

APPENDIX 10C. NATIONAL ENERGY SAVINGS AND NET PRESENT VALUE SENSITIVITY ANALYSIS

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APPENDIX 10C. NATIONAL ENERGY SAVINGS AND NET PRESENT VALUE RESULTS SENSITIVITY ANALYSIS

10C.1 POLYPHASE MOTORS RESULTS

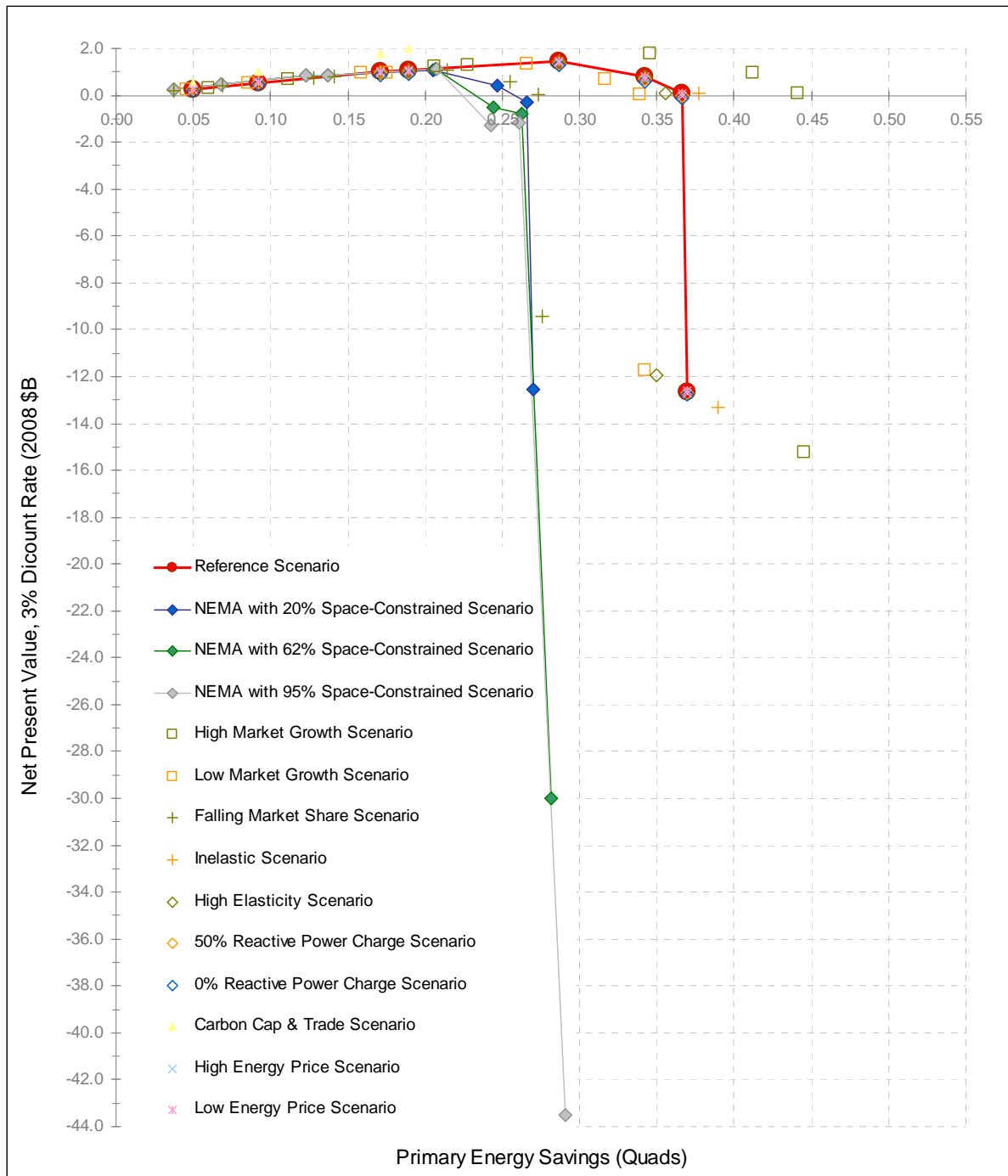


Figure 10C.1.1 Polyphase Motors: Net Present Value (3% Discount Rate) versus Primary Energy Savings

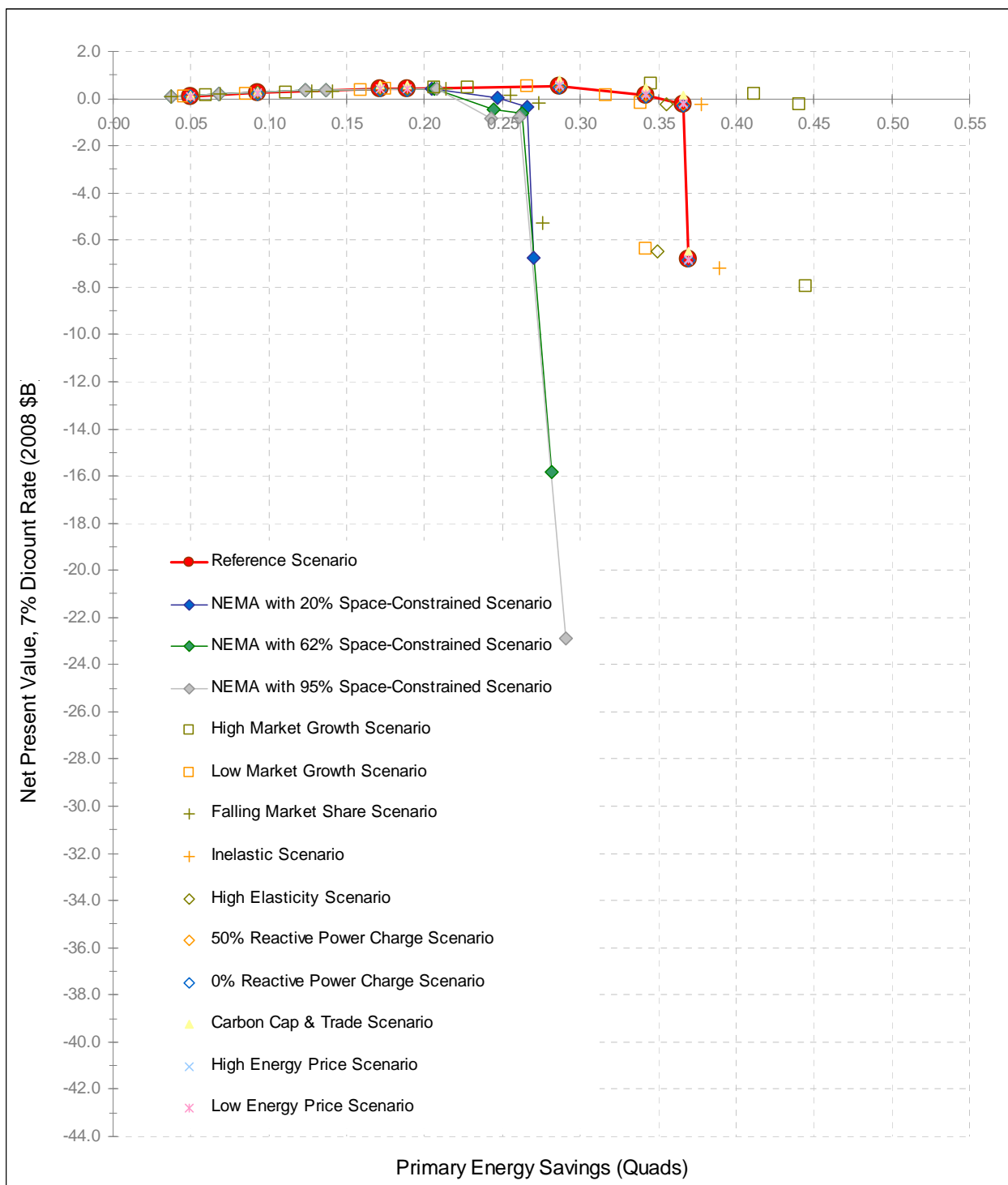


Figure 10C.1.2 Polyphase Motors: Net Present Value (7% Discount Rate) versus Primary Energy Savings

Table 10C.1.1 Polyphase Motors: Reference Scenario

		Trial Standard Level							
		1	2	3	4	4B	5	6	7
Motor Efficiency		76.12%	77.69%	79.39%	80.07%	82.58%	84.42%	85.35%	86.97%
Shipments (Millions)		32.2	32.2	32.2	32.2	32.2	32.2	31.2	30.5
Site Savings	Active Energy (TWh)	6.3	12.8	23.0	25.9	42.8	50.9	54.2	59.1
	Reduced Reactive Power (GVar)	14.3	20.3	42.3	42.9	43.1	52.1	57.9	30.2
Primary Energy Savings (Quads)	Active Energy Savings	0.037	0.074	0.133	0.150	0.248	0.295	0.314	0.342
	Reduced Reactive Losses	0.013	0.018	0.038	0.039	0.039	0.047	0.053	0.027
	Total Savings	0.050	0.093	0.171	0.189	0.287	0.342	0.366	0.370
Discounted Primary Energy Savings (Quads)	3% Discount Rate	0.03	0.05	0.09	0.10	0.15	0.18	0.19	0.20
	7% Discount Rate	0.01	0.02	0.04	0.05	0.07	0.09	0.09	0.09
Equipment Cost Increase (2008 \$B)		0.22	0.36	0.64	0.86	1.77	3.80	5.43	28.59
Discounted Equipment Cost Increase (2008 \$B)	3% Discount Rate	0.12	0.20	0.36	0.48	0.98	2.11	3.02	15.89
	7% Discount Rate	0.06	0.10	0.18	0.25	0.51	1.10	1.56	8.23
Operating Cost Savings (2008 \$B)	Active Energy Savings	0.70	1.41	2.53	2.86	4.72	5.62	5.97	6.51
	Reactive Power Savings	0.11	0.16	0.33	0.33	0.33	0.40	0.45	0.23
	Total Savings	0.81	1.57	2.86	3.19	5.05	6.02	6.42	6.75
Discounted Operating Cost Savings (2008 \$B)	3% Discount Rate	0.39	0.75	1.37	1.53	2.42	2.89	3.08	3.24
	7% Discount Rate	0.17	0.33	0.60	0.66	1.05	1.26	1.34	1.41
Net Present Value (2008 \$B)	3% Discount Rate	0.26	0.55	1.01	1.05	1.44	0.77	0.06	-12.65
	7% Discount Rate	0.10	0.22	0.41	0.42	0.54	0.16	-0.22	-6.82

Table 10C.1.2 Polyphase Motors: NEMA with 20% Space-Constrained Scenario

		Trial Standard Level							
		1	2	3	4	4B	5	6	7
Motor Efficiency Shipments (Millions)		76.12%	77.69%	79.39%	80.07%	82.58%	84.42%	85.35%	86.97%
		30.9	30.9	30.9	30.9	30.9	30.9	30.0	29.3
Site Savings	Active Energy (TWh)	4.8	9.6	16.7	18.9	30.6	36.8	39.5	43.3
	Reduced Reactive Power (GVAR)	13.5	19.2	40.2	40.8	40.9	49.7	55.6	29.0
Primary Energy Savings (Quads)	Active Energy Savings	0.028	0.055	0.097	0.110	0.178	0.214	0.229	0.251
	Reduced Reactive Losses	0.009	0.013	0.027	0.027	0.027	0.033	0.037	0.019
Discounted Primary Energy Savings (Quads)	Total Savings	0.037	0.068	0.123	0.137	0.205	0.247	0.266	0.270
	3% Discount Rate	0.02	0.04	0.07	0.07	0.11	0.13	0.14	0.14
Equipment Cost Increase (2008 \$B) Discounted Equipment Cost Increase (2008 \$B)	7% Discount Rate	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.07
		0.21	0.35	0.62	0.83	1.70	3.66	5.23	27.52
	3% Discount Rate	0.12	0.19	0.34	0.46	0.95	2.04	2.91	15.34
Operating Cost Savings (2008 \$B)	7% Discount Rate	0.06	0.10	0.18	0.24	0.49	1.06	1.52	7.98
	Active Energy Savings	0.62	1.22	2.13	2.41	3.91	4.70	5.04	5.52
Reactive Power Savings		0.10	0.15	0.31	0.32	0.32	0.38	0.43	0.22
Discounted Operating Cost Savings (2008 \$B)	Total Savings	0.72	1.37	2.44	2.73	4.23	5.08	5.47	5.75
	3% Discount Rate	0.35	0.66	1.18	1.32	2.04	2.46	2.64	2.78
Net Present Value (2008 \$B)	7% Discount Rate	0.15	0.29	0.52	0.58	0.90	1.08	1.16	1.22
	3% Discount Rate	0.23	0.47	0.83	0.86	1.10	0.42	-0.27	-12.55
	7% Discount Rate	0.09	0.19	0.34	0.34	0.40	0.02	-0.36	-6.76

