

Appendix 5.4

Detailed Scenario Results - Thermal Fleet Unit Utilization: Annual Capacity Factor Tables



Appendix Table 1: Capacity Factors – Thermal Fleet

Scenario 1, Reference Case

Capacity Factors - Thermal Units	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
01 - Ligan 1	30%	43%	30%	24%	23%	24%	17%	15%	13%	11%	12%	17%	3%	4%	6%	15%	22%	11%	20%	12%	19%	14%	22%	17%	27%
02 - Ligan 2	20%	18%	15%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03 - Ligan 3	56%	56%	38%	38%	26%	41%	34%	38%	33%	39%	38%	38%	35%	36%	31%	37%	34%	34%	29%	32%	32%	36%	31%	39%	31%
04 - Ligan 4	48%	53%	36%	37%	38%	32%	33%	35%	25%	28%	28%	22%	19%	16%	18%	-	-	-	-	-	-	-	-	-	-
05 - Point Aconi	75%	72%	59%	78%	77%	72%	81%	72%	81%	86%	78%	85%	72%	74%	78%	80%	74%	77%	65%	77%	86%	77%	73%	78%	63%
06 - Point Tupper	72%	72%	81%	69%	64%	73%	64%	60%	75%	66%	69%	72%	62%	57%	63%	58%	61%	48%	51%	53%	-	-	-	-	-
07 - Trenton 5	40%	39%	24%	16%	26%	27%	21%	13%	5%	6%	2%	2%	0%	2%	1%	9%	4%	2%	1%	1%	1%	6%	3%	3%	5%
08 - Trenton 6	76%	76%	71%	55%	56%	54%	62%	53%	52%	46%	54%	53%	42%	46%	37%	43%	42%	18%	17%	20%	32%	43%	43%	33%	33%
09 - PHBM	58%	53%	53%	54%	52%	49%	53%	54%	52%	50%	42%	50%	50%	47%	49%	48%	49%	55%	51%	52%	50%	49%	54%	48%	55%
11 - Tufts Cove 1	33%	13%	20%	20%	18%	32%	27%	21%	17%	11%	20%	22%	22%	16%	25%	31%	33%	32%	26%	32%	28%	34%	42%	28%	36%
12 - Tufts Cove 2	26%	22%	23%	22%	27%	22%	35%	22%	26%	29%	24%	21%	24%	24%	27%	18%	26%	37%	37%	30%	22%	35%	39%	44%	41%
13 - Tufts Cove 3	9%	6%	16%	2%	8%	3%	0%	7%	0%	5%	6%	3%	4%	3%	10%	2%	5%	9%	15%	17%	23%	19%	13%	18%	14%
14 - Tufts Cove 4	46%	33%	30%	34%	34%	42%	29%	42%	52%	45%	54%	58%	57%	50%	54%	44%	62%	50%	57%	45%	66%	55%	44%	45%	51%
15 - Tufts Cove 5	54%	37%	32%	33%	32%	44%	25%	43%	53%	43%	55%	57%	60%	50%	56%	45%	63%	48%	58%	46%	67%	56%	44%	50%	50%
16 - Tufts Cove 6	25%	14%	19%	17%	17%	21%	13%	22%	28%	23%	30%	32%	32%	28%	30%	24%	34%	26%	32%	24%	37%	31%	25%	25%	29%
New CC	-	-	-	-	-	1%	2%	4%	13%	13%	13%	16%	22%	23%	27%	29%	31%	40%	37%	43%	41%	47%	45%	42%	46%
New CT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6%	3%	3%	9%	12%

Appendix Table 2: Capacity Factors – Thermal Fleet

Scenario 2, Medium DSM

Capacity Factors - Thermal Units	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
01 - Ligan 1	31%	41%	28%	23%	17%	21%	31%	14%	9%	14%	14%	19%	5%	19%	22%	17%	23%	10%	26%	17%	12%	11%	19%	19%	24%
02 - Ligan 2	21%	18%	14%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03 - Ligan 3	57%	56%	38%	42%	27%	33%	42%	26%	35%	39%	41%	38%	38%	38%	38%	37%	31%	35%	23%	28%	32%	35%	29%	29%	30%
04 - Ligan 4	49%	50%	35%	37%	42%	34%	29%	38%	23%	23%	30%	20%	25%	-	-	-	-	-	-	-	-	-	-	-	-
05 - Point Aconi	76%	78%	67%	78%	79%	72%	80%	63%	78%	83%	76%	84%	57%	74%	63%	79%	81%	80%	65%	80%	82%	79%	72%	74%	68%
06 - Point Tupper	71%	72%	78%	71%	68%	74%	60%	49%	64%	66%	63%	64%	63%	55%	54%	59%	63%	49%	48%	50%	49%	45%	50%	51%	-
07 - Trenton 5	36%	40%	28%	14%	25%	33%	20%	21%	19%	8%	9%	11%	0%	3%	4%	7%	3%	4%	4%	3%	2%	1%	1%	0%	4%
08 - Trenton 6	79%	78%	68%	52%	49%	55%	47%	52%	56%	45%	53%	52%	29%	46%	42%	49%	45%	22%	17%	20%	20%	21%	23%	16%	37%
09 - PHBM	60%	54%	52%	55%	50%	48%	53%	50%	51%	51%	47%	44%	51%	46%	51%	46%	50%	54%	54%	53%	50%	46%	57%	48%	53%
11 - Tufts Cove 1	33%	14%	23%	16%	19%	21%	8%	20%	9%	12%	9%	14%	21%	16%	24%	19%	19%	35%	25%	25%	14%	33%	34%	29%	21%
12 - Tufts Cove 2	29%	21%	29%	21%	24%	22%	32%	31%	11%	35%	22%	29%	28%	31%	24%	18%	23%	38%	38%	35%	28%	36%	35%	44%	38%
13 - Tufts Cove 3	8%	3%	8%	2%	7%	6%	3%	4%	5%	0%	5%	3%	15%	4%	14%	6%	7%	12%	19%	22%	24%	28%	12%	10%	11%
14 - Tufts Cove 4	38%	32%	31%	30%	33%	41%	30%	51%	49%	43%	45%	47%	47%	45%	48%	31%	52%	48%	57%	44%	53%	41%	44%	38%	36%
15 - Tufts Cove 5	45%	34%	32%	30%	31%	40%	27%	51%	49%	41%	46%	44%	54%	45%	47%	31%	52%	51%	57%	43%	53%	38%	44%	42%	39%
16 - Tufts Cove 6	21%	16%	20%	16%	16%	20%	13%	28%	27%	21%	23%	25%	28%	23%	25%	12%	27%	24%	33%	24%	29%	19%	26%	22%	19%
New CC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38%
New CT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Appendix Table 3: Capacity Factors – Thermal Fleet

