APPENDIX A

DETAILED TABLES

Figure 1
Summary of Key Parameters in Connecticut

Market Scenario	Resource Strategy	Year	Average Henry Hub Gas Price ($/MMBtu)	CT Load LMP ($/MWh)	Capacity Price ($/kW-mo)	CT TSA (from RA analysis) (MW)	CT Energy Requirement net of EE (GWh)	ISO-NE NICR (MW)	ISO-NE Active DR (MW)	ISO-NE Projected Retirements (MW)	ISO Generic Builds (MW)
Base Case	**Base**	**2017**	**4.2**	**58.7**	**5.2**	**7,273**	**32,329**	**33,855**	**728**	**95**	**0**
High Gas	Base	2017	4.8	63.8	5.2	7,273	32,329	33,855	728	95	0
Low Gas	Base	2017	3.2	51.0	5.2	7,273	32,329	33,855	728	95	0
Abundant Supply	Base	2017	4.2	57.2	5.2	7,273	30,869	33,855	728	95	0
Tight Supply	Base	2017	4.2	60.9	5.2	7,273	33,789	33,855	728	95	0
Base Case	**Base**	**2019**	**4.4**	**61.6**	**10.3**	**7,307**	**32,327**	**34,690**	**998**	**95**	**0**
High Gas	Base	2019	5.3	68.6	10.3	7,307	32,327	34,690	998	95	0
Low Gas	Base	2019	3.1	51.4	10.7	7,307	32,327	34,690	998	95	0
Abundant Supply	Base	2019	4.4	59.5	2.4	7,090	30,592	33,474	462	785	0
Tight Supply	Base	2019	4.4	60.6	12.4	7,508	34,067	35,901	1,351	95	1,900
Base Case	**Base**	**2024**	**5.3**	**67.5**	**10.7**	**7,680**	**32,408**	**36,548**	**1,349**	**95**	**1,100**
High Gas	Base	2024	6.9	79.2	10.6	7,679	32,408	36,548	1,306	95	1,100
Low Gas	Base	2024	3.3	52.4	11.1	7,680	32,408	36,548	1,349	95	1,100
Abundant Supply	Base	2024	5.3	67.4	10.1	7,390	30,054	34,890	1,171	785	0
Tight Supply	Base	2024	5.3	67.6	12.7	7,950	34,764	38,236	1,645	95	3,050
Base Case	Increased EE	2024	5.3	68.1	10.7	7,680	30,788	36,548	1,306	95	600
High Gas	Increased EE	2024	6.9	79.4	10.6	7,679	30,788	36,548	1,306	95	600
Low Gas	Increased EE	2024	3.3	52.9	11.1	7,680	30,788	36,548	1,349	95	600
Abundant Supply	Increased EE	2024	5.3	66.7	10.1	7,390	28,434	34,890	923	785	0
Tight Supply	Increased EE	2024	5.3	68.2	12.7	7,950	33,144	38,236	1,645	95	2,550
Base Case	Class I	2024	5.3	67.8	10.7	7,680	32,408	36,548	1,306	95	1,100
High Gas	Class I	2024	6.9	78.8	10.6	7,679	32,408	36,548	1,349	95	1,100
Low Gas	Class I	2024	3.3	52.4	11.1	7,680	32,408	36,548	1,349	95	1,100
Abundant Supply	Class I	2024	5.3	66.8	10.1	7,390	30,054	34,890	1,171	785	0
Tight Supply	Class I	2024	5.3	67.6	12.7	7,950	34,764	38,236	1,645	95	3,050

Figure 2
Summary of Key Parameters in Connecticut, Differences Relative to Base Case

