

Climate Change

APPENDIX A3

TRANSFORM SCENARIOS PLANT DATA

ELECTRICITY MODULE: ELECTRICITY GEN.

PLANT NAMES, INPUT FUELS & INPUT FUEL SHARES

Plant Name	Input Fuels (Shares)
private gnrtn	DIESEL/GAS OIL (100%)
EDL plant	RESIDUAL/FUELOIL (100%)
New EDL 1	RESIDUAL/FUELOIL (100%)
NEW EDL 2	RESIDUAL/FUELOIL (100%)
NEW EDL 3	NATURAL GAS (100%)
NEW EDL 4	NATURAL GAS (100%)
Private 1	(DIESEL/GAS OIL (100%)100%)
Private 2	DIESEL/GAS OIL (100%)
Private 3	DIESEL/GAS OIL (100%)
Private 4	DIESEL/GAS OIL (100%)

PLANT EFFICIENCIES (IN REPORTING YEARS)

Plant Name	1994	2000	2005	2015	2040
private gnrtn	25.0%	25.0%	25.0%	25.0%	25.0%
EDL plant	42.0%	42.0%	42.0%	42.0%	42.0%
New EDL 1	42.0%	42.0%	42.0%	42.0%	42.0%
NEW EDL 2	42.0%	42.0%	42.0%	42.0%	42.0%
NEW EDL 3	42.0%	42.0%	42.0%	42.0%	42.0%
NEW EDL 4	42.0%	42.0%	42.0%	42.0%	42.0%
Private 1	42.0%	42.0%	42.0%	42.0%	42.0%
Private 2	42.0%	42.0%	42.0%	42.0%	42.0%
Private 3	42.0%	42.0%	42.0%	42.0%	42.0%
Private 4	42.0%	42.0%	42.0%	42.0%	42.0%

EDB LINKS

Plant Name	EDB Link
private gnrtn	ELECTRICITY GENERATION/ENGINE -DIESEL / GENERIC
EDL plant	ELECTRICITY GENERATION/STEAM-RESIDUAL OIL / UTILITY BOILER * LOW NOX BURNER
New EDL 1	NERATION/STEAM-RESIDUAL OIL / UTILITY BOILER * LOW NOX BURNER
NEW EDL 2	ELECTRICITY GENERATION/STEAM-RESIDUAL OIL / UTILITY BOILER * LOW NOX BURNER
NEW EDL 3	ELECTRICITY GENERATION/STEAM-NAT GAS / GENERIC UTILITY BOILER
NEW EDL 4	ELECTRICITY GENERATION/STEAM-NAT GAS / GENERIC UTILITY BOILER
Private 1	ELECTRICITY GENERATION/ENGINE -DIESEL / GENERIC
Private 2	ELECTRICITY GENERATION/ENGINE -DIESEL / GENERIC
Private 3	ELECTRICITY GENERATION/ENGINE -DIESEL / GENERIC
Private 4	ELECTRICITY GENERATION/ENGINE -DIESEL / GENERIC

(CA, Transformation CA-1)

PLANT BASE YEAR OUTPUTS & CAPACITIES

Output Unit: GIGAWATT-HOURS

Capacity Unit: Rate

Plant Name Output	Plant Output in 1994 GWh	Plant Capacity 1994 MW	Plant Capacity 2000 MW	Plant Capacity 2005 MW	Plant Capacity 2015 MW	Plant Capacity 2040 MW
Private gnrtn	1728.0	1142.8	1142.8	1142.8	1142.8	1142.8
EDL plant	1088.0	500.0	500.0	500.0	500.0	500.0
New EDL 1	0.0	0.0	225.0	225.0	225.0	225.0
NEW EDL 2	0.0	0.0	0.0	205.0	205.0	205.0
NEW EDL 3	0.0	0.0	0.0	0.0	622.0	622.0
NEW EDL 4	0.0	0.0	0.0	0.0	0.0	4526.0
Private 1	0.0	0.0	515.0	515.0	515.0	515.0
Private 2	0.0	0.0	0.0	495.0	495.0	495.0
Private 3	0.0	0.0	0.0	0.0	1422.0	1422.0
Private 4	0.0	0.0	0.0	0.0	0.0	10313.0

(CA, Transformation CA-2)

PLANT BASE YEAR OUTPUTS & CAPACITIES

Output Unit: GIGAWATT-HOURS

Capacity Unit: Rate

Plant Name Output	Plant Output in 1994 GWh	Plant Capacity 1994 MW	Plant Capacity 2000 MW	Plant Capacity 2005 MW	Plant Capacity 2015 MW	Plant Capacity 2040 MW
Private gnrtn	1728.0	1142.8	1142.8	1142.8	1142.8	1142.8
EDL plant	1088.0	500.0	500.0	500.0	500.0	500.0
New EDL 1	0.0	0.0	200.0	200.0	200.0	200.0
NEW EDL 2	0.0	0.0	0.0	155.0	155.0	155.0
NEW EDL 3	0.0	0.0	0.0	0.0	84.0	84.0
NEW EDL 4	0.0	0.0	0.0	0.0	0.0	3610.0
Private 1	0.0	0.0	458.0	458.0	458.0	458.0
Private 2	0.0	0.0	0.0	352.0	352.0	352.0
Private 3	0.0	0.0	0.0	0.0	274.0	274.0
Private 4	0.0	0.0	0.0	0.0	0.0	8567.0