Scenario 4, High Sustaining Capital Costs

Capacity Factors - Thermal Units	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
01 - Ligan 1	30%	58%	39%	38%	32%	29%	32%	31%	23%	20%	20%	34%	18%	18%	15%	16%	22%	11%	16%	9%	6%	10%	12%	13%	24%
02 - Ligan 2	20%	24%	16%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03 - Ligan 3	56%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04 - Ligan 4	48%	64%	50%	46%	47%	42%	48%	46%	40%	43%	43%	33%	38%	33%	38%	37%	38%	32%	33%	34%	34%	35%	36%	35%	29%
05 - Point Aconi	75%	77%	62%	78%	78%	75%	81%	73%	76%	85%	78%	87%	64%	67%	78%	81%	73%	79%	65%	73%	80%	75%	67%	72%	55%
06 - Point Tupper	72%	72%	82%	68%	63%	78%	53%	48%	69%	76%	63%	69%	60%	56%	65%	57%	59%	49%	49%	52%	45%	48%	49%	52%	54%
07 - Trenton 5	40%	54%	32%	25%	29%	37%	26%	19%	15%	12%	11%	4%	1%	3%	2%	9%	2%	0%	0%	2%	1%	2%	3%	1%	3%
08 - Trenton 6	76%	77%	73%	56%	58%	65%	66%	58%	61%	47%	62%	63%	49%	53%	39%	44%	41%	20%	16%	19%	23%	19%	26%	15%	10%
09 - PHBM	58%	55%	55%	54%	51%	52%	53%	51%	49%	54%	45%	48%	50%	44%	50%	46%	49%	53%	50%	53%	49%	45%	53%	50%	52%
11 - Tufts Cove 1	33%	24%	19%	20%	27%	33%	35%	14%	21%	18%	25%	21%	27%	21%	26%	29%	33%	39%	23%	33%	24%	42%	33%	28%	38%
12 - Tufts Cove 2	26%	25%	28%	24%	28%	21%	33%	26%	24%	37%	33%	20%	17%	29%	33%	18%	25%	34%	34%	30%	32%	34%	35%	43%	44%
13 - Tufts Cove 3	9%	3%	7%	2%	1%	3%	1%	6%	1%	1%	1%	2%	2%	5%	2%	6%	2%	12%	18%	17%	8%	12%	6%	15%	11%
14 - Tufts Cove 4	46%	31%	29%	30%	33%	40%	26%	49%	48%	45%	59%	49%	56%	50%	54%	40%	57%	47%	57%	48%	62%	52%	48%	42%	50%
15 - Tufts Cove 5	54%	34%	34%	31%	33%	41%	25%	48%	53%	44%	59%	50%	59%	49%	58%	42%	57%	47%	56%	48%	63%	50%	47%	46%	50%
16 - Tufts Cove 6	25%	12%	20%	15%	18%	18%	14%	27%	27%	24%	33%	27%	30%	28%	30%	22%	32%	25%	32%	26%	34%	28%	26%	24%	28%
New CC	-	-	-	-	-	-	-	-	-	-	-	14%	27%	25%	24%	26%	34%	39%	37%	39%	46%	45%	46%	41%	47%
New CT	-	-	-	1%	1%	1%	5%	0%	1%	1%	1%	2%	1%	1%	1%	1%	3%	3%	8%	1%	6%	4%	3%	11%	11%

Appendix Table 4: Capacity Factors – Thermal Fleet

Scenario 5, Medium DSM, High Sustaining Capital Cost

Capacity Factors - Thermal Units	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
01 - Ligan 1	40%	43%	31%	23%	23%	22%	24%	13%	16%	11%	18%	19%	4%	6%	1%	16%	19%	12%	22%	20%	13%	15%	19%	15%	22%
02 - Ligan 2	21%	17%	15%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03 - Ligan 3	50%	50%	36%	42%	34%	35%	42%	36%	34%	34%	40%	38%	35%	32%	33%	37%	34%	35%	30%	24%	32%	29%	28%	33%	30%
04 - Ligan 4	50%	51%	40%	38%	34%	36%	28%	34%	27%	31%	29%	19%	23%	20%	22%	-	-	-	-	-	-	-	-	-	-
05 - Point Aconi	75%	85%	61%	76%	76%	66%	81%	70%	62%	83%	77%	83%	64%	73%	79%	80%	79%	79%	65%	80%	79%	77%	72%	73%	58%
06 - Point Tupper	70%	73%	78%	69%	60%	75%	64%	48%	67%	67%	61%	65%	67%	61%	64%	60%	63%	50%	47%	55%	50%	46%	49%	50%	58%
07 - Trenton 5	39%	43%	25%	16%	30%	25%	20%	15%	15%	8%	11%	14%	0%	3%	1%	7%	3%	2%	1%	2%	2%	3%	2%	1%	4%
08 - Trenton 6	80%	68%	68%	52%	52%	63%	54%	54%	51%	42%	50%	52%	32%	46%	39%	45%	45%	23%	17%	20%	20%	19%	24%	17%	12%
09 - PHBM	59%	53%	53%	56%	50%	46%	53%	50%	50%	51%	46%	46%	49%	45%	52%	47%	52%	50%	54%	54%	49%	45%	55%	47%	50%
11 - Tufts Cove 1	33%	18%	21%	22%	29%	31%	28%	11%	8%	23%	14%	15%	12%	15%	25%	28%	23%	36%	25%	31%	19%	28%	37%	20%	32%
12 - Tufts Cove 2	29%	23%	24%	23%	24%	23%	33%	29%	12%	35%	26%	27%	25%	31%	27%	16%	26%	40%	39%	35%	30%	37%	38%	39%	40%
13 - Tufts Cove 3	7%	4%	12%	2%	1%	2%	2%	7%	10%	2%	3%	4%	14%	14%	4%	10%	6%	12%	20%	9%	24%	25%	17%	22%	26%
14 - Tufts Cove 4	38%	31%	30%	33%	24%	30%	24%	45%	48%	45%	44%	44%	48%	40%	45%	31%	53%	48%	55%	48%	56%	45%	44%	43%	45%
15 - Tufts Cove 5	45%	35%	34%	32%	22%	31%	27%	44%	48%	42%	45%	44%	47%	38%	44%	32%	51%	49%	56%	45%	56%	43%	42%	45%	47%
16 - Tufts Cove 6	20%	17%	21%	17%	11%	12%	12%	24%	27%	23%	23%	24%	29%	21%	22%	15%	28%	26%	32%	26%	32%	21%	26%	25%	26%
New CC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New CT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Appendix Table 5: Capacity Factors – Thermal Fleet

Scenario 7, High Wind Capacity Credit

Capacity Factors - Thermal Units	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
01 - Ligan 1	32%	41%	31%	25%	23%	20%	17%	19%	14%	12%	16%	18%	4%	10%	6%	5%	12%	4%	11%	0%	5%	4%	7%	4%	14%
02 - Ligan 2	20%	17%	15%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03 - Ligan 3	54%	51%	39%	38%	33%	43%	34%	32%	34%	38%	35%	38%	38%	32%	32%	38%	32%	32%	29%	29%	26%	34%	32%	30%	29%
04 - Ligan 4	48%	52%	37%	37%	27%	30%	38%	34%	22%	20%	26%	20%	23%	24%	22%	17%	24%	20%	14%	13%	22%	18%	23%	27%	18%
05 - Point Aconi	74%	84%	61%	77%	79%	73%	80%	57%	78%	83%	68%	86%	64%	66%	76%	79%	77%	79%	69%	79%	84%	80%	71%	76%	64%
06 - Point Tupper	71%	73%	82%	69%	54%	73%	66%	52%	63%	67%	66%	72%	55%	51%	61%	61%	62%	47%	40%	52%	-	-	-	-	-
07 - Trenton 5	44%	41%	22%	16%	31%	33%	20%	19%	12%	9%	9%	14%	1%	3%	2%	7%	2%	1%	2%	1%	1%	6%	3%	5%	6%
08 - Trenton 6	76%	71%	71%	55%	57%	52%	59%	52%	57%	49%	54%	48%	34%	42%	29%	33%	28%	24%	20%	17%	32%	34%	40%	27%	31%
09 - PHBM	59%	52%	52%	55%	53%	48%	55%	51%	51%	53%	46%	50%	50%	48%	50%	47%	50%	54%	52%	52%	51%	51%	54%	48%	50%
11 - Tufts Cove 1	37%	14%	20%	20%	20%	31%	29%	20%	26%	25%	22%	26%	38%	34%	39%	35%	35%	41%	32%	27%	31%	34%	42%	30%	40%
12 - Tufts Cove 2	26%	21%	23%	19%	27%	28%	35%	28%	31%	33%	33%	33%	38%	36%	34%	24%	37%	45%	39%	35%	23%	35%	39%	43%	47%
13 - Tufts Cove 3	7%	10%	17%	1%	2%	4%	2%	15%	7%	6%	11%	6%	15%	19%	15%	22%	11%	17%	33%	11%	23%	21%	10%	24%	18%
14 - Tufts Cove 4	44%	29%	26%	30%	31%	35%	33%	49%	45%	51%	57%	54%	61%	54%	54%	50%	66%	59%	64%	53%	64%	49%	43%	40%	53%
15 - Tufts Cove 5	52%	31%	28%	29%	29%	37%	32%	46%	51%	47%	57%	54%	62%	53%	56%	53%	66%	62%	67%	47%	64%	51%	41%	47%	55%
16 - Tufts Cove 6	22%	13%	17%	13%	14%	18%	16%	27%	26%	26%	32%	31%	37%	28%	30%	30%	41%	34%	41%	27%	36%	27%	24%	24%	31%
New CC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41%	40%	47%	48%	38%	46%
New CT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Appendix Table 6: Capacity Factors – Thermal Fleet

