



# **PROJECT ASSESSMENT CONCLUSIONS REPORT**

## **DEVELOPMENT OF THE QUEENSLAND - NSW INTERCONNECTOR**

**November 2014**

Appendix E – NPV Results

## Appendix E - NPV results

This Appendix presents the detailed NPV results for the RIT-T analysis.

The results are presented separately for each of the five reasonable scenarios assessed under the RIT-T.

The six credible options being considered are referred to throughout this spreadsheet by shortened descriptors of the options as follows:

Option 0	Uprating of the Northern NSW 330kV line
Option 1a	50% Series Compensation
Option 1b	50% Series Compensation with Second Armidale SVC
Option 1c	30% Series Compensation
Option 2a	Second Armidale SVC
Option 2b	New SVCs at Tamworth and Dumaresq and capacitors

**Cashflows (P)**

Option	0	1a	1B	1c	2A	2B
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**Project Costs (\$M)**

Capital Cost	46.5	\$179.5	\$222.0	\$130.0	\$53.5	\$176.2
Annualised Equivalent Cost (AEC) - inc. opex	4.8	18.5	22.8	13.4	5.5	18.1

**Gross Benefits (\$M)**

Dispatch Cost Savings	26.7	124.8	120.3	108.0	10.2	123.3
Unserviced Energy (USE) Reduction	9.2	8.8	6.6	10.1	0.1	8.6
Competition Benefits	3.6	10.2	9.2	7.8	0.9	13.0
Total excluding Competition Benefits	35.9	133.6	126.8	118.1	10.3	131.9
Total including Competition Benefits	39.6	143.7	136.0	125.9	11.1	144.9

**Net Benefits (\$M)**

Total excluding Competition Benefits	9.3	40.4	22.2	43.8	0.8	40.5
Total including Competition Benefits	13.0	50.5	31.4	51.6	1.7	53.5

**Economic Timing**

Total including Competition Benefits	2022	2023	2024	2022	2034	2023
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**Benefit Cashflows (\$M)**

Dispatch Cost	1	2016	0.0	0.0	0.0	0.0	0.0	0.0
	2	2017	0.0	0.0	0.0	0.0	0.0	0.0
	3	2018	0.0	0.0	0.0	0.0	0.0	0.0
	4	2019	0.0	0.0	0.0	0.0	0.0	0.0
	5	2020	0.0	0.0	0.0	0.0	0.0	0.0
	6	2021	0.0	0.0	0.0	0.0	0.0	0.0
	7	2022	3.0	0.0	0.0	10.6	0.0	0.0
	8	2023	3.5	12.8	0.0	11.4	0.0	12.9
	9	2024	5.5	17.7	18.0	15.6	0.0	17.4
	10	2025	5.7	22.1	22.6	18.5	0.0	23.0
	11	2026	4.3	19.3	19.7	16.5	0.0	18.9
	12	2027	4.4	23.1	23.1	19.1	0.0	22.3
	13	2028	3.9	23.9	23.0	19.1	0.0	22.3
	14	2029	3.5	19.2	19.7	15.4	0.0	18.6
	15	2030	2.7	15.7	17.5	13.7	0.0	16.9
	16	2031	3.7	18.9	18.8	15.2	0.0	17.8
	17	2032	3.6	21.0	22.0	18.0	0.0	21.1
	18	2033	4.6	27.7	28.5	22.8	0.0	28.2
	19	2034	7.0	34.0	34.4	27.2	6.2	33.3
	20	2035	6.5	33.3	33.3	27.0	5.3	33.5
	21	2036	5.9	37.2	37.5	29.7	6.4	36.3
	22	2037	6.5	34.8	35.1	28.0	6.0	34.4
	23	2038	6.5	34.8	35.1	28.0	6.0	34.4
	24	2039	6.5	34.8	35.1	28.0	6.0	34.4
	25	2040	6.5	34.8	35.1	28.0	6.0	34.4
	26	2041	6.5	34.8	35.1	28.0	6.0	34.4
	27	2042	6.5	34.8	35.1	28.0	6.0	34.4
	28	2043	6.5	34.8	35.1	28.0	6.0	34.4
	29	2044	6.5	34.8	35.1	28.0	6.0	34.4
	30	2045	6.5	34.8	35.1	28.0	6.0	34.4
	31	2046	6.5	34.8	35.1	28.0	6.0	34.4
	32	2047	6.5	34.8	35.1	28.0	6.0	34.4
	33	2048	6.5	34.8	35.1	28.0	6.0	34.4
	34	2049	6.5	34.8	35.1	28.0	6.0	34.4
	35	2050	6.5	34.8	35.1	28.0	6.0	34.4
	36	2051	6.5	34.8	35.1	28.0	6.0	34.4
	37	2052	6.5	34.8	35.1	28.0	6.0	34.4
	38	2053	6.5	34.8	35.1	28.0	6.0	34.4
	39	2054	6.5	34.8	35.1	28.0	6.0	34.4
	40	2055	6.5	34.8	35.1	28.0	6.0	34.4
	41	2056	6.5	34.8	35.1	28.0	6.0	34.4
	42	2057	6.5	34.8	35.1	28.0	6.0	34.4
	43	2058	6.5	34.8	35.1	28.0	6.0	34.4
	44	2059	6.5	34.8	35.1	28.0	6.0	34.4
	45	2060	6.5	34.8	35.1	28.0	6.0	34.4
	46	2061	6.5	34.8	35.1	28.0	6.0	34.4
	47	2062	6.5	34.8	35.1	28.0	6.0	34.4
	48	2063	6.5	34.8	35.1	28.0	6.0	34.4
	49	2064	6.5	34.8	35.1	28.0	6.0	34.4
	50	2065	6.5	34.8	35.1	28.0	6.0	34.4
Unserviced Energy	1	2016	0.0	0.0	0.0	0.0	0.0	0.0
	2	2017	0.0	0.0	0.0	0.0	0.0	0.0
	3	2018	0.0	0.0	0.0	0.0	0.0	0.0
	4	2019	0.0	0.0	0.0	0.0	0.0	0.0
	5	2020	0.0	0.0	0.0	0.0	0.0	0.0
	6	2021	0.0	0.0	0.0	0.0	0.0	0.0
	7	2022	2.7	0.0	0.0	2.9	0.0	0.0
	8	2023	4.5	4.8	0.0	4.8	0.0	4.8
	9	2024	2.4	2.6	2.6	2.6	0.0	2.6
	10	2025	2.8	3.1	3.1	3.1	0.0	3.0
	11	2026	3.4	3.8	3.8	3.8	0.0	3.7
	12	2027	1.4	1.7	1.7	1.6	0.0	1.6
	13	2028	1.5	1.8	1.8	1.7	0.0	1.7
	14	2029	1.1	1.3	1.3	1.2	0.0	1.2
	15	2030	0.4	0.5	0.5	0.5	0.0	0.5

	16	2031	1.4	1.6	1.6	1.6	0.0	1.5
	17	2032	0.5	1.2	1.2	1.1	0.0	1.2
	18	2033	1.2	1.2	1.3	1.2	0.0	1.2
	19	2034	0.1	0.1	0.1	0.1	0.0	0.1
	20	2035	0.3	0.5	0.5	0.4	0.0	0.4
	21	2036	0.4	0.5	0.5	0.5	0.1	0.5
	22	2037	0.3	0.4	0.4	0.3	0.0	0.4
	23	2038	0.3	0.4	0.4	0.3	0.0	0.4
	24	2039	0.3	0.4	0.4	0.3	0.0	0.4
	25	2040	0.3	0.4	0.4	0.3	0.0	0.4
	26	2041	0.3	0.4	0.4	0.3	0.0	0.4
	27	2042	0.3	0.4	0.4	0.3	0.0	0.4
	28	2043	0.3	0.4	0.4	0.3	0.0	0.4
	29	2044	0.3	0.4	0.4	0.3	0.0	0.4
	30	2045	0.3	0.4	0.4	0.3	0.0	0.4
	31	2046	0.3	0.4	0.4	0.3	0.0	0.4
	32	2047	0.3	0.4	0.4	0.3	0.0	0.4
	33	2048	0.3	0.4	0.4	0.3	0.0	0.4
	34	2049	0.3	0.4	0.4	0.3	0.0	0.4
	35	2050	0.3	0.4	0.4	0.3	0.0	0.4
	36	2051	0.3	0.4	0.4	0.3	0.0	0.4
	37	2052	0.3	0.4	0.4	0.3	0.0	0.4
	38	2053	0.3	0.4	0.4	0.3	0.0	0.4
	39	2054	0.3	0.4	0.4	0.3	0.0	0.4
	40	2055	0.3	0.4	0.4	0.3	0.0	0.4
	41	2056	0.3	0.4	0.4	0.3	0.0	0.4
	42	2057	0.3	0.4	0.4	0.3	0.0	0.4
	43	2058	0.3	0.4	0.4	0.3	0.0	0.4
	44	2059	0.3	0.4	0.4	0.3	0.0	0.4
	45	2060	0.3	0.4	0.4	0.3	0.0	0.4
	46	2061	0.3	0.4	0.4	0.3	0.0	0.4
	47	2062	0.3	0.4	0.4	0.3	0.0	0.4
	48	2063	0.3	0.4	0.4	0.3	0.0	0.4
	49	2064	0.3	0.4	0.4	0.3	0.0	0.4
	50	2065	0.3	0.4	0.4	0.3	0.0	0.4
Competition	1	2016	0.0	0.0	0.0	0.0	0.0	0.0
	2	2017	0.0	0.0	0.0	0.0	0.0	0.0
	3	2018	0.0	0.0	0.0	0.0	0.0	0.0
	4	2019	0.0	0.0	0.0	0.0	0.0	0.0
	5	2020	0.0	0.0	0.0	0.0	0.0	0.0
	6	2021	0.0	0.0	0.0	0.0	0.0	0.0
	7	2022	0.5	0.0	0.0	0.8	0.0	0.0
	8	2023	0.6	1.7	0.0	1.5	0.0	2.5
	9	2024	1.6	0.0	2.8	3.7	0.0	4.0
	10	2025	1.3	3.3	3.6	2.1	0.0	2.0
	11	2026	0.5	0.6	0.9	0.6	0.0	3.7
	12	2027	-0.1	0.8	8.2	1.8	0.0	3.6
	13	2028	0.5	1.6	-3.3	3.5	0.0	4.5
	14	2029	-0.0	4.9	2.7	-1.8	0.0	0.3
	15	2030	0.4	0.3	-0.2	-1.2	0.0	0.9
	16	2031	0.8	3.3	-0.2	0.7	0.0	1.5
	17	2032	0.9	0.8	5.6	3.8	0.0	5.3
	18	2033	0.4	3.2	3.5	3.2	0.0	0.9
	19	2034	0.0	1.9	2.6	0.7	0.4	1.8
	20	2035	0.1	1.0	1.4	1.7	0.6	2.0
	21	2036	1.9	4.8	-0.1	0.7	0.5	3.0
	22	2037	0.7	2.6	1.3	1.0	0.5	2.2
	23	2038	0.7	2.6	1.3	1.0	0.5	2.2
	24	2039	0.7	2.6	1.3	1.0	0.5	2.2
	25	2040	0.7	2.6	1.3	1.0	0.5	2.2
	26	2041	0.7	2.6	1.3	1.0	0.5	2.2
	27	2042	0.7	2.6	1.3	1.0	0.5	2.2
	28	2043	0.7	2.6	1.3	1.0	0.5	2.2
	29	2044	0.7	2.6	1.3	1.0	0.5	2.2
	30	2045	0.7	2.6	1.3	1.0	0.5	2.2
	31	2046	0.7	2.6	1.3	1.0	0.5	2.2
	32	2047	0.7	2.6	1.3	1.0	0.5	2.2
	33	2048	0.7	2.6	1.3	1.0	0.5	2.2
	34	2049	0.7	2.6	1.3	1.0	0.5	2.2
	35	2050	0.7	2.6	1.3	1.0	0.5	2.2
	36	2051	0.7	2.6	1.3	1.0	0.5	2.2
	37	2052	0.7	2.6	1.3	1.0	0.5	2.2
	38	2053	0.7	2.6	1.3	1.0	0.5	2.2
	39	2054	0.7	2.6	1.3	1.0	0.5	2.2
	40	2055	0.7	2.6	1.3	1.0	0.5	2.2
	41	2056	0.7	2.6	1.3	1.0	0.5	2.2
	42	2057	0.7	2.6	1.3	1.0	0.5	2.2
	43	2058	0.7	2.6	1.3	1.0	0.5	2.2
	44	2059	0.7	2.6	1.3	1.0	0.5	2.2
	45	2060	0.7	2.6	1.3	1.0	0.5	2.2
	46	2061	0.7	2.6	1.3	1.0	0.5	2.2
	47	2062	0.7	2.6	1.3	1.0	0.5	2.2
	48	2063	0.7	2.6	1.3	1.0	0.5	2.2
	49	2064	0.7	2.6	1.3	1.0	0.5	2.2
	50	2065	0.7	2.6	1.3	1.0	0.5	2.2
Total (Excl CB)	1	2016	0.0	0.0	0.0	0.0	0.0	0.0
	2	2017	0.0	0.0	0.0	0.0	0.0	0.0
	3	2018	0.0	0.0	0.0	0.0	0.0	0.0
	4	2019	0.0	0.0	0.0	0.0	0.0	0.0