Market Scenario	Resource Strategy	Year	Average Henry Hub Gas Price ($/MMBtu)	CT Load LMP ($/MWh)	Capacity Price ($/kW-mo)	CT TSA (from RA analysis) (MW)	CT Energy Requirement net of EE (GWh)	ISO-NE NICR (MW)	ISO-NE Active DR (MW)	ISO-NE Projected Retirements (MW)	ISO Generic Builds (MW)
(DIFFERENCES IN OTHER MARKET SCENARIOS COMPARED TO BASE SCENARIO)											
Base Case	Base	2017	0.0	0.0	0.0	0	0	0	0	0	0
High Gas	Base	2017	0.7	5.0	0.0	0	0	0	0	0	0
Low Gas	Base	2017	(1.0)	(7.7)	0.0	0	0	0	0	0	0
Abundant Supply	Base	2017	0.0	(1.6)	0.0	0	(1,460)	0	0	0	0
Tight Supply	Base	2017	0.0	2.2	0.0	0	1,460	0	0	0	0
Base Case	Base	2019	0.0	0.0	0.0	0	0	0	0	0	0
High Gas	Base	2019	1.0	7.0	(0.1)	0	0	0	0	0	0
Low Gas	Base	2019	(1.3)	(10.2)	0.4	0	0	0	0	0	0
Abundant Supply	Base	2019	0.0	(2.1)	(7.9)	(217)	(1,735)	(1,216)	(536)	690	0
Tight Supply	Base	2019	0.0	(0.9)	2.0	202	1,740	1,210	353	0	1,900
Base Case	Base	2024	0.0	0.0	0.0	0	0	0	0	0	0
High Gas	Base	2024	1.6	11.7	(0.1)	(1)	0	0	(43)	0	0
Low Gas	Base	2024	(2.0)	(15.2)	0.4	0	0	0	0	0	0
Abundant Supply	Base	2024	0.0	(0.2)	(0.6)	(290)	(2,354)	(1,658)	(178)	690	(1,100)
Tight Supply	Base	2024	0.0	0.1	2.0	270	2,356	1,688	296	0	1,950
(DIFFERENCES IN OTHER RESOURCE STRATEGIES COMPARED TO BASE STRATEGY)											
Base Case	Increased EE	2024	0.0	0.6	0.0	0	(1,620)	0	(43)	0	(500)
High Gas	Increased EE	2024	0.0	0.2	0.0	0	(1,620)	0	0	0	(500)
Low Gas	Increased EE	2024	0.0	0.5	0.0	0	(1,620)	0	0	0	(500)
Abundant Supply	Increased EE	2024	0.0	(0.6)	0.0	0	(1,620)	0	(247)	0	0
Tight Supply	Increased EE	2024	0.0	0.5	0.0	0	(1,620)	0	0	0	(500)
Base Case	Class I	2024	0.0	0.3	0.0	0	0	0	(43)	0	0
High Gas	Class I	2024	0.0	(0.4)	0.0	0	0	0	43	0	0
Low Gas	Class I	2024	0.0	0.0	0.0	0	0	0	0	0	0
Abundant Supply	Class I	2024	0.0	(0.5)	0.0	0	0	0	0	0	0
Tight Supply	Class I	2024	0.0	(0.0)	0.0	0	0	0	0	0	0