Table 10C.1.3 Polyphase Motors: NEMA with 62% Space-Constrained Scenario

		Trial Standard Level							
		1	2	3	4	4B	5	6	7
Motor Efficiency		76.12%	77.69%	79.39%	80.07%	82.58%	84.42%	85.35%	86.97%
Shipments (Millions)		30.9	30.9	30.9	30.9	30.9	30.9	29.3	29.0
Site Savings	Active Energy (TWh)	4.8	9.6	16.7	18.9	30.8	37.4	38.9	44.5
	Reduced Reactive Power (GVar)	13.5	19.2	40.2	40.8	42.1	41.6	55.4	35.6
Primary Energy Savings (Quads)	Active Energy Savings	0.028	0.055	0.097	0.110	0.178	0.217	0.226	0.258
	Reduced Reactive Losses	0.009	0.013	0.027	0.027	0.028	0.028	0.037	0.024
	Total Savings	0.037	0.068	0.123	0.137	0.206	0.244	0.263	0.282
Discounted Primary Energy Savings (Quads)	3% Discount Rate	0.02	0.04	0.07	0.07	0.11	0.13	0.14	0.15
	7% Discount Rate	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.07
Equipment Cost Increase (2008 \$B)		0.21	0.35	0.61	0.83	1.70	5.37	6.07	59.02
Discounted Equipment Cost Increase (2008 \$B)	3% Discount Rate	0.12	0.19	0.34	0.46	0.95	2.99	3.39	32.90
	7% Discount Rate	0.06	0.10	0.18	0.24	0.49	1.56	1.76	17.11
Operating Cost Savings (2008 \$B)	Active Energy Savings	0.62	1.22	2.13	2.41	3.93	4.77	4.97	5.68
	Reactive Power Savings	0.10	0.15	0.31	0.32	0.33	0.32	0.43	0.28
	Total Savings	0.72	1.37	2.44	2.73	4.25	5.09	5.40	5.96
Discounted Operating Cost Savings (2008 \$B)	3% Discount Rate	0.35	0.66	1.18	1.32	2.06	2.46	2.61	2.88
	7% Discount Rate	0.15	0.29	0.52	0.58	0.90	1.08	1.15	1.27
Net Present Value (2008 \$B)	3% Discount Rate	0.23	0.47	0.83	0.86	1.11	-0.53	-0.78	-30.01
	7% Discount Rate	0.09	0.19	0.34	0.34	0.41	-0.48	-0.62	-15.85

Table 10C.1.4 Polyphase Motors: NEMA with 95% Space-Constrained Scenario

		Trial Standard Level							
		1	2	3	4	4B	5	6	7
Motor Efficiency		76.12%	77.69%	79.39%	80.07%	82.58%	84.42%	85.35%	86.97%
Shipments (Millions)		30.9	30.9	30.9	30.9	30.9	30.9	28.9	28.8
Site Savings	Active Energy (TWh)	4.8	9.6	16.7	18.9	30.9	37.8	38.7	45.5
	Reduced Reactive Power (GVar)	13.5	19.2	40.2	40.8	43.0	35.2	55.4	40.8
Primary Energy Savings (Quads)	Active Energy Savings	0.028	0.055	0.097	0.110	0.179	0.219	0.224	0.264
	Reduced Reactive Losses	0.009	0.013	0.027	0.027	0.029	0.023	0.037	0.027
	Total Savings	0.037	0.068	0.123	0.137	0.208	0.243	0.261	0.291
Discounted Primary Energy Savings (Quads)	3% Discount Rate	0.02	0.04	0.07	0.07	0.11	0.13	0.14	0.15
	7% Discount Rate	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.07
Equipment Cost Increase (2008 \$B)		0.21	0.34	0.61	0.82	1.70	6.72	6.73	83.37
Discounted Equipment Cost Increase (2008 \$B)	3% Discount Rate	0.12	0.19	0.34	0.46	0.95	3.74	3.75	46.47
	7% Discount Rate	0.06	0.10	0.18	0.24	0.49	1.95	1.95	24.17
Operating Cost Savings (2008 \$B)	Active Energy Savings	0.62	1.22	2.13	2.41	3.94	4.83	4.93	5.81
	Reactive Power Savings	0.10	0.15	0.31	0.32	0.33	0.27	0.43	0.32
	Total Savings	0.72	1.37	2.44	2.73	4.27	5.10	5.36	6.13
Discounted Operating Cost Savings (2008 \$B)	3% Discount Rate	0.35	0.66	1.18	1.32	2.07	2.47	2.59	2.96
	7% Discount Rate	0.15	0.29	0.52	0.58	0.91	1.08	1.14	1.30
Net Present Value (2008 \$B)	3% Discount Rate	0.23	0.47	0.84	0.86	1.12	-1.28	-1.16	-43.50
	7% Discount Rate	0.09	0.19	0.34	0.34	0.42	-0.86	-0.81	-22.87

Table 10C.1.5 Polyphase Motors: High Market Growth Scenario

		Trial Standard Level							
		1	2	3	4	4B	5	6	7
Motor Efficiency		76.12%	77.69%	79.39%	80.07%	82.58%	84.42%	85.35%	86.97%
Shipments (Millions)		40.0	40.0	40.0	40.0	40.0	40.0	38.9	38.0
Site Savings	Active Energy (TWh)	7.6	15.5	27.8	31.3	51.7	61.5	65.4	71.4
	Reduced Reactive Power (GVar)	17.3	24.4	50.8	51.6	51.9	62.7	69.7	36.4
Primary Energy Savings (Quads)	Active Energy Savings	0.044	0.089	0.160	0.181	0.299	0.355	0.378	0.412
	Reduced Reactive Losses	0.016	0.022	0.046	0.047	0.047	0.057	0.063	0.033
	Total Savings	0.060	0.111	0.206	0.228	0.345	0.412	0.441	0.445
Discounted Primary Energy Savings (Quads)	3% Discount Rate	0.03	0.06	0.11	0.12	0.18	0.21	0.23	0.23
	7% Discount Rate	0.01	0.03	0.05	0.06	0.08	0.10	0.11	0.11
Equipment Cost Increase (2008 \$B)		0.28	0.45	0.80	1.07	2.20	4.73	6.76	35.57
Discounted Equipment Cost Increase (2008 \$B)	3% Discount Rate	0.15	0.24	0.43	0.58	1.19	2.55	3.65	19.19
	7% Discount Rate	0.07	0.12	0.22	0.29	0.59	1.28	1.82	9.60
Operating Cost Savings (2008 \$B)	Active Energy Savings	0.87	1.77	3.18	3.59	5.93	7.05	7.51	8.18
	Reactive Power Savings	0.14	0.20	0.41	0.42	0.42	0.50	0.56	0.29
	Total Savings	1.01	1.97	3.59	4.01	6.35	7.56	8.07	8.48
Discounted Operating Cost Savings (2008 \$B)	3% Discount Rate	0.47	0.92	1.67	1.87	2.96	3.52	3.76	3.95
	7% Discount Rate	0.20	0.38	0.70	0.78	1.24	1.48	1.57	1.66
Net Present Value (2008 \$B)	3% Discount Rate	0.32	0.67	1.24	1.29	1.77	0.97	0.11	-15.24
	7% Discount Rate	0.12	0.26	0.48	0.49	0.65	0.20	-0.25	-7.94

Table 10C.1.6 Polyphase Motors: Low Market Growth Scenario

		Trial Standard Level							
		1	2	3	4	4B	5	6	7
Motor Efficiency		76.12%	77.69%	79.39%	80.07%	82.58%	84.42%	85.35%	86.97%
Shipments (Millions)		29.7	29.7	29.7	29.7	29.7	29.7	28.8	28.1
Site Savings	Active Energy (TWh)	5.8	11.8	21.2	24.0	39.6	47.1	50.1	54.6
	Reduced Reactive Power (GVar)	13.3	18.8	39.1	39.7	39.9	48.2	53.6	28.0
Primary Energy Savings (Quads)	Active Energy Savings	0.034	0.069	0.123	0.139	0.229	0.273	0.290	0.317
	Reduced Reactive Losses	0.012	0.017	0.035	0.036	0.036	0.044	0.049	0.025
	Total Savings	0.046	0.086	0.159	0.175	0.266	0.317	0.339	0.342
Discounted Primary Energy Savings (Quads)	3% Discount Rate	0.02	0.05	0.08	0.09	0.14	0.17	0.18	0.18
	7% Discount Rate	0.01	0.02	0.04	0.04	0.07	0.08	0.09	0.09
Equipment Cost Increase (2008 \$B)		0.20	0.33	0.59	0.80	1.63	3.51	5.01	26.35
Discounted Equipment Cost Increase (2008 \$B)	3% Discount Rate	0.11	0.19	0.33	0.44	0.91	1.96	2.79	14.71
	7% Discount Rate	0.06	0.10	0.17	0.23	0.47	1.02	1.46	7.66
Operating Cost Savings (2008 \$B)	Active Energy Savings	0.64	1.30	2.33	2.63	4.35	5.17	5.50	6.00
	Reactive Power Savings	0.10	0.14	0.30	0.30	0.31	0.37	0.41	0.21
	Total Savings	0.74	1.44	2.63	2.94	4.65	5.54	5.91	6.21
Discounted Operating Cost Savings (2008 \$B)	3% Discount Rate	0.36	0.69	1.27	1.41	2.24	2.67	2.85	2.99
	7% Discount Rate	0.16	0.30	0.55	0.62	0.98	1.17	1.25	1.31
Net Present Value (2008 \$B)	3% Discount Rate	0.24	0.51	0.94	0.97	1.33	0.71	0.05	-11.71
	7% Discount Rate	0.10	0.21	0.38	0.39	0.51	0.15	-0.21	-6.35

Table 10C.1.7 Polyphase Motors: Falling Market Share Scenario

		Trial Standard Level							
		1	2	3	4	4B	5	6	7
Motor Efficiency		76.12%	77.69%	79.39%	80.07%	82.58%	84.42%	85.35%	86.97%
Shipments (Millions)		23.3	23.3	23.3	23.3	23.3	23.3	22.6	22.1
Site Savings	Active Energy (TWh)	4.7	9.5	17.0	19.2	31.7	37.8	40.2	43.8
	Reduced Reactive Power (GVar)	10.7	15.2	31.5	32.0	32.2	38.9	43.2	22.6
Primary Energy Savings (Quads)	Active Energy Savings	0.027	0.055	0.099	0.112	0.185	0.220	0.234	0.255
	Reduced Reactive Losses	0.010	0.014	0.029	0.029	0.029	0.035	0.039	0.021
	Total Savings	0.037	0.069	0.128	0.141	0.214	0.255	0.273	0.276
Discounted Primary Energy Savings (Quads)	3% Discount Rate	0.02	0.04	0.07	0.08	0.12	0.14	0.15	0.15
	7% Discount Rate	0.01	0.02	0.03	0.04	0.06	0.07	0.07	0.07
Equipment Cost Increase (2008 \$B)		0.16	0.26	0.46	0.62	1.28	2.75	3.93	20.67
Discounted Equipment Cost Increase (2008 \$B)	3% Discount Rate	0.09	0.15	0.27	0.36	0.73	1.58	2.25	11.85
	7% Discount Rate	0.05	0.08	0.14	0.19	0.39	0.85	1.21	6.37
Operating Cost Savings (2008 \$B)	Active Energy Savings	0.50	1.01	1.81	2.05	3.38	4.02	4.28	4.66
	Reactive Power Savings	0.08	0.11	0.23	0.24	0.24	0.29	0.32	0.17
	Total Savings	0.58	1.12	2.05	2.28	3.62	4.31	4.60	4.83
Discounted Operating Cost Savings (2008 \$B)	3% Discount Rate	0.29	0.56	1.01	1.13	1.79	2.13	2.27	2.39
	7% Discount Rate	0.13	0.25	0.46	0.51	0.81	0.96	1.03	1.08
Net Present Value (2008 \$B)	3% Discount Rate	0.19	0.41	0.75	0.77	1.06	0.56	0.02	-9.45
	7% Discount Rate	0.08	0.17	0.31	0.32	0.41	0.12	-0.18	-5.29