	5	2020	0.0	0.0	0.0	0.0	0.0	0.0
	6	2021	0.0	0.0	0.0	0.0	0.0	0.0
	7	2022	5.7	0.0	0.0	13.5	0.0	0.0
	8	2023	8.0	17.6	0.0	16.2	0.0	17.6
	9	2024	7.9	20.3	20.6	18.1	0.0	19.9
	10	2025	8.5	25.2	25.7	21.5	0.0	26.1
	11	2026	7.7	23.0	23.4	20.2	0.0	22.6
	12	2027	5.9	24.8	24.8	20.7	0.0	23.9
	13	2028	5.4	25.6	24.8	20.8	0.0	24.1
	14	2029	4.6	20.4	20.9	16.6	0.0	19.8
	15	2030	3.1	16.2	18.0	14.2	0.0	17.4
	16	2031	5.2	20.5	20.4	16.7	0.0	19.4
	17	2032	4.1	22.2	23.2	19.0	0.0	22.2
	18	2033	5.8	29.0	29.7	24.1	0.0	29.4
	19	2034	7.1	34.2	34.6	27.3	6.2	33.4
	20	2035	6.8	33.7	33.8	27.3	5.4	33.9
	21	2036	6.4	37.7	38.0	30.2	6.5	36.8
	22	2037	6.7	35.2	35.5	28.3	6.0	34.7
	23	2038	6.7	35.2	35.5	28.3	6.0	34.7
	24	2039	6.7	35.2	35.5	28.3	6.0	34.7
	25	2040	6.7	35.2	35.5	28.3	6.0	34.7
	26	2041	6.7	35.2	35.5	28.3	6.0	34.7
	27	2042	6.7	35.2	35.5	28.3	6.0	34.7
	28	2043	6.7	35.2	35.5	28.3	6.0	34.7
	29	2044	6.7	35.2	35.5	28.3	6.0	34.7
	30	2045	6.7	35.2	35.5	28.3	6.0	34.7
	31	2046	6.7	35.2	35.5	28.3	6.0	34.7
	32	2047	6.7	35.2	35.5	28.3	6.0	34.7
	33	2048	6.7	35.2	35.5	28.3	6.0	34.7
	34	2049	6.7	35.2	35.5	28.3	6.0	34.7
	35	2050	6.7	35.2	35.5	28.3	6.0	34.7
	36	2051	6.7	35.2	35.5	28.3	6.0	34.7
	37	2052	6.7	35.2	35.5	28.3	6.0	34.7
	38	2053	6.7	35.2	35.5	28.3	6.0	34.7
	39	2054	6.7	35.2	35.5	28.3	6.0	34.7
	40	2055	6.7	35.2	35.5	28.3	6.0	34.7
	41	2056	6.7	35.2	35.5	28.3	6.0	34.7
	42	2057	6.7	35.2	35.5	28.3	6.0	34.7
	43	2058	6.7	35.2	35.5	28.3	6.0	34.7
	44	2059	6.7	35.2	35.5	28.3	6.0	34.7
	45	2060	6.7	35.2	35.5	28.3	6.0	34.7
	46	2061	6.7	35.2	35.5	28.3	6.0	34.7
	47	2062	6.7	35.2	35.5	28.3	6.0	34.7
	48	2063	6.7	35.2	35.5	28.3	6.0	34.7
	49	2064	6.7	35.2	35.5	28.3	6.0	34.7
	50	2065	6.7	35.2	35.5	28.3	6.0	34.7
Total (Incl CB)	1	2016	0.0	0.0	0.0	0.0	0.0	0.0
	2	2017	0.0	0.0	0.0	0.0	0.0	0.0
	3	2018	0.0	0.0	0.0	0.0	0.0	0.0
	4	2019	0.0	0.0	0.0	0.0	0.0	0.0
	5	2020	0.0	0.0	0.0	0.0	0.0	0.0
	6	2021	0.0	0.0	0.0	0.0	0.0	0.0
	7	2022	6.2	0.0	0.0	14.3	0.0	0.0
	8	2023	8.7	19.3	0.0	17.7	0.0	20.2
	9	2024	9.6	20.3	23.4	21.8	0.0	23.9
	10	2025	9.8	28.5	29.3	23.6	0.0	28.0
	11	2026	8.2	23.7	24.3	20.8	0.0	26.3
	12	2027	5.8	25.7	33.0	22.6	0.0	27.5
	13	2028	5.9	27.2	21.5	24.4	0.0	28.5
	14	2029	4.5	25.3	23.6	14.8	0.0	20.2
	15	2030	3.5	16.5	17.9	13.0	0.0	18.3
	16	2031	6.0	23.8	20.2	17.5	0.0	20.9
	17	2032	5.0	23.0	28.7	22.8	0.0	27.5
	18	2033	6.2	32.2	33.2	27.3	0.0	30.2
	19	2034	7.1	36.0	37.2	28.0	6.6	35.2
	20	2035	6.9	34.7	35.2	29.1	6.0	35.9
	21	2036	8.3	42.6	37.9	30.9	7.0	39.8
	22	2037	7.4	37.8	36.8	29.3	6.5	37.0
	23	2038	7.4	37.8	36.8	29.3	6.5	37.0
	24	2039	7.4	37.8	36.8	29.3	6.5	37.0
	25	2040	7.4	37.8	36.8	29.3	6.5	37.0
	26	2041	7.4	37.8	36.8	29.3	6.5	37.0
	27	2042	7.4	37.8	36.8	29.3	6.5	37.0
	28	2043	7.4	37.8	36.8	29.3	6.5	37.0
	29	2044	7.4	37.8	36.8	29.3	6.5	37.0
	30	2045	7.4	37.8	36.8	29.3	6.5	37.0
	31	2046	7.4	37.8	36.8	29.3	6.5	37.0
	32	2047	7.4	37.8	36.8	29.3	6.5	37.0
	33	2048	7.4	37.8	36.8	29.3	6.5	37.0
	34	2049	7.4	37.8	36.8	29.3	6.5	37.0
	35	2050	7.4	37.8	36.8	29.3	6.5	37.0
	36	2051	7.4	37.8	36.8	29.3	6.5	37.0
	37	2052	7.4	37.8	36.8	29.3	6.5	37.0
	38	2053	7.4	37.8	36.8	29.3	6.5	37.0
	39	2054	7.4	37.8	36.8	29.3	6.5	37.0
	40	2055	7.4	37.8	36.8	29.3	6.5	37.0
	41	2056	7.4	37.8	36.8	29.3	6.5	37.0
	42	2057	7.4	37.8	36.8	29.3	6.5	37.0
	43	2058	7.4	37.8	36.8	29.3	6.5	37.0

	44	2059	7.4	37.8	36.8	29.3	6.5	37.0
	45	2060	7.4	37.8	36.8	29.3	6.5	37.0
	46	2061	7.4	37.8	36.8	29.3	6.5	37.0
	47	2062	7.4	37.8	36.8	29.3	6.5	37.0
	48	2063	7.4	37.8	36.8	29.3	6.5	37.0
	49	2064	7.4	37.8	36.8	29.3	6.5	37.0
	50	2065	7.4	37.8	36.8	29.3	6.5	37.0
AEC	1	2016	0.0	0.0	0.0	0.0	0.0	0.0
	2	2017	0.0	0.0	0.0	0.0	0.0	0.0
	3	2018	0.0	0.0	0.0	0.0	0.0	0.0
	4	2019	0.0	0.0	0.0	0.0	0.0	0.0
	5	2020	0.0	0.0	0.0	0.0	0.0	0.0
	6	2021	0.0	0.0	0.0	0.0	0.0	0.0
	7	2022	4.8	0.0	0.0	13.4	0.0	0.0
	8	2023	4.8	18.5	0.0	13.4	0.0	18.1
	9	2024	4.8	18.5	22.8	13.4	0.0	18.1
	10	2025	4.8	18.5	22.8	13.4	0.0	18.1
	11	2026	4.8	18.5	22.8	13.4	0.0	18.1
	12	2027	4.8	18.5	22.8	13.4	0.0	18.1
	13	2028	4.8	18.5	22.8	13.4	0.0	18.1
	14	2029	4.8	18.5	22.8	13.4	0.0	18.1
	15	2030	4.8	18.5	22.8	13.4	0.0	18.1
	16	2031	4.8	18.5	22.8	13.4	0.0	18.1
	17	2032	4.8	18.5	22.8	13.4	0.0	18.1
	18	2033	4.8	18.5	22.8	13.4	0.0	18.1
	19	2034	4.8	18.5	22.8	13.4	5.5	18.1
	20	2035	4.8	18.5	22.8	13.4	5.5	18.1
	21	2036	4.8	18.5	22.8	13.4	5.5	18.1
	22	2037	4.8	18.5	22.8	13.4	5.5	18.1
	23	2038	4.8	18.5	22.8	13.4	5.5	18.1
	24	2039	4.8	18.5	22.8	13.4	5.5	18.1
	25	2040	4.8	18.5	22.8	13.4	5.5	18.1
	26	2041	4.8	18.5	22.8	13.4	5.5	18.1
	27	2042	4.8	18.5	22.8	13.4	5.5	18.1
	28	2043	4.8	18.5	22.8	13.4	5.5	18.1
	29	2044	4.8	18.5	22.8	13.4	5.5	18.1
	30	2045	4.8	18.5	22.8	13.4	5.5	18.1
	31	2046	4.8	18.5	22.8	13.4	5.5	18.1
	32	2047	4.8	18.5	22.8	13.4	5.5	18.1
	33	2048	4.8	18.5	22.8	13.4	5.5	18.1
	34	2049	4.8	18.5	22.8	13.4	5.5	18.1
	35	2050	4.8	18.5	22.8	13.4	5.5	18.1
	36	2051	4.8	18.5	22.8	13.4	5.5	18.1
	37	2052	4.8	18.5	22.8	13.4	5.5	18.1
	38	2053	4.8	18.5	22.8	13.4	5.5	18.1
	39	2054	4.8	18.5	22.8	13.4	5.5	18.1
	40	2055	4.8	18.5	22.8	13.4	5.5	18.1
	41	2056	4.8	18.5	22.8	13.4	5.5	18.1
	42	2057	4.8	18.5	22.8	13.4	5.5	18.1
	43	2058	4.8	18.5	22.8	13.4	5.5	18.1
	44	2059	4.8	18.5	22.8	13.4	5.5	18.1
	45	2060	4.8	18.5	22.8	13.4	5.5	18.1
	46	2061	4.8	18.5	22.8	13.4	5.5	18.1
	47	2062	4.8	18.5	22.8	13.4	5.5	18.1
	48	2063	4.8	18.5	22.8	13.4	5.5	18.1
	49	2064	4.8	18.5	22.8	13.4	5.5	18.1
	50	2065	4.8	18.5	22.8	13.4	5.5	18.1

Annualised Cost of Option (for Graphs)

2016	4.8	18.5	22.8	13.4	5.5	18.1
2017	4.8	18.5	22.8	13.4	5.5	18.1
2018	4.8	18.5	22.8	13.4	5.5	18.1
2019	4.8	18.5	22.8	13.4	5.5	18.1
2020	4.8	18.5	22.8	13.4	5.5	18.1
2021	4.8	18.5	22.8	13.4	5.5	18.1
2022	4.8	18.5	22.8	13.4	5.5	18.1
2023	4.8	18.5	22.8	13.4	5.5	18.1
2024	4.8	18.5	22.8	13.4	5.5	18.1
2025	4.8	18.5	22.8	13.4	5.5	18.1
2026	4.8	18.5	22.8	13.4	5.5	18.1
2027	4.8	18.5	22.8	13.4	5.5	18.1
2028	4.8	18.5	22.8	13.4	5.5	18.1
2029	4.8	18.5	22.8	13.4	5.5	18.1
2030	4.8	18.5	22.8	13.4	5.5	18.1
2031	4.8	18.5	22.8	13.4	5.5	18.1
2032	4.8	18.5	22.8	13.4	5.5	18.1
2033	4.8	18.5	22.8	13.4	5.5	18.1
2034	4.8	18.5	22.8	13.4	5.5	18.1
2035	4.8	18.5	22.8	13.4	5.5	18.1
2036	4.8	18.5	22.8	13.4	5.5	18.1
2037	4.8	18.5	22.8	13.4	5.5	18.1
2038	4.8	18.5	22.8	13.4	5.5	18.1
2039	4.8	18.5	22.8	13.4	5.5	18.1
2040	4.8	18.5	22.8	13.4	5.5	18.1
2041	4.8	18.5	22.8	13.4	5.5	18.1
2042	4.8	18.5	22.8	13.4	5.5	18.1
2043	4.8	18.5	22.8	13.4	5.5	18.1
2044	4.8	18.5	22.8	13.4	5.5	18.1
2045	4.8	18.5	22.8	13.4	5.5	18.1

2046	4.8	18.5	22.8	13.4	5.5	18.1
2047	4.8	18.5	22.8	13.4	5.5	18.1
2048	4.8	18.5	22.8	13.4	5.5	18.1
2049	4.8	18.5	22.8	13.4	5.5	18.1
2050	4.8	18.5	22.8	13.4	5.5	18.1
2051	4.8	18.5	22.8	13.4	5.5	18.1
2052	4.8	18.5	22.8	13.4	5.5	18.1
2053	4.8	18.5	22.8	13.4	5.5	18.1
2054	4.8	18.5	22.8	13.4	5.5	18.1
2055	4.8	18.5	22.8	13.4	5.5	18.1
2056	4.8	18.5	22.8	13.4	5.5	18.1
2057	4.8	18.5	22.8	13.4	5.5	18.1
2058	4.8	18.5	22.8	13.4	5.5	18.1
2059	4.8	18.5	22.8	13.4	5.5	18.1
2060	4.8	18.5	22.8	13.4	5.5	18.1
2061	4.8	18.5	22.8	13.4	5.5	18.1
2062	4.8	18.5	22.8	13.4	5.5	18.1
2063	4.8	18.5	22.8	13.4	5.5	18.1
2064	4.8	18.5	22.8	13.4	5.5	18.1
2065	4.8	18.5	22.8	13.4	5.5	18.1

**Cashflows (F)**

Option	0	1a	1B	1c	2A	2B
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**Project Costs (\$M)**