Figure 3
Connecticut Power Supply-Related Costs

Market Scenario	Resource Strategy	Year	Energy Cost	Capacity Cost	Additional RPS Cost (RECs/ACPs)	**TOTAL GENERATION SVC COST**	**AVERAGE GENERATION SVC COST**	Gross DSM Cost	DSM Cost Net of FCM & RGGI Revenues	Tx Cost for RPS	**AVG COST**	Retail Load at Customer Meter	**TOTAL COST**
			($Mil)	*($Mil)*	*($Mil)*	*($Mil)*	*(¢/kWh)*	*($Mil)*	*($Mil)*	*($Mil)*	*(¢/kWh)*	*(GWh)*	*($Mil)*
Base Case	**Base**	**2017**	**2,082**	**549**	**277**	**2,907**	**9.74**	**172**	**146**	**60**	**10.43**	**29,856**	**3,113**
High Gas	Base	2017	2,257	549	273	**3,079**	**10.31**	172	146	60	**11.00**	29,856	**3,285**
Low Gas	Base	2017	1,815	549	282	**2,646**	**8.86**	172	146	60	**9.55**	29,856	**2,851**
Abundant Supply	Base	2017	1,938	549	265	**2,751**	**9.65**	172	146	60	**10.37**	28,504	**2,957**
Tight Supply	Base	2017	2,253	549	288	**3,090**	**9.90**	172	146	60	**10.56**	31,208	**3,296**
Base Case	**Base**	**2019**	**2,180**	**1,116**	**334**	**3,631**	**12.16**	**167**	**119**	**60**	**12.76**	**29,854**	**3,810**
High Gas	Base	2019	2,425	1,106	330	**3,861**	**12.93**	167	119	60	**13.53**	29,854	**4,041**
Low Gas	Base	2019	1,827	1,155	341	**3,324**	**11.13**	167	118	60	**11.73**	29,854	**3,501**
Abundant Supply	Base	2019	1,997	251	317	**2,565**	**9.08**	167	145	60	**9.81**	28,247	**2,770**
Tight Supply	Base	2019	2,262	1,383	353	**3,998**	**12.71**	167	112	60	**13.25**	31,465	**4,170**
Base Case	**Base**	**2024**	**2,395**	**1,207**	**328**	**3,930**	**13.13**	**154**	**84**	**60**	**13.61**	**29,929**	**4,074**
High Gas	Base	2024	2,803	1,198	328	**4,330**	**14.47**	154	84	60	**14.95**	29,929	**4,474**
Low Gas	Base	2024	1,867	1,252	334	**3,452**	**11.54**	154	82	60	**12.01**	29,929	**3,594**
Abundant Supply	Base	2024	2,219	1,091	305	**3,615**	**13.03**	154	87	60	**13.56**	27,749	**3,762**
Tight Supply	Base	2024	2,571	1,497	352	**4,420**	**13.76**	154	73	60	**14.18**	32,110	**4,553**
Base Case	Increased EE	2024	2,296	1,207	313	**3,815**	**13.42**	264	167	60	**14.22**	28,429	**4,042**
High Gas	Increased EE	2024	2,671	1,198	313	**4,182**	**14.71**	264	167	60	**15.51**	28,429	**4,410**
Low Gas	Increased EE	2024	1,792	1,252	319	**3,362**	**11.83**	264	164	60	**12.61**	28,429	**3,586**
Abundant Supply	Increased EE	2024	2,083	1,091	290	**3,464**	**13.19**	264	171	60	**14.08**	26,249	**3,695**
Tight Supply	Increased EE	2024	2,471	1,497	336	**4,305**	**14.06**	264	151	60	**14.75**	30,610	**4,516**
Base Case	Class I	2024	2,404	1,207	309	**3,921**	**13.10**	154	84	108	**13.74**	29,929	**4,113**
High Gas	Class I	2024	2,789	1,198	292	**4,280**	**14.30**	154	84	108	**14.94**	29,929	**4,472**
Low Gas	Class I	2024	1,867	1,252	339	**3,458**	**11.55**	154	82	108	**12.19**	29,929	**3,647**
Abundant Supply	Class I	2024	2,202	1,091	287	**3,580**	**12.90**	154	87	108	**13.61**	27,749	**3,775**
Tight Supply	Class I	2024	2,570	1,497	330	**4,397**	**13.69**	154	73	108	**14.26**	32,110	**4,578**

Figure 4
Connecticut Power Supply-Related Costs, Differences Relative to Base Case