Scenario 8, Medium DSM, High Wind Capacity Credit

Capacity Factors - Thermal Units	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
01 - Ligan 1	40%	43%	31%	23%	23%	25%	20%	12%	14%	26%	27%	29%	18%	19%	18%	16%	20%	15%	22%	22%	13%	11%	19%	12%	22%
02 - Ligan 2	21%	17%	15%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03 - Ligan 3	50%	50%	36%	42%	34%	41%	37%	28%	36%	40%	39%	33%	36%	39%	34%	37%	33%	29%	25%	22%	32%	34%	29%	34%	34%
04 - Ligan 4	50%	51%	40%	38%	34%	26%	34%	40%	26%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05 - Point Aconi	75%	85%	61%	76%	76%	60%	71%	63%	61%	85%	76%	85%	71%	72%	77%	80%	80%	79%	65%	80%	82%	77%	74%	75%	66%
06 - Point Tupper	70%	73%	78%	69%	60%	75%	66%	54%	69%	69%	70%	72%	59%	62%	63%	59%	62%	46%	50%	51%	51%	43%	43%	53%	-
07 - Trenton 5	39%	43%	25%	16%	30%	33%	21%	14%	19%	12%	20%	20%	4%	3%	5%	6%	6%	6%	4%	4%	2%	2%	3%	1%	7%
08 - Trenton 6	80%	68%	68%	52%	52%	53%	58%	50%	46%	50%	54%	53%	41%	42%	37%	49%	45%	24%	18%	19%	18%	20%	24%	16%	31%
09 - PHBM	59%	53%	53%	56%	50%	48%	55%	52%	50%	52%	45%	47%	49%	45%	50%	47%	49%	51%	54%	54%	49%	46%	58%	46%	51%
11 - Tufts Cove 1	33%	18%	21%	22%	29%	31%	25%	29%	3%	11%	11%	8%	22%	21%	24%	20%	23%	35%	24%	29%	15%	37%	32%	23%	36%
12 - Tufts Cove 2	29%	23%	24%	23%	24%	21%	25%	31%	12%	26%	22%	25%	31%	33%	33%	15%	27%	37%	34%	33%	30%	36%	38%	41%	46%
13 - Tufts Cove 3	7%	4%	12%	2%	1%	1%	3%	4%	15%	2%	2%	7%	7%	6%	5%	10%	7%	18%	25%	20%	23%	25%	15%	17%	27%
14 - Tufts Cove 4	38%	31%	30%	33%	24%	38%	35%	49%	47%	43%	45%	54%	49%	46%	46%	37%	52%	45%	55%	41%	58%	46%	49%	37%	48%
15 - Tufts Cove 5	45%	35%	34%	32%	22%	41%	31%	47%	51%	40%	47%	53%	51%	44%	50%	37%	52%	48%	56%	40%	57%	45%	48%	42%	51%
16 - Tufts Cove 6	20%	17%	21%	17%	11%	20%	17%	25%	26%	23%	22%	30%	29%	24%	24%	18%	27%	25%	32%	22%	30%	23%	28%	21%	28%
New CC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New CT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Appendix Table 7: Capacity Factors – Thermal Fleet

Scenario 13, NB Transmission, Additional Wind

Capacity Factors - Thermal Units	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
01 - Lingan 1	32%	41%	31%	25%	23%	27%	23%	18%	14%	9%	11%	21%	5%	7%	7%	21%	20%	7%	17%	10%	11%	14%	21%	15%	23%
02 - Lingan 2	20%	17%	15%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03 - Lingan 3	54%	51%	39%	38%	33%	40%	39%	39%	35%	41%	43%	40%	35%	36%	34%	38%	34%	33%	33%	33%	29%	35%	30%	35%	32%
04 - Lingan 4	48%	52%	37%	37%	27%	33%	37%	35%	25%	28%	30%	16%	20%	20%	22%	-	-	-	-	-	-	-	-	-	-
05 - Point Aconi	74%	84%	61%	77%	79%	69%	81%	62%	74%	78%	74%	74%	68%	65%	76%	71%	78%	76%	64%	79%	78%	67%	63%	68%	54%
06 - Point Tupper	71%	73%	82%	69%	54%	73%	58%	65%	68%	70%	62%	64%	58%	58%	63%	64%	65%	45%	46%	55%	52%	46%	47%	46%	51%
07 - Trenton 5	44%	41%	22%	16%	31%	29%	16%	7%	18%	13%	11%	14%	4%	4%	3%	7%	7%	4%	0%	1%	1%	3%	3%	1%	2%
08 - Trenton 6	76%	71%	71%	55%	57%	51%	52%	55%	43%	38%	50%	54%	39%	39%	30%	39%	42%	30%	17%	18%	17%	18%	25%	15%	11%
09 - PHBM	59%	52%	52%	55%	53%	47%	51%	52%	49%	51%	42%	46%	48%	46%	49%	49%	47%	47%	50%	49%	47%	47%	54%	47%	50%
11 - Tufts Cove 1	37%	14%	20%	20%	20%	25%	16%	11%	4%	7%	11%	9%	6%	17%	13%	16%	10%	18%	29%	20%	9%	31%	17%	16%	23%
12 - Tufts Cove 2	26%	21%	23%	19%	27%	17%	30%	9%	13%	24%	17%	15%	25%	30%	23%	10%	13%	35%	30%	32%	29%	36%	31%	41%	39%
13 - Tufts Cove 3	7%	10%	17%	1%	2%	4%	2%	6%	3%	5%	4%	7%	12%	12%	4%	10%	6%	6%	14%	5%	14%	14%	11%	12%	10%
14 - Tufts Cove 4	44%	29%	26%	30%	31%	37%	30%	39%	40%	21%	30%	20%	37%	32%	25%	21%	37%	26%	32%	29%	44%	29%	31%	29%	39%
15 - Tufts Cove 5	52%	31%	28%	29%	29%	37%	29%	36%	38%	19%	29%	21%	38%	32%	24%	22%	37%	27%	31%	29%	44%	28%	32%	33%	40%
16 - Tufts Cove 6	22%	13%	17%	13%	14%	18%	15%	20%	19%	9%	13%	8%	19%	16%	11%	11%	19%	13%	16%	15%	22%	14%	17%	15%	22%
New CC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9%	11%	14%	25%	21%	24%	28%	25%	30%	30%	34%
New CT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Appendix Table 8: Capacity Factors – Thermal Fleet

