.329***	-5.412***	1
	Ln En. C.	0.151	-2.237	-5.068***	-5.065***	1

(1976-2013)	Ln CO2	-0.617	-1.309	-4.853***	-4.785***	1
	Eco. G.	2.420	-1.510	-4.694***	-1.594	1
Mexico (1971-2013)	Ln GDP	-2.209	-2.785	-5.064***	-5.088***	1
	Ln En. C.	-4.564***	-3.074	-4.567***	-5.075***	0
	Ln CO2	-3.720***	-2.553	-6.694***	-7.647***	0
	Eco. G.	-0.594	-2.405	-7.096***	-7.006***	1
Morocco (1971-2013)	Ln GDP	1.510	-2.678	-11.002***	-10.918***	1
	Ln En. C.	-1.099	-2.555	-5.641***	-5.600***	1
	Ln CO2	-1.712	-3.129	-7.292***	-7.790***	1
	Eco. G.	0.311	-1.099	-7.348***	-7.469***	1
Mozambique (1980-2013)	Ln GDP	0.968	-3.221	-3.623**	-4.063**	1
	Ln En. C.	-1.733	-1.689	-3.690***	-4.831***	1
	Ln CO2	0.074	-2.446	-3.481**	-5.265***	1
	Eco. G.	-1.097	-3.293	-6.739***	-6.597***	1
Myanmar (1971-2013)	Ln GDP	0.907	-0.907	-2.454	-3.066	2
	Ln En. C.	-2.038	-2.394	-4.660***	-4.739***	1
	Ln CO2	-0.503	-2.231	-5.591***	-5.545***	1
	Eco. G.	0.883	-1.872	-2.405	-3.613**	1
Nepal (1971-2013)	Ln GDP	3.324	-1.485	-6.388***	-8.216***	1
	Ln En. C.	0.149	-1.658	-6.147***	-6.224***	1
	Ln CO2	-0.900	-3.089	-6.298***	-6.208***	1
	Eco. G.	0.110	-2.655	-1.489	-2.491	2
Netherlands (1970-2013)	Ln GDP	-1.124	-1.815	-3.895***	-3.975**	1
	Ln En. C.	-3.291**	-2.913	-6.350***	-6.388***	0
	Ln CO2	-2.909	-3.089	-6.813***	-6.777***	1
	Eco. G.	-2.849	-0.840	-5.480***	-6.111***	1
New Zealand (1977-2013)	Ln GDP	-0.741	-2.338	-4.100***	-4.042***	1
	Ln En. C.	-1.115	-1.108	-5.128***	-5.150***	1
	Ln CO2	-0.711	-1.729	-6.093***	-6.064***	1
	Eco. G.	-1.772	0.383	-4.469***	-4.939***	1
Nicaragua (1971-2013)	Ln GDP	-2.969**	-2.717	-4.677***	-5.013***	0
	Ln En. C.	-2.064	-2.290	-5.709***	-5.700***	0
	Ln CO2	-1.109	-3.348	-9.294***	-9.182***	1
	Eco. G.	-0.183	-1.906	-6.821***	-6.839***	1
Nigeria (1971-2013)	Ln GDP	-0.164	-0.314	-5.339***	-5.866***	1
	Ln En. C.	-1.800	-2.671	-5.686***	-5.692***	1
	Ln CO2	-2.254	-2.496	-6.687***	-6.598***	1
	Eco. G.	-0.798	-2.437	-7.846***	-7.751***	1
Norway (1970-2013)	Ln GDP	-2.819	0.233	-2.731	-4.460***	1
	Ln En. C.	-2.660	-3.209	-6.120***	-6.754***	1
	Ln CO2	-1.640	-2.922	-8.674***	-8.565***	1
	Eco. G.	-2.010	-1.249	-2.612	-7.007***	1
	Ln GDP	-1.746	-1.947	-4.886***	-4.981***	1