Market Scenario	Resource Strategy	Year	Energy Cost	Capacity Cost	Additional RPS Cost (RECs/ACPs)	**TOTAL GENERATION SVC COST**	**AVERAGE GENERATION SVC COST**	Gross DSM Cost	DSM Cost Net of FCM & RGGI Revenues	Tx Cost for RPS	**AVG COST**	Retail Load at Customer Meter	**TOTAL COST**
			($Mil)	*($Mil)*	*($Mil)*	*($Mil)*	*(¢/kWh)*	*($Mil)*	*($Mil)*	*($Mil)*	*(¢/kWh)*	*(GWh)*	*($Mil)*
(DIFFERENCES IN OTHER MARKET SCENARIOS COMPARED TO BASE SCENARIO)													
Base Case	Base	2017	0	0	0	**0**	**0.00**	0	0	0	**0.00**	0	**0**
High Gas	Base	2017	175	0	(4)	**172**	**0.57**	0	0	0	**0.57**	0	**172**
Low Gas	Base	2017	(267)	0	5	**(262)**	**-0.88**	0	0	0	**-0.88**	0	**(262)**
Abundant Supply	Base	2017	(144)	0	(12)	**(156)**	**-0.09**	0	0	0	**-0.05**	(1,352)	**(156)**
Tight Supply	Base	2017	171	0	12	**183**	**0.16**	0	0	0	**0.13**	1,352	**183**
Base Case	Base	2019	0	0	0	**0**	**0.00**	0	0	0	**0.00**	0	**0**
High Gas	Base	2019	244	(10)	(4)	**231**	**0.77**	0	0	0	**0.77**	0	**231**
Low Gas	Base	2019	(353)	39	7	**(307)**	**-1.03**	0	(1)	0	**-1.03**	0	**(308)**
Abundant Supply	Base	2019	(184)	(865)	(17)	**(1,066)**	**-3.08**	0	26	0	**-2.95**	(1,606)	**(1,040)**
Tight Supply	Base	2019	82	267	19	**367**	**0.54**	0	(7)	0	**0.49**	1,611	**360**
Base Case	Base	2024	0	0	0	**0**	**0.00**	0	0	0	**0.00**	0	**0**
High Gas	Base	2024	408	(8)	0	**400**	**1.34**	0	0	0	**1.34**	0	**401**
Low Gas	Base	2024	(528)	45	6	**(477)**	**-1.60**	0	(2)	0	**-1.60**	0	**(480)**
Abundant Supply	Base	2024	(176)	(116)	(23)	**(315)**	**-0.10**	0	3	0	**-0.05**	(2,180)	**(312)**
Tight Supply	Base	2024	176	290	23	**490**	**0.63**	0	(11)	0	**0.57**	2,181	**479**
(DIFFERENCES IN OTHER RESOURCE STRATEGIES COMPARED TO BASE STRATEGY)													
Base Case	Increased EE	2024	(99)	0	(15)	**(115)**	**0.29**	110	83	0	**0.61**	(1,500)	**(32)**
High Gas	Increased EE	2024	(133)	0	(15)	**(148)**	**0.24**	110	83	0	**0.56**	(1,500)	**(65)**
Low Gas	Increased EE	2024	(75)	0	(15)	**(90)**	**0.29**	110	82	0	**0.60**	(1,500)	**(8)**
Abundant Supply	Increased EE	2024	(136)	0	(15)	**(152)**	**0.17**	110	84	0	**0.52**	(1,500)	**(67)**
Tight Supply	Increased EE	2024	(100)	0	(15)	**(115)**	**0.30**	110	78	0	**0.57**	(1,500)	**(37)**
Base Case	Class I	2024	9	0	(19)	**(9)**	**-0.03**	0	0	48	**0.13**	(0)	**39**
High Gas	Class I	2024	(14)	0	(36)	**(50)**	**-0.17**	0	0	48	**-0.01**	(0)	**(2)**
Low Gas	Class I	2024	1	0	5	**5**	**0.02**	0	0	48	**0.18**	(0)	**53**
Abundant Supply	Class I	2024	(17)	0	(17)	**(35)**	**-0.12**	0	0	48	**0.05**	(0)	**13**
Tight Supply	Class I	2024	(1)	0	(22)	**(23)**	**-0.07**	0	0	48	**0.08**	(0)	**25**