Table 10C.1.8 Polyphase Motors: Middle Inelasticity Scenario

		Trial Standard Level							
		1	2	3	4	4B	5	6	7
Motor Efficiency		76.12%	77.69%	79.39%	80.07%	82.58%	84.42%	85.35%	86.97%
Shipments (Millions)		32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
Site Savings	Active Energy (TWh)	6.3	12.8	23.0	25.9	42.8	50.9	55.8	62.2
	Reduced Reactive Power (GVar)	14.3	20.3	42.3	42.9	43.1	52.1	59.7	31.9
Primary Energy Savings (Quads)	Active Energy Savings	0.037	0.074	0.133	0.150	0.248	0.295	0.323	0.360
	Reduced Reactive Losses	0.013	0.018	0.038	0.039	0.039	0.047	0.054	0.029
	Total Savings	0.050	0.093	0.171	0.189	0.287	0.342	0.377	0.389
Discounted Primary Energy Savings (Quads)	3% Discount Rate	0.03	0.05	0.09	0.10	0.15	0.18	0.20	0.21
	7% Discount Rate	0.01	0.02	0.04	0.05	0.07	0.09	0.10	0.10
Equipment Cost Increase (2008 \$B)		0.22	0.36	0.64	0.86	1.77	3.80	5.60	30.11
Discounted Equipment Cost Increase (2008 \$B)	3% Discount Rate	0.12	0.20	0.36	0.48	0.98	2.11	3.11	16.73
	7% Discount Rate	0.06	0.10	0.18	0.25	0.51	1.10	1.61	8.67
Operating Cost Savings (2008 \$B)	Active Energy Savings	0.70	1.41	2.53	2.86	4.72	5.62	6.15	6.86
	Reactive Power Savings	0.11	0.16	0.33	0.33	0.33	0.40	0.46	0.25
	Total Savings	0.81	1.57	2.86	3.19	5.05	6.02	6.61	7.11
Discounted Operating Cost Savings (2008 \$B)	3% Discount Rate	0.39	0.75	1.37	1.53	2.42	2.89	3.17	3.41
	7% Discount Rate	0.17	0.33	0.60	0.66	1.05	1.26	1.38	1.49
Net Present Value (2008 \$B)	3% Discount Rate	0.26	0.55	1.01	1.05	1.44	0.77	0.06	-13.32
	7% Discount Rate	0.10	0.22	0.41	0.42	0.54	0.16	-0.23	-7.19

Table 10C.1.9 Polyphase Motors: High Elasticity Scenario

		Trial Standard Level							
		1	2	3	4	4B	5	6	7
Motor Efficiency		76.12%	77.69%	79.39%	80.07%	82.58%	84.42%	85.35%	86.97%
Shipments (Millions)		32.2	32.2	32.2	32.2	32.2	32.2	30.3	28.9
Site Savings	Active Energy (TWh)	6.3	12.8	23.0	25.9	42.8	50.9	52.5	55.9
	Reduced Reactive Power (GVar)	14.3	20.3	42.3	42.9	43.1	52.1	56.2	28.6
Primary Energy Savings (Quads)	Active Energy Savings	0.037	0.074	0.133	0.150	0.248	0.295	0.304	0.324
	Reduced Reactive Losses	0.013	0.018	0.038	0.039	0.039	0.047	0.051	0.026
	Total Savings	0.050	0.093	0.171	0.189	0.287	0.342	0.355	0.350
Discounted Primary Energy Savings (Quads)	3% Discount Rate	0.03	0.05	0.09	0.10	0.15	0.18	0.19	0.19
	7% Discount Rate	0.01	0.02	0.04	0.05	0.07	0.09	0.09	0.09
Equipment Cost Increase (2008 \$B)		0.22	0.36	0.64	0.86	1.77	3.80	5.27	27.06
Discounted Equipment Cost Increase (2008 \$B)	3% Discount Rate	0.12	0.20	0.36	0.48	0.98	2.11	2.93	15.04
	7% Discount Rate	0.06	0.10	0.18	0.25	0.51	1.10	1.52	7.79
Operating Cost Savings (2008 \$B)	Active Energy Savings	0.70	1.41	2.53	2.86	4.72	5.62	5.80	6.17
	Reactive Power Savings	0.11	0.16	0.33	0.33	0.33	0.40	0.43	0.22
	Total Savings	0.81	1.57	2.86	3.19	5.05	6.02	6.23	6.39
Discounted Operating Cost Savings (2008 \$B)	3% Discount Rate	0.39	0.75	1.37	1.53	2.42	2.89	2.99	3.07
	7% Discount Rate	0.17	0.33	0.60	0.66	1.05	1.26	1.30	1.33
Net Present Value (2008 \$B)	3% Discount Rate	0.26	0.55	1.01	1.05	1.44	0.77	0.06	-11.97
	7% Discount Rate	0.10	0.22	0.41	0.42	0.54	0.16	-0.22	-6.46

Table 10C.1.10 Polyphase Motors: 50% Reactive Power Charge Scenario

		Trial Standard Level							
		1	2	3	4	4B	5	6	7
Motor Efficiency		76.12%	77.69%	79.39%	80.07%	82.58%	84.42%	85.35%	86.97%
Shipments (Millions)		32.2	32.2	32.2	32.2	32.2	32.2	31.2	30.5
Site Savings	Active Energy (TWh)	6.3	12.8	23.0	25.9	42.8	50.9	54.2	59.1
	Reduced Reactive Power (GVar)	14.3	20.3	42.3	42.9	43.1	52.1	57.9	30.2
Primary Energy Savings (Quads)	Active Energy Savings	0.037	0.074	0.133	0.150	0.248	0.295	0.314	0.342
	Reduced Reactive Losses	0.013	0.018	0.038	0.039	0.039	0.047	0.053	0.027
Discounted Primary Energy Savings (Quads)	Total Savings	0.050	0.093	0.171	0.189	0.287	0.342	0.366	0.370
	3% Discount Rate	0.03	0.05	0.09	0.10	0.15	0.18	0.19	0.20
Equipment Cost Increase (2008 \$B) Discounted Equipment Cost Increase (2008 \$B)	7% Discount Rate	0.01	0.02	0.04	0.05	0.07	0.09	0.09	0.09
		0.22	0.36	0.64	0.86	1.77	3.80	5.43	28.59
	3% Discount Rate	0.12	0.20	0.36	0.48	0.98	2.11	3.02	15.89
Operating Cost Savings (2008 \$B)	7% Discount Rate	0.06	0.10	0.18	0.25	0.51	1.10	1.56	8.23
	Active Energy Savings	0.70	1.41	2.53	2.86	4.72	5.62	5.97	6.51
Reactive Power Savings		0.06	0.08	0.16	0.17	0.17	0.20	0.22	0.12
Discounted Operating Cost Savings (2008 \$B)	Total Savings	0.75	1.49	2.70	3.02	4.89	5.82	6.20	6.63
	3% Discount Rate	0.36	0.71	1.29	1.45	2.35	2.79	2.98	3.18
Net Present Value (2008 \$B)	7% Discount Rate	0.16	0.31	0.56	0.63	1.02	1.22	1.30	1.39
	3% Discount Rate	0.24	0.51	0.94	0.97	1.36	0.68	-0.04	-12.70
	7% Discount Rate	0.09	0.21	0.38	0.38	0.51	0.12	-0.27	-6.85

Table 10C.1.11 Polyphase Motors: 0% Reactive Power Charge Scenario

		Trial Standard Level							
		1	2	3	4	4B	5	6	7
Motor Efficiency		76.12%	77.69%	79.39%	80.07%	82.58%	84.42%	85.35%	86.97%
Shipments (Millions)		32.2	32.2	32.2	32.2	32.2	32.2	31.2	30.5
Site Savings	Active Energy (TWh)	6.3	12.8	23.0	25.9	42.8	50.9	54.2	59.1
	Reduced Reactive Power (GVar)	14.3	20.3	42.3	42.9	43.1	52.1	57.9	30.2
Primary Energy Savings (Quads)	Active Energy Savings	0.037	0.074	0.133	0.150	0.248	0.295	0.314	0.342
	Reduced Reactive Losses	0.013	0.018	0.038	0.039	0.039	0.047	0.053	0.027
	Total Savings	0.050	0.093	0.171	0.189	0.287	0.342	0.366	0.370
Discounted Primary Energy Savings (Quads)	3% Discount Rate	0.03	0.05	0.09	0.10	0.15	0.18	0.19	0.20
	7% Discount Rate	0.01	0.02	0.04	0.05	0.07	0.09	0.09	0.09
Equipment Cost Increase (2008 \$B)		0.22	0.36	0.64	0.86	1.77	3.80	5.43	28.59
Discounted Equipment Cost Increase (2008 \$B)	3% Discount Rate	0.12	0.20	0.36	0.48	0.98	2.11	3.02	15.89
	7% Discount Rate	0.06	0.10	0.18	0.25	0.51	1.10	1.56	8.23
Operating Cost Savings (2008 \$B)	Active Energy Savings	0.70	1.41	2.53	2.86	4.72	5.62	5.97	6.51
	Reactive Power Savings	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total Savings	0.70	1.41	2.53	2.86	4.72	5.62	5.97	6.51
Discounted Operating Cost Savings (2008 \$B)	3% Discount Rate	0.33	0.68	1.22	1.37	2.27	2.70	2.87	3.13
	7% Discount Rate	0.15	0.30	0.53	0.60	0.99	1.18	1.25	1.36
Net Present Value (2008 \$B)	3% Discount Rate	0.21	0.48	0.86	0.89	1.28	0.59	-0.15	-12.76
	7% Discount Rate	0.08	0.19	0.35	0.35	0.48	0.08	-0.31	-6.87

Table 10C.1.12 Polyphase Motors: Carbon Cap & Trade Scenario

		Trial Standard Level							
		1	2	3	4	4B	5	6	7
Motor Efficiency		76.12%	77.69%	79.39%	80.07%	82.58%	84.42%	85.35%	86.97%
Shipments (Millions)		32.2	32.2	32.2	32.2	32.2	32.2	31.2	30.5
Site Savings	Active Energy (TWh)	6.3	12.8	23.0	25.9	42.8	50.9	54.2	59.1
	Reduced Reactive Power (GVar)	14.3	20.3	42.3	42.9	43.1	52.1	57.9	30.2
Primary Energy Savings (Quads)	Active Energy Savings	0.037	0.074	0.133	0.150	0.248	0.295	0.314	0.342
	Reduced Reactive Losses	0.013	0.018	0.038	0.039	0.039	0.047	0.053	0.027
	Total Savings	0.050	0.093	0.171	0.189	0.287	0.342	0.366	0.370
Discounted Primary Energy Savings (Quads)	3% Discount Rate	0.03	0.05	0.09	0.10	0.15	0.18	0.19	0.20
	7% Discount Rate	0.01	0.02	0.04	0.05	0.07	0.09	0.09	0.09
Equipment Cost Increase (2008 \$B)		0.22	0.36	0.64	0.86	1.77	3.80	5.43	28.59
Discounted Equipment Cost Increase (2008 \$B)	3% Discount Rate	0.12	0.20	0.36	0.48	0.98	2.11	3.02	15.89
	7% Discount Rate	0.06	0.10	0.18	0.25	0.51	1.10	1.56	8.23
Operating Cost Savings (2008 \$B)	Active Energy Savings	0.95	1.93	3.46	3.91	6.45	7.67	8.16	8.90
	Reactive Power Savings	0.15	0.22	0.45	0.46	0.46	0.56	0.62	0.32
	Total Savings	1.10	2.14	3.91	4.36	6.91	8.23	8.78	9.22
Discounted Operating Cost Savings (2008 \$B)	3% Discount Rate	0.51	0.99	1.81	2.02	3.19	3.81	4.06	4.27
	7% Discount Rate	0.21	0.41	0.75	0.84	1.33	1.58	1.69	1.78
Net Present Value (2008 \$B)	3% Discount Rate	0.39	0.79	1.45	1.54	2.21	1.69	1.04	-11.62
	7% Discount Rate	0.15	0.31	0.57	0.59	0.82	0.49	0.12	-6.46