Capital Cost	46.5	\$179.5	\$222.0	\$130.0	\$53.5	\$176.2
Annualised Equivalent Cost (AEC) - inc. opex	4.8	18.5	22.8	13.4	5.5	18.1

**Gross Benefits (\$M)**

Dispatch Cost Savings	2.9	111.9	106.4	83.8	6.6	117.9
Unserved Energy (USE) Reduction	11.4	16.2	14.7	18.6	-0.0	16.2
Competition Benefits	-0.8	8.8	6.8	6.6	-0.3	5.6
Total excluding Competition Benefits	14.3	128.1	121.1	102.4	6.6	134.1
Total including Competition Benefits	13.5	136.8	127.9	109.0	6.3	139.7

**Net Benefits (\$M)**

Total excluding Competition Benefits	-12.3	34.9	16.5	28.1	-2.8	42.6
Total including Competition Benefits	-13.1	43.6	23.3	34.7	-3.1	48.3

**Benefit Cashflows (\$M)**

Dispatch Cost	1	2016	0.0	0.0	0.0	0.0	0.0	0.0
	2	2017	0.0	0.0	0.0	0.0	0.0	0.0
	3	2018	0.0	0.0	0.0	0.0	0.0	0.0
	4	2019	0.0	0.0	0.0	0.0	0.0	0.0
	5	2020	0.0	0.0	0.0	0.0	0.0	0.0
	6	2021	0.0	0.0	0.0	0.0	0.0	0.0
	7	2022	0.9	0.0	0.0	19.4	0.0	0.0
	8	2023	0.8	31.5	0.0	21.5	0.0	33.1
	9	2024	1.2	31.6	35.8	21.3	0.0	34.4
	10	2025	0.9	31.5	34.9	20.1	0.0	33.2
	11	2026	1.7	31.9	34.1	21.3	0.0	33.6
	12	2027	0.3	23.2	25.5	16.0	0.0	24.7
	13	2028	0.5	21.5	24.4	14.4	0.0	22.9
	14	2029	-0.2	20.5	23.0	14.0	0.0	22.1
	15	2030	0.6	19.8	21.9	13.3	0.0	21.0
	16	2031	-0.6	17.2	19.0	11.8	0.0	17.8
	17	2032	-0.5	16.9	18.6	11.4	0.0	17.3
	18	2033	-0.6	15.9	17.8	10.3	0.0	17.0
	19	2034	-0.0	16.1	16.7	10.3	3.7	16.7
	20	2035	0.5	14.7	15.6	9.3	3.8	15.0
	21	2036	0.6	15.9	17.3	9.8	4.2	16.6
	22	2037	0.4	15.6	16.5	9.8	3.9	16.1
	23	2038	0.4	15.6	16.5	9.8	3.9	16.1
	24	2039	0.4	15.6	16.5	9.8	3.9	16.1
	25	2040	0.4	15.6	16.5	9.8	3.9	16.1
	26	2041	0.4	15.6	16.5	9.8	3.9	16.1
	27	2042	0.4	15.6	16.5	9.8	3.9	16.1
	28	2043	0.4	15.6	16.5	9.8	3.9	16.1
	29	2044	0.4	15.6	16.5	9.8	3.9	16.1
	30	2045	0.4	15.6	16.5	9.8	3.9	16.1
	31	2046	0.4	15.6	16.5	9.8	3.9	16.1
	32	2047	0.4	15.6	16.5	9.8	3.9	16.1
	33	2048	0.4	15.6	16.5	9.8	3.9	16.1
	34	2049	0.4	15.6	16.5	9.8	3.9	16.1
	35	2050	0.4	15.6	16.5	9.8	3.9	16.1
	36	2051	0.4	15.6	16.5	9.8	3.9	16.1
	37	2052	0.4	15.6	16.5	9.8	3.9	16.1
	38	2053	0.4	15.6	16.5	9.8	3.9	16.1
	39	2054	0.4	15.6	16.5	9.8	3.9	16.1
	40	2055	0.4	15.6	16.5	9.8	3.9	16.1
	41	2056	0.4	15.6	16.5	9.8	3.9	16.1
	42	2057	0.4	15.6	16.5	9.8	3.9	16.1
	43	2058	0.4	15.6	16.5	9.8	3.9	16.1
	44	2059	0.4	15.6	16.5	9.8	3.9	16.1
	45	2060	0.4	15.6	16.5	9.8	3.9	16.1
	46	2061	0.4	15.6	16.5	9.8	3.9	16.1
	47	2062	0.4	15.6	16.5	9.8	3.9	16.1
	48	2063	0.4	15.6	16.5	9.8	3.9	16.1
	49	2064	0.4	15.6	16.5	9.8	3.9	16.1
	50	2065	0.4	15.6	16.5	9.8	3.9	16.1
Unserved Energy	1	2016	0.0	0.0	0.0	0.0	0.0	0.0
	2	2017	0.0	0.0	0.0	0.0	0.0	0.0
	3	2018	0.0	0.0	0.0	0.0	0.0	0.0
	4	2019	0.0	0.0	0.0	0.0	0.0	0.0
	5	2020	0.0	0.0	0.0	0.0	0.0	0.0
	6	2021	0.0	0.0	0.0	0.0	0.0	0.0
	7	2022	3.7	0.0	0.0	6.4	0.0	0.0
	8	2023	2.2	3.2	0.0	3.1	0.0	3.2
	9	2024	2.1	5.2	5.2	4.9	0.0	5.2
	10	2025	1.0	1.5	1.5	1.4	0.0	1.4
	11	2026	3.8	6.8	6.8	6.1	0.0	6.8
	12	2027	2.2	3.9	3.9	3.5	0.0	3.9
	13	2028	3.0	5.1	5.1	4.6	0.0	5.4
	14	2029	1.3	2.0	2.0	1.9	0.0	2.0



	15	2030	0.9	1.8	1.8	1.7	0.0	1.8
	16	2031	0.5	0.8	0.8	0.7	0.0	0.8
	17	2032	1.1	1.7	1.7	1.7	0.0	1.7
	18	2033	0.7	1.1	1.1	1.1	0.0	1.1
	19	2034	0.2	0.7	0.7	0.7	-0.2	0.7
	20	2035	1.2	1.8	1.8	1.9	-0.0	1.8
	21	2036	4.4	6.6	6.6	6.5	0.2	6.5
	22	2037	1.9	3.1	3.1	3.0	0.0	3.0
	23	2038	1.9	3.1	3.1	3.0	0.0	3.0
	24	2039	1.9	3.1	3.1	3.0	0.0	3.0
	25	2040	1.9	3.1	3.1	3.0	0.0	3.0
	26	2041	1.9	3.1	3.1	3.0	0.0	3.0
	27	2042	1.9	3.1	3.1	3.0	0.0	3.0
	28	2043	1.9	3.1	3.1	3.0	0.0	3.0
	29	2044	1.9	3.1	3.1	3.0	0.0	3.0
	30	2045	1.9	3.1	3.1	3.0	0.0	3.0
	31	2046	1.9	3.1	3.1	3.0	0.0	3.0
	32	2047	1.9	3.1	3.1	3.0	0.0	3.0
	33	2048	1.9	3.1	3.1	3.0	0.0	3.0
	34	2049	1.9	3.1	3.1	3.0	0.0	3.0
	35	2050	1.9	3.1	3.1	3.0	0.0	3.0
	36	2051	1.9	3.1	3.1	3.0	0.0	3.0
	37	2052	1.9	3.1	3.1	3.0	0.0	3.0
	38	2053	1.9	3.1	3.1	3.0	0.0	3.0
	39	2054	1.9	3.1	3.1	3.0	0.0	3.0
	40	2055	1.9	3.1	3.1	3.0	0.0	3.0
	41	2056	1.9	3.1	3.1	3.0	0.0	3.0
	42	2057	1.9	3.1	3.1	3.0	0.0	3.0
	43	2058	1.9	3.1	3.1	3.0	0.0	3.0
	44	2059	1.9	3.1	3.1	3.0	0.0	3.0
	45	2060	1.9	3.1	3.1	3.0	0.0	3.0
	46	2061	1.9	3.1	3.1	3.0	0.0	3.0
	47	2062	1.9	3.1	3.1	3.0	0.0	3.0
	48	2063	1.9	3.1	3.1	3.0	0.0	3.0
	49	2064	1.9	3.1	3.1	3.0	0.0	3.0
	50	2065	1.9	3.1	3.1	3.0	0.0	3.0
Competition	1	2016	0.0	0.0	0.0	0.0	0.0	0.0
	2	2017	0.0	0.0	0.0	0.0	0.0	0.0
	3	2018	0.0	0.0	0.0	0.0	0.0	0.0
	4	2019	0.0	0.0	0.0	0.0	0.0	0.0
	5	2020	0.0	0.0	0.0	0.0	0.0	0.0
	6	2021	0.0	0.0	0.0	0.0	0.0	0.0
	7	2022	-0.3	0.0	0.0	1.7	0.0	0.0
	8	2023	0.3	2.0	0.0	2.2	0.0	2.2
	9	2024	0.1	2.2	1.0	3.4	0.0	2.3
	10	2025	0.1	1.0	2.7	1.8	0.0	0.9
	11	2026	0.1	0.9	0.7	0.7	0.0	1.6
	12	2027	-1.0	1.2	0.6	2.0	0.0	2.6
	13	2028	-0.4	4.0	-0.3	0.0	0.0	0.5
	14	2029	0.2	1.1	0.1	-0.3	0.0	1.2
	15	2030	0.3	-1.4	-1.8	1.2	0.0	2.2
	16	2031	-2.3	1.5	-0.7	1.0	0.0	0.9
	17	2032	0.1	1.0	0.7	0.4	0.0	-0.8
	18	2033	-1.2	0.2	1.1	3.7	0.0	-0.9
	19	2034	-1.8	2.9	1.9	-0.7	-0.9	-0.1
	20	2035	-0.2	2.8	2.4	0.9	0.0	1.3
	21	2036	2.2	1.6	5.0	0.9	0.4	0.8
	22	2037	0.1	2.4	3.1	0.4	-0.2	0.6
	23	2038	0.1	2.4	3.1	0.4	-0.2	0.6
	24	2039	0.1	2.4	3.1	0.4	-0.2	0.6
	25	2040	0.1	2.4	3.1	0.4	-0.2	0.6
	26	2041	0.1	2.4	3.1	0.4	-0.2	0.6
	27	2042	0.1	2.4	3.1	0.4	-0.2	0.6
	28	2043	0.1	2.4	3.1	0.4	-0.2	0.6
	29	2044	0.1	2.4	3.1	0.4	-0.2	0.6
	30	2045	0.1	2.4	3.1	0.4	-0.2	0.6
	31	2046	0.1	2.4	3.1	0.4	-0.2	0.6
	32	2047	0.1	2.4	3.1	0.4	-0.2	0.6
	33	2048	0.1	2.4	3.1	0.4	-0.2	0.6
	34	2049	0.1	2.4	3.1	0.4	-0.2	0.6
	35	2050	0.1	2.4	3.1	0.4	-0.2	0.6
	36	2051	0.1	2.4	3.1	0.4	-0.2	0.6
	37	2052	0.1	2.4	3.1	0.4	-0.2	0.6
	38	2053	0.1	2.4	3.1	0.4	-0.2	0.6
	39	2054	0.1	2.4	3.1	0.4	-0.2	0.6
	40	2055	0.1	2.4	3.1	0.4	-0.2	0.6
	41	2056	0.1	2.4	3.1	0.4	-0.2	0.6
	42	2057	0.1	2.4	3.1	0.4	-0.2	0.6
	43	2058	0.1	2.4	3.1	0.4	-0.2	0.6
	44	2059	0.1	2.4	3.1	0.4	-0.2	0.6
	45	2060	0.1	2.4	3.1	0.4	-0.2	0.6
	46	2061	0.1	2.4	3.1	0.4	-0.2	0.6
	47	2062	0.1	2.4	3.1	0.4	-0.2	0.6
	48	2063	0.1	2.4	3.1	0.4	-0.2	0.6
	49	2064	0.1	2.4	3.1	0.4	-0.2	0.6
	50	2065	0.1	2.4	3.1	0.4	-0.2	0.6
Total (Excl CB)	1	2016	0.0	0.0	0.0	0.0	0.0	0.0
	2	2017	0.0	0.0	0.0	0.0	0.0	0.0
	3	2018	0.0	0.0	0.0	0.0	0.0	0.0

