

Electronic Supplementary Material

Table S1 Long-run estimates

Dependent variable: Potential Energy intensity

	Fully-Modified OLS					Canonical Cointegration					Stock-Watson dynamic OLS				
	M1	M2	M3	M4	M5	M1	M2	M3	M4	M5	M1	M2	M3	M4	M5
lnPE	-0.100 ^a (0.0071)	-0.101 ^a (0.0072)	-0.125 ^a (0.0165)	-0.144 ^a (0.0153)	-0.124 ^a (0.0106)	-0.176 ^a (0.0066)	-0.178 ^a (0.0067)	-0.167 ^a (0.0169)	-0.212 ^a (0.0147)	-0.179 ^a (0.099)	-0.183 ^a (0.0195)	-0.185 ^a (0.0196)	-0.197 ^a (0.0396)	-0.193 ^a (0.0406)	-0.171 ^a (0.0316)
lnROP	-0.064 ^a (0.0209)	-0.062 ^a (0.0214)	-0.095 ^b (0.0509)	-0.148 ^a (0.0432)	-0.074 ^b (0.0333)	-0.154 ^a (0.0241)	-0.154 ^a (0.0245)	-0.241 ^a (0.0581)	-0.297 ^a (0.0472)	-0.153 ^a (0.0382)	-0.167 ^c (0.0817)	-0.172 ^b (0.0807)	-0.451 ^a (0.0976)	-0.415 ^a (0.0888)	-0.410 ^a (0.1163)
lnFD(PS)	-0.087 ^a (0.0275)					-0.391 ^a (0.0254)					-0.434 ^a (0.1100)				
lnFD(PSBK)		-0.160 ^a (0.0284)					-0.400 ^a (0.0267)					-0.439 ^a (0.1121)			
lnFD(M2)			-0.222 ^c (0.1176)					-0.377 ^a (0.1343)					0.065 (0.2446)		
lnFD(M2_R)				-0.101 ^b (0.0468)					-0.143 ^a (0.0477)					-0.081 (0.1213)	
FD(INDEX)					-0.085 ^a (0.0160)					-0.132 ^a (0.0155)					-0.060 (0.0601)
lnTOP	-0.143 ^a (0.0515)	-0.133 ^b (0.0529)	-0.395 ^a (0.1125)	-0.406 ^a (0.1056)	-0.251 ^a (0.0766)	-0.032 (0.0674)	-0.020 (0.0692)	-0.436 ^a (0.1448)	-0.329 ^b (0.1357)	-0.208 ^b (0.1001)	0.019 (0.2345)	0.032 (0.2380)	-0.535 ^b (0.2573)	-0.581 ^b (0.2623)	-0.564 ^c (0.2597)
lnIVA	0.068 (0.0731)	0.133 ^a (0.0747)	0.299 (0.1927)	0.114 (0.1530)	0.309 ^b (0.1161)	0.133 (0.0867)	0.121 (0.0885)	0.296 (0.2198)	0.034 (0.1835)	0.313 ^b (0.1351)	0.118 (0.1822)	0.098 (0.1831)	0.062 (0.3450)	0.185 (0.3070)	0.331 (0.2451)
con	-17.296 ^a (0.1848)	-17.403 ^a (0.1890)	-16.464 ^a (0.3850)	-16.561 ^a (0.3740)	-17.834 ^a (0.3376)	-17.268 ^a (0.2288)	-17.280 ^a (0.2342)	-15.367 ^a (0.4209)	-15.984 ^a (0.4485)	-17.904 ^a (0.4173)	-17.323 ^a (0.8354)	-17.295 ^a (0.8327)	-14.925 ^a (0.8821)	-14.968 ^a (0.9896)	-15.448 ^a (1.5801)

Adj R-square	0.725	0.773	0.865	0.867	0.872	0.967	0.966	0.924	0.925	0.947	0.990	0.990	0.972	0.972	0.988
SER	0.315	0.286	0.221	0.219	0.215	0.109	0.111	0.166	0.164	0.138	0.057	0.058	0.098	0.098	0.063
SSR	3.963	3.280	1.956	1.923	1.852	0.476	0.495	1.098	1.081	0.762	0.076	0.077	0.221	0.219	0.043
LRV	0.004	0.004	0.018	0.016	0.008	0.004	0.004	0.018	0.016	0.008	0.007	0.007	0.016	0.018	0.005

Note: a, b & c denote 1%, 5% & 10% significance. Figures in () denotes standard errors. Long-run covariance estimate (Bartlett Kernel, Newey-West fixed Bandwidth, optimal prewhitening lag selected based on AIC). For the dynamic OLS, the optimal lead-lag was selected based on the Akaike Information Criterion (AIC).

