Table 1: *Measured values for the global rate of energy consumption a (TW), global real GDP Y (trillion 1990 MER USD per year), global real wealth K (trillion 1990 MER USD), the ratio $\lambda = a/K$ (mW per 1990 MER USD), and the real growth rate of wealth $\eta = Y/K$ (% per year). Italicized quantities are freely available from the UN or DOE. The value of K in 1970 is estimated using historical statistics from Maddison (2003) (see Garrett, 2011a, Appendix C).* ***The core of the proposed study is that λ is a constant that links an economic quantity K to a physical quantity a.***

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
a	*7.2*	*7.5*	*7.9*	*8.3*	*8.4*	*8.4*	*8.8*	*9.1*	*9.3*	*9.8*
Y	*11.5*	*12.0*	*12.7*	*13.5*	*13.8*	*13.9*	*14.6*	*15.2*	*15.9*	*16.5*
$K = \int_0^t Y\,(t')\,dt'$	821	832	844	857	870	884	898	913	927	944
$\eta = Y/K$	1.40	1.44	1.50	1.57	1.58	1.57	1.63	1.66	1.71	1.75
$\lambda = a/K$	**8.8**	**9.0**	**9.3**	**9.7**	**9.6**	**9.4**	**9.8**	**10.0**	**10.0**	**10.4**

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
a	*9.6*	*9.5*	*9.4*	*9.5*	*10.0*	*10.3*	*10.6*	*10.8*	*11.3*	*11.5*
Y	*16.8*	*17.1*	*17.3*	*17.7*	*18.5*	*19.2*	*19.8*	*20.5*	*21.4*	*22.2*
$K = \int_0^t Y\,(t')\,dt'$	960	977	994	1011	1029	1047	1067	1087	1107	1129
$\eta = Y/K$	1.75	1.75	1.74	1.75	1.80	1.83	1.85	1.88	1.93	1.97
$\lambda = a/K$	**10.0**	**9.7**	**9.5**	**9.4**	**9.7**	**9.8**	**9.9**	**10.0**	**10.2**	**10.2**

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
a	*11.7*	*11.6*	*11.6*	*11.7*	*11.9*	*12.2*	*12.5*	*12.7*	*12.9*	*12.9*
Y	*22.3*	*22.6*	*23.0*	*23.4*	*24.1*	*24.8*	*25.6*	*26.6*	*27.2*	*28.1*
$K = \int_0^t Y\,(t')\,dt'$	1151	1173	1196	1219	1242	1266	1291	1317	1343	1370
$\eta = Y/K$	1.93	1.92	1.92	1.92	1.94	1.96	1.99	2.02	2.03	2.05
$\lambda = a/K$	**10.2**	**9.9**	**9.7**	**9.6**	**9.6**	**9.6**	**9.7**	**9.7**	**9.6**	**9.4**

	2000	2001	2002	2003	2004	2005	2006	2007	2008
a	*13.2*	*13.4*	*13.6*	*14.1*	*14.9*	*15.4*	*15.6*	*15.9*	*16.4*
Y	*29.3*	*29.8*	*30.4*	*31.2*	*32.5*	*33.6*	*35.0*	*36.3*	*37.1*
$K = \int_0^t Y\,(t')\,dt'$	1398	1428	1457	1488	1519	1551	1585	1620	1656
$\eta = Y/K$	2.09	2.08	2.08	2.10	2.14	2.17	2.21	2.24	2.24
$\lambda = a/K$	**9.4**	**9.4**	**9.3**	**9.5**	**9.8**	**9.9**	**9.9**	**9.8**	**9.9**