Figure 5
Electric Sector Emissions

Market Scenario	Resource Strategy	Year	**ISO-Wide** CO2 Emissions *(Millions of Short Tons)*	**ISO-Wide** SO2 Emissions *(Thousands of Short Tons)*	**ISO-Wide** NOx Emissions *(Thousands of Short Tons)*	**Connecticut** CO2 Emissions *(Millions of Short Tons)*	**Connecticut** SO2 Emissions *(Thousands of Short Tons)*	**Connecticut** NOx Emissions *(Thousands of Short Tons)*	**Connecticut** Ozone Season NOx Emissions *(Short Tons)*	**Connecticut** HEDD (4-Day) NOx Emissions *(Short Tons/Day)*
Base Case	**Base**	**2017**	**37.1**	**4.8**	**8.3**	**9.0**	**1.1**	**1.8**	**582**	**19.6**
High Gas	Base	2017	38.1	5.4	9.0	9.2	1.3	1.9	592	20.0
Low Gas	Base	2017	35.7	4.4	7.5	8.9	1.0	1.7	548	19.5
Abundant Supply	Base	2017	33.5	4.1	7.5	8.3	0.9	1.6	454	18.4
Tight Supply	Base	2017	40.7	5.7	9.2	9.7	1.3	1.9	710	20.9
Base Case	**Base**	**2019**	**36.4**	**4.6**	**7.6**	**9.3**	**1.4**	**1.9**	**596**	**17.4**
High Gas	Base	2019	37.5	5.4	8.5	9.4	1.6	2.1	635	16.9
Low Gas	Base	2019	34.7	4.1	6.8	9.0	1.3	1.8	584	17.1
Abundant Supply	Base	2019	32.1	3.8	6.7	8.3	1.1	1.7	457	15.3
Tight Supply	Base	2019	40.3	4.1	8.1	9.0	1.2	1.8	502	14.6
Base Case	**Base**	**2024**	**36.9**	**4.4**	**8.0**	**8.8**	**1.3**	**1.9**	**474**	**16.8**
High Gas	Base	2024	38.6	6.9	9.5	9.2	1.7	2.2	683	18.2
Low Gas	Base	2024	34.5	3.3	6.7	8.4	1.0	1.6	457	15.8
Abundant Supply	Base	2024	31.2	3.9	7.0	8.1	1.2	1.7	407	14.1
Tight Supply	Base	2024	42.4	4.3	8.9	8.9	1.3	1.9	464	15.8
Base Case	Increased EE	2024	36.3	4.5	8.0	9.0	1.3	1.9	514	16.8
High Gas	Increased EE	2024	38.1	7.3	9.6	9.4	1.8	2.3	729	18.4
Low Gas	Increased EE	2024	33.8	3.4	6.6	8.6	1.0	1.7	470	17.1
Abundant Supply	Increased EE	2024	30.4	3.8	6.9	7.9	1.2	1.7	396	14.1
Tight Supply	Increased EE	2024	41.7	4.4	8.8	9.0	1.3	1.9	456	16.0
Base Case	Class I	2024	36.1	4.2	7.9	8.6	1.3	1.9	450	16.9
High Gas	Class I	2024	37.9	6.8	9.5	9.1	1.7	2.2	702	15.8
Low Gas	Class I	2024	33.8	3.2	6.5	8.3	1.0	1.6	440	15.4
Abundant Supply	Class I	2024	30.5	3.9	7.0	8.0	1.2	1.8	440	16.3
Tight Supply	Class I	2024	41.7	4.2	8.7	8.7	1.2	1.9	440	15.1

