TABLE 3

(1)	(2) Average Annual Rate of Growth of Global GDP (1990-2100)	Average Annual Rate of Decline in Energy Intensity ^a	Primary Energy (EJ) (2100)	(5) Carbon-free energy EJ (2100)	(6) Atmospheric Concentration at (ppmv) (2100)	(7) Amount of Carbon-free Energy Needed to Stabilize Atmospheric CO ₂ Concentration at 550 ppmv		Estimated Average Annual Rate of Decarbonization (decline in C/E) Required to Stabilize CO ₂ Emissions
Scenario								
		(1990-2100)						
A1F1	2.97	-1.30	2073	643 = (20.4 TW)	~1200	~1720 EJ	(54.6 TW)	-1.67
A1B	2.98	-1.25	2226	1146 = (45.9 TW)	~ 800	~1890 EJ	(60 TW)	-1.73
A1T	3.01	-1.37	2021	1717 = (54.5 TW)	~ 650 ^b	~1700 EJ	(54 TW)	-1.64
A2	2.25	-0.78	1717	321 = (10.2 TW)	~1000	~1370 EJ	(43.5 TW)	-1.47
B1	2.53	-2.13	514	268 = (8.5 TW)	~ 550 ^b	~ 175 EJ	(5.3 TW)	-0.40
B2	2.22	-0.96	1357	665 = (21.1 TW)	~ 750	~1000 EJ	(31.5 TW)	-1.26
IS 92a (Hoffert)	2.30	-1.00	~1430		~720		(37 TW)	-1.30

^a Energy intensity is the ratio of energy (E) to output (or GDP = Y)

Source: Calculated from tables in the IPCC, Special Report on Emission Scenarios (2000).

- Col (2) calculated from GDP figures in SRES Tables SPM. 1a, p.13
- Col (3) calculated from energy and GDP figures in SRES Tables SPM-1 and 2a, pp. 13, 15
- Col (4) from SRES Table SPM-2a, p. 15
- Col (5) calculated from SRES Table SPM-2a (and converted to TW). The authors have adjusted the calculations for A2 to be consistent with other numbers in the SRES tables
- Col (6) from SRES Figure SPM-3a, p. 7
- Col (7) estimated by authors
- Col (8) calculated from carbon emission and energy figures in SRES Tables SPM-3a and SPM-2a, pp. 15, 17

b In long-run will stabilize at 450-500 ppmv