Table S2 Long-run estimates

Dependent variable: Potential Electrical Energy intensity

	Fully-Modified OLS					Canonical Cointegration					Stock-Watson dynamic OLS				
	M1	M2	M3	M4	M5	M1	M2	M3	M4	M5	M1	M2	M3	M4	M5
lnPE	-0.193 ^a (0.0049)	-0.194 ^a (0.0049)	-0.209 ^a (0.0085)	-0.200 ^a (0.0090)	-0.199 ^a (0.0069)	-0.192 ^a (0.0049)	-0.194 ^a (0.0049)	-0.212 ^a (0.0091)	-0.212 ^a (0.0111)	-0.204 ^a (0.0068)	-0.174 ^a (0.0205)	-0.169 ^a (0.0288)	-0.169 ^a (0.0288)	-0.161 ^a (0.0281)	-0.170 ^a (0.0256)
lnROP	-0.113 ^a (0.0144)	-0.114 ^a (0.0145)	-0.184 ^a (0.0263)	-0.160 ^a (0.0257)	-0.132 ^a (0.0216)	-0.122 ^a (0.0167)	-0.122 ^a (0.0168)	-0.195 ^a (0.0308)	-0.183 ^a (0.0291)	-0.140 ^a (0.0248)	-0.203 ^b (0.0859)	-0.203 ^a (0.0843)	-0.369 ^a (0.0711)	-0.348 ^a (0.0613)	-0.301 ^a (0.0939)
lnFD(PS)	-0.151 ^a (0.0189)					-0.150 ^a (0.0189)					-0.201 ^c (0.1157)				
lnFD(PSBK)		-0.153 ^a (0.0192)					-0.152 ^a (0.0193)					-0.209 ^c (0.1170)			
lnFD(M2)			-0.100 (0.0606)					-0.102 (0.0697)					0.132 (0.1781)		
lnFD(M2_R)				0.014 (0.0279)					0.027 (0.0300)					0.071 (0.0838)	
FD(INDEX)					-0.030 ^a (0.0104)					-0.028 ^b (0.0109)					-0.016 (0.0471)
lnTOP	-0.159 ^a (0.0354)	-0.155 ^a (0.0358)	-0.212 ^a (0.0581)	-0.221 ^a (0.0630)	-0.212 ^a (0.0497)	-0.182 ^a (0.0469)	-0.176 ^a (0.0476)	-0.223 ^a (0.0760)	-0.200 ^b (0.0848)	-0.210 ^a (0.0662)	-0.438 ^c (0.2467)	-0.421 (0.2485)	-0.795 ^a (0.1873)	-0.769 ^a (0.1812)	-0.727 ^a (0.2433)
lnIVA	0.226 ^a (0.0502)	0.222 ^a (0.0505)	0.002 (0.0942)	0.062 (0.0913)	0.183 ^b (0.0753)	0.256 ^a (0.0575)	0.248 ^a (0.0581)	0.023 (0.1142)	0.045 (0.1145)	0.186 ^b (0.0881)	0.671 ^a (0.1917)	0.659 ^b (0.1912)	0.619 ^b (0.2511)	0.654 ^a (0.2121)	0.740 ^a (0.2197)
con	-17.886 ^a (0.1269)	-17.885 ^a (0.1279)	-17.380 ^a (0.1986)	-17.293 ^a (0.2249)	-17.791 ^a (0.2189)	-17.843 ^a (0.1514)	-17.847 ^a (0.1529)	-17.366 ^a (0.2285)	-17.286 ^a (0.2710)	-17.786 ^a (0.2690)	-17.585 ^a (0.8789)	-17.603 ^a (0.8695)	-16.131 ^a (0.0642)	-	-16.637 ^a (1.2278)
														16.043 ^a (0.6835)	
Adj R-square	0.948	0.948	0.940	0.939	0.939	0.948	0.948	0.940	0.940	0.939	0.985	0.985	0.982	0.982	0.982

SER	0.126	0.127	0.136	0.137	0.137	0.127	0.127	0.136	0.136	0.137	0.066	0.065	0.072	0.072	0.073
SSR	0.638	0.642	0.740	0.756	0.750	0.642	0.645	0.737	0.738	0.745	0.099	0.099	0.119	0.118	0.122
LRV	0.002	0.002	0.005	0.006	0.004	0.002	0.002	0.005	0.006	0.004	0.008	0.007	0.008	0.009	0.009

Note: a, b & c denote 1%, 5% & 10% significance. Figures in () denotes standard errors. Long-run covariance estimate (Bartlett Kernel, Newey-West fixed Bandwidth, optimal prewhitening lag selected based on AIC). For the dynamic OLS, the optimal lead-lag was selected based on the Akaike Information Criterion (AIC).