Figure 6
Electric Sector Emissions, Differences Relative to Base Case

Market Scenario	Resource Strategy	Year	ISO-Wide CO2 Emissions *(Millions of Short Tons)*	ISO-Wide SO2 Emissions *(Thousands of Short Tons)*	ISO-Wide NOx Emissions *(Thousands of Short Tons)*	Connecticut CO2 Emissions *(Millions of Short Tons)*	Connecticut SO2 Emissions *(Thousands of Short Tons)*	Connecticut NOx Emissions *(Thousands of Short Tons)*	Connecticut Ozone Season NOx Emissions *(Short Tons)*	Connecticut HEDD (4-Day) NOx Emissions *(Short Tons/Day)*
(DIFFERENCES IN OTHER MARKET SCENARIOS COMPARED TO BASE SCENARIO)										
Base Case	Base	2017	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0
High Gas	Base	2017	1.0	0.6	0.7	0.2	0.3	0.2	10	0.4
Low Gas	Base	2017	(1.3)	(0.4)	(0.8)	(0.1)	(0.0)	(0.1)	(33)	(0.1)
Abundant Supply	Base	2017	(3.6)	(0.7)	(0.8)	(0.7)	(0.2)	(0.2)	(127)	(1.2)
Tight Supply	Base	2017	3.6	0.9	0.9	0.7	0.2	0.2	128	1.3
Base Case	Base	2019	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0
High Gas	Base	2019	1.2	0.7	0.8	0.1	0.2	0.2	38	(0.5)
Low Gas	Base	2019	(1.6)	(0.6)	(0.8)	(0.2)	(0.1)	(0.1)	(12)	(0.2)
Abundant Supply	Base	2019	(4.3)	(0.9)	(0.9)	(0.9)	(0.2)	(0.2)	(140)	(2.0)
Tight Supply	Base	2019	3.9	(0.5)	0.5	(0.3)	(0.2)	(0.1)	(94)	(2.7)
Base Case	Base	2024	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0
High Gas	Base	2024	1.7	2.4	1.5	0.4	0.4	0.3	209	1.4
Low Gas	Base	2024	(2.4)	(1.1)	(1.4)	(0.4)	(0.3)	(0.3)	(18)	(1.0)
Abundant Supply	Base	2024	(5.7)	(0.5)	(1.0)	(0.7)	(0.1)	(0.1)	(67)	(2.7)
Tight Supply	Base	2024	5.5	(0.1)	0.9	0.1	0.0	(0.0)	(10)	(1.0)
(DIFFERENCES IN OTHER RESOURCE STRATEGIES COMPARED TO BASE STRATEGY)										
Base Case	Increased EE	2024	(0.6)	0.1	(0.1)	0.2	0.0	0.0	40	0.0
High Gas	Increased EE	2024	(0.6)	0.4	0.0	0.2	0.1	0.1	45	0.1
Low Gas	Increased EE	2024	(0.7)	0.1	(0.1)	0.2	(0.0)	0.0	14	1.3
Abundant Supply	Increased EE	2024	(0.7)	(0.1)	(0.1)	(0.2)	(0.0)	(0.0)	(11)	(0.0)
Tight Supply	Increased EE	2024	(0.7)	0.0	(0.1)	0.1	(0.0)	(0.0)	(8)	0.2
Base Case	Class I	2024	(0.7)	(0.2)	(0.1)	(0.2)	(0.0)	(0.0)	(24)	0.1
High Gas	Class I	2024	(0.7)	(0.1)	(0.1)	(0.1)	0.0	0.0	19	(2.4)
Low Gas	Class I	2024	(0.7)	(0.1)	(0.1)	(0.1)	(0.0)	(0.0)	(17)	(0.4)
Abundant Supply	Class I	2024	(0.7)	0.0	(0.1)	(0.1)	0.1	0.0	32	2.2
Tight Supply	Class I	2024	(0.7)	(0.1)	(0.1)	(0.1)	(0.1)	(0.0)	(24)	(0.7)