	4	2019	0.0	0.0	0.0	0.0	0.0	0.0	
	5	2020	0.0	0.0	0.0	0.0	0.0	0.0	
	6	2021	0.0	0.0	0.0	0.0	0.0	0.0	
	7	2022	4.6	0.0	0.0	25.8	0.0	0.0	
	8	2023	2.9	34.7	0.0	24.6	0.0	36.3	
	9	2024	3.3	36.8	41.0	26.2	0.0	39.6	
	10	2025	1.9	33.0	36.4	21.5	0.0	34.6	
	11	2026	5.5	38.8	40.9	27.4	0.0	40.5	
	12	2027	2.5	27.1	29.4	19.5	0.0	28.6	
	13	2028	3.5	26.5	29.5	19.0	0.0	28.3	
	14	2029	1.1	22.5	25.0	15.9	0.0	24.1	
	15	2030	1.5	21.6	23.7	15.0	0.0	22.8	
	16	2031	-0.0	18.0	19.8	12.5	0.0	18.5	
	17	2032	0.7	18.6	20.3	13.0	0.0	19.0	
	18	2033	0.1	17.0	18.9	11.4	0.0	18.2	
	19	2034	0.2	16.8	17.4	11.0	3.5	17.4	
	20	2035	1.7	16.6	17.4	11.2	3.7	16.8	
	21	2036	5.0	22.5	24.0	16.2	4.4	23.2	
	22	2037	2.3	18.6	19.6	12.8	3.9	19.1	
	23	2038	2.3	18.6	19.6	12.8	3.9	19.1	
	24	2039	2.3	18.6	19.6	12.8	3.9	19.1	
	25	2040	2.3	18.6	19.6	12.8	3.9	19.1	
	26	2041	2.3	18.6	19.6	12.8	3.9	19.1	
	27	2042	2.3	18.6	19.6	12.8	3.9	19.1	
	28	2043	2.3	18.6	19.6	12.8	3.9	19.1	
	29	2044	2.3	18.6	19.6	12.8	3.9	19.1	
	30	2045	2.3	18.6	19.6	12.8	3.9	19.1	
	31	2046	2.3	18.6	19.6	12.8	3.9	19.1	
	32	2047	2.3	18.6	19.6	12.8	3.9	19.1	
	33	2048	2.3	18.6	19.6	12.8	3.9	19.1	
	34	2049	2.3	18.6	19.6	12.8	3.9	19.1	
	35	2050	2.3	18.6	19.6	12.8	3.9	19.1	
	36	2051	2.3	18.6	19.6	12.8	3.9	19.1	
	37	2052	2.3	18.6	19.6	12.8	3.9	19.1	
	38	2053	2.3	18.6	19.6	12.8	3.9	19.1	
	39	2054	2.3	18.6	19.6	12.8	3.9	19.1	
	40	2055	2.3	18.6	19.6	12.8	3.9	19.1	
	41	2056	2.3	18.6	19.6	12.8	3.9	19.1	
	42	2057	2.3	18.6	19.6	12.8	3.9	19.1	
	43	2058	2.3	18.6	19.6	12.8	3.9	19.1	
	44	2059	2.3	18.6	19.6	12.8	3.9	19.1	
	45	2060	2.3	18.6	19.6	12.8	3.9	19.1	
	46	2061	2.3	18.6	19.6	12.8	3.9	19.1	
	47	2062	2.3	18.6	19.6	12.8	3.9	19.1	
	48	2063	2.3	18.6	19.6	12.8	3.9	19.1	
	49	2064	2.3	18.6	19.6	12.8	3.9	19.1	
	50	2065	2.3	18.6	19.6	12.8	3.9	19.1	
Total (Incl CB)	1	2016	0.0	0.0	0.0	0.0	0.0	0.0	
	2	2017	0.0	0.0	0.0	0.0	0.0	0.0	
	3	2018	0.0	0.0	0.0	0.0	0.0	0.0	
	4	2019	0.0	0.0	0.0	0.0	0.0	0.0	
	5	2020	0.0	0.0	0.0	0.0	0.0	0.0	
	6	2021	0.0	0.0	0.0	0.0	0.0	0.0	
	7	2022	4.3	0.0	0.0	27.5	0.0	0.0	
	8	2023	3.3	36.7	0.0	26.7	0.0	38.5	
	9	2024	3.4	39.1	42.0	29.6	0.0	41.9	
	10	2025	2.0	34.1	39.1	23.3	0.0	35.6	
	11	2026	5.6	39.6	41.6	28.1	0.0	42.1	
	12	2027	1.5	28.3	30.0	21.4	0.0	31.1	
	13	2028	3.1	30.5	29.2	19.0	0.0	28.8	
	14	2029	1.3	23.6	25.1	15.7	0.0	25.3	
	15	2030	1.8	20.2	22.0	16.2	0.0	24.9	
	16	2031	-2.4	19.5	19.1	13.5	0.0	19.4	
	17	2032	0.8	19.7	21.0	13.4	0.0	18.3	
	18	2033	-1.1	17.2	20.0	15.0	0.0	17.2	
	19	2034	-1.6	19.7	19.3	10.3	2.5	17.3	
	20	2035	1.5	19.4	19.8	12.1	3.8	18.1	
	21	2036	7.2	24.2	28.9	17.1	4.8	23.9	
		22	2037	2.4	21.1	22.7	13.2	3.7	19.8
		23	2038	2.4	21.1	22.7	13.2	3.7	19.8
		24	2039	2.4	21.1	22.7	13.2	3.7	19.8
		25	2040	2.4	21.1	22.7	13.2	3.7	19.8
		26	2041	2.4	21.1	22.7	13.2	3.7	19.8
		27	2042	2.4	21.1	22.7	13.2	3.7	19.8
		28	2043	2.4	21.1	22.7	13.2	3.7	19.8
		29	2044	2.4	21.1	22.7	13.2	3.7	19.8
		30	2045	2.4	21.1	22.7	13.2	3.7	19.8
		31	2046	2.4	21.1	22.7	13.2	3.7	19.8
		32	2047	2.4	21.1	22.7	13.2	3.7	19.8
		33	2048	2.4	21.1	22.7	13.2	3.7	19.8
		34	2049	2.4	21.1	22.7	13.2	3.7	19.8
		35	2050	2.4	21.1	22.7	13.2	3.7	19.8
		36	2051	2.4	21.1	22.7	13.2	3.7	19.8
		37	2052	2.4	21.1	22.7	13.2	3.7	19.8
		38	2053	2.4	21.1	22.7	13.2	3.7	19.8
		39	2054	2.4	21.1	22.7	13.2	3.7	19.8
		40	2055	2.4	21.1	22.7	13.2	3.7	19.8
		41	2056	2.4	21.1	22.7	13.2	3.7	19.8
		42	2057	2.4	21.1	22.7	13.2	3.7	19.8

	43	2058	2.4	21.1	22.7	13.2	3.7	19.8
	44	2059	2.4	21.1	22.7	13.2	3.7	19.8
	45	2060	2.4	21.1	22.7	13.2	3.7	19.8
	46	2061	2.4	21.1	22.7	13.2	3.7	19.8
	47	2062	2.4	21.1	22.7	13.2	3.7	19.8
	48	2063	2.4	21.1	22.7	13.2	3.7	19.8
	49	2064	2.4	21.1	22.7	13.2	3.7	19.8
	50	2065	2.4	21.1	22.7	13.2	3.7	19.8
AEC	1	2016	0.0	0.0	0.0	0.0	0.0	0.0
	2	2017	0.0	0.0	0.0	0.0	0.0	0.0
	3	2018	0.0	0.0	0.0	0.0	0.0	0.0
	4	2019	0.0	0.0	0.0	0.0	0.0	0.0
	5	2020	0.0	0.0	0.0	0.0	0.0	0.0
	6	2021	0.0	0.0	0.0	0.0	0.0	0.0
	7	2022	4.8	0.0	0.0	13.4	0.0	0.0
	8	2023	4.8	18.5	0.0	13.4	0.0	18.1
	9	2024	4.8	18.5	22.8	13.4	0.0	18.1
	10	2025	4.8	18.5	22.8	13.4	0.0	18.1
	11	2026	4.8	18.5	22.8	13.4	0.0	18.1
	12	2027	4.8	18.5	22.8	13.4	0.0	18.1
	13	2028	4.8	18.5	22.8	13.4	0.0	18.1
	14	2029	4.8	18.5	22.8	13.4	0.0	18.1
	15	2030	4.8	18.5	22.8	13.4	0.0	18.1
	16	2031	4.8	18.5	22.8	13.4	0.0	18.1
	17	2032	4.8	18.5	22.8	13.4	0.0	18.1
	18	2033	4.8	18.5	22.8	13.4	0.0	18.1
	19	2034	4.8	18.5	22.8	13.4	5.5	18.1
	20	2035	4.8	18.5	22.8	13.4	5.5	18.1
	21	2036	4.8	18.5	22.8	13.4	5.5	18.1
	22	2037	4.8	18.5	22.8	13.4	5.5	18.1
	23	2038	4.8	18.5	22.8	13.4	5.5	18.1
	24	2039	4.8	18.5	22.8	13.4	5.5	18.1
	25	2040	4.8	18.5	22.8	13.4	5.5	18.1
	26	2041	4.8	18.5	22.8	13.4	5.5	18.1
	27	2042	4.8	18.5	22.8	13.4	5.5	18.1
	28	2043	4.8	18.5	22.8	13.4	5.5	18.1
	29	2044	4.8	18.5	22.8	13.4	5.5	18.1
	30	2045	4.8	18.5	22.8	13.4	5.5	18.1
	31	2046	4.8	18.5	22.8	13.4	5.5	18.1
	32	2047	4.8	18.5	22.8	13.4	5.5	18.1
	33	2048	4.8	18.5	22.8	13.4	5.5	18.1
	34	2049	4.8	18.5	22.8	13.4	5.5	18.1
	35	2050	4.8	18.5	22.8	13.4	5.5	18.1
	36	2051	4.8	18.5	22.8	13.4	5.5	18.1
	37	2052	4.8	18.5	22.8	13.4	5.5	18.1
	38	2053	4.8	18.5	22.8	13.4	5.5	18.1
	39	2054	4.8	18.5	22.8	13.4	5.5	18.1
	40	2055	4.8	18.5	22.8	13.4	5.5	18.1
	41	2056	4.8	18.5	22.8	13.4	5.5	18.1
	42	2057	4.8	18.5	22.8	13.4	5.5	18.1
	43	2058	4.8	18.5	22.8	13.4	5.5	18.1
	44	2059	4.8	18.5	22.8	13.4	5.5	18.1
	45	2060	4.8	18.5	22.8	13.4	5.5	18.1
	46	2061	4.8	18.5	22.8	13.4	5.5	18.1
	47	2062	4.8	18.5	22.8	13.4	5.5	18.1
	48	2063	4.8	18.5	22.8	13.4	5.5	18.1
	49	2064	4.8	18.5	22.8	13.4	5.5	18.1
	50	2065	4.8	18.5	22.8	13.4	5.5	18.1

**Cashflows (\$)**

Option	0	1a	1B	1c	2A	2B
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**Project Costs (\$M)**

Capital Cost	46.5	\$179.5	\$222.0	\$130.0	\$53.5	\$176.2
Annualised Equivalent Cost (AEC) - inc. opex	4.8	18.5	22.8	13.4	5.5	18.1

**Gross Benefits (\$M)**

Dispatch Cost Savings	20.7	44.9	41.8	43.2	1.2	44.7
Unserved Energy (USE) Reduction	3.8	4.0	3.9	4.0	-0.1	4.0
Competition Benefits	4.5	11.8	11.2	10.7	0.4	8.1
Total excluding Competition Benefits	24.5	48.9	45.7	47.2	1.0	48.7
Total including Competition Benefits	29.0	60.7	56.9	57.9	1.5	56.8

**Net Benefits (\$M)**

Total excluding Competition Benefits	-2.1	-44.2	-58.9	-27.2	-8.4	-42.8
Total including Competition Benefits	2.4	-32.5	-47.7	-16.5	-7.9	-34.7

**Benefit Cashflows (\$M)**

Dispatch Cost	1	2016	0.0	0.0	0.0	0.0	0.0	0.0
	2	2017	0.0	0.0	0.0	0.0	0.0	0.0
	3	2018	0.0	0.0	0.0	0.0	0.0	0.0
	4	2019	0.0	0.0	0.0	0.0	0.0	0.0
	5	2020	0.0	0.0	0.0	0.0	0.0	0.0
	6	2021	0.0	0.0	0.0	0.0	0.0	0.0
	7	2022	2.4	0.0	0.0	4.4	0.0	0.0
	8	2023	2.9	6.2	0.0	5.7	0.0	6.0
	9	2024	3.7	7.1	7.4	6.8	0.0	7.4
	10	2025	4.4	9.5	8.8	8.1	0.0	8.9
	11	2026	5.1	10.8	10.7	9.7	0.0	11.3
	12	2027	4.0	10.3	10.3	9.3	0.0	10.7
	13	2028	3.9	10.5	10.3	9.3	0.0	10.2
	14	2029	4.3	10.6	10.8	10.1	0.0	10.6
	15	2030	3.9	9.2	8.7	8.1	0.0	9.0
	16	2031	2.6	6.7	7.4	7.0	0.0	8.3
	17	2032	3.9	9.6	10.5	9.2	0.0	10.1
	18	2033	3.3	9.4	9.2	8.5	0.0	9.6
	19	2034	4.1	10.2	9.8	9.1	0.5	9.5
	20	2035	4.0	6.9	7.5	6.8	1.0	6.8
	21	2036	3.5	9.5	9.0	8.2	0.6	9.2
	22	2037	3.9	8.9	8.7	8.0	0.7	8.5
	23	2038	3.9	8.9	8.7	8.0	0.7	8.5
	24	2039	3.9	8.9	8.7	8.0	0.7	8.5
	25	2040	3.9	8.9	8.7	8.0	0.7	8.5
	26	2041	3.9	8.9	8.7	8.0	0.7	8.5
	27	2042	3.9	8.9	8.7	8.0	0.7	8.5
	28	2043	3.9	8.9	8.7	8.0	0.7	8.5
	29	2044	3.9	8.9	8.7	8.0	0.7	8.5
	30	2045	3.9	8.9	8.7	8.0	0.7	8.5
	31	2046	3.9	8.9	8.7	8.0	0.7	8.5
	32	2047	3.9	8.9	8.7	8.0	0.7	8.5
	33	2048	3.9	8.9	8.7	8.0	0.7	8.5
	34	2049	3.9	8.9	8.7	8.0	0.7	8.5
	35	2050	3.9	8.9	8.7	8.0	0.7	8.5
	36	2051	3.9	8.9	8.7	8.0	0.7	8.5
	37	2052	3.9	8.9	8.7	8.0	0.7	8.5
	38	2053	3.9	8.9	8.7	8.0	0.7	8.5
	39	2054	3.9	8.9	8.7	8.0	0.7	8.5
	40	2055	3.9	8.9	8.7	8.0	0.7	8.5
	41	2056	3.9	8.9	8.7	8.0	0.7	8.5
	42	2057	3.9	8.9	8.7	8.0	0.7	8.5
	43	2058	3.9	8.9	8.7	8.0	0.7	8.5
	44	2059	3.9	8.9	8.7	8.0	0.7	8.5
	45	2060	3.9	8.9	8.7	8.0	0.7	8.5
	46	2061	3.9	8.9	8.7	8.0	0.7	8.5
	47	2062	3.9	8.9	8.7	8.0	0.7	8.5
	48	2063	3.9	8.9	8.7	8.0	0.7	8.5
	49	2064	3.9	8.9	8.7	8.0	0.7	8.5
	50	2065	3.9	8.9	8.7	8.0	0.7	8.5
Unserved Energy	1	2016	0.0	0.0	0.0	0.0	0.0	0.0
	2	2017	0.0	0.0	0.0	0.0	0.0	0.0
	3	2018	0.0	0.0	0.0	0.0	0.0	0.0
	4	2019	0.0	0.0	0.0	0.0	0.0	0.0
	5	2020	0.0	0.0	0.0	0.0	0.0	0.0
	6	2021	0.0	0.0	0.0	0.0	0.0	0.0
	7	2022	0.1	0.0	0.0	0.1	0.0	0.0
	8	2023	0.1	0.1	0.0	0.1	0.0	0.1
	9	2024	0.8	0.9	0.9	0.9	0.0	0.9
	10	2025	1.6	1.8	1.8	1.4	0.0	1.8
	11	2026	2.9	3.1	3.1	3.1	0.0	3.1
	12	2027	0.3	0.3	0.3	0.3	0.0	0.3
	13	2028	0.2	0.2	0.2	0.2	0.0	0.2
	14	2029	0.6	0.7	0.7	0.6	0.0	0.7