Scenario 14, Medium DMS, NB Transmission

Capacity Factors - Thermal Units	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
01 - Lingan 1	40%	40%	28%	23%	26%	26%	23%	21%	23%	29%	31%	30%	28%	25%	20%	20%	24%	12%	22%	11%	15%	13%	24%	18%	26%
02 - Lingan 2	20%	17%	15%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03 - Lingan 3	52%	55%	38%	41%	33%	45%	42%	37%	40%	43%	42%	40%	36%	36%	37%	38%	33%	35%	33%	32%	27%	35%	32%	35%	35%
04 - Lingan 4	48%	49%	36%	37%	40%	28%	37%	35%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05 - Point Aconi	75%	77%	67%	79%	76%	72%	80%	56%	73%	78%	72%	80%	60%	65%	72%	71%	69%	72%	61%	78%	78%	66%	63%	57%	63%
06 - Point Tupper	65%	72%	78%	71%	56%	71%	63%	63%	69%	67%	70%	71%	57%	60%	64%	57%	62%	41%	40%	51%	51%	45%	43%	47%	-
07 - Trenton 5	39%	44%	28%	12%	25%	28%	18%	5%	20%	12%	13%	19%	4%	3%	8%	11%	10%	5%	1%	1%	1%	3%	3%	1%	6%
08 - Trenton 6	80%	76%	68%	52%	51%	49%	47%	54%	52%	38%	50%	45%	36%	41%	32%	44%	40%	24%	16%	19%	16%	18%	23%	18%	28%
09 - PHBM	59%	53%	53%	54%	51%	48%	51%	54%	52%	52%	44%	45%	47%	45%	51%	48%	47%	49%	48%	49%	46%	46%	53%	47%	51%
11 - Tufts Cove 1	34%	16%	22%	17%	22%	24%	13%	5%	7%	0%	1%	4%	10%	7%	12%	14%	9%	25%	16%	21%	18%	24%	23%	19%	24%
12 - Tufts Cove 2	27%	21%	28%	22%	21%	16%	18%	11%	5%	22%	14%	19%	25%	25%	27%	17%	16%	37%	41%	37%	32%	36%	34%	32%	42%
13 - Tufts Cove 3	7%	5%	9%	1%	1%	3%	2%	4%	5%	2%	7%	1%	8%	7%	3%	3%	9%	12%	17%	9%	8%	17%	12%	20%	22%
14 - Tufts Cove 4	46%	34%	28%	31%	34%	32%	15%	31%	15%	14%	12%	15%	20%	16%	21%	13%	26%	23%	28%	22%	29%	19%	26%	24%	28%
15 - Tufts Cove 5	49%	36%	30%	31%	32%	31%	15%	30%	16%	12%	10%	14%	20%	17%	21%	13%	27%	23%	30%	21%	27%	18%	26%	26%	28%
16 - Tufts Cove 6	23%	15%	18%	16%	17%	16%	7%	14%	7%	5%	5%	6%	9%	8%	10%	6%	13%	12%	13%	11%	13%	9%	12%	13%	16%
New CC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New CT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Appendix Table 9: Capacity Factors – Thermal Fleet

Scenario 16, NB Transmission, High Wind Capacity Credit, 600 MW Wind

Capacity Factors - Thermal Units	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
01 - Lingan 1	34%	41%	30%	23%	21%	37%	44%	32%	28%	29%	29%	30%	20%	25%	20%	20%	21%	15%	22%	18%	15%	11%	21%	18%	21%
02 - Lingan 2	21%	17%	15%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03 - Lingan 3	56%	55%	39%	42%	34%	45%	40%	42%	41%	44%	44%	42%	37%	35%	36%	39%	35%	32%	27%	29%	31%	36%	31%	28%	33%
04 - Lingan 4	48%	50%	37%	37%	37%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05 - Point Aconi	77%	77%	61%	76%	77%	66%	78%	70%	66%	80%	75%	67%	68%	66%	76%	70%	78%	78%	67%	76%	77%	75%	72%	74%	63%
06 - Point Tupper	76%	73%	82%	66%	58%	76%	65%	56%	66%	71%	67%	73%	60%	60%	62%	63%	64%	40%	46%	48%	42%	51%	43%	50%	49%
07 - Trenton 5	33%	41%	22%	18%	25%	37%	24%	19%	23%	10%	13%	20%	9%	5%	6%	8%	6%	6%	5%	2%	3%	4%	4%	3%	4%
08 - Trenton 6	77%	77%	72%	50%	55%	61%	55%	57%	52%	43%	47%	48%	37%	40%	36%	37%	43%	25%	16%	19%	20%	21%	25%	16%	13%
09 - PHBM	58%	52%	53%	55%	52%	48%	51%	50%	50%	50%	45%	45%	48%	45%	47%	47%	48%	48%	53%	52%	47%	45%	56%	44%	50%
11 - Tufts Cove 1	34%	13%	19%	26%	26%	23%	5%	14%	10%	5%	5%	9%	9%	17%	20%	27%	22%	29%	17%	26%	25%	31%	30%	19%	28%
12 - Tufts Cove 2	25%	21%	23%	29%	28%	19%	31%	11%	14%	27%	29%	16%	27%	28%	34%	19%	25%	39%	41%	35%	33%	38%	38%	42%	42%
13 - Tufts Cove 3	8%	5%	16%	1%	2%	3%	6%	7%	9%	4%	8%	6%	11%	11%	5%	12%	9%	25%	24%	19%	27%	21%	16%	23%	23%
14 - Tufts Cove 4	44%	32%	29%	29%	27%	35%	15%	32%	29%	19%	24%	26%	36%	27%	30%	23%	41%	32%	40%	39%	46%	40%	39%	33%	38%
15 - Tufts Cove 5	49%	38%	32%	30%	28%	34%	17%	34%	29%	18%	22%	24%	35%	28%	35%	25%	39%	35%	44%	37%	47%	39%	40%	36%	39%
16 - Tufts Cove 6	24%	16%	20%	15%	12%	17%	7%	16%	14%	8%	11%	11%	19%	14%	14%	11%	20%	17%	23%	21%	25%	21%	23%	18%	22%
New CC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New CT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Appendix Table 10: Capacity Factors – Thermal Fleet

Scenario 17, Medium DMS, NB Transmission, High Wind Capacity Credit

Capacity Factors - Thermal Units	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
01 - Ligan 1	40%	43%	31%	23%	23%	31%	36%	36%	27%	29%	33%	30%	27%	21%	19%	23%	23%	13%	24%	12%	17%	15%	25%	16%	26%
02 - Ligan 2	21%	17%	15%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03 - Ligan 3	50%	50%	36%	42%	34%	46%	47%	40%	39%	45%	43%	41%	38%	39%	37%	39%	34%	36%	30%	32%	27%	35%	31%	34%	34%
04 - Ligan 4	50%	51%	40%	38%	34%	25%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05 - Point Aconi	75%	85%	61%	76%	76%	61%	80%	62%	66%	75%	69%	79%	57%	64%	72%	64%	70%	70%	59%	77%	78%	62%	59%	65%	61%
06 - Point Tupper	70%	73%	78%	69%	60%	74%	58%	63%	70%	71%	66%	72%	56%	55%	64%	57%	64%	41%	38%	49%	48%	42%	45%	42%	-
07 - Trenton 5	39%	43%	25%	16%	30%	29%	23%	17%	20%	10%	11%	19%	4%	4%	9%	11%	7%	4%	1%	1%	1%	3%	4%	1%	7%
08 - Trenton 6	80%	68%	68%	52%	52%	46%	59%	52%	48%	39%	49%	46%	39%	46%	30%	40%	42%	22%	18%	22%	16%	20%	23%	22%	28%
09 - PHBM	59%	53%	53%	56%	50%	46%	50%	53%	52%	52%	44%	45%	47%	45%	52%	49%	48%	50%	48%	48%	46%	46%	53%	47%	51%
11 - Tufts Cove 1	33%	18%	21%	22%	29%	13%	11%	10%	1%	0%	3%	4%	13%	11%	12%	14%	11%	31%	18%	30%	19%	25%	24%	27%	27%
12 - Tufts Cove 2	29%	23%	24%	23%	24%	17%	24%	16%	12%	22%	15%	15%	23%	22%	30%	21%	19%	38%	39%	33%	32%	35%	32%	41%	41%
13 - Tufts Cove 3	7%	4%	12%	2%	1%	4%	5%	4%	8%	6%	10%	3%	8%	8%	4%	4%	9%	12%	19%	9%	9%	19%	13%	12%	24%
14 - Tufts Cove 4	38%	31%	30%	33%	24%	36%	14%	26%	26%	14%	11%	12%	17%	14%	15%	12%	22%	22%	22%	22%	30%	20%	24%	18%	31%
15 - Tufts Cove 5	45%	35%	34%	32%	22%	35%	13%	27%	25%	10%	11%	12%	18%	15%	16%	12%	22%	21%	22%	22%	31%	20%	23%	20%	32%
16 - Tufts Cove 6	20%	17%	21%	17%	11%	18%	6%	13%	12%	5%	5%	6%	9%	7%	6%	6%	10%	11%	11%	11%	14%	10%	14%	9%	17%
New CC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New CT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Appendix Table 11: Capacity Factors – Thermal Fleet