Table 10C.1.13 Polyphase Motors: High Energy Price Scenario

		Trial Standard Level							
		1	2	3	4	4B	5	6	7
Motor Efficiency		76.12%	77.69%	79.39%	80.07%	82.58%	84.42%	85.35%	86.97%
Shipments (Millions)		32.2	32.2	32.2	32.2	32.2	32.2	31.2	30.5
Site Savings	Active Energy (TWh)	6.3	12.8	23.0	25.9	42.8	50.9	54.2	59.1
	Reduced Reactive Power (GVar)	14.3	20.3	42.3	42.9	43.1	52.1	57.9	30.2
Primary Energy Savings (Quads)	Active Energy Savings	0.037	0.074	0.133	0.150	0.248	0.295	0.314	0.342
	Reduced Reactive Losses	0.013	0.018	0.038	0.039	0.039	0.047	0.053	0.027
	Total Savings	0.050	0.093	0.171	0.189	0.287	0.342	0.366	0.370
Discounted Primary Energy Savings (Quads)	3% Discount Rate	0.03	0.05	0.09	0.10	0.15	0.18	0.19	0.20
	7% Discount Rate	0.01	0.02	0.04	0.05	0.07	0.09	0.09	0.09
Equipment Cost Increase (2008 \$B)		0.22	0.36	0.64	0.86	1.77	3.80	5.43	28.59
Discounted Equipment Cost Increase (2008 \$B)	3% Discount Rate	0.12	0.20	0.36	0.48	0.98	2.11	3.02	15.89
	7% Discount Rate	0.06	0.10	0.18	0.25	0.51	1.10	1.56	8.23
Operating Cost Savings (2008 \$B)	Active Energy Savings	0.68	1.38	2.47	2.79	4.60	5.48	5.83	6.35
	Reactive Power Savings	0.11	0.15	0.32	0.32	0.32	0.39	0.44	0.23
	Total Savings	0.79	1.53	2.79	3.11	4.93	5.87	6.26	6.58
Discounted Operating Cost Savings (2008 \$B)	3% Discount Rate	0.38	0.73	1.33	1.49	2.36	2.81	3.00	3.15
	7% Discount Rate	0.16	0.32	0.58	0.65	1.02	1.22	1.30	1.37
Net Present Value (2008 \$B)	3% Discount Rate	0.25	0.53	0.98	1.01	1.38	0.70	-0.02	-12.73
	7% Discount Rate	0.10	0.21	0.39	0.40	0.51	0.12	-0.26	-6.86

Table 10C.1.14 Polyphase Motors: Low Energy Price Scenario

		Trial Standard Level							
		1	2	3	4	4B	5	6	7
Motor Efficiency		76.12%	77.69%	79.39%	80.07%	82.58%	84.42%	85.35%	86.97%
Shipments (Millions)		32.2	32.2	32.2	32.2	32.2	32.2	31.2	30.5
Site Savings	Active Energy (TWh)	6.3	12.8	23.0	25.9	42.8	50.9	54.2	59.1
	Reduced Reactive Power (GVar)	14.3	20.3	42.3	42.9	43.1	52.1	57.9	30.2
Primary Energy Savings (Quads)	Active Energy Savings	0.037	0.074	0.133	0.150	0.248	0.295	0.314	0.342
	Reduced Reactive Losses	0.013	0.018	0.038	0.039	0.039	0.047	0.053	0.027
	Total Savings	0.050	0.093	0.171	0.189	0.287	0.342	0.366	0.370
Discounted Primary Energy Savings (Quads)	3% Discount Rate	0.03	0.05	0.09	0.10	0.15	0.18	0.19	0.20
	7% Discount Rate	0.01	0.02	0.04	0.05	0.07	0.09	0.09	0.09
Equipment Cost Increase (2008 \$B)		0.22	0.36	0.64	0.86	1.77	3.80	5.43	28.59
Discounted Equipment Cost Increase (2008 \$B)	3% Discount Rate	0.12	0.20	0.36	0.48	0.98	2.11	3.02	15.89
	7% Discount Rate	0.06	0.10	0.18	0.25	0.51	1.10	1.56	8.23
Operating Cost Savings (2008 \$B)	Active Energy Savings	0.70	1.42	2.54	2.87	4.73	5.63	5.99	6.53
	Reactive Power Savings	0.11	0.16	0.33	0.33	0.33	0.40	0.45	0.23
	Total Savings	0.81	1.57	2.87	3.20	5.06	6.03	6.44	6.76
Discounted Operating Cost Savings (2008 \$B)	3% Discount Rate	0.39	0.76	1.38	1.54	2.44	2.91	3.11	3.27
	7% Discount Rate	0.17	0.33	0.60	0.68	1.07	1.28	1.36	1.43
Net Present Value (2008 \$B)	3% Discount Rate	0.27	0.56	1.03	1.06	1.46	0.80	0.09	-12.62
	7% Discount Rate	0.11	0.23	0.42	0.43	0.56	0.18	-0.20	-6.80

10C.2 CAPACITOR-START RUN MOTORS RESULTS

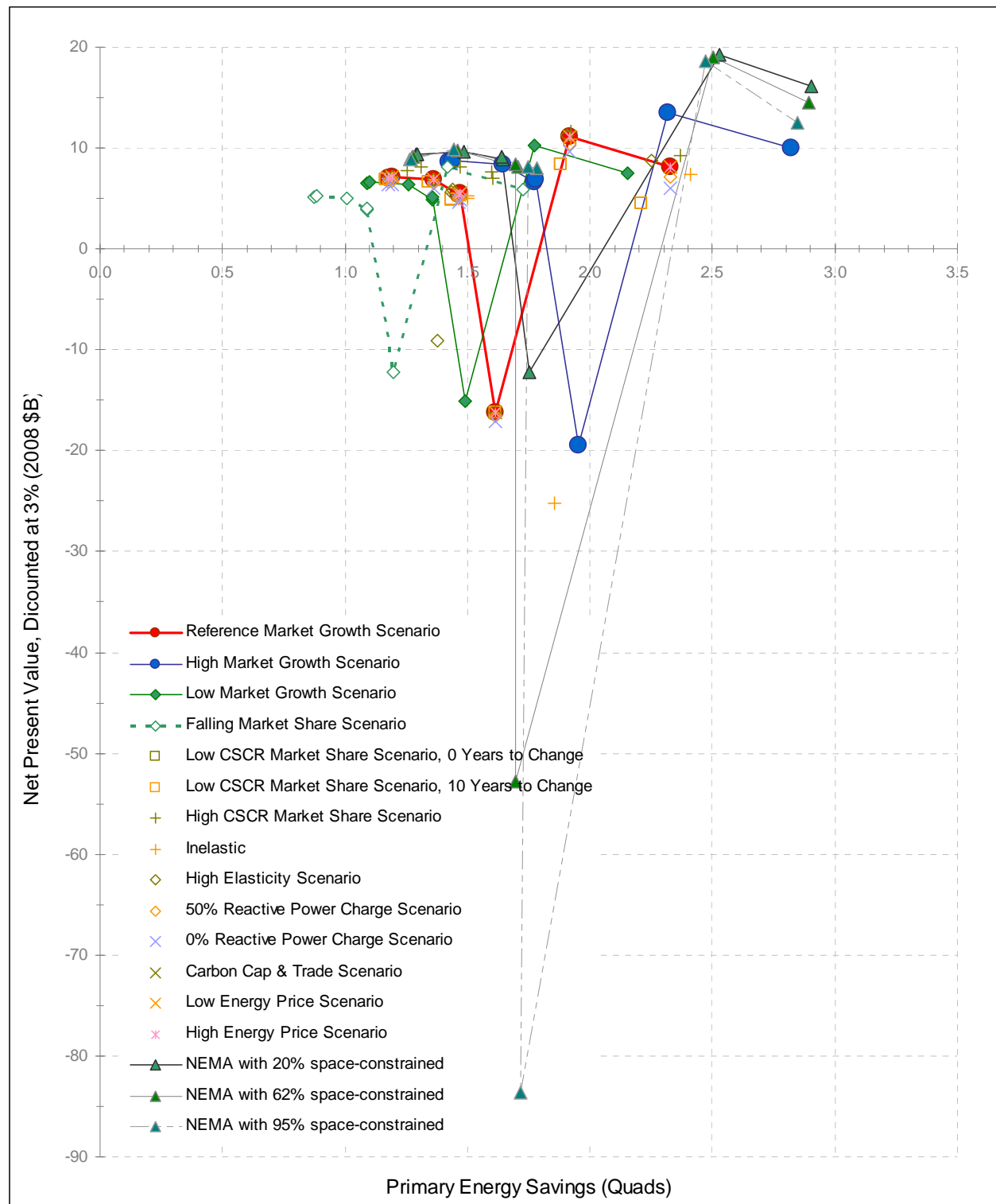


Figure 10C.2.1 Capacitor Start Motors: Net Present Value (3% Discount Rate) versus Primary Energy Savings

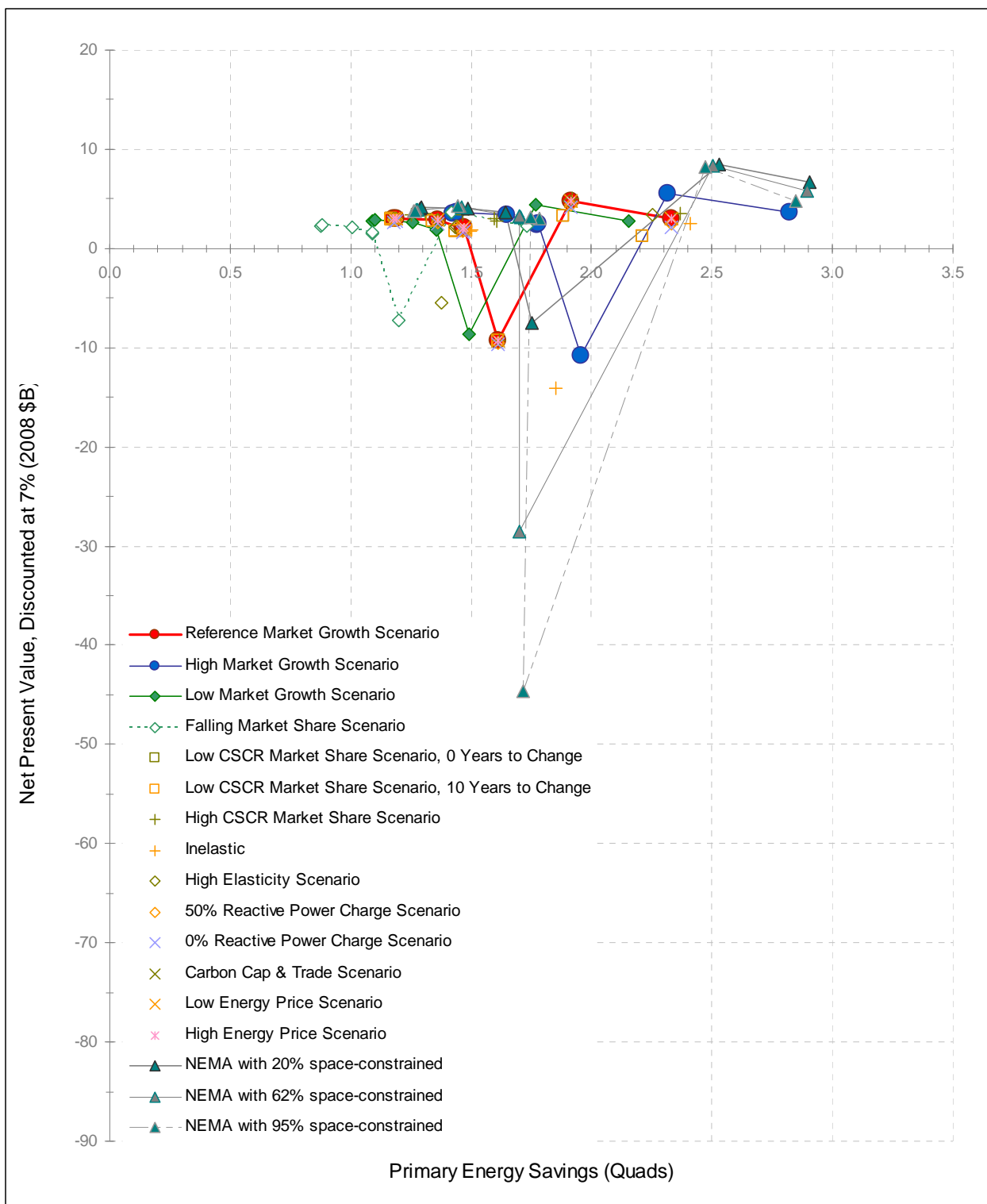


Figure 10C.2.2 Capacitor Start Motors: Net Present Value (7% Discount Rate) versus Primary Energy Savings