	15	2030	0.8	0.8	0.8	0.8	0.0	0.8
	16	2031	0.3	0.2	0.2	0.2	0.0	0.2
	17	2032	0.3	0.3	0.3	0.3	0.0	0.3
	18	2033	0.1	0.1	0.1	0.1	0.0	0.1
	19	2034	0.0	0.0	0.0	0.0	-0.0	0.0
	20	2035	0.2	0.2	0.2	0.2	0.0	0.2
	21	2036	1.7	1.9	1.9	1.9	-0.2	1.9
	22	2037	0.6	0.7	0.7	0.7	-0.1	0.7
	23	2038	0.6	0.7	0.7	0.7	-0.1	0.7
	24	2039	0.6	0.7	0.7	0.7	-0.1	0.7
	25	2040	0.6	0.7	0.7	0.7	-0.1	0.7
	26	2041	0.6	0.7	0.7	0.7	-0.1	0.7
	27	2042	0.6	0.7	0.7	0.7	-0.1	0.7
	28	2043	0.6	0.7	0.7	0.7	-0.1	0.7
	29	2044	0.6	0.7	0.7	0.7	-0.1	0.7
	30	2045	0.6	0.7	0.7	0.7	-0.1	0.7
	31	2046	0.6	0.7	0.7	0.7	-0.1	0.7
	32	2047	0.6	0.7	0.7	0.7	-0.1	0.7
	33	2048	0.6	0.7	0.7	0.7	-0.1	0.7
	34	2049	0.6	0.7	0.7	0.7	-0.1	0.7
	35	2050	0.6	0.7	0.7	0.7	-0.1	0.7
	36	2051	0.6	0.7	0.7	0.7	-0.1	0.7
	37	2052	0.6	0.7	0.7	0.7	-0.1	0.7
	38	2053	0.6	0.7	0.7	0.7	-0.1	0.7
	39	2054	0.6	0.7	0.7	0.7	-0.1	0.7
	40	2055	0.6	0.7	0.7	0.7	-0.1	0.7
	41	2056	0.6	0.7	0.7	0.7	-0.1	0.7
	42	2057	0.6	0.7	0.7	0.7	-0.1	0.7
	43	2058	0.6	0.7	0.7	0.7	-0.1	0.7
	44	2059	0.6	0.7	0.7	0.7	-0.1	0.7
	45	2060	0.6	0.7	0.7	0.7	-0.1	0.7
	46	2061	0.6	0.7	0.7	0.7	-0.1	0.7
	47	2062	0.6	0.7	0.7	0.7	-0.1	0.7
	48	2063	0.6	0.7	0.7	0.7	-0.1	0.7
	49	2064	0.6	0.7	0.7	0.7	-0.1	0.7
	50	2065	0.6	0.7	0.7	0.7	-0.1	0.7
Competition	1	2016	0.0	0.0	0.0	0.0	0.0	0.0
	2	2017	0.0	0.0	0.0	0.0	0.0	0.0
	3	2018	0.0	0.0	0.0	0.0	0.0	0.0
	4	2019	0.0	0.0	0.0	0.0	0.0	0.0
	5	2020	0.0	0.0	0.0	0.0	0.0	0.0
	6	2021	0.0	0.0	0.0	0.0	0.0	0.0
	7	2022	0.6	0.0	0.0	1.5	0.0	0.0
	8	2023	0.0	1.5	0.0	0.8	0.0	2.8
	9	2024	1.2	2.7	1.6	0.6	0.0	2.6
	10	2025	1.5	4.2	0.1	2.6	0.0	0.8
	11	2026	0.6	1.8	2.4	2.6	0.0	2.8
	12	2027	1.1	4.4	1.0	2.4	0.0	3.2
	13	2028	-0.2	3.7	5.1	1.9	0.0	1.3
	14	2029	0.7	2.8	2.5	1.9	0.0	3.9
	15	2030	1.6	2.4	1.5	0.1	0.0	0.6
	16	2031	0.5	1.2	2.5	2.4	0.0	1.4
	17	2032	0.8	1.4	2.2	1.1	0.0	1.0
	18	2033	1.1	3.2	0.5	1.8	0.0	-0.8
	19	2034	1.0	0.8	1.8	2.7	0.0	1.2
	20	2035	1.1	-0.0	2.4	0.7	0.2	-0.0
	21	2036	0.7	4.2	6.0	4.6	0.6	1.5
	22	2037	0.9	1.6	3.4	2.7	0.3	0.9
	23	2038	0.9	1.6	3.4	2.7	0.3	0.9
	24	2039	0.9	1.6	3.4	2.7	0.3	0.9
	25	2040	0.9	1.6	3.4	2.7	0.3	0.9
	26	2041	0.9	1.6	3.4	2.7	0.3	0.9
	27	2042	0.9	1.6	3.4	2.7	0.3	0.9
	28	2043	0.9	1.6	3.4	2.7	0.3	0.9
	29	2044	0.9	1.6	3.4	2.7	0.3	0.9
	30	2045	0.9	1.6	3.4	2.7	0.3	0.9
	31	2046	0.9	1.6	3.4	2.7	0.3	0.9
	32	2047	0.9	1.6	3.4	2.7	0.3	0.9
	33	2048	0.9	1.6	3.4	2.7	0.3	0.9
	34	2049	0.9	1.6	3.4	2.7	0.3	0.9
	35	2050	0.9	1.6	3.4	2.7	0.3	0.9
	36	2051	0.9	1.6	3.4	2.7	0.3	0.9
	37	2052	0.9	1.6	3.4	2.7	0.3	0.9
	38	2053	0.9	1.6	3.4	2.7	0.3	0.9
	39	2054	0.9	1.6	3.4	2.7	0.3	0.9
	40	2055	0.9	1.6	3.4	2.7	0.3	0.9
	41	2056	0.9	1.6	3.4	2.7	0.3	0.9
	42	2057	0.9	1.6	3.4	2.7	0.3	0.9
	43	2058	0.9	1.6	3.4	2.7	0.3	0.9
	44	2059	0.9	1.6	3.4	2.7	0.3	0.9
	45	2060	0.9	1.6	3.4	2.7	0.3	0.9
	46	2061	0.9	1.6	3.4	2.7	0.3	0.9
	47	2062	0.9	1.6	3.4	2.7	0.3	0.9
	48	2063	0.9	1.6	3.4	2.7	0.3	0.9
	49	2064	0.9	1.6	3.4	2.7	0.3	0.9
	50	2065	0.9	1.6	3.4	2.7	0.3	0.9
Total (Excl CB)	1	2016	0.0	0.0	0.0	0.0	0.0	0.0
	2	2017	0.0	0.0	0.0	0.0	0.0	0.0
	3	2018	0.0	0.0	0.0	0.0	0.0	0.0

	4	2019	0.0	0.0	0.0	0.0	0.0	0.0	
	5	2020	0.0	0.0	0.0	0.0	0.0	0.0	
	6	2021	0.0	0.0	0.0	0.0	0.0	0.0	
	7	2022	2.6	0.0	0.0	4.5	0.0	0.0	
	8	2023	3.1	6.3	0.0	5.9	0.0	6.2	
	9	2024	4.5	8.0	8.3	7.7	0.0	8.3	
	10	2025	6.0	11.3	10.5	9.5	0.0	10.7	
	11	2026	8.0	13.9	13.8	12.8	0.0	14.4	
	12	2027	4.3	10.6	10.6	9.6	0.0	11.0	
	13	2028	4.1	10.8	10.6	9.5	0.0	10.4	
	14	2029	4.8	11.3	11.4	10.8	0.0	11.2	
	15	2030	4.7	10.1	9.5	9.0	0.0	9.8	
	16	2031	2.9	7.0	7.7	7.2	0.0	8.5	
	17	2032	4.2	9.9	10.8	9.5	0.0	10.4	
	18	2033	3.4	9.5	9.3	8.6	0.0	9.7	
	19	2034	4.2	10.2	9.8	9.1	0.4	9.5	
	20	2035	4.2	7.1	7.7	7.0	1.0	7.0	
	21	2036	5.2	11.3	10.8	10.0	0.4	11.0	
	22	2037	4.5	9.5	9.4	8.7	0.6	9.2	
	23	2038	4.5	9.5	9.4	8.7	0.6	9.2	
	24	2039	4.5	9.5	9.4	8.7	0.6	9.2	
	25	2040	4.5	9.5	9.4	8.7	0.6	9.2	
	26	2041	4.5	9.5	9.4	8.7	0.6	9.2	
	27	2042	4.5	9.5	9.4	8.7	0.6	9.2	
	28	2043	4.5	9.5	9.4	8.7	0.6	9.2	
	29	2044	4.5	9.5	9.4	8.7	0.6	9.2	
	30	2045	4.5	9.5	9.4	8.7	0.6	9.2	
	31	2046	4.5	9.5	9.4	8.7	0.6	9.2	
	32	2047	4.5	9.5	9.4	8.7	0.6	9.2	
	33	2048	4.5	9.5	9.4	8.7	0.6	9.2	
	34	2049	4.5	9.5	9.4	8.7	0.6	9.2	
	35	2050	4.5	9.5	9.4	8.7	0.6	9.2	
	36	2051	4.5	9.5	9.4	8.7	0.6	9.2	
	37	2052	4.5	9.5	9.4	8.7	0.6	9.2	
	38	2053	4.5	9.5	9.4	8.7	0.6	9.2	
	39	2054	4.5	9.5	9.4	8.7	0.6	9.2	
	40	2055	4.5	9.5	9.4	8.7	0.6	9.2	
	41	2056	4.5	9.5	9.4	8.7	0.6	9.2	
	42	2057	4.5	9.5	9.4	8.7	0.6	9.2	
	43	2058	4.5	9.5	9.4	8.7	0.6	9.2	
	44	2059	4.5	9.5	9.4	8.7	0.6	9.2	
	45	2060	4.5	9.5	9.4	8.7	0.6	9.2	
	46	2061	4.5	9.5	9.4	8.7	0.6	9.2	
	47	2062	4.5	9.5	9.4	8.7	0.6	9.2	
	48	2063	4.5	9.5	9.4	8.7	0.6	9.2	
	49	2064	4.5	9.5	9.4	8.7	0.6	9.2	
	50	2065	4.5	9.5	9.4	8.7	0.6	9.2	
Total (Incl CB)	1	2016	0.0	0.0	0.0	0.0	0.0	0.0	
	2	2017	0.0	0.0	0.0	0.0	0.0	0.0	
	3	2018	0.0	0.0	0.0	0.0	0.0	0.0	
	4	2019	0.0	0.0	0.0	0.0	0.0	0.0	
	5	2020	0.0	0.0	0.0	0.0	0.0	0.0	
	6	2021	0.0	0.0	0.0	0.0	0.0	0.0	
	7	2022	3.1	0.0	0.0	6.0	0.0	0.0	
	8	2023	3.1	7.8	0.0	6.6	0.0	9.0	
	9	2024	5.7	10.7	9.9	8.3	0.0	10.9	
	10	2025	7.5	15.5	10.6	12.2	0.0	11.5	
	11	2026	8.6	15.7	16.1	15.4	0.0	17.2	
	12	2027	5.4	15.0	11.6	12.0	0.0	14.3	
	13	2028	3.9	14.5	15.6	11.4	0.0	11.7	
	14	2029	5.5	14.1	13.9	12.7	0.0	15.1	
	15	2030	6.3	12.5	11.0	9.0	0.0	10.4	
	16	2031	3.3	8.2	10.2	9.6	0.0	9.9	
	17	2032	4.9	11.2	12.9	10.6	0.0	11.4	
	18	2033	4.5	12.7	9.8	10.4	0.0	8.9	
	19	2034	5.2	11.0	11.6	11.8	0.4	10.7	
	20	2035	5.3	7.0	10.1	7.8	1.2	7.0	
	21	2036	5.8	15.5	16.8	14.6	1.0	12.5	
		22	2037	5.4	11.2	12.8	11.4	0.9	10.0
		23	2038	5.4	11.2	12.8	11.4	0.9	10.0
		24	2039	5.4	11.2	12.8	11.4	0.9	10.0
		25	2040	5.4	11.2	12.8	11.4	0.9	10.0
		26	2041	5.4	11.2	12.8	11.4	0.9	10.0
		27	2042	5.4	11.2	12.8	11.4	0.9	10.0
		28	2043	5.4	11.2	12.8	11.4	0.9	10.0
		29	2044	5.4	11.2	12.8	11.4	0.9	10.0
		30	2045	5.4	11.2	12.8	11.4	0.9	10.0
		31	2046	5.4	11.2	12.8	11.4	0.9	10.0
		32	2047	5.4	11.2	12.8	11.4	0.9	10.0
		33	2048	5.4	11.2	12.8	11.4	0.9	10.0
		34	2049	5.4	11.2	12.8	11.4	0.9	10.0
		35	2050	5.4	11.2	12.8	11.4	0.9	10.0
		36	2051	5.4	11.2	12.8	11.4	0.9	10.0
		37	2052	5.4	11.2	12.8	11.4	0.9	10.0
		38	2053	5.4	11.2	12.8	11.4	0.9	10.0
		39	2054	5.4	11.2	12.8	11.4	0.9	10.0
		40	2055	5.4	11.2	12.8	11.4	0.9	10.0
		41	2056	5.4	11.2	12.8	11.4	0.9	10.0
		42	2057	5.4	11.2	12.8	11.4	0.9	10.0