Scenario 25, Retirement Path

Capacity Factors - Thermal Units	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
01 - Ligan 1	27%	42%	31%	20%	25%	46%	21%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02 - Ligan 2	20%	18%	15%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03 - Ligan 3	54%	55%	30%	35%	30%	13%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04 - Ligan 4	52%	50%	37%	32%	13%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05 - Point Aconi	78%	78%	63%	63%	75%	62%	75%	64%	77%	84%	77%	77%	59%	74%	78%	77%	78%	80%	67%	83%	73%	54%	52%	63%	49%
06 - Point Tupper	67%	71%	79%	68%	65%	78%	76%	76%	80%	83%	82%	84%	78%	78%	81%	77%	81%	69%	64%	74%	74%	67%	78%	73%	79%
07 - Trenton 5	39%	43%	29%	14%	33%	37%	28%	17%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08 - Trenton 6	78%	75%	70%	57%	55%	63%	48%	62%	72%	63%	74%	73%	72%	68%	69%	70%	72%	65%	68%	61%	64%	64%	66%	51%	51%
09 - PHBM	60%	54%	53%	58%	49%	48%	47%	57%	55%	59%	51%	52%	52%	54%	54%	59%	61%	57%	61%	56%	52%	53%	57%	53%	57%
11 - Tufts Cove 1	33%	25%	31%	16%	21%	16%	15%	23%	1%	6%	4%	0%	10%	2%	2%	3%	0%	1%	0%	2%	1%	5%	0%	0%	1%
12 - Tufts Cove 2	23%	23%	35%	26%	22%	19%	29%	13%	8%	12%	4%	3%	7%	9%	3%	4%	1%	6%	4%	5%	3%	10%	2%	2%	6%
13 - Tufts Cove 3	9%	4%	7%	8%	3%	2%	8%	0%	0%	0%	3%	5%	1%	2%	2%	1%	0%	1%	0%	0%	0%	0%	0%	0%	1%
14 - Tufts Cove 4	51%	33%	29%	32%	23%	23%	30%	40%	35%	25%	30%	30%	39%	28%	30%	25%	38%	37%	41%	38%	48%	41%	40%	34%	36%
15 - Tufts Cove 5	58%	37%	30%	33%	21%	23%	29%	42%	35%	26%	30%	29%	39%	30%	30%	22%	41%	38%	42%	35%	50%	41%	40%	36%	36%
16 - Tufts Cove 6	30%	16%	17%	17%	10%	12%	15%	21%	17%	11%	14%	14%	20%	15%	15%	11%	19%	19%	22%	19%	25%	21%	20%	16%	18%
New CC	-	-	-	-	-	-	-	11%	9%	9%	8%	10%	9%	9%	10%	12%	13%	14%	12%	13%	13%	16%	15%	21%	21%
New CT	-	-	-	-	-	2%	3%	2%	2%	1%	4%	2%	2%	2%	2%	2%	2%	1%	1%	1%	1%	3%	1%	2%	3%

Appendix Table 12: Capacity Factors – Thermal Fleet

Scenario 26, Medium DSM, Retirement Path

Capacity Factors - Thermal Units	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
01 - Ligan 1	26%	41%	31%	21%	23%	48%	19%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02 - Ligan 2	19%	17%	15%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03 - Ligan 3	53%	54%	29%	41%	32%	15%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04 - Ligan 4	45%	50%	36%	25%	13%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05 - Point Aconi	78%	75%	65%	61%	76%	64%	74%	69%	69%	84%	52%	61%	49%	27%	46%	50%	68%	80%	45%	50%	66%	55%	59%	53%	-
06 - Point Tupper	68%	70%	78%	68%	66%	77%	75%	72%	81%	80%	80%	80%	75%	77%	82%	77%	79%	68%	69%	77%	75%	65%	72%	72%	80%
07 - Trenton 5	45%	43%	31%	17%	34%	36%	28%	16%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08 - Trenton 6	79%	74%	70%	57%	55%	56%	53%	58%	58%	47%	69%	70%	66%	71%	58%	65%	62%	61%	61%	57%	54%	66%	63%	55%	61%
09 - PHBM	62%	53%	54%	56%	45%	50%	49%	56%	53%	54%	46%	53%	52%	52%	53%	55%	54%	50%	59%	56%	58%	53%	55%	52%	59%
11 - Tufts Cove 1	27%	24%	17%	15%	15%	7%	3%	1%	6%	5%	3%	0%	10%	2%	8%	5%	0%	0%	0%	5%	0%	0%	0%	0%	0%
12 - Tufts Cove 2	28%	22%	33%	25%	24%	15%	23%	16%	5%	9%	4%	5%	3%	2%	7%	3%	0%	6%	0%	5%	0%	4%	1%	1%	4%
13 - Tufts Cove 3	11%	5%	8%	7%	3%	1%	2%	1%	0%	0%	4%	0%	0%	2%	0%	2%	0%	0%	0%	1%	0%	0%	0%	0%	0%
14 - Tufts Cove 4	46%	37%	31%	31%	21%	23%	25%	37%	33%	25%	28%	26%	33%	32%	24%	18%	27%	17%	27%	24%	30%	21%	24%	20%	29%
15 - Tufts Cove 5	55%	43%	33%	32%	20%	23%	25%	38%	33%	23%	27%	27%	35%	29%	24%	20%	26%	16%	30%	25%	32%	20%	21%	22%	31%
16 - Tufts Cove 6	26%	18%	19%	17%	10%	11%	14%	19%	17%	10%	13%	13%	19%	14%	11%	9%	12%	6%	13%	13%	16%	10%	12%	8%	16%
New CC	-	-	-	-	-	-	-	-	10%	11%	12%	13%	7%	13%	12%	9%	12%	12%	12%	16%	8%	13%	12%	19%	26%
New CT	-	-	-	-	-	1%	2%	2%	1%	1%	1%	1%	1%	2%	1%	2%	1%	1%	2%	1%	2%	2%	1%	3%	5%