Table 10C.2.1 Capacitor Start Motors: Reference Case

		Trial Standard Level							
		1	2	3	4	5	6	7	8
CSIR Motor Efficiency	Level	4	4	5	6	6	7	7	7
	Rating at 1/2 HP (%)	68.50%	68.50%	71.20%	73.00%	73.00%	77.00%	77.00%	77.00%
CSCR Motor Efficiency	Level	2	3	3	4	3	8	3	7
	Rating at 1/2 HP (%)	73.70%	75.99%	75.99%	77.50%	75.99%	84.22%	75.99%	81.96%
Shipments (Millions)	CSIR Motors	138.3	137.5	137.2	131.5	129.7	122.9	4.4	9.1
	CSCR Motors	1.7	2.4	2.8	5.5	7.3	0.0	135.0	126.1
Site Savings	Active Energy Savings (TWh)	171.1	172.7	195.1	219.0	220.4	240.8	263.5	303.3
	Reduced Reactive Power (GVar)	196.8	199.6	242.1	207.3	201.5	230.0	410.3	608.6
Primary Energy Savings (Quads)	Active Energy Savings	0.99	1.00	1.13	1.27	1.28	1.40	1.53	1.76
	Reduced Reactive Losses	0.18	0.19	0.23	0.19	0.19	0.21	0.38	0.57
	Total Savings	1.18	1.19	1.36	1.47	1.47	1.61	1.91	2.33
Discounted Primary Energy Savings (Quads)	3% Discount Rate	0.63	0.64	0.73	0.79	0.79	0.87	1.03	1.25
	7% Discount Rate	0.31	0.31	0.36	0.39	0.39	0.43	0.51	0.62
Equipment Cost Increase (2008 \$B)		4.0	4.0	6.8	11.4	11.1	52.4	6.4	16.5
Discounted Equipment Cost Increase (2008 \$B)	3% Discount Rate	2.2	2.2	3.8	6.4	6.2	29.1	3.6	9.2
	7% Discount Rate	1.2	1.2	1.9	3.3	3.2	15.1	1.8	4.8
Operating Cost Savings (2008 \$B)	Active Energy Savings	17.4	17.5	19.8	22.3	22.4	24.5	26.8	30.8
	Reactive Power Savings	1.4	1.4	1.7	1.5	1.4	1.6	2.9	4.3
	Total Savings	18.8	19.0	21.5	23.7	23.8	26.1	29.7	35.1
Discounted Operating Cost Savings (2008 \$B)	3% Discount Rate	9.3	9.4	10.6	11.7	11.8	12.9	14.6	17.3
	7% Discount Rate	4.2	4.2	4.8	5.3	5.3	5.8	6.6	7.8
Net Present Value (2008 \$B)	3% Discount Rate	7.0	7.1	6.9	5.4	5.6	-16.2	11.1	8.1
	7% Discount Rate	3.0	3.1	2.8	2.0	2.1	-9.3	4.7	3.0

Table 10C.2.2 Capacitor Start Motors: NEMA with 20% Space-Constrained Scenario

		Trial Standard Level							
		1	2	3	4	5	6	7	8
CSIR Motor Efficiency	Level	4	4	5	6	6	7	7	7
	Rating at 1/2 HP (%)	68.50%	68.50%	71.20%	73.00%	73.00%	77.00%	77.00%	77.00%
CSCR Motor Efficiency	Level	2	3	3	4	3	8	3	7
	Rating at 1/2 HP (%)	73.70%	75.99%	75.99%	77.50%	75.99%	84.22%	75.99%	81.96%
Shipments (Millions)	CSIR Motors	132.1	132.0	131.2	124.1	122.7	118.0	2.8	7.8
	CSCR Motors	2.3	2.4	3.2	7.5	8.9	0.0	131.2	122.2
Site Savings	Active Energy Savings (TWh)	187.3	188.3	213.8	244.7	246.6	261.9	366.4	394.8
	Reduced Reactive Power (GVar)	198.4	199.2	242.3	217.9	205.5	228.9	393.8	601.9
Primary Energy Savings (Quads)	Active Energy Savings	1.09	1.09	1.24	1.42	1.43	1.52	2.13	2.29
	Reduced Reactive Losses	0.20	0.20	0.25	0.22	0.21	0.23	0.40	0.61
	Total Savings	1.29	1.30	1.49	1.64	1.64	1.75	2.53	2.90
Discounted Primary Energy Savings (Quads)	3% Discount Rate	0.69	0.70	0.80	0.88	0.88	0.94	1.36	1.56
	7% Discount Rate	0.34	0.34	0.39	0.43	0.43	0.46	0.67	0.77
Equipment Cost Increase (2008 \$B)		3.8	3.9	6.5	10.8	10.5	50.4	5.8	15.8
Discounted Equipment Cost Increase (2008 \$B)	3% Discount Rate	2.1	2.1	3.6	6.0	5.8	28.1	3.3	8.8
	7% Discount Rate	1.1	1.1	1.9	3.1	3.0	14.6	1.7	4.6
Operating Cost Savings (2008 \$B)	Active Energy Savings	21.9	22.0	25.0	28.6	28.8	30.6	42.7	46.1
	Reactive Power Savings	1.4	1.4	1.7	1.5	1.5	1.6	2.8	4.3
	Total Savings	23.3	23.4	26.7	30.2	30.3	32.3	45.5	50.3
Discounted Operating Cost Savings (2008 \$B)	3% Discount Rate	11.5	11.6	13.2	14.9	15.0	15.9	22.5	24.9
	7% Discount Rate	5.2	5.2	5.9	6.7	6.7	7.2	10.2	11.2
Net Present Value (2008 \$B)	3% Discount Rate	9.4	9.4	9.6	8.9	9.1	-12.2	19.3	16.1
	7% Discount Rate	4.1	4.1	4.1	3.6	3.7	-7.4	8.5	6.7

Table 10C.2.3 Capacitor Start Motors: NEMA with 62% Space-Constrained Scenario

		Trial Standard Level							
		1	2	3	4	5	6	7	8
CSIR Motor Efficiency	Level	4	4	5	6	6	7	7	7
	Rating at 1/2 HP (%)	68.50%	68.50%	71.20%	73.00%	73.00%	77.00%	77.00%	77.00%
CSCR Motor Efficiency	Level	2	3	3	4	3	8	3	7
	Rating at 1/2 HP (%)	73.70%	75.99%	75.99%	77.50%	75.99%	84.22%	75.99%	81.96%
Shipments (Millions)	CSIR Motors	132.3	132.2	132.0	113.1	110.2	111.7	0.0	0.0
	CSCR Motors	2.1	2.2	2.4	16.5	19.5	0.4	134.4	128.5
Site Savings	Active Energy Savings (TWh)	190.9	191.7	214.5	252.0	254.7	253.3	364.0	396.5
	Reduced Reactive Power (GVar)	162.3	164.2	212.9	238.2	215.0	223.6	383.6	582.1
Primary Energy Savings (Quads)	Active Energy Savings	1.11	1.11	1.25	1.46	1.48	1.47	2.12	2.30
	Reduced Reactive Losses	0.16	0.17	0.22	0.24	0.22	0.23	0.39	0.59
	Total Savings	1.27	1.28	1.46	1.71	1.70	1.70	2.50	2.89
Discounted Primary Energy Savings (Quads)	3% Discount Rate	0.68	0.69	0.79	0.92	0.91	0.91	1.35	1.56
	7% Discount Rate	0.34	0.34	0.39	0.45	0.45	0.45	0.66	0.76
Equipment Cost Increase (2008 \$B)		4.5	4.5	6.1	13.1	12.7	122.5	5.9	18.7
Discounted Equipment Cost Increase (2008 \$B)	3% Discount Rate	2.5	2.5	3.4	7.3	7.1	68.3	3.3	10.4
	7% Discount Rate	1.3	1.3	1.8	3.8	3.7	35.5	1.7	5.4
Operating Cost Savings (2008 \$B)	Active Energy Savings	22.3	22.4	25.1	29.5	29.8	29.6	42.4	46.3
	Reactive Power Savings	1.1	1.2	1.5	1.7	1.5	1.6	2.7	4.1
	Total Savings	23.5	23.6	26.6	31.1	31.3	31.2	45.1	50.4
Discounted Operating Cost Savings (2008 \$B)	3% Discount Rate	11.6	11.7	13.1	15.4	15.5	15.4	22.4	24.9
	7% Discount Rate	5.2	5.3	5.9	6.9	7.0	6.9	10.1	11.2
Net Present Value (2008 \$B)	3% Discount Rate	9.1	9.2	9.8	8.1	8.4	-52.8	19.1	14.5
	7% Discount Rate	3.9	4.0	4.2	3.1	3.3	-28.6	8.4	5.8

Table 10C.2.4 Capacitor Start Motors: NEMA with 95% Space-Constrained Scenario

		Trial Standard Level							
		1	2	3	4	5	6	7	8
CSIR Motor Efficiency	Level	4	4	5	6	6	7	7	7
	Rating at 1/2 HP (%)	68.50%	68.50%	71.20%	73.00%	73.00%	77.00%	77.00%	77.00%
CSCR Motor Efficiency	Level	2	3	3	4	3	8	3	7
	Rating at 1/2 HP (%)	73.70%	75.99%	75.99%	77.50%	75.99%	84.22%	75.99%	81.96%
Shipments (Millions)	CSIR Motors	132.3	132.3	132.4	101.8	100.5	108.2	0.0	0.0
	CSCR Motors	2.0	2.1	1.9	27.0	28.3	2.4	134.4	127.0
Site Savings	Active Energy Savings (TWh)	193.8	194.5	215.4	261.5	261.9	255.6	360.7	393.3
	Reduced Reactive Power (GVar)	134.2	136.6	189.8	259.1	222.8	228.6	373.2	553.3
Primary Energy Savings (Quads)	Active Energy Savings	1.13	1.13	1.25	1.52	1.52	1.49	2.10	2.29
	Reduced Reactive Losses	0.14	0.14	0.19	0.26	0.23	0.23	0.38	0.56
	Total Savings	1.26	1.27	1.44	1.78	1.75	1.72	2.47	2.85
Discounted Primary Energy Savings (Quads)	3% Discount Rate	0.68	0.68	0.78	0.96	0.94	0.92	1.33	1.53
	7% Discount Rate	0.33	0.33	0.38	0.47	0.46	0.45	0.65	0.75
Equipment Cost Increase (2008 \$B)		5.0	5.0	5.8	14.3	14.0	178.0	6.3	21.8
Discounted Equipment Cost Increase (2008 \$B)	3% Discount Rate	2.8	2.8	3.2	8.0	7.8	99.2	3.5	12.1
	7% Discount Rate	1.4	1.4	1.7	4.2	4.1	51.6	1.8	6.3
Operating Cost Savings (2008 \$B)	Active Energy Savings	22.7	22.8	25.2	30.6	30.6	29.9	42.0	45.9
	Reactive Power Savings	0.9	1.0	1.3	1.8	1.6	1.6	2.6	3.9
	Total Savings	23.6	23.7	26.5	32.4	32.2	31.5	44.7	49.8
Discounted Operating Cost Savings (2008 \$B)	3% Discount Rate	11.7	11.7	13.1	16.0	15.9	15.6	22.1	24.7
	7% Discount Rate	5.3	5.3	5.9	7.2	7.2	7.0	10.0	11.1
Net Present Value (2008 \$B)	3% Discount Rate	8.9	8.9	9.9	8.0	8.1	-83.6	18.6	12.5
	7% Discount Rate	3.8	3.8	4.2	3.1	3.1	-44.6	8.2	4.8