	43	2058	5.4	11.2	12.8	11.4	0.9	10.0
	44	2059	5.4	11.2	12.8	11.4	0.9	10.0
	45	2060	5.4	11.2	12.8	11.4	0.9	10.0
	46	2061	5.4	11.2	12.8	11.4	0.9	10.0
	47	2062	5.4	11.2	12.8	11.4	0.9	10.0
	48	2063	5.4	11.2	12.8	11.4	0.9	10.0
	49	2064	5.4	11.2	12.8	11.4	0.9	10.0
	50	2065	5.4	11.2	12.8	11.4	0.9	10.0
AEC	1	2016	0.0	0.0	0.0	0.0	0.0	0.0
	2	2017	0.0	0.0	0.0	0.0	0.0	0.0
	3	2018	0.0	0.0	0.0	0.0	0.0	0.0
	4	2019	0.0	0.0	0.0	0.0	0.0	0.0
	5	2020	0.0	0.0	0.0	0.0	0.0	0.0
	6	2021	0.0	0.0	0.0	0.0	0.0	0.0
	7	2022	4.8	0.0	0.0	13.4	0.0	0.0
	8	2023	4.8	18.5	0.0	13.4	0.0	18.1
	9	2024	4.8	18.5	22.8	13.4	0.0	18.1
	10	2025	4.8	18.5	22.8	13.4	0.0	18.1
	11	2026	4.8	18.5	22.8	13.4	0.0	18.1
	12	2027	4.8	18.5	22.8	13.4	0.0	18.1
	13	2028	4.8	18.5	22.8	13.4	0.0	18.1
	14	2029	4.8	18.5	22.8	13.4	0.0	18.1
	15	2030	4.8	18.5	22.8	13.4	0.0	18.1
	16	2031	4.8	18.5	22.8	13.4	0.0	18.1
	17	2032	4.8	18.5	22.8	13.4	0.0	18.1
	18	2033	4.8	18.5	22.8	13.4	0.0	18.1
	19	2034	4.8	18.5	22.8	13.4	5.5	18.1
	20	2035	4.8	18.5	22.8	13.4	5.5	18.1
	21	2036	4.8	18.5	22.8	13.4	5.5	18.1
	22	2037	4.8	18.5	22.8	13.4	5.5	18.1
	23	2038	4.8	18.5	22.8	13.4	5.5	18.1
	24	2039	4.8	18.5	22.8	13.4	5.5	18.1
	25	2040	4.8	18.5	22.8	13.4	5.5	18.1
	26	2041	4.8	18.5	22.8	13.4	5.5	18.1
	27	2042	4.8	18.5	22.8	13.4	5.5	18.1
	28	2043	4.8	18.5	22.8	13.4	5.5	18.1
	29	2044	4.8	18.5	22.8	13.4	5.5	18.1
	30	2045	4.8	18.5	22.8	13.4	5.5	18.1
	31	2046	4.8	18.5	22.8	13.4	5.5	18.1
	32	2047	4.8	18.5	22.8	13.4	5.5	18.1
	33	2048	4.8	18.5	22.8	13.4	5.5	18.1
	34	2049	4.8	18.5	22.8	13.4	5.5	18.1
	35	2050	4.8	18.5	22.8	13.4	5.5	18.1
	36	2051	4.8	18.5	22.8	13.4	5.5	18.1
	37	2052	4.8	18.5	22.8	13.4	5.5	18.1
	38	2053	4.8	18.5	22.8	13.4	5.5	18.1
	39	2054	4.8	18.5	22.8	13.4	5.5	18.1
	40	2055	4.8	18.5	22.8	13.4	5.5	18.1
	41	2056	4.8	18.5	22.8	13.4	5.5	18.1
	42	2057	4.8	18.5	22.8	13.4	5.5	18.1
	43	2058	4.8	18.5	22.8	13.4	5.5	18.1
	44	2059	4.8	18.5	22.8	13.4	5.5	18.1
	45	2060	4.8	18.5	22.8	13.4	5.5	18.1
	46	2061	4.8	18.5	22.8	13.4	5.5	18.1
	47	2062	4.8	18.5	22.8	13.4	5.5	18.1
	48	2063	4.8	18.5	22.8	13.4	5.5	18.1
	49	2064	4.8	18.5	22.8	13.4	5.5	18.1
	50	2065	4.8	18.5	22.8	13.4	5.5	18.1

**Cashflows (PG)**

Option	0	1a	1B	1c	2A	2B
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**Project Costs (\$M)**

Capital Cost	46.5	\$179.5	\$222.0	\$130.0	\$53.5	\$176.2
Annualised Equivalent Cost (AEC) - inc. opex	4.8	18.5	22.8	13.4	5.5	18.1

**Gross Benefits (\$M)**

Dispatch Cost Savings	6.9	38.1	36.0	31.1	2.3	35.4
Unserved Energy (USE) Reduction	9.0	8.5	6.0	9.7	0.0	8.4
Competition Benefits	-0.2	16.2	19.4	10.7	1.0	13.0
Total excluding Competition Benefits	15.9	46.6	42.0	40.7	2.3	43.9
Total including Competition Benefits	15.6	62.7	61.3	51.4	3.2	56.9

**Net Benefits (\$M)**

Total excluding Competition Benefits	-10.7	-46.6	-62.6	-33.6	-7.2	-47.6
Total including Competition Benefits	-11.0	-30.4	-43.3	-22.9	-6.2	-34.6

**Benefit Cashflows (\$M)**

Dispatch Cost	1	2016	0.0	0.0	0.0	0.0	0.0	0.0
	2	2017	0.0	0.0	0.0	0.0	0.0	0.0
	3	2018	0.0	0.0	0.0	0.0	0.0	0.0
	4	2019	0.0	0.0	0.0	0.0	0.0	0.0
	5	2020	0.0	0.0	0.0	0.0	0.0	0.0
	6	2021	0.0	0.0	0.0	0.0	0.0	0.0
	7	2022	1.2	0.0	0.0	1.9	0.0	0.0
	8	2023	0.9	4.3	0.0	3.8	0.0	4.4
	9	2024	2.9	9.9	9.5	8.6	0.0	9.4
	10	2025	2.9	15.6	15.5	13.1	0.0	15.7
	11	2026	1.7	10.0	10.0	8.1	0.0	9.6
	12	2027	1.0	9.9	10.6	8.1	0.0	10.3
	13	2028	0.6	7.0	6.9	5.3	0.0	6.4
	14	2029	0.1	2.8	2.3	2.1	0.0	2.2
	15	2030	0.3	3.5	3.7	2.3	0.0	2.8
	16	2031	0.8	4.9	5.0	3.7	0.0	4.0
	17	2032	0.9	5.3	5.3	4.3	0.0	4.3
	18	2033	0.6	3.9	4.0	2.2	0.0	3.1
	19	2034	0.8	5.7	5.8	4.0	-0.1	4.6
	20	2035	1.1	5.8	5.8	4.8	2.0	5.5
	21	2036	1.4	11.0	10.9	8.0	2.1	10.0
	22	2037	1.1	7.5	7.5	5.6	1.3	6.7
	23	2038	1.1	7.5	7.5	5.6	1.3	6.7
	24	2039	1.1	7.5	7.5	5.6	1.3	6.7
	25	2040	1.1	7.5	7.5	5.6	1.3	6.7
	26	2041	1.1	7.5	7.5	5.6	1.3	6.7
	27	2042	1.1	7.5	7.5	5.6	1.3	6.7
	28	2043	1.1	7.5	7.5	5.6	1.3	6.7
	29	2044	1.1	7.5	7.5	5.6	1.3	6.7
	30	2045	1.1	7.5	7.5	5.6	1.3	6.7
	31	2046	1.1	7.5	7.5	5.6	1.3	6.7
	32	2047	1.1	7.5	7.5	5.6	1.3	6.7
	33	2048	1.1	7.5	7.5	5.6	1.3	6.7
	34	2049	1.1	7.5	7.5	5.6	1.3	6.7
	35	2050	1.1	7.5	7.5	5.6	1.3	6.7
	36	2051	1.1	7.5	7.5	5.6	1.3	6.7
	37	2052	1.1	7.5	7.5	5.6	1.3	6.7
	38	2053	1.1	7.5	7.5	5.6	1.3	6.7
	39	2054	1.1	7.5	7.5	5.6	1.3	6.7
	40	2055	1.1	7.5	7.5	5.6	1.3	6.7
	41	2056	1.1	7.5	7.5	5.6	1.3	6.7
	42	2057	1.1	7.5	7.5	5.6	1.3	6.7
	43	2058	1.1	7.5	7.5	5.6	1.3	6.7
	44	2059	1.1	7.5	7.5	5.6	1.3	6.7
	45	2060	1.1	7.5	7.5	5.6	1.3	6.7
	46	2061	1.1	7.5	7.5	5.6	1.3	6.7
	47	2062	1.1	7.5	7.5	5.6	1.3	6.7
	48	2063	1.1	7.5	7.5	5.6	1.3	6.7
	49	2064	1.1	7.5	7.5	5.6	1.3	6.7
	50	2065	1.1	7.5	7.5	5.6	1.3	6.7
Unserved Energy	1	2016	0.0	0.0	0.0	0.0	0.0	0.0
	2	2017	0.0	0.0	0.0	0.0	0.0	0.0
	3	2018	0.0	0.0	0.0	0.0	0.0	0.0
	4	2019	0.0	0.0	0.0	0.0	0.0	0.0
	5	2020	0.0	0.0	0.0	0.0	0.0	0.0
	6	2021	0.0	0.0	0.0	0.0	0.0	0.0
	7	2022	2.3	0.0	0.0	2.4	0.0	0.0
	8	2023	5.2	5.5	0.0	5.5	0.0	5.5
	9	2024	1.8	1.9	1.9	1.9	0.0	1.9
	10	2025	2.2	2.4	2.4	2.4	0.0	2.4
	11	2026	3.3	3.5	3.5	3.5	0.0	3.5
	12	2027	1.3	1.5	1.5	1.4	0.0	1.4
	13	2028	2.1	2.7	2.7	2.6	0.0	2.6
	14	2029	1.0	1.2	1.2	1.2	0.0	1.2