Oman (1971-2013)	Ln En. C.	-2.692	-2.155	-6.645***	-7.483***	1
	Ln CO2	3.572	-2.990	-4.781***	-7.813***	1
	Eco. G.	-0.078	-1.191	-5.643***	-0.601***	1
Pakistan (1971-2013)	Ln GDP	-1.643	-1.486	-5.625***	-5.841***	1
	Ln En. C.	-1.911	0.722	-4.825***	-5.399***	1
	Ln CO2	-0.958	-0.500	-3.441**	-9.146***	1
	Eco. G.	-0.426	-3.112	-8.105***	-8.048***	1
Panama (1971-2013)	Ln GDP	1.215	-0.767	-4.021***	-4.480***	1
	Ln En. C.	-1.395	-1.382	-5.774***	-5.972***	1
	Ln CO2	-0.481	-2.235	-5.864***	-6.239***	1
	Eco. G.	0.937	-1.573	-5.215***	-5.579***	1
Paraguay (1971-2013)	Ln GDP	-2.411	-2.345	-4.077***	-4.037**	1
	Ln En. C.	-1.735	-2.320	-5.013***	-5.045***	1
	Ln CO2	-2.199	-1.877	-5.918***	-6.204***	1
	Eco. G.	0.239	-2.845	-5.150***	-5.174***	1
Peru (1971-2013)	Ln GDP	-0.484	-0.902	-3.765***	-4.068**	1
	Ln En. C.	-1.056	0.617	-4.341***	-4.853***	1
	Ln CO2	0.254	-1.275	-6.763***	-5.015***	1
	Eco. G.	-0.352	-2.355	-3.724***	-3.659**	1
Philippines (1971-2013)	Ln GDP	-0.120	-1.121	-3.372**	-3.786**	1
	Ln En. C.	-2.606	-2.491	-8.902***	-9.023***	1
	Ln CO2	-0.149	-1.603	-5.748***	-5.675***	1
	Eco. G.	-1.170	-1.259	-5.464***	-5.499***	1
Portugal (1970-2013)	Ln GDP	-1.648	0.681	-3.984***	-4.239***	1
	Ln En. C.	-2.577	0.479	-5.607***	-6.393***	1
	Ln CO2	-2.872	0.190	-2.100	-6.563***	1
	Eco. G.	-0.969	-0.912	-4.985***	-4.998***	1
Saudi Arabia (1971-2013)	Ln GDP	-2.366	-0.877	-3.885***	-5.614***	1
	Ln En. C.	-1.790	-2.955	-3.020**	-3.289	1
	Ln CO2	-1.822	-3.352	-6.543***	-6.553***	1
	Eco. G.	-4.514***	-3.197	-10.615***	-10.636***	0
Senegal (1971-2013)	Ln GDP	-1.454	-1.533	-7.655***	-8.065***	1
	Ln En. C.	-1.554	-1.377	-5.404***	-5.382***	1
	Ln CO2	-1.349	-3.479	-8.509***	-8.401***	1
	Eco. G.	0.684	-1.997	-8.964***	-9.228***	1
Singapore (1971-2013)	Ln GDP	-2.536	-1.950	-5.823***	-6.594***	1
	Ln En. C.	-1.974	-1.557	-7.140***	-7.300***	1
	Ln CO2	-2.666	-2.736	-8.203***	-8.129***	1
	Eco. G.	-3.065**	-4.562***	-5.092***	-5.432***	0
South Africa (1971-2013)	Ln GDP	-0.973	-1.126	-4.136***	-4.187***	1
	Ln En. C.	-2.399	-1.861	-5.974***	-6.265***	1
	Ln CO2	-1.811	-1.412	-5.778***	-6.020***	1
	Eco. G.	-1.489	-2.285	-3.567**	-3.568***	1