Table 10C.2.5 Capacitor Start Motors: Segmented Markets High Market Growth Scenario

		Trial Standard Level							
		1	2	3	4	5	6	7	8
CSIR Motor Efficiency	Level	4	4	5	6	6	7	7	7
	Rating at 1/2 HP (%)	68.50%	68.50%	71.20%	73.00%	73.00%	77.00%	77.00%	77.00%
CSCR Motor Efficiency	Level	2	3	3	4	3	8	3	7
	Rating at 1/2 HP (%)	73.70%	75.99%	75.99%	77.50%	75.99%	84.22%	75.99%	81.96%
Shipments (Millions)	CSIR Motors	172.0	171.1	170.7	163.6	161.4	152.9	5.4	11.4
	CSCR Motors	2.1	3.0	3.5	6.8	9.1	0.0	167.9	156.9
Site Savings	Active Energy Savings (TWh)	207.9	209.9	237.2	266.2	267.9	292.7	320.3	368.6
	Reduced Reactive Power (GVar)	239.1	242.5	294.2	252.0	244.9	279.5	498.7	739.6
Primary Energy Savings (Quads)	Active Energy Savings	1.20	1.22	1.37	1.54	1.55	1.69	1.85	2.13
	Reduced Reactive Losses	0.22	0.23	0.27	0.23	0.23	0.26	0.46	0.69
	Total Savings	1.43	1.44	1.65	1.78	1.78	1.95	2.32	2.82
Discounted Primary Energy Savings (Quads)	3% Discount Rate	0.75	0.76	0.86	0.93	0.93	1.03	1.22	1.48
	7% Discount Rate	0.36	0.36	0.41	0.44	0.45	0.49	0.58	0.71
Equipment Cost Increase (2008 \$B)		5.0	5.0	8.4	14.2	13.9	65.2	8.0	20.6
Discounted Equipment Cost Increase (2008 \$B)	3% Discount Rate	2.7	2.7	4.5	7.7	7.5	35.2	4.3	11.1
	7% Discount Rate	1.4	1.3	2.3	3.8	3.7	17.6	2.2	5.6
Operating Cost Savings (2008 \$B)	Active Energy Savings	21.8	22.0	24.9	27.9	28.1	30.7	33.6	38.7
	Reactive Power Savings	1.7	1.8	2.1	1.8	1.8	2.0	3.6	5.4
	Total Savings	23.6	23.8	27.0	29.8	29.9	32.7	37.2	44.1
Discounted Operating Cost Savings (2008 \$B)	3% Discount Rate	11.3	11.4	13.0	14.3	14.3	15.7	17.9	21.1
	7% Discount Rate	4.9	4.9	5.6	6.2	6.2	6.8	7.7	9.2
Net Present Value (2008 \$B)	3% Discount Rate	8.6	8.7	8.4	6.6	6.9	-19.5	13.5	10.0
	7% Discount Rate	3.5	3.6	3.3	2.3	2.5	-10.8	5.6	3.6

Table 10C.2.6 Capacitor Start Motors: Segmented Markets Low Market Growth Scenario

		Trial Standard Level							
		1	2	3	4	5	6	7	8
CSIR Motor Efficiency	Level	4	4	5	6	6	7	7	7
	Rating at 1/2 HP (%)	68.50%	68.50%	71.20%	73.00%	73.00%	77.00%	77.00%	77.00%
CSCR Motor Efficiency	Level	2	3	3	4	3	8	3	7
	Rating at 1/2 HP (%)	73.70%	75.99%	75.99%	77.50%	75.99%	84.22%	75.99%	81.96%
Shipments (Millions)	CSIR Motors	127.5	126.8	126.4	121.2	119.6	113.3	4.0	8.4
	CSCR Motors	1.5	2.2	2.6	5.0	6.7	0.0	124.4	116.3
Site Savings	Active Energy Savings (TWh)	158.1	159.6	180.3	202.4	203.7	222.5	243.5	280.3
	Reduced Reactive Power (GVar)	181.8	184.4	223.7	191.6	186.2	212.5	379.2	562.4
Primary Energy Savings (Quads)	Active Energy Savings	0.92	0.93	1.05	1.18	1.18	1.29	1.42	1.63
	Reduced Reactive Losses	0.17	0.17	0.21	0.18	0.17	0.20	0.35	0.53
	Total Savings	1.09	1.10	1.26	1.36	1.36	1.49	1.77	2.16
Discounted Primary Energy Savings (Quads)	3% Discount Rate	0.59	0.59	0.68	0.73	0.73	0.81	0.96	1.16
	7% Discount Rate	0.29	0.29	0.34	0.36	0.36	0.40	0.47	0.57
Equipment Cost Increase (2008 \$B)		3.7	3.7	6.2	10.5	10.3	48.3	5.9	15.3
Discounted Equipment Cost Increase (2008 \$B)	3% Discount Rate	2.1	2.1	3.5	5.9	5.7	26.9	3.3	8.5
	7% Discount Rate	1.1	1.1	1.8	3.1	3.0	14.0	1.7	4.4
Operating Cost Savings (2008 \$B)	Active Energy Savings	16.0	16.2	18.3	20.5	20.6	22.5	24.7	28.4
	Reactive Power Savings	1.3	1.3	1.6	1.3	1.3	1.5	2.7	3.9
	Total Savings	17.3	17.5	19.8	21.8	21.9	24.0	27.3	32.3
Discounted Operating Cost Savings (2008 \$B)	3% Discount Rate	8.6	8.7	9.8	10.8	10.9	11.9	13.5	16.0
	7% Discount Rate	3.9	3.9	4.4	4.9	4.9	5.4	6.1	7.2
Net Present Value (2008 \$B)	3% Discount Rate	6.5	6.6	6.4	4.9	5.1	-15.0	10.2	7.5
	7% Discount Rate	2.8	2.8	2.6	1.8	1.9	-8.7	4.4	2.8

Table 10C.2.7 Capacitor Start Motors: Segmented Markets Falling Market Share Scenario

		Trial Standard Level							
		1	2	3	4	5	6	7	8
CSIR Motor Efficiency	Level	4	4	5	6	6	7	7	7
	Rating at 1/2 HP (%)	68.50%	68.50%	71.20%	73.00%	73.00%	77.00%	77.00%	77.00%
CSCR Motor Efficiency	Level	2	3	3	4	3	8	3	7
	Rating at 1/2 HP (%)	73.70%	75.99%	75.99%	77.50%	75.99%	84.22%	75.99%	81.96%
Shipments (Millions)	CSIR Motors	100.0	99.4	99.2	95.1	93.8	88.9	3.2	6.6
	CSCR Motors	1.2	1.7	2.0	3.9	5.3	0.0	97.6	91.2
Site Savings	Active Energy Savings (TWh)	126.3	127.5	144.1	161.7	162.7	177.8	194.6	223.9
	Reduced Reactive Power (GVar)	145.3	147.3	178.7	153.1	148.8	169.8	303.0	449.3
Primary Energy Savings (Quads)	Active Energy Savings	0.74	0.74	0.84	0.94	0.95	1.04	1.14	1.31
	Reduced Reactive Losses	0.14	0.14	0.17	0.14	0.14	0.16	0.28	0.42
	Total Savings	0.87	0.88	1.01	1.09	1.09	1.20	1.42	1.73
Discounted Primary Energy Savings (Quads)	3% Discount Rate	0.48	0.49	0.56	0.60	0.60	0.66	0.78	0.95
	7% Discount Rate	0.24	0.25	0.28	0.30	0.30	0.33	0.40	0.48
Equipment Cost Increase (2008 \$B)		2.9	2.9	4.9	8.3	8.1	37.9	4.6	12.0
Discounted Equipment Cost Increase (2008 \$B)	3% Discount Rate	1.7	1.7	2.8	4.7	4.6	21.7	2.7	6.9
	7% Discount Rate	0.9	0.9	1.5	2.6	2.5	11.7	1.4	3.7
Operating Cost Savings (2008 \$B)	Active Energy Savings	12.4	12.6	14.2	15.9	16.0	17.5	19.2	22.1
	Reactive Power Savings	1.0	1.0	1.2	1.0	1.0	1.2	2.1	3.1
	Total Savings	13.4	13.6	15.4	17.0	17.1	18.7	21.2	25.1
Discounted Operating Cost Savings (2008 \$B)	3% Discount Rate	6.8	6.9	7.9	8.7	8.7	9.5	10.8	12.8
	7% Discount Rate	3.2	3.2	3.7	4.0	4.1	4.4	5.1	6.0
Net Present Value (2008 \$B)	3% Discount Rate	5.2	5.3	5.1	3.9	4.1	-12.2	8.2	5.9
	7% Discount Rate	2.3	2.3	2.2	1.5	1.6	-7.2	3.6	2.3

**Table 10C.2.8 Capacitor Start Motors: Segmented Markets Low CSCR
Market Share Scenario: 0 Year Market Share Transition Time**

		Trial Standard Level							
		1	2	3	4	5	6	7	8
CSIR Motor Efficiency	Level	4	4	5	6	6	7	7	7
	Rating at 1/2 HP (%)	68.50%	68.50%	71.20%	73.00%	73.00%	77.00%	77.00%	77.00%
CSCR Motor Efficiency	Level	2	3	3	4	3	8	3	7
	Rating at 1/2 HP (%)	73.70%	75.99%	75.99%	77.50%	75.99%	84.22%	75.99%	81.96%
Shipments (Millions)	CSIR Motors	139.7	139.6	139.5	136.1	135.8	122.9	21.6	33.5
	CSCR Motors	0.2	0.4	0.4	0.7	1.1	0.0	115.3	99.1
Site Savings	Active Energy Savings (TWh)	169.7	170.1	192.8	216.7	217.0	240.8	261.0	292.8
	Reduced Reactive Power (GVar)	192.8	193.4	236.6	187.1	186.7	229.9	389.9	544.0
Primary Energy Savings (Quads)	Active Energy Savings	0.99	0.99	1.12	1.26	1.26	1.40	1.52	1.70
	Reduced Reactive Losses	0.18	0.18	0.22	0.17	0.17	0.21	0.36	0.51
	Total Savings	1.17	1.17	1.34	1.43	1.44	1.61	1.88	2.21
Discounted Primary Energy Savings (Quads)	3% Discount Rate	0.63	0.63	0.72	0.77	0.77	0.87	1.01	1.19
	7% Discount Rate	0.31	0.31	0.35	0.38	0.38	0.43	0.50	0.58
Equipment Cost Increase (2008 \$B)		4.1	4.1	6.9	12.0	12.0	52.4	11.0	21.8
Discounted Equipment Cost Increase (2008 \$B)	3% Discount Rate	2.3	2.3	3.9	6.7	6.6	29.1	6.1	12.1
	7% Discount Rate	1.2	1.2	2.0	3.5	3.4	15.1	3.2	6.3
Operating Cost Savings (2008 \$B)	Active Energy Savings	17.2	17.3	19.6	22.0	22.0	24.5	26.5	29.7
	Reactive Power Savings	1.4	1.4	1.7	1.3	1.3	1.6	2.7	3.8
	Total Savings	18.6	18.6	21.3	23.3	23.4	26.1	29.3	33.6
Discounted Operating Cost Savings (2008 \$B)	3% Discount Rate	9.2	9.2	10.5	11.5	11.5	12.9	14.5	16.6
	7% Discount Rate	4.1	4.1	4.7	5.2	5.2	5.8	6.5	7.5
Net Present Value (2008 \$B)	3% Discount Rate	6.9	6.9	6.6	4.8	4.9	-16.2	8.3	4.5
	7% Discount Rate	3.0	3.0	2.7	1.7	1.7	-9.3	3.3	1.2

**Table 10C.2.9 Capacitor Start Motors: Segmented Markets Low CSCR
Market Share Scenario: 10 Year Market Share Transition
Time**