Appendix 5.5

Detailed Scenario Results – Energy by Fuel Type



Figure 1: Annual Energy By Fuel Type
Scenario 1, Reference Case

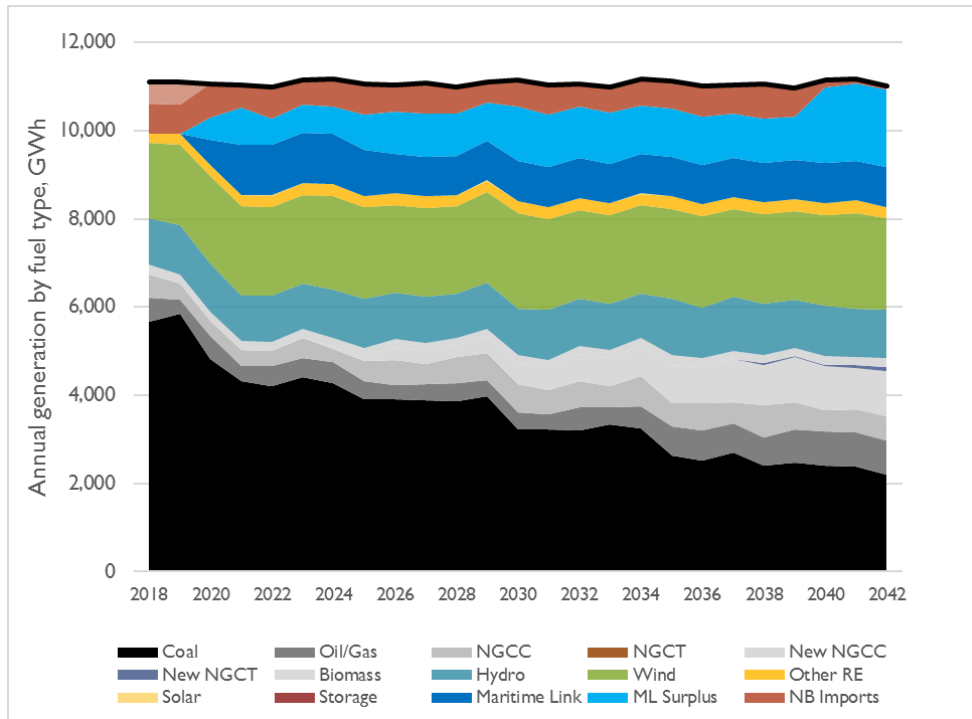


Figure 2: Annual Energy By Fuel Type
Scenario 2, Medium DSM

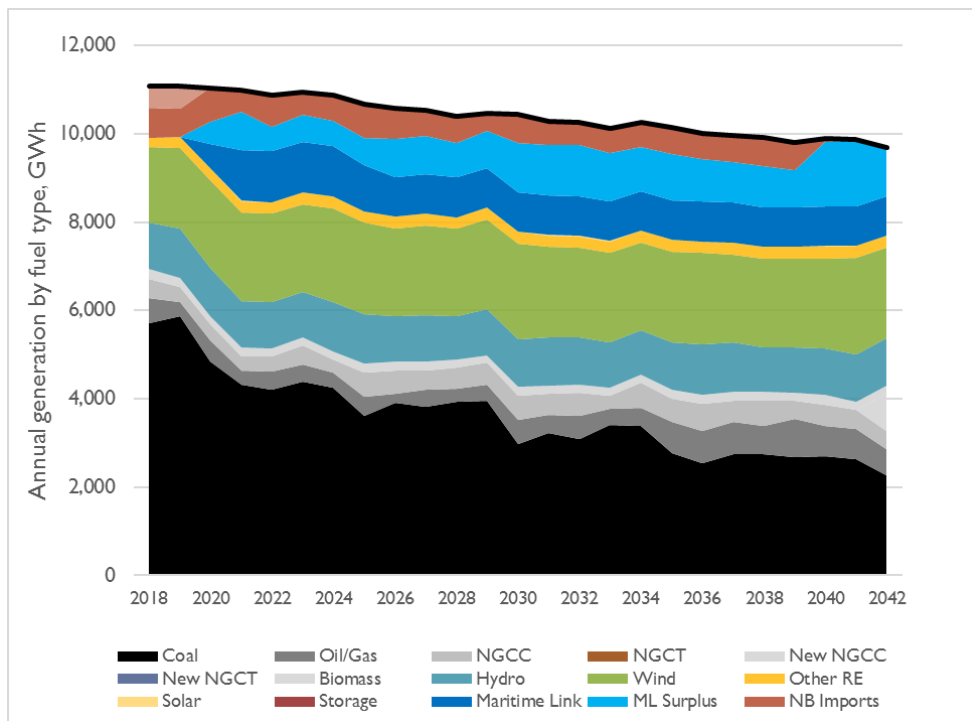


Figure 3: Annual Energy By Fuel Type
Scenario 4, High Sustaining Capital Costs

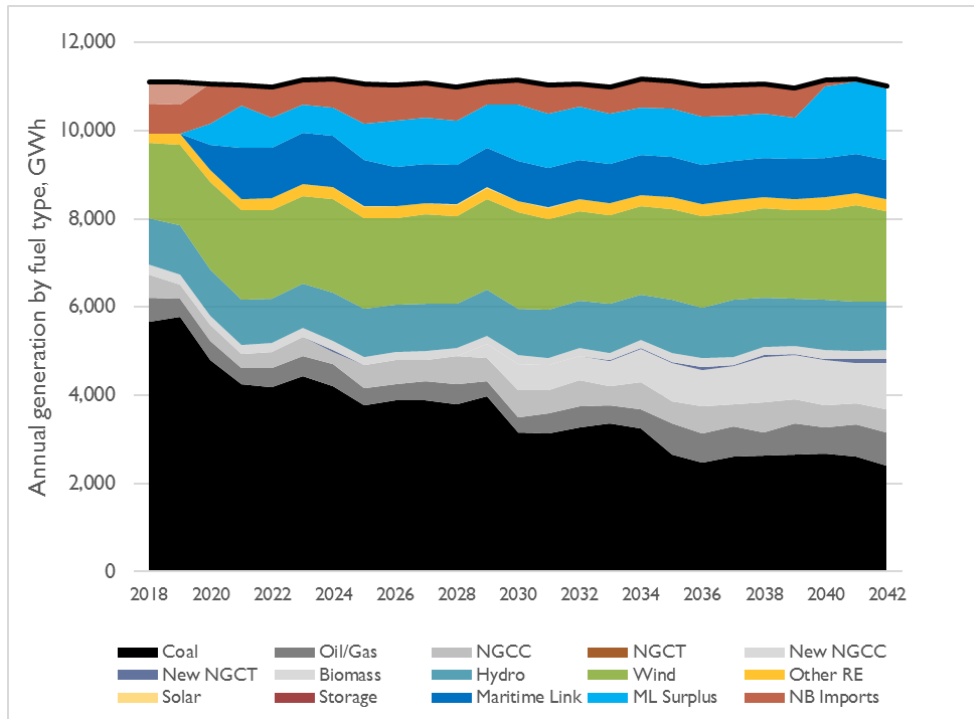


Figure 4: Scenario 5 Annual Energy By Fuel Type
Scenario 5, Medium DSM, High Sustaining Capital Costs