**ELECTRICITY GEN.: ENERGY OUTPUTS BY PLANT
(MILLION GIGAJOULES)**

(BA, Transformation BA-1)

Plant Name Output	Plant Output 1994 10 ⁶ GJ	Plant Output 2000 10 ⁶ GJ	Plant Output 2005 10 ⁶ GJ	Plant Output 2015 10 ⁶ GJ	Plant Output 2040 10 ⁶ GJ
Private gnrtn	6.22	3.91	2.34	2.38	2.33
EDL plant	3.92	5.99	7.16	7.29	7.13
New EDL 1	0.0	1.2	1.43	1.46	1.43
NEW EDL 2	0.0	0.0	1.00	1.02	1
NEW EDL 3	0.0	0.0	0.0	2.62	2.57
NEW EDL 4	0.0	0.0	0.0	0.0	7.50
Private 1	0.0	0.89	1.06	1.08	1.06
Private 2	0.0	0.0	0.82	0.83	0.81
Private 3	0.0	0.0	0.0	1.67	1.63
Private 4	0.0	0.0	0.0	0.0	7.33
Total	10.14	11.99	13.82	18.35	35.98

(CA, Transformation CA-1)

Plant Name Output	Plant Output 1994 10 ⁶ GJ	Plant Output 2000 10 ⁶ GJ	Plant Output 2005 10 ⁶ GJ	Plant Output 2015 10 ⁶ GJ	Plant Output 2040 10 ⁶ GJ
Private gnrtn	6.22	3.89	2.25	2.3	2.22
EDL plant	3.92	5.96	6.90	7.04	6.79
New EDL 1	0.0	2.68	3.11	3.17	3.06
NEW EDL 2	0.0	0.0	2.83	2.88	2.78
NEW EDL 3	0.0	0.0	0.0	8.75	8.45
NEW EDL 4	0.0	0.0	0.0	0.0	61.47
Private 1	0.0	1.76	2.03	2.07	2
Private 2	0.0	0.0	1.95	1.99	1.92
Private 3	0.0	0.0	0.0	5.72	5.52
Private 4	0.0	0.0	0.0	0.0	40.02
Total	10.14	14.30	19.08	33.91	134.23

(BA, Transformation BA-2)

Plant Name Output	Plant Output 1994 10 ⁶ GJ	Plant Output 2000 10 ⁶ GJ	Plant Output 2005 10 ⁶ GJ	Plant Output 2015 10 ⁶ GJ	Plant Output 2040 10 ⁶ GJ
Private gnrtn	6.22	3.95	2.23	2.98	2.48
EDL plant	3.92	6.05	6.83	9.11	7.61
New EDL 1	0.0	1.21	1.37	1.82	1.52
NEW EDL 2	0.0	0.0	2.12	2.83	2.36
NEW EDL 3	0.0	0.0	0.0	0	0
NEW EDL 4	0.0	0.0	0.0	0.0	12.95
Private 1	0.0	0.83	0.94	1.25	1.04
Private 2	0.0	0.0	0.44	0.58	0.49
Private 3	0.0	0.0	0.0	0	0
Private 4	0.0	0.0	0.0	0.0	8.46
Total	10.14	12.04	13.91	18.57	36.91

(CA, Transformation CA-2)

Plant Name Output	Plant Output 1994 10 ⁶ GJ	Plant Output 2000 10 ⁶ GJ	Plant Output 2005 10 ⁶ GJ	Plant Output 2015 10 ⁶ GJ	Plant Output 2040 10 ⁶ GJ
Private gnrtn	6.22	4.03	2.49	3.60	2.93
EDL plant	3.92	6.18	7.63	11.04	8.98
New EDL 1	0.0	2.47	3.05	4.42	3.59
NEW EDL 2	0.0	0.0	2.37	3.42	2.79
NEW EDL 3	0.0	0.0	0.0	1.85	1.51
NEW EDL 4	0.0	0.0	0.0	0.0	64.87
Private 1	0.0	1.62	2.00	2.89	2.35
Private 2	0.0	0.0	1.54	2.22	1.81
Private 3	0.0	0.0	0.0	1.73	1.41
Private 4	0.0	0.0	0.0	0.0	43.98
Total	10.14	14.30	19.08	31.17	134.23