		Trial Standard Level							
		1	2	3	4	5	6	7	8
CSIR Motor Efficiency	Level	4	4	5	6	6	7	7	7
	Rating at 1/2 HP (%)	68.50%	68.50%	71.20%	73.00%	73.00%	77.00%	77.00%	77.00%
CSCR Motor Efficiency	Level	2	3	3	4	3	8	3	7
	Rating at 1/2 HP (%)	73.70%	75.99%	75.99%	77.50%	75.99%	84.22%	75.99%	81.96%
Shipments (Millions)	CSIR Motors	139.7	139.6	139.5	136.1	135.8	122.9	21.6	33.5
	CSCR Motors	0.2	0.4	0.4	0.7	1.1	0.0	115.3	99.1
Site Savings	Active Energy Savings (TWh)	169.7	170.1	192.8	216.7	217.0	240.8	261.0	292.8
	Reduced Reactive Power (GVar)	192.8	193.4	236.6	187.1	186.7	229.9	389.9	544.0
Primary Energy Savings (Quads)	Active Energy Savings	0.99	0.99	1.12	1.26	1.26	1.40	1.52	1.70
	Reduced Reactive Losses	0.18	0.18	0.22	0.17	0.17	0.21	0.36	0.51
	Total Savings	1.17	1.17	1.34	1.43	1.44	1.61	1.88	2.21
Discounted Primary Energy Savings (Quads)	3% Discount Rate	0.63	0.63	0.72	0.77	0.77	0.87	1.01	1.19
	7% Discount Rate	0.31	0.31	0.35	0.38	0.38	0.43	0.50	0.58
Equipment Cost Increase (2008 \$B)		4.1	4.1	6.9	12.0	12.0	52.4	11.0	21.8
Discounted Equipment Cost Increase (2008 \$B)	3% Discount Rate	2.3	2.3	3.9	6.7	6.6	29.1	6.1	12.1
	7% Discount Rate	1.2	1.2	2.0	3.5	3.4	15.1	3.2	6.3
Operating Cost Savings (2008 \$B)	Active Energy Savings	17.2	17.3	19.6	22.0	22.0	24.5	26.5	29.7
	Reactive Power Savings	1.4	1.4	1.7	1.3	1.3	1.6	2.7	3.8
	Total Savings	18.6	18.6	21.3	23.3	23.4	26.1	29.3	33.6
Discounted Operating Cost Savings (2008 \$B)	3% Discount Rate	9.2	9.2	10.5	11.5	11.5	12.9	14.5	16.6
	7% Discount Rate	4.1	4.1	4.7	5.2	5.2	5.8	6.5	7.5
Net Present Value (2008 \$B)	3% Discount Rate	6.9	6.9	6.6	4.8	4.9	-16.2	8.3	4.5
	7% Discount Rate	3.0	3.0	2.7	1.7	1.7	-9.3	3.3	1.2

Table 10C.2.10 Capacitor Start Motors: Segmented Markets High CSCR Market Share Scenario

		Trial Standard Level							
		1	2	3	4	5	6	7	8
CSIR Motor Efficiency	Level	4	4	5	6	6	7	7	7
	Rating at 1/2 HP (%)	68.50%	68.50%	71.20%	73.00%	73.00%	77.00%	77.00%	77.00%
CSCR Motor Efficiency	Level	2	3	3	4	3	8	3	7
	Rating at 1/2 HP (%)	73.70%	75.99%	75.99%	77.50%	75.99%	84.22%	75.99%	81.96%
Shipments (Millions)	CSIR Motors	125.4	120.6	116.7	106.8	99.0	122.8	0.5	1.2
	CSCR Motors	14.5	19.3	23.2	30.7	38.7	0.1	139.4	134.9
Site Savings	Active Energy Savings (TWh)	179.8	187.9	208.4	228.4	233.1	240.9	264.1	306.6
	Reduced Reactive Power (GVar)	222.8	234.8	274.8	296.7	260.6	230.3	414.8	628.3
Primary Energy Savings (Quads)	Active Energy Savings	1.05	1.09	1.21	1.33	1.35	1.40	1.54	1.78
	Reduced Reactive Losses	0.21	0.22	0.26	0.28	0.24	0.21	0.39	0.59
	Total Savings	1.25	1.31	1.47	1.60	1.60	1.61	1.92	2.37
Discounted Primary Energy Savings (Quads)	3% Discount Rate	0.67	0.71	0.79	0.86	0.86	0.87	1.03	1.27
	7% Discount Rate	0.33	0.35	0.39	0.42	0.42	0.43	0.51	0.63
Equipment Cost Increase (2008 \$B)		3.7	3.8	6.0	9.7	9.0	52.4	5.4	15.0
Discounted Equipment Cost Increase (2008 \$B)	3% Discount Rate	2.0	2.1	3.3	5.4	5.0	29.1	3.0	8.3
	7% Discount Rate	1.1	1.1	1.7	2.8	2.6	15.1	1.6	4.3
Operating Cost Savings (2008 \$B)	Active Energy Savings	18.3	19.1	21.2	23.2	23.7	24.5	26.8	31.1
	Reactive Power Savings	1.6	1.7	1.9	2.1	1.8	1.6	2.9	4.4
	Total Savings	19.8	20.7	23.1	25.3	25.5	26.1	29.7	35.6
Discounted Operating Cost Savings (2008 \$B)	3% Discount Rate	9.8	10.2	11.4	12.5	12.6	12.9	14.7	17.6
	7% Discount Rate	4.4	4.6	5.1	5.6	5.7	5.8	6.6	7.9
Net Present Value (2008 \$B)	3% Discount Rate	7.8	8.2	8.1	7.1	7.6	-16.2	11.7	9.2
	7% Discount Rate	3.3	3.5	3.4	2.8	3.1	-9.3	5.0	3.6

Table 10C.2.11 Capacitor Start Motors: Segmented Markets Inelasticity Scenario

		Trial Standard Level							
		1	2	3	4	5	6	7	8
CSIR Motor Efficiency	Level	4	4	5	6	6	7	7	7
	Rating at 1/2 HP (%)	68.50%	68.50%	71.20%	73.00%	73.00%	77.00%	77.00%	77.00%
CSCR Motor Efficiency	Level	2	3	3	4	3	8	3	7
	Rating at 1/2 HP (%)	73.70%	75.99%	75.99%	77.50%	75.99%	84.22%	75.99%	81.96%
Shipments (Millions)	CSIR Motors	138.3	137.5	137.2	134.5	132.6	139.9	5.0	10.4
	CSCR Motors	1.7	2.4	2.8	5.5	7.3	0.0	135.0	129.5
Site Savings	Active Energy Savings (TWh)	171.1	172.7	195.1	223.9	225.2	276.3	264.5	313.6
	Reduced Reactive Power (GVar)	196.8	199.6	242.1	211.8	205.8	265.4	411.4	627.5
Primary Energy Savings (Quads)	Active Energy Savings	0.99	1.00	1.13	1.30	1.31	1.61	1.54	1.82
	Reduced Reactive Losses	0.18	0.19	0.23	0.20	0.19	0.25	0.38	0.59
	Total Savings	1.18	1.19	1.36	1.50	1.50	1.85	1.92	2.41
Discounted Primary Energy Savings (Quads)	3% Discount Rate	0.63	0.64	0.73	0.81	0.81	1.00	1.03	1.30
	7% Discount Rate	0.31	0.31	0.36	0.40	0.40	0.49	0.51	0.64
Equipment Cost Increase (2008 \$B)		4.0	4.0	6.8	12.6	12.2	71.8	6.9	19.0
Discounted Equipment Cost Increase (2008 \$B)	3% Discount Rate	2.2	2.2	3.8	7.0	6.8	39.9	3.8	10.6
	7% Discount Rate	1.2	1.2	1.9	3.6	3.5	20.7	2.0	5.5
Operating Cost Savings (2008 \$B)	Active Energy Savings	17.4	17.5	19.8	22.7	22.9	28.1	26.9	31.9
	Reactive Power Savings	1.4	1.4	1.7	1.5	1.4	1.9	2.9	4.4
	Total Savings	18.8	19.0	21.5	24.2	24.3	29.9	29.8	36.3
Discounted Operating Cost Savings (2008 \$B)	3% Discount Rate	9.3	9.4	10.6	12.0	12.0	14.8	14.7	17.9
	7% Discount Rate	4.2	4.2	4.8	5.4	5.4	6.6	6.6	8.1
Net Present Value (2008 \$B)	3% Discount Rate	7.0	7.1	6.9	5.0	5.2	-25.1	10.9	7.3
	7% Discount Rate	3.0	3.1	2.8	1.8	1.9	-14.0	4.6	2.6

Table 10C.2.12 Capacitor Start Motors: Segmented Markets High Elasticity Scenario

		Trial Standard Level							
		1	2	3	4	5	6	7	8
CSIR Motor Efficiency	Level	4	4	5	6	6	7	7	7
	Rating at 1/2 HP (%)	68.50%	68.50%	71.20%	73.00%	73.00%	77.00%	77.00%	77.00%
CSCR Motor Efficiency	Level	2	3	3	4	3	8	3	7
	Rating at 1/2 HP (%)	73.70%	75.99%	75.99%	77.50%	75.99%	84.22%	75.99%	81.96%
Shipments (Millions)	CSIR Motors	138.3	137.5	137.2	128.6	126.8	105.9	3.8	7.9
	CSCR Motors	1.7	2.4	2.8	5.5	7.3	0.0	135.0	122.7
Site Savings	Active Energy Savings (TWh)	171.1	172.7	195.1	214.1	215.6	205.3	262.5	292.9
	Reduced Reactive Power (GVar)	196.8	199.6	242.1	202.9	197.2	194.5	409.3	589.7
Primary Energy Savings (Quads)	Active Energy Savings	0.99	1.00	1.13	1.24	1.25	1.19	1.53	1.70
	Reduced Reactive Losses	0.18	0.19	0.23	0.19	0.18	0.18	0.38	0.55
	Total Savings	1.18	1.19	1.36	1.43	1.44	1.37	1.91	2.25
Discounted Primary Energy Savings (Quads)	3% Discount Rate	0.63	0.64	0.73	0.77	0.77	0.74	1.03	1.21
	7% Discount Rate	0.31	0.31	0.36	0.38	0.38	0.36	0.50	0.59
Equipment Cost Increase (2008 \$B)		4.0	4.0	6.8	10.4	10.1	36.1	6.0	14.3
Discounted Equipment Cost Increase (2008 \$B)	3% Discount Rate	2.2	2.2	3.8	5.8	5.6	20.1	3.4	7.9
	7% Discount Rate	1.2	1.2	1.9	3.0	2.9	10.4	1.7	4.1
Operating Cost Savings (2008 \$B)	Active Energy Savings	17.4	17.5	19.8	21.8	21.9	20.9	26.7	29.8
	Reactive Power Savings	1.4	1.4	1.7	1.4	1.4	1.4	2.9	4.1
	Total Savings	18.8	19.0	21.5	23.2	23.3	22.2	29.5	33.9
Discounted Operating Cost Savings (2008 \$B)	3% Discount Rate	9.3	9.4	10.6	11.5	11.5	11.0	14.6	16.7
	7% Discount Rate	4.2	4.2	4.8	5.1	5.2	4.9	6.6	7.5
Net Present Value (2008 \$B)	3% Discount Rate	7.0	7.1	6.9	5.7	5.9	-9.1	11.2	8.8
	7% Discount Rate	3.0	3.1	2.8	2.2	2.3	-5.5	4.8	3.4

Table 10C.2.13 Capacitor Start Motors: Segmented Markets 50% Reactive Power Charge Scenario