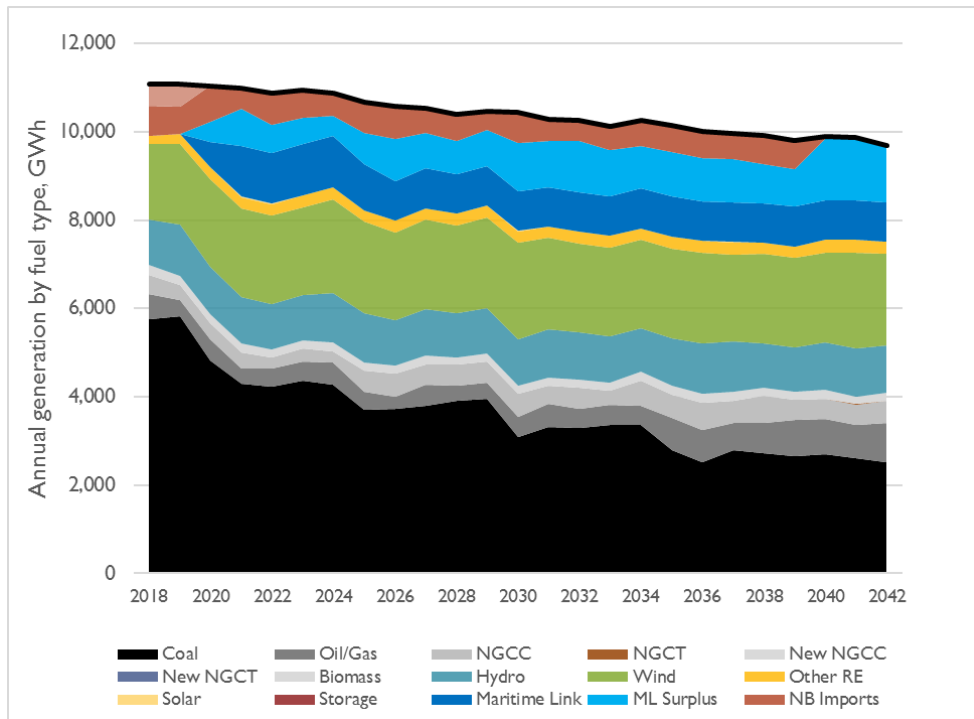


Figure 5: Annual Energy By Fuel Type

Scenario 7, High Wind Capacity Credit

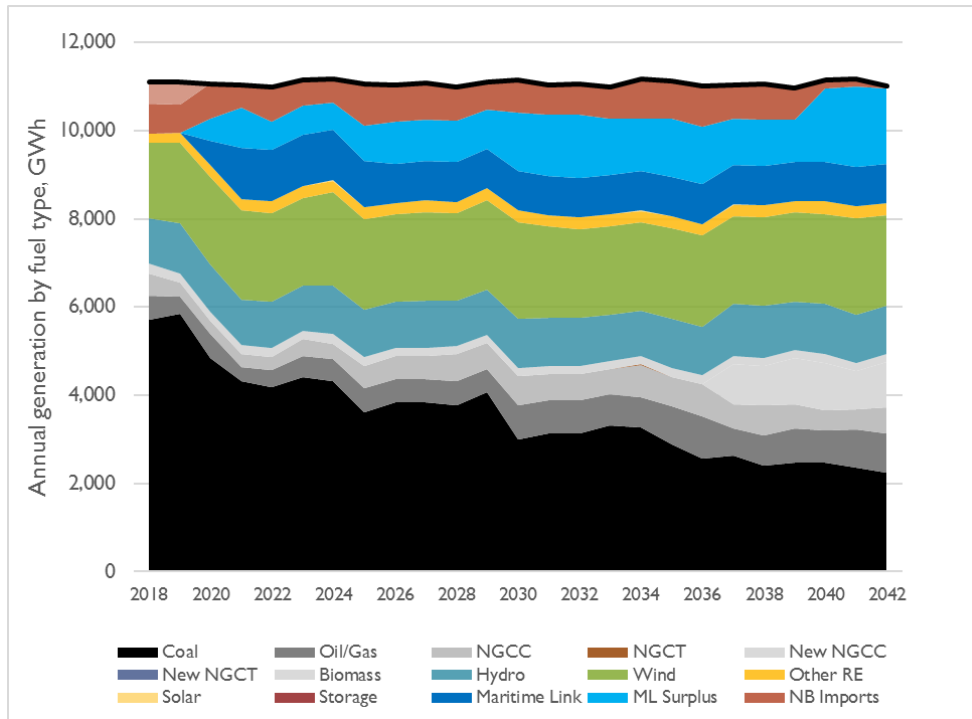


Figure 6: Annual Energy By Fuel Type

Scenario 8, Medium DSM, High Wind Capacity Credit

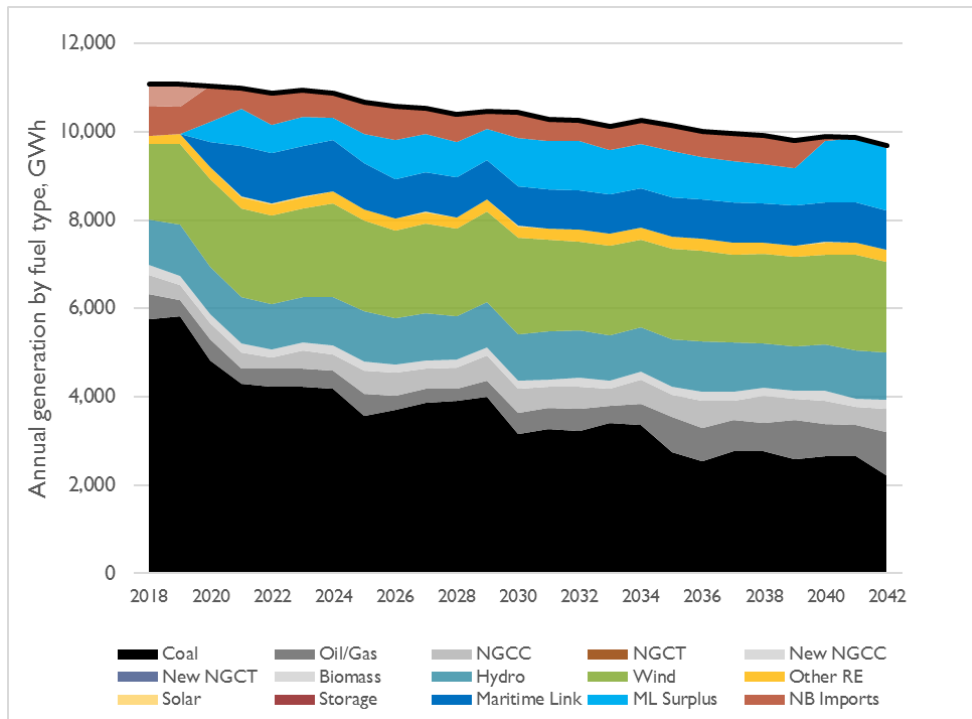


Figure 7: Annual Energy By Fuel Type

Scenario 13, NB Transmissions, Additional Wind

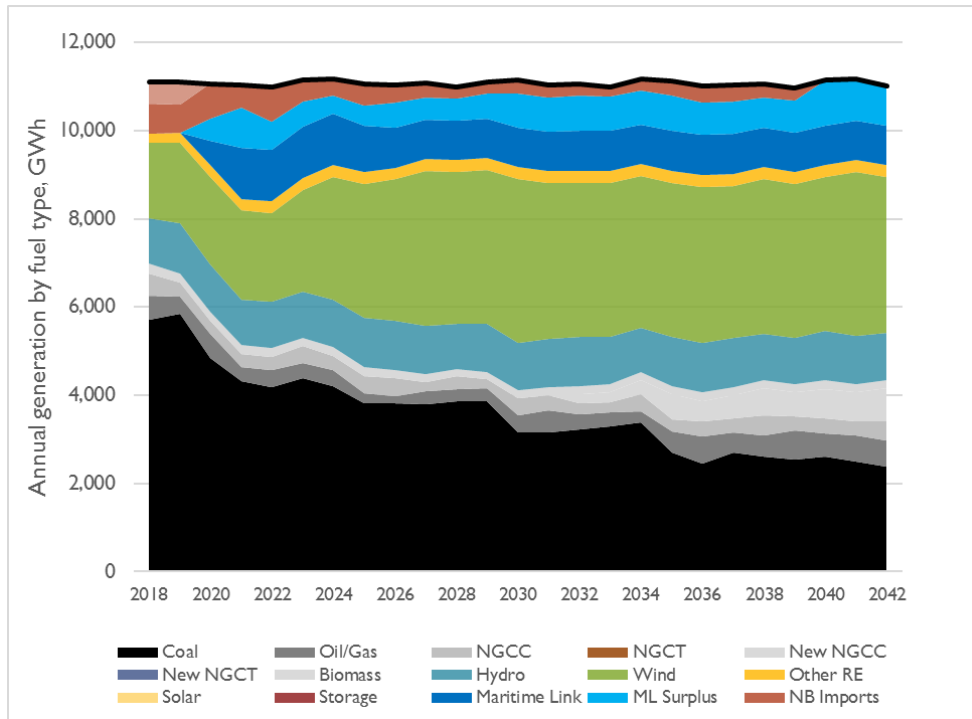


Figure 8: Annual Energy By Fuel Type

Scenario 14, Medium DSM, NB Transmission