	15	2030	0.5	0.5	0.5	0.5	0.0	0.5
	16	2031	1.3	1.4	1.4	1.4	0.0	1.4
	17	2032	0.6	0.7	0.7	0.6	0.0	0.6
	18	2033	1.1	1.2	1.2	1.1	0.0	1.1
	19	2034	0.1	0.1	0.1	0.1	-0.0	0.1
	20	2035	0.4	0.5	0.5	0.5	-0.0	0.5
	21	2036	0.5	0.7	0.7	0.6	0.0	0.7
	22	2037	0.3	0.4	0.4	0.4	0.0	0.4
	23	2038	0.3	0.4	0.4	0.4	0.0	0.4
	24	2039	0.3	0.4	0.4	0.4	0.0	0.4
	25	2040	0.3	0.4	0.4	0.4	0.0	0.4
	26	2041	0.3	0.4	0.4	0.4	0.0	0.4
	27	2042	0.3	0.4	0.4	0.4	0.0	0.4
	28	2043	0.3	0.4	0.4	0.4	0.0	0.4
	29	2044	0.3	0.4	0.4	0.4	0.0	0.4
	30	2045	0.3	0.4	0.4	0.4	0.0	0.4
	31	2046	0.3	0.4	0.4	0.4	0.0	0.4
	32	2047	0.3	0.4	0.4	0.4	0.0	0.4
	33	2048	0.3	0.4	0.4	0.4	0.0	0.4
	34	2049	0.3	0.4	0.4	0.4	0.0	0.4
	35	2050	0.3	0.4	0.4	0.4	0.0	0.4
	36	2051	0.3	0.4	0.4	0.4	0.0	0.4
	37	2052	0.3	0.4	0.4	0.4	0.0	0.4
	38	2053	0.3	0.4	0.4	0.4	0.0	0.4
	39	2054	0.3	0.4	0.4	0.4	0.0	0.4
	40	2055	0.3	0.4	0.4	0.4	0.0	0.4
	41	2056	0.3	0.4	0.4	0.4	0.0	0.4
	42	2057	0.3	0.4	0.4	0.4	0.0	0.4
	43	2058	0.3	0.4	0.4	0.4	0.0	0.4
	44	2059	0.3	0.4	0.4	0.4	0.0	0.4
	45	2060	0.3	0.4	0.4	0.4	0.0	0.4
	46	2061	0.3	0.4	0.4	0.4	0.0	0.4
	47	2062	0.3	0.4	0.4	0.4	0.0	0.4
	48	2063	0.3	0.4	0.4	0.4	0.0	0.4
	49	2064	0.3	0.4	0.4	0.4	0.0	0.4
	50	2065	0.3	0.4	0.4	0.4	0.0	0.4
Competition	1	2016	0.0	0.0	0.0	0.0	0.0	0.0
	2	2017	0.0	0.0	0.0	0.0	0.0	0.0
	3	2018	0.0	0.0	0.0	0.0	0.0	0.0
	4	2019	0.0	0.0	0.0	0.0	0.0	0.0
	5	2020	0.0	0.0	0.0	0.0	0.0	0.0
	6	2021	0.0	0.0	0.0	0.0	0.0	0.0
	7	2022	0.5	0.0	0.0	0.3	0.0	0.0
	8	2023	0.3	-0.2	0.0	1.0	0.0	1.5
	9	2024	-0.4	-0.0	-0.2	0.9	0.0	1.0
	10	2025	-0.1	1.5	1.9	1.3	0.0	1.3
	11	2026	0.2	3.5	1.1	2.0	0.0	2.1
	12	2027	0.8	3.3	2.3	2.5	0.0	2.2
	13	2028	0.5	5.2	11.7	3.4	0.0	3.9
	14	2029	-0.2	8.0	7.2	2.8	0.0	3.3
	15	2030	-1.2	0.8	1.8	1.4	0.0	1.2
	16	2031	-0.2	4.5	5.4	1.6	0.0	0.1
	17	2032	-0.7	0.8	0.6	1.6	0.0	2.0
	18	2033	0.7	3.3	2.9	1.2	0.0	3.0
	19	2034	0.6	3.6	4.2	1.0	0.3	3.1
	20	2035	-0.1	4.4	9.2	2.1	2.2	4.5
	21	2036	-1.4	5.9	4.2	5.4	-0.8	4.3
	22	2037	-0.3	4.6	5.9	2.8	0.6	3.9
	23	2038	-0.3	4.6	5.9	2.8	0.6	3.9
	24	2039	-0.3	4.6	5.9	2.8	0.6	3.9
	25	2040	-0.3	4.6	5.9	2.8	0.6	3.9
	26	2041	-0.3	4.6	5.9	2.8	0.6	3.9
	27	2042	-0.3	4.6	5.9	2.8	0.6	3.9
	28	2043	-0.3	4.6	5.9	2.8	0.6	3.9
	29	2044	-0.3	4.6	5.9	2.8	0.6	3.9
	30	2045	-0.3	4.6	5.9	2.8	0.6	3.9
	31	2046	-0.3	4.6	5.9	2.8	0.6	3.9
	32	2047	-0.3	4.6	5.9	2.8	0.6	3.9
	33	2048	-0.3	4.6	5.9	2.8	0.6	3.9
	34	2049	-0.3	4.6	5.9	2.8	0.6	3.9
	35	2050	-0.3	4.6	5.9	2.8	0.6	3.9
	36	2051	-0.3	4.6	5.9	2.8	0.6	3.9
	37	2052	-0.3	4.6	5.9	2.8	0.6	3.9
	38	2053	-0.3	4.6	5.9	2.8	0.6	3.9
	39	2054	-0.3	4.6	5.9	2.8	0.6	3.9
	40	2055	-0.3	4.6	5.9	2.8	0.6	3.9
	41	2056	-0.3	4.6	5.9	2.8	0.6	3.9
	42	2057	-0.3	4.6	5.9	2.8	0.6	3.9
	43	2058	-0.3	4.6	5.9	2.8	0.6	3.9
	44	2059	-0.3	4.6	5.9	2.8	0.6	3.9
	45	2060	-0.3	4.6	5.9	2.8	0.6	3.9
	46	2061	-0.3	4.6	5.9	2.8	0.6	3.9
	47	2062	-0.3	4.6	5.9	2.8	0.6	3.9
	48	2063	-0.3	4.6	5.9	2.8	0.6	3.9
	49	2064	-0.3	4.6	5.9	2.8	0.6	3.9
	50	2065	-0.3	4.6	5.9	2.8	0.6	3.9
Total (Excl CB)	1	2016	0.0	0.0	0.0	0.0	0.0	0.0
	2	2017	0.0	0.0	0.0	0.0	0.0	0.0
	3	2018	0.0	0.0	0.0	0.0	0.0	0.0

	4	2019	0.0	0.0	0.0	0.0	0.0	0.0	
	5	2020	0.0	0.0	0.0	0.0	0.0	0.0	
	6	2021	0.0	0.0	0.0	0.0	0.0	0.0	
	7	2022	3.5	0.0	0.0	4.3	0.0	0.0	
	8	2023	6.1	9.8	0.0	9.2	0.0	9.9	
	9	2024	4.6	11.8	11.4	10.5	0.0	11.3	
	10	2025	5.1	18.0	17.9	15.5	0.0	18.0	
	11	2026	5.0	13.5	13.5	11.6	0.0	13.0	
	12	2027	2.3	11.4	12.1	9.5	0.0	11.7	
	13	2028	2.7	9.6	9.6	8.0	0.0	9.0	
	14	2029	1.2	4.0	3.5	3.2	0.0	3.4	
	15	2030	0.8	4.0	4.2	2.8	0.0	3.3	
	16	2031	2.2	6.3	6.4	5.0	0.0	5.4	
	17	2032	1.4	6.0	6.0	4.9	0.0	5.0	
	18	2033	1.7	5.1	5.2	3.4	0.0	4.2	
	19	2034	0.8	5.8	5.9	4.1	-0.1	4.6	
	20	2035	1.6	6.3	6.3	5.3	2.0	6.0	
	21	2036	1.9	11.7	11.5	8.6	2.2	10.7	
	22	2037	1.4	7.9	7.9	6.0	1.3	7.1	
	23	2038	1.4	7.9	7.9	6.0	1.3	7.1	
	24	2039	1.4	7.9	7.9	6.0	1.3	7.1	
	25	2040	1.4	7.9	7.9	6.0	1.3	7.1	
	26	2041	1.4	7.9	7.9	6.0	1.3	7.1	
	27	2042	1.4	7.9	7.9	6.0	1.3	7.1	
	28	2043	1.4	7.9	7.9	6.0	1.3	7.1	
	29	2044	1.4	7.9	7.9	6.0	1.3	7.1	
	30	2045	1.4	7.9	7.9	6.0	1.3	7.1	
	31	2046	1.4	7.9	7.9	6.0	1.3	7.1	
	32	2047	1.4	7.9	7.9	6.0	1.3	7.1	
	33	2048	1.4	7.9	7.9	6.0	1.3	7.1	
	34	2049	1.4	7.9	7.9	6.0	1.3	7.1	
	35	2050	1.4	7.9	7.9	6.0	1.3	7.1	
	36	2051	1.4	7.9	7.9	6.0	1.3	7.1	
	37	2052	1.4	7.9	7.9	6.0	1.3	7.1	
	38	2053	1.4	7.9	7.9	6.0	1.3	7.1	
	39	2054	1.4	7.9	7.9	6.0	1.3	7.1	
	40	2055	1.4	7.9	7.9	6.0	1.3	7.1	
	41	2056	1.4	7.9	7.9	6.0	1.3	7.1	
	42	2057	1.4	7.9	7.9	6.0	1.3	7.1	
	43	2058	1.4	7.9	7.9	6.0	1.3	7.1	
	44	2059	1.4	7.9	7.9	6.0	1.3	7.1	
	45	2060	1.4	7.9	7.9	6.0	1.3	7.1	
	46	2061	1.4	7.9	7.9	6.0	1.3	7.1	
	47	2062	1.4	7.9	7.9	6.0	1.3	7.1	
	48	2063	1.4	7.9	7.9	6.0	1.3	7.1	
	49	2064	1.4	7.9	7.9	6.0	1.3	7.1	
	50	2065	1.4	7.9	7.9	6.0	1.3	7.1	
Total (Incl CB)	1	2016	0.0	0.0	0.0	0.0	0.0	0.0	
	2	2017	0.0	0.0	0.0	0.0	0.0	0.0	
	3	2018	0.0	0.0	0.0	0.0	0.0	0.0	
	4	2019	0.0	0.0	0.0	0.0	0.0	0.0	
	5	2020	0.0	0.0	0.0	0.0	0.0	0.0	
	6	2021	0.0	0.0	0.0	0.0	0.0	0.0	
	7	2022	3.9	0.0	0.0	4.6	0.0	0.0	
	8	2023	6.3	9.6	0.0	10.2	0.0	11.4	
	9	2024	4.2	11.8	11.2	11.4	0.0	12.3	
	10	2025	5.0	19.4	19.7	16.8	0.0	19.3	
	11	2026	5.2	17.0	14.6	13.5	0.0	15.1	
	12	2027	3.2	14.7	14.4	12.0	0.0	13.8	
	13	2028	3.3	14.8	21.3	11.4	0.0	12.9	
	14	2029	1.0	12.0	10.7	6.0	0.0	6.7	
	15	2030	-0.4	4.8	6.0	4.2	0.0	4.5	
	16	2031	1.9	10.8	11.8	6.7	0.0	5.5	
	17	2032	0.7	6.8	6.6	6.5	0.0	7.0	
	18	2033	2.5	8.4	8.1	4.6	0.0	7.2	
	19	2034	1.4	9.4	10.1	5.0	0.3	7.7	
	20	2035	1.4	10.7	15.5	7.4	4.1	10.5	
	21	2036	0.6	17.6	15.8	14.0	1.3	15.0	
		22	2037	1.2	12.6	13.8	8.8	1.9	11.0
		23	2038	1.2	12.6	13.8	8.8	1.9	11.0
		24	2039	1.2	12.6	13.8	8.8	1.9	11.0
		25	2040	1.2	12.6	13.8	8.8	1.9	11.0
		26	2041	1.2	12.6	13.8	8.8	1.9	11.0
		27	2042	1.2	12.6	13.8	8.8	1.9	11.0
		28	2043	1.2	12.6	13.8	8.8	1.9	11.0
		29	2044	1.2	12.6	13.8	8.8	1.9	11.0
		30	2045	1.2	12.6	13.8	8.8	1.9	11.0
		31	2046	1.2	12.6	13.8	8.8	1.9	11.0
		32	2047	1.2	12.6	13.8	8.8	1.9	11.0
		33	2048	1.2	12.6	13.8	8.8	1.9	11.0
		34	2049	1.2	12.6	13.8	8.8	1.9	11.0
		35	2050	1.2	12.6	13.8	8.8	1.9	11.0
		36	2051	1.2	12.6	13.8	8.8	1.9	11.0
		37	2052	1.2	12.6	13.8	8.8	1.9	11.0
		38	2053	1.2	12.6	13.8	8.8	1.9	11.0
		39	2054	1.2	12.6	13.8	8.8	1.9	11.0
		40	2055	1.2	12.6	13.8	8.8	1.9	11.0
		41	2056	1.2	12.6	13.8	8.8	1.9	11.0
		42	2057	1.2	12.6	13.8	8.8	1.9	11.0

	43	2058	1.2	12.6	13.8	8.8	1.9	11.0
	44	2059	1.2	12.6	13.8	8.8	1.9	11.0
	45	2060	1.2	12.6	13.8	8.8	1.9	11.0
	46	2061	1.2	12.6	13.8	8.8	1.9	11.0
	47	2062	1.2	12.6	13.8	8.8	1.9	11.0
	48	2063	1.2	12.6	13.8	8.8	1.9	11.0
	49	2064	1.2	12.6	13.8	8.8	1.9	11.0
	50	2065	1.2	12.6	13.8	8.8	1.9	11.0
AEC	1	2016	0.0	0.0	0.0	0.0	0.0	0.0
	2	2017	0.0	0.0	0.0	0.0	0.0	0.0
	3	2018	0.0	0.0	0.0	0.0	0.0	0.0
	4	2019	0.0	0.0	0.0	0.0	0.0	0.0
	5	2020	0.0	0.0	0.0	0.0	0.0	0.0
	6	2021	0.0	0.0	0.0	0.0	0.0	0.0
	7	2022	4.8	0.0	0.0	13.4	0.0	0.0
	8	2023	4.8	18.5	0.0	13.4	0.0	18.1
	9	2024	4.8	18.5	22.8	13.4	0.0	18.1
	10	2025	4.8	18.5	22.8	13.4	0.0	18.1
	11	2026	4.8	18.5	22.8	13.4	0.0	18.1
	12	2027	4.8	18.5	22.8	13.4	0.0	18.1
	13	2028	4.8	18.5	22.8	13.4	0.0	18.1
	14	2029	4.8	18.5	22.8	13.4	0.0	18.1
	15	2030	4.8	18.5	22.8	13.4	0.0	18.1
	16	2031	4.8	18.5	22.8	13.4	0.0	18.1
	17	2032	4.8	18.5	22.8	13.4	0.0	18.1
	18	2033	4.8	18.5	22.8	13.4	0.0	18.1
	19	2034	4.8	18.5	22.8	13.4	5.5	18.1
	20	2035	4.8	18.5	22.8	13.4	5.5	18.1
	21	2036	4.8	18.5	22.8	13.4	5.5	18.1
	22	2037	4.8	18.5	22.8	13.4	5.5	18.1
	23	2038	4.8	18.5	22.8	13.4	5.5	18.1
	24	2039	4.8	18.5	22.8	13.4	5.5	18.1
	25	2040	4.8	18.5	22.8	13.4	5.5	18.1
	26	2041	4.8	18.5	22.8	13.4	5.5	18.1
	27	2042	4.8	18.5	22.8	13.4	5.5	18.1
	28	2043	4.8	18.5	22.8	13.4	5.5	18.1
	29	2044	4.8	18.5	22.8	13.4	5.5	18.1
	30	2045	4.8	18.5	22.8	13.4	5.5	18.1
	31	2046	4.8	18.5	22.8	13.4	5.5	18.1
	32	2047	4.8	18.5	22.8	13.4	5.5	18.1
	33	2048	4.8	18.5	22.8	13.4	5.5	18.1
	34	2049	4.8	18.5	22.8	13.4	5.5	18.1
	35	2050	4.8	18.5	22.8	13.4	5.5	18.1
	36	2051	4.8	18.5	22.8	13.4	5.5	18.1
	37	2052	4.8	18.5	22.8	13.4	5.5	18.1
	38	2053	4.8	18.5	22.8	13.4	5.5	18.1
	39	2054	4.8	18.5	22.8	13.4	5.5	18.1
	40	2055	4.8	18.5	22.8	13.4	5.5	18.1
	41	2056	4.8	18.5	22.8	13.4	5.5	18.1
	42	2057	4.8	18.5	22.8	13.4	5.5	18.1
	43	2058	4.8	18.5	22.8	13.4	5.5	18.1
	44	2059	4.8	18.5	22.8	13.4	5.5	18.1
	45	2060	4.8	18.5	22.8	13.4	5.5	18.1
	46	2061	4.8	18.5	22.8	13.4	5.5	18.1
	47	2062	4.8	18.5	22.8	13.4	5.5	18.1
	48	2063	4.8	18.5	22.8	13.4	5.5	18.1
	49	2064	4.8	18.5	22.8	13.4	5.5	18.1
	50	2065	4.8	18.5	22.8	13.4	5.5	18.1