Spain (1970-2013)	Ln GDP	-1.674	-1.910	-2.581	-2.911	2
	Ln En. C.	-2.354	-0.174	-4.224***	-5.188***	1
	Ln CO2	-3.385**	-0.966	-4.116***	-4.809***	0
	Eco. G.	-1.689	1.341	-1.268	-4.674***	1
Sudan (1971-2013)	Ln GDP	1.231	0.011	-1.407	-4.271***	1
	Ln En. C.	-2.344	-4.257***	-7.171***	-7.441***	0
	Ln CO2	0.475	-1.876	-8.418***	-9.028***	1
	Eco. G.	-0.330	-1.715	-4.708***	-4.680***	1
Sweden (1970-2013)	Ln GDP	-0.601	-2.595	-4.782***	-4.743***	1
	Ln En. C.	-2.266	-2.064	-8.323***	-8.635***	1
	Ln CO2	-1.589	-2.509	-7.552***	-7.467***	1
	Eco. G.	-2.568	1.841	-3.747***	-2.654	1
Switzerland (1980-2013)	Ln GDP	-0.602	-3.259	-3.990***	-3.925**	1
	Ln En. C.	-2.237	-1.952	-6.370***	-6.742***	1
	Ln CO2	-4.165***	-4.112**	-5.610***	-6.037***	1
	Eco. G.	-1.170	-0.830	-5.189***	-5.398***	1
Thailand (1971-2013)	Ln GDP	-1.260	-1.782	-3.939***	-4.035**	1
	Ln En. C.	0.264	-1.978	-4.823***	-4.783***	1
	Ln CO2	-1.273	-0.930	-4.235***	-4.395***	1
	Eco. G.	0.524	-2.250	-7.361	-7.489***	1
Togo (1971-2013)	Ln GDP	-1.803	-2.663	-6.438***	-6.360***	1
	Ln En. C.	-0.419	-2.518	-6.689***	-6.708***	1
	Ln CO2	-1.713	-4.967***	-9.692***	-9.565***	0
	Eco. G.	-0.931	-1.368	-7.404***	-7.373***	1
Trinidad and Tobago (1971-2013)	Ln GDP	-0.489	-1.503	-2.874	-3.023	2
	Ln En. C.	0.210	-2.234	-6.311***	-6.289***	1
	Ln CO2	-1.269	-2.626	-7.502***	-7.440***	1
	Eco. G.	-0.493	-1.966	-6.072***	-5.979***	1
Tunisia (1971-2013)	Ln GDP	-1.222	-2.675	-9.255***	-9.059***	1
	Ln En. C.	-2.509	-3.346	-9.922***	-10.529***	1
	Ln CO2	-3.289**	-2.174	-7.773***	-8.923***	0
	Eco. G.	-1.195	-2.455	-7.506***	-7.417***	1
Turkey (1970-2013)	Ln GDP	-0.231	-2.792	-6.543***	-6.472***	1
	Ln En. C.	-1.408	-3.526**	-6.022***	-6.024***	0
	Ln CO2	-2.118	-2.910	-5.827***	-6.031***	1
	Eco. G.	-1.051	-1.033	-6.873***	-6.901***	1
UAE (1975-2013)	Ln GDP	-0.844	-2.360	-4.541***	-4.463***	1
	Ln En. C.	-3.853***	-2.729	-4.397***	-6.998***	0
	Ln CO2	-0.884	-3.315	-6.733***	-5.193***	1
	Eco. G.	1.000	-1.152	-4.140***	-4.655***	1
UK	Ln GDP	-1.197	-2.042	-4.266***	-4.354***	1
	Ln En. C.	-0.273	-0.880	-3.979***	-7.673***	1

(1970-2013)	Ln CO2	-0.736	-2.849	-9.668***	-9.550***	1
	Eco. G.	-4.041***	-0.971	-4.814***	-7.105***	0
Uruguay	Ln GDP	-0.524	-2.875	-3.426**	-3.440	1
	Ln En. C.	-0.129	-1.141	-5.232***	-5.482***	1
(1971-2013)	Ln CO2	-1.582	-2.027	-6.271***	-6.346***	1
	Eco. G.	-1.350	-3.470	-4.453***	-4.406***	1
US	Ln GDP	-1.698	-1.951	-4.739***	-4.915***	1
	Ln En. C.	-2.059	-2.694	-4.932***	-4.980***	1
(1970-2013)	Ln CO2	-1.579	-2.128	-4.897***	-4.932***	1
	Eco. G.	-1.816	-1.481	-5.065***	-5.026***	1
Venezuela	Ln GDP	-2.118	-1.399	-5.096***	-5.107***	1
	Ln En. C.	-3.660***	-3.838**	-10.979***	-11.441***	0
(1971-2013)	Ln CO2	-1.162	-2.974	-6.657***	-6.664***	1
	Eco. G.	-1.383	-1.194	-5.184***	-5.241***	1
Zambia	Ln GDP	-1.675	0.897	-0.951	-7.897***	1
	Ln En. C.	-1.440	-0.503	-8.122***	-8.769***	1
(1971-2013)	Ln CO2	-1.268	0.007	-5.932***	-6.443***	1
	Eco. G.	-1.347	-3.869**	-4.677***	-4.650***	0
Zimbabwe	Ln GDP	-1.255	-3.402	-3.976***	-3.873**	1
	Ln En. C.	-1.306	-2.477	-4.357***	-4.291***	1
(1980-2013)	Ln CO2	-1.505	-1.595	-4.471***	-4.420***	1
	Eco. G.	-0.743	-2.549	-6.162***	-6.053***	1

*** Denotes significant at 1% level.

** Denotes significant at 5% level.

C = Constant

C + T = Constant with trend