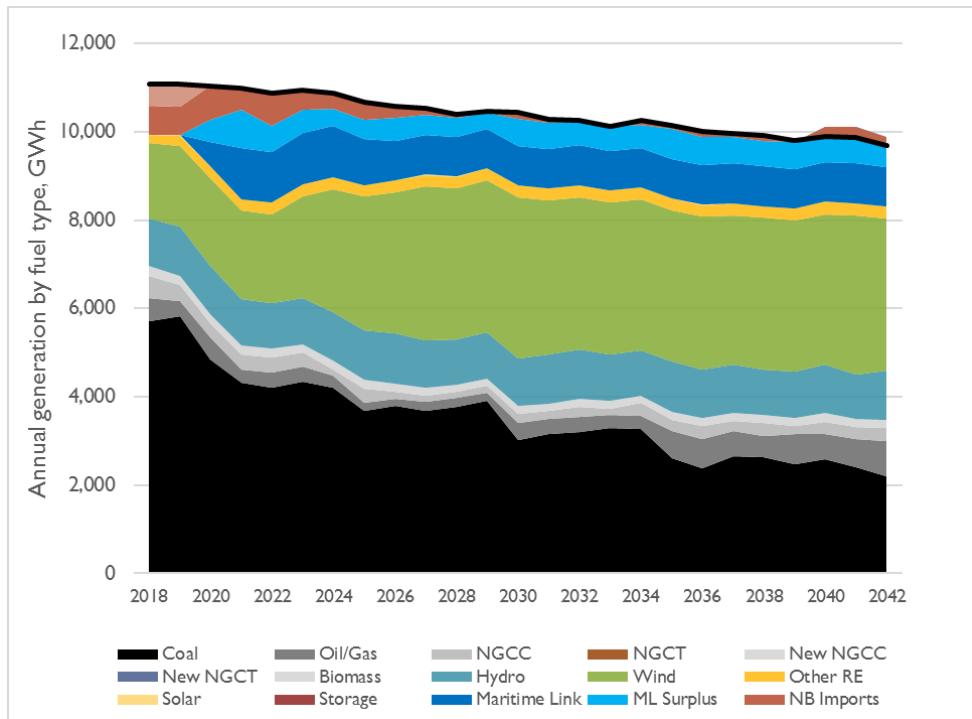


Figure 9: Annual Energy By Fuel Type

Scenario 16, NB Transmission, High Wind Capacity Credit, 600 MW Wind

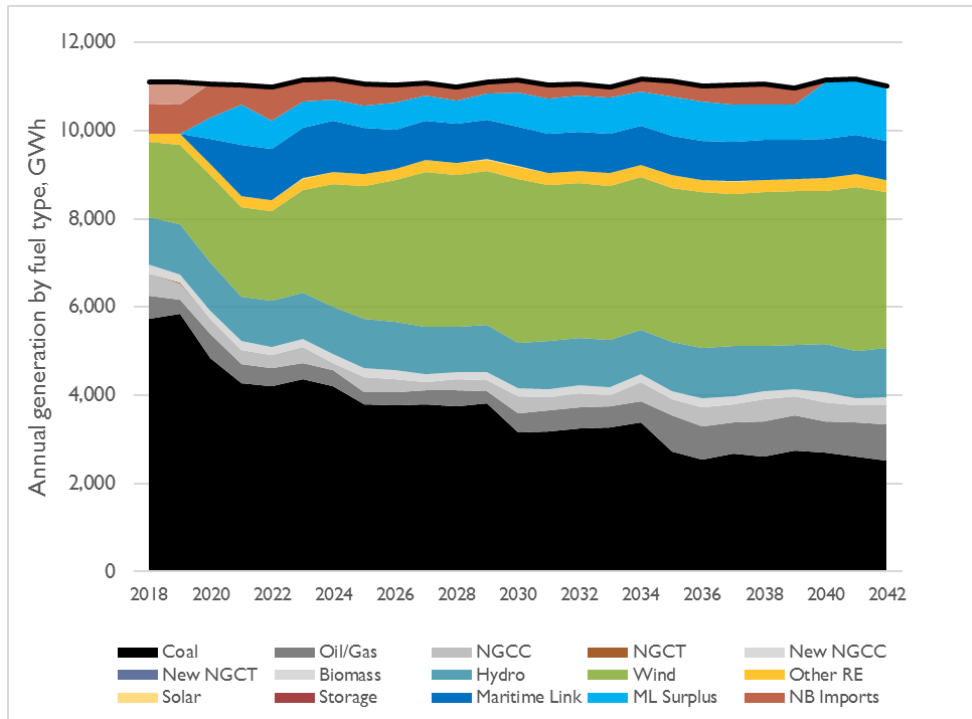


Figure 10: Annual Energy By Fuel Type

Scenario 17, Medium DSM, NB Transmission, High Wind Capacity Credit

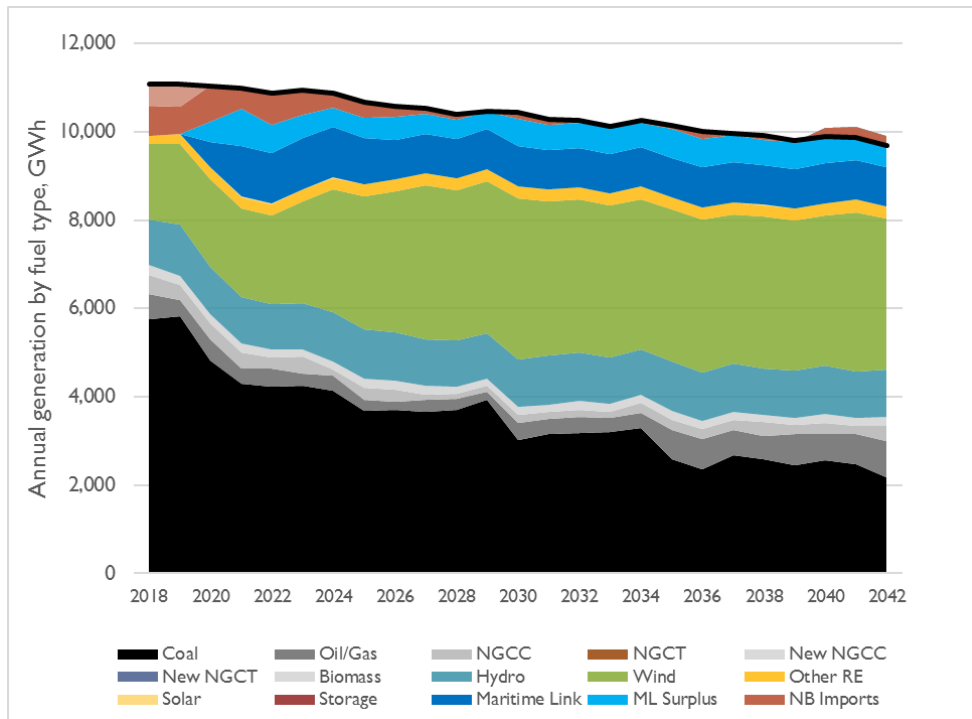


Figure 11: Annual Energy By Fuel Type

Scenario 25, Retirement Path

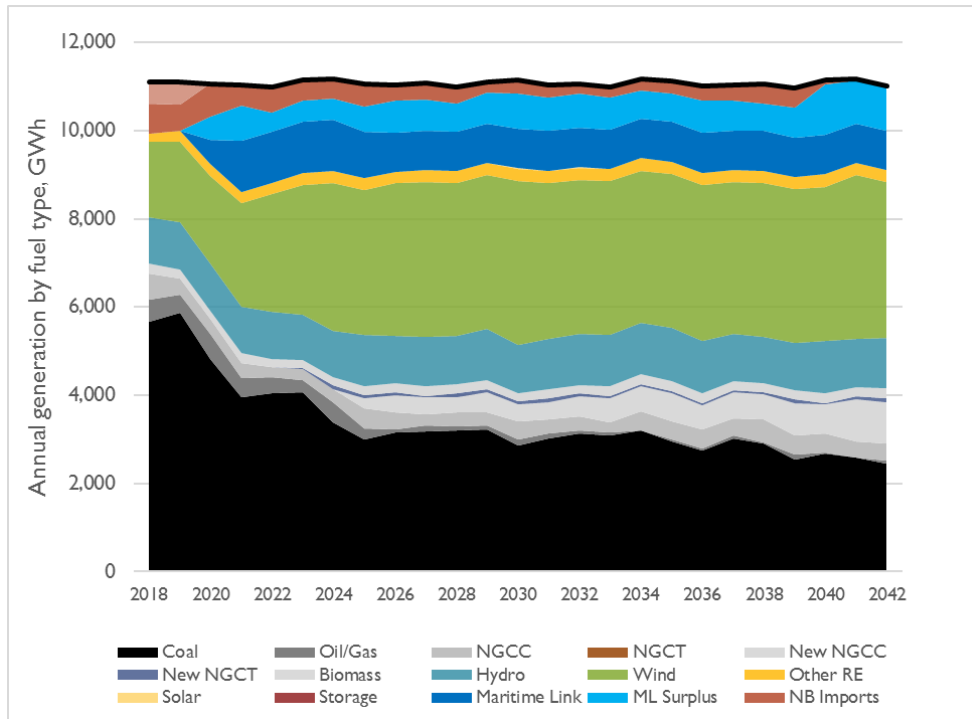


Figure 12: Annual Energy By Fuel Type

Scenario 26, Medium DSM, Retirement Path