		Trial Standard Level							
		1	2	3	4	5	6	7	8
CSIR Motor Efficiency	Level	4	4	5	6	6	7	7	7
	Rating at 1/2 HP (%)	68.50%	68.50%	71.20%	73.00%	73.00%	77.00%	77.00%	77.00%
CSCR Motor Efficiency	Level	2	3	3	4	3	8	3	7
	Rating at 1/2 HP (%)	73.70%	75.99%	75.99%	77.50%	75.99%	84.22%	75.99%	81.96%
Shipments (Millions)	CSIR Motors	138.3	137.5	137.2	131.5	129.7	122.9	4.4	9.1
	CSCR Motors	1.7	2.4	2.8	5.5	7.3	0.0	135.0	126.1
Site Savings	Active Energy Savings (TWh)	171.1	172.7	195.1	219.0	220.4	240.8	263.5	303.3
	Reduced Reactive Power (GVar)	196.8	199.6	242.1	207.3	201.5	230.0	410.3	608.6
Primary Energy Savings (Quads)	Active Energy Savings	0.99	1.00	1.13	1.27	1.28	1.40	1.53	1.76
	Reduced Reactive Losses	0.18	0.19	0.23	0.19	0.19	0.21	0.38	0.57
	Total Savings	1.18	1.19	1.36	1.47	1.47	1.61	1.91	2.33
Discounted Primary Energy Savings (Quads)	3% Discount Rate	0.63	0.64	0.73	0.79	0.79	0.87	1.03	1.25
	7% Discount Rate	0.31	0.31	0.36	0.39	0.39	0.43	0.51	0.62
Equipment Cost Increase (2008 \$B)		4.0	4.0	6.8	11.4	11.1	52.4	6.4	16.5
Discounted Equipment Cost Increase (2008 \$B)	3% Discount Rate	2.2	2.2	3.8	6.4	6.2	29.1	3.6	9.2
	7% Discount Rate	1.2	1.2	1.9	3.3	3.2	15.1	1.8	4.8
Operating Cost Savings (2008 \$B)	Active Energy Savings	17.4	17.5	19.8	22.3	22.4	24.5	26.8	30.8
	Reactive Power Savings	0.7	0.7	0.9	0.7	0.7	0.8	1.4	2.1
	Total Savings	18.1	18.3	20.7	23.0	23.1	25.3	28.2	33.0
Discounted Operating Cost Savings (2008 \$B)	3% Discount Rate	8.9	9.0	10.2	11.4	11.4	12.5	13.9	16.3
	7% Discount Rate	4.0	4.1	4.6	5.1	5.1	5.6	6.3	7.3
Net Present Value (2008 \$B)	3% Discount Rate	6.7	6.8	6.5	5.0	5.2	-16.6	10.4	7.1
	7% Discount Rate	2.9	2.9	2.6	1.8	1.9	-9.5	4.4	2.6

Table 10C.2.14 Capacitor Start Motors: Segmented Markets 0% Reactive Power Charge Scenario

		Trial Standard Level							
		1	2	3	4	5	6	7	8
CSIR Motor Efficiency	Level	4	4	5	6	6	7	7	7
	Rating at 1/2 HP (%)	68.50%	68.50%	71.20%	73.00%	73.00%	77.00%	77.00%	77.00%
CSCR Motor Efficiency	Level	2	3	3	4	3	8	3	7
	Rating at 1/2 HP (%)	73.70%	75.99%	75.99%	77.50%	75.99%	84.22%	75.99%	81.96%
Shipments (Millions)	CSIR Motors	138.3	137.5	137.2	131.5	129.7	122.9	4.4	9.1
	CSCR Motors	1.7	2.4	2.8	5.5	7.3	0.0	135.0	126.1
Site Savings	Active Energy Savings (TWh)	171.1	172.7	195.1	219.0	220.4	240.8	263.5	303.3
	Reduced Reactive Power (GVar)	196.8	199.6	242.1	207.3	201.5	230.0	410.3	608.6
Primary Energy Savings (Quads)	Active Energy Savings	0.99	1.00	1.13	1.27	1.28	1.40	1.53	1.76
	Reduced Reactive Losses	0.18	0.19	0.23	0.19	0.19	0.21	0.38	0.57
	Total Savings	1.18	1.19	1.36	1.47	1.47	1.61	1.91	2.33
Discounted Primary Energy Savings (Quads)	3% Discount Rate	0.63	0.64	0.73	0.79	0.79	0.87	1.03	1.25
	7% Discount Rate	0.31	0.31	0.36	0.39	0.39	0.43	0.51	0.62
Equipment Cost Increase (2008 \$B)		4.0	4.0	6.8	11.4	11.1	52.4	6.4	16.5
Discounted Equipment Cost Increase (2008 \$B)	3% Discount Rate	2.2	2.2	3.8	6.4	6.2	29.1	3.6	9.2
	7% Discount Rate	1.2	1.2	1.9	3.3	3.2	15.1	1.8	4.8
Operating Cost Savings (2008 \$B)	Active Energy Savings	17.4	17.5	19.8	22.3	22.4	24.5	26.8	30.8
	Reactive Power Savings	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Total Savings	17.4	17.5	19.8	22.3	22.4	24.5	26.8	30.8
Discounted Operating Cost Savings (2008 \$B)	3% Discount Rate	8.6	8.7	9.8	11.0	11.1	12.1	13.2	15.2
	7% Discount Rate	3.9	3.9	4.4	4.9	5.0	5.4	5.9	6.8
Net Present Value (2008 \$B)	3% Discount Rate	6.3	6.4	6.0	4.6	4.9	-17.0	9.7	6.0
	7% Discount Rate	2.7	2.7	2.5	1.6	1.8	-9.7	4.1	2.1

Table 10C.2.15 Capacitor Start Motors: Segmented Markets Carbon Cap & Trade Scenario

		Trial Standard Level							
		1	2	3	4	5	6	7	8
CSIR Motor Efficiency	Level	4	4	5	6	6	7	7	7
	Rating at 1/2 HP (%)	68.50%	68.50%	71.20%	73.00%	73.00%	77.00%	77.00%	77.00%
CSCR Motor Efficiency	Level	2	3	3	4	3	8	3	7
	Rating at 1/2 HP (%)	73.70%	75.99%	75.99%	77.50%	75.99%	84.22%	75.99%	81.96%
Shipments (Millions)	CSIR Motors	138.3	137.5	137.2	131.5	129.7	122.9	4.4	9.1
	CSCR Motors	1.7	2.4	2.8	5.5	7.3	0.0	135.0	126.1
Site Savings	Active Energy Savings (TWh)	171.1	172.7	195.1	219.0	220.4	240.8	263.5	303.3
	Reduced Reactive Power (GVar)	196.8	199.6	242.1	207.3	201.5	230.0	410.3	608.6
Primary Energy Savings (Quads)	Active Energy Savings	0.99	1.00	1.13	1.27	1.28	1.40	1.53	1.76
	Reduced Reactive Losses	0.18	0.19	0.23	0.19	0.19	0.21	0.38	0.57
	Total Savings	1.18	1.19	1.36	1.47	1.47	1.61	1.91	2.33
Discounted Primary Energy Savings (Quads)	3% Discount Rate	0.63	0.64	0.73	0.79	0.79	0.87	1.03	1.25
	7% Discount Rate	0.31	0.31	0.36	0.39	0.39	0.43	0.51	0.62
Equipment Cost Increase (2008 \$B)		4.0	4.0	6.8	11.4	11.1	52.4	6.4	16.5
Discounted Equipment Cost Increase (2008 \$B)	3% Discount Rate	2.2	2.2	3.8	6.4	6.2	29.1	3.6	9.2
	7% Discount Rate	1.2	1.2	1.9	3.3	3.2	15.1	1.8	4.8
Operating Cost Savings (2008 \$B)	Active Energy Savings	17.4	17.5	19.8	22.3	22.4	24.5	26.8	30.8
	Reactive Power Savings	1.4	1.4	1.7	1.5	1.4	1.6	2.9	4.3
	Total Savings	18.8	19.0	21.5	23.7	23.8	26.1	29.7	35.1
Discounted Operating Cost Savings (2008 \$B)	3% Discount Rate	9.3	9.4	10.6	11.7	11.8	12.9	14.6	17.3
	7% Discount Rate	4.2	4.2	4.8	5.3	5.3	5.8	6.6	7.8
Net Present Value (2008 \$B)	3% Discount Rate	7.0	7.1	6.9	5.4	5.6	-16.2	11.1	8.1
	7% Discount Rate	3.0	3.1	2.8	2.0	2.1	-9.3	4.7	3.0

Table 10C.2.16 Capacitor Start Motors: Segmented Markets High Energy Price

		Trial Standard Level							
		1	2	3	4	5	6	7	8
CSIR Motor Efficiency	Level	4	4	5	6	6	7	7	7
	Rating at 1/2 HP (%)	68.50%	68.50%	71.20%	73.00%	73.00%	77.00%	77.00%	77.00%
CSCR Motor Efficiency	Level	2	3	3	4	3	8	3	7
	Rating at 1/2 HP (%)	73.70%	75.99%	75.99%	77.50%	75.99%	84.22%	75.99%	81.96%
Shipments (Millions)	CSIR Motors	138.3	137.5	137.2	131.5	129.7	122.9	4.4	9.1
	CSCR Motors	1.7	2.4	2.8	5.5	7.3	0.0	135.0	126.1
Site Savings	Active Energy Savings (TWh)	171.1	172.7	195.1	219.0	220.4	240.8	263.5	303.3
	Reduced Reactive Power (GVar)	196.8	199.6	242.1	207.3	201.5	230.0	410.3	608.6
Primary Energy Savings (Quads)	Active Energy Savings	0.99	1.00	1.13	1.27	1.28	1.40	1.53	1.76
	Reduced Reactive Losses	0.18	0.19	0.23	0.19	0.19	0.21	0.38	0.57
	Total Savings	1.18	1.19	1.36	1.47	1.47	1.61	1.91	2.33
Discounted Primary Energy Savings (Quads)	3% Discount Rate	0.63	0.64	0.73	0.79	0.79	0.87	1.03	1.25
	7% Discount Rate	0.31	0.31	0.36	0.39	0.39	0.43	0.51	0.62
Equipment Cost Increase (2008 \$B)		4.0	4.0	6.8	11.4	11.1	52.4	6.4	16.5
Discounted Equipment Cost Increase (2008 \$B)	3% Discount Rate	2.2	2.2	3.8	6.4	6.2	29.1	3.6	9.2
	7% Discount Rate	1.2	1.2	1.9	3.3	3.2	15.1	1.8	4.8
Operating Cost Savings (2008 \$B)	Active Energy Savings	17.4	17.5	19.8	22.3	22.4	24.5	26.8	30.8
	Reactive Power Savings	1.4	1.4	1.7	1.5	1.4	1.6	2.9	4.3
	Total Savings	18.8	19.0	21.5	23.7	23.8	26.1	29.7	35.1
Discounted Operating Cost Savings (2008 \$B)	3% Discount Rate	9.3	9.4	10.6	11.7	11.8	12.9	14.6	17.3
	7% Discount Rate	4.2	4.2	4.8	5.3	5.3	5.8	6.6	7.8
Net Present Value (2008 \$B)	3% Discount Rate	7.0	7.1	6.9	5.4	5.6	-16.2	11.1	8.1
	7% Discount Rate	3.0	3.1	2.8	2.0	2.1	-9.3	4.7	3.0

Table 10C.2.17 Capacitor Start Motors: Segmented Markets Low Energy Price

		Trial Standard Level	
		1	2
CSIR Motor Efficiency	Level	4	4
	Rating at 1/2 HP (%)	68.50%	68.50%
CSCR Motor Efficiency	Level	2	3
	Rating at 1/2 HP (%)	73.70%	75.99%
Shipments (Millions)	CSIR Motors	138.3	137.5
	CSCR Motors	1.7	2.4
Site Savings	Active Energy Savings (TWh)	171.1	172.7
	Reduced Reactive Power (GVA_r)	196.8	199.6
Primary Energy Savings (Quads)	Active Energy Savings	0.99	1.00
	Reduced Reactive Losses	0.18	0.19
	Total Savings	1.18	1.19
Discounted Primary Energy Savings (Quads)	3% Discount Rate	0.63	0.64
	7% Discount Rate	0.31	0.31
Equipment Cost Increase (2008 \$B)		4.0	4.0
Discounted Equipment Cost Increase (2008 \$B)	3% Discount Rate	2.2	2.2
	7% Discount Rate	1.2	1.2
Operating Cost Savings (2008 \$B)	Active Energy Savings	17.4	17.5
	Reactive Power Savings	1.4	1.4
	Total Savings	18.8	19.0
Discounted Operating Cost Savings (2008 \$B)	3% Discount Rate	9.3	9.4
	7% Discount Rate	4.2	4.2
Net Present Value (2008 \$B)	3% Discount Rate	7.0	7.1
	7% Discount Rate	3.0	3.1