**Cashflows (PW)**

Option	0	1a	1B	1c	2A	2B
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**Project Costs (\$M)**

Capital Cost	46.5	\$179.5	\$222.0	\$130.0	\$53.5	\$176.2
Annualised Equivalent Cost (AEC) - inc. opex	4.8	18.5	22.8	13.4	5.5	18.1

**Wind Connection (\$M)**

Capital cost reduction on base case	0.0	-\$97.0	-\$97.0	\$0.0	\$0.0	\$0.0
Annualised Equivalent Cost (AEC) - inc. opex	0.0	-10.0	-10.0	0.0	0.0	0.0

**Gross Benefits (\$M)**

Dispatch Cost Savings	65.1	95.3	90.6	98.4	2.7	95.0
Unserved Energy (USE) Reduction	7.3	6.6	4.9	7.5	0.1	6.6
Competition Benefits	7.9	9.3	6.4	11.9	2.5	11.3
Differences in timing of expenditure	0.0	-\$50.4	-\$45.7	0.0	0.0	0.0
Total excluding Competition Benefits	72.5	51.6	49.8	105.9	2.8	101.6
Total including Competition Benefits	80.3	60.9	56.2	117.8	5.3	112.9

**Net Benefits (\$M)**

Total excluding Competition Benefits	45.9	-\$41.6	-\$54.8	31.6	-\$6.7	10.1
Total including Competition Benefits	53.7	-\$32.3	-\$48.4	43.4	-\$4.1	21.4

**Benefit Cashflows (\$M)**

Dispatch Cost	1	2016	0.0	0.0	0.0	0.0	0.0	0.0
	2	2017	0.0	0.0	0.0	0.0	0.0	0.0
	3	2018	0.0	0.0	0.0	0.0	0.0	0.0
	4	2019	0.0	0.0	0.0	0.0	0.0	0.0
	5	2020	0.0	0.0	0.0	0.0	0.0	0.0
	6	2021	0.0	0.0	0.0	0.0	0.0	0.0
	7	2022	6.1	0.0	0.0	8.9	0.0	0.0
	8	2023	7.6	9.9	0.0	10.3	0.0	10.2
	9	2024	9.3	13.0	13.1	13.4	0.0	12.8
	10	2025	13.0	18.1	18.0	16.9	0.0	17.5
	11	2026	11.0	15.8	15.7	16.2	0.0	16.5
	12	2027	9.9	16.8	17.1	16.2	0.0	17.1
	13	2028	11.5	18.4	18.5	17.3	0.0	18.1
	14	2029	9.3	14.7	14.2	14.0	0.0	14.1
	15	2030	6.9	12.1	11.6	10.9	0.0	11.9
	16	2031	7.7	12.8	13.1	12.8	0.0	12.9
	17	2032	8.9	14.3	14.4	14.0	0.0	14.3
	18	2033	15.1	21.6	20.5	21.1	0.0	21.5
	19	2034	16.8	25.4	24.8	25.2	1.6	25.3
	20	2035	15.8	25.5	25.8	25.8	1.2	25.8
	21	2036	18.2	29.3	30.0	28.5	1.9	28.7
	22	2037	16.9	26.7	26.9	26.5	1.6	26.6
	23	2038	16.9	26.7	26.9	26.5	1.6	26.6
	24	2039	16.9	26.7	26.9	26.5	1.6	26.6
	25	2040	16.9	26.7	26.9	26.5	1.6	26.6
	26	2041	16.9	26.7	26.9	26.5	1.6	26.6
	27	2042	16.9	26.7	26.9	26.5	1.6	26.6
	28	2043	16.9	26.7	26.9	26.5	1.6	26.6
	29	2044	16.9	26.7	26.9	26.5	1.6	26.6
	30	2045	16.9	26.7	26.9	26.5	1.6	26.6
	31	2046	16.9	26.7	26.9	26.5	1.6	26.6
	32	2047	16.9	26.7	26.9	26.5	1.6	26.6
	33	2048	16.9	26.7	26.9	26.5	1.6	26.6
	34	2049	16.9	26.7	26.9	26.5	1.6	26.6
	35	2050	16.9	26.7	26.9	26.5	1.6	26.6
	36	2051	16.9	26.7	26.9	26.5	1.6	26.6
	37	2052	16.9	26.7	26.9	26.5	1.6	26.6
	38	2053	16.9	26.7	26.9	26.5	1.6	26.6
	39	2054	16.9	26.7	26.9	26.5	1.6	26.6
	40	2055	16.9	26.7	26.9	26.5	1.6	26.6
	41	2056	16.9	26.7	26.9	26.5	1.6	26.6
	42	2057	16.9	26.7	26.9	26.5	1.6	26.6
	43	2058	16.9	26.7	26.9	26.5	1.6	26.6
	44	2059	16.9	26.7	26.9	26.5	1.6	26.6
	45	2060	16.9	26.7	26.9	26.5	1.6	26.6
	46	2061	16.9	26.7	26.9	26.5	1.6	26.6
	47	2062	16.9	26.7	26.9	26.5	1.6	26.6
	48	2063	16.9	26.7	26.9	26.5	1.6	26.6
	49	2064	16.9	26.7	26.9	26.5	1.6	26.6
	50	2065	16.9	26.7	26.9	26.5	1.6	26.6
Unserved Energy	1	2016	0.0	0.0	0.0	0.0	0.0	0.0
	2	2017	0.0	0.0	0.0	0.0	0.0	0.0
	3	2018	0.0	0.0	0.0	0.0	0.0	0.0
	4	2019	0.0	0.0	0.0	0.0	0.0	0.0
	5	2020	0.0	0.0	0.0	0.0	0.0	0.0
	6	2021	0.0	0.0	0.0	0.0	0.0	0.0
	7	2022	2.1	0.0	0.0	2.1	0.0	0.0
	8	2023	3.8	3.9	0.0	3.8	0.0	3.8
	9	2024	2.0	2.0	2.0	2.0	0.0	2.0

	10	2025	2.4	2.4	2.4	2.4	0.0	2.4
	11	2026	2.1	2.2	2.2	2.1	0.0	2.2
	12	2027	1.2	1.3	1.3	1.2	0.0	1.3
	13	2028	1.4	1.8	1.8	1.8	0.0	1.8
	14	2029	0.8	0.9	0.9	0.8	0.0	0.9
	15	2030	0.3	0.3	0.3	0.3	0.0	0.3
	16	2031	1.2	1.3	1.3	1.2	0.0	1.2
	17	2032	0.7	1.0	1.0	0.8	0.0	1.0
	18	2033	0.8	0.8	0.8	0.8	0.0	0.8
	19	2034	0.1	0.1	0.1	0.1	0.0	0.1
	20	2035	0.2	0.3	0.3	0.3	0.1	0.3
	21	2036	0.4	0.4	0.4	0.4	0.0	0.4
	22	2037	0.2	0.3	0.3	0.2	0.0	0.3
	23	2038	0.2	0.3	0.3	0.2	0.0	0.3
	24	2039	0.2	0.3	0.3	0.2	0.0	0.3
	25	2040	0.2	0.3	0.3	0.2	0.0	0.3
	26	2041	0.2	0.3	0.3	0.2	0.0	0.3
	27	2042	0.2	0.3	0.3	0.2	0.0	0.3
	28	2043	0.2	0.3	0.3	0.2	0.0	0.3
	29	2044	0.2	0.3	0.3	0.2	0.0	0.3
	30	2045	0.2	0.3	0.3	0.2	0.0	0.3
	31	2046	0.2	0.3	0.3	0.2	0.0	0.3
	32	2047	0.2	0.3	0.3	0.2	0.0	0.3
	33	2048	0.2	0.3	0.3	0.2	0.0	0.3
	34	2049	0.2	0.3	0.3	0.2	0.0	0.3
	35	2050	0.2	0.3	0.3	0.2	0.0	0.3
	36	2051	0.2	0.3	0.3	0.2	0.0	0.3
	37	2052	0.2	0.3	0.3	0.2	0.0	0.3
	38	2053	0.2	0.3	0.3	0.2	0.0	0.3
	39	2054	0.2	0.3	0.3	0.2	0.0	0.3
	40	2055	0.2	0.3	0.3	0.2	0.0	0.3
	41	2056	0.2	0.3	0.3	0.2	0.0	0.3
	42	2057	0.2	0.3	0.3	0.2	0.0	0.3
	43	2058	0.2	0.3	0.3	0.2	0.0	0.3
	44	2059	0.2	0.3	0.3	0.2	0.0	0.3
	45	2060	0.2	0.3	0.3	0.2	0.0	0.3
	46	2061	0.2	0.3	0.3	0.2	0.0	0.3
	47	2062	0.2	0.3	0.3	0.2	0.0	0.3
	48	2063	0.2	0.3	0.3	0.2	0.0	0.3
	49	2064	0.2	0.3	0.3	0.2	0.0	0.3
	50	2065	0.2	0.3	0.3	0.2	0.0	0.3
Competition	1	2016	0.0	0.0	0.0	0.0	0.0	0.0
	2	2017	0.0	0.0	0.0	0.0	0.0	0.0
	3	2018	0.0	0.0	0.0	0.0	0.0	0.0
	4	2019	0.0	0.0	0.0	0.0	0.0	0.0
	5	2020	0.0	0.0	0.0	0.0	0.0	0.0
	6	2021	0.0	0.0	0.0	0.0	0.0	0.0
	7	2022	0.8	0.0	0.0	0.3	0.0	0.0
	8	2023	1.7	1.5	0.0	1.9	0.0	1.6
	9	2024	1.0	3.1	2.9	0.7	0.0	3.1
	10	2025	3.1	2.3	2.3	3.0	0.0	2.6
	11	2026	2.9	2.5	2.5	4.0	0.0	1.2
	12	2027	-0.1	-1.3	-0.8	3.0	0.0	2.3
	13	2028	0.4	1.5	3.0	3.7	0.0	0.9
	14	2029	0.9	1.7	2.4	1.6	0.0	1.9
	15	2030	1.9	0.7	-3.0	1.9	0.0	2.5
	16	2031	0.6	-1.8	-0.7	1.7	0.0	2.0
	17	2032	4.5	2.2	-2.8	-0.1	0.0	0.3
	18	2033	0.1	0.8	1.5	1.5	0.0	1.3
	19	2034	0.6	1.2	1.2	2.1	0.4	1.3
	20	2035	0.8	2.3	2.4	2.6	0.7	3.9
	21	2036	2.4	4.8	2.2	3.2	3.4	3.7
	22	2037	1.3	2.8	2.0	2.6	1.5	2.9
	23	2038	1.3	2.8	2.0	2.6	1.5	2.9
	24	2039	1.3	2.8	2.0	2.6	1.5	2.9
	25	2040	1.3	2.8	2.0	2.6	1.5	2.9
	26	2041	1.3	2.8	2.0	2.6	1.5	2.9
	27	2042	1.3	2.8	2.0	2.6	1.5	2.9
	28	2043	1.3	2.8	2.0	2.6	1.5	2.9
	29	2044	1.3	2.8	2.0	2.6	1.5	2.9
	30	2045	1.3	2.8	2.0	2.6	1.5	2.9
	31	2046	1.3	2.8	2.0	2.6	1.5	2.9
	32	2047	1.3	2.8	2.0	2.6	1.5	2.9
	33	2048	1.3	2.8	2.0	2.6	1.5	2.9
	34	2049	1.3	2.8	2.0	2.6	1.5	2.9
	35	2050	1.3	2.8	2.0	2.6	1.5	2.9
	36	2051	1.3	2.8	2.0	2.6	1.5	2.9
	37	2052	1.3	2.8	2.0	2.6	1.5	2.9
	38	2053	1.3	2.8	2.0	2.6	1.5	2.9
	39	2054	1.3	2.8	2.0	2.6	1.5	2.9
	40	2055	1.3	2.8	2.0	2.6	1.5	2.9
	41	2056	1.3	2.8	2.0	2.6	1.5	2.9
	42	2057	1.3	2.8	2.0	2.6	1.5	2.9
	43	2058	1.3	2.8	2.0	2.6	1.5	2.9
	44	2059	1.3	2.8	2.0	2.6	1.5	2.9
	45	2060	1.3	2.8	2.0	2.6	1.5	2.9
	46	2061	1.3	2.8	2.0	2.6	1.5	2.9
	47	2062	1.3	2.8	2.0	2.6	1.5	2.9
	48	2063	1.3	2.8	2.0	2.6	1.5	2.9

	49	2064	1.3	2.8	2.0	2.6	1.5	2.9	
	50	2065	1.3	2.8	2.0	2.6	1.5	2.9	
Differences in timing	1	2016	0.0	0.0	0.0	0.0	0.0	0.0	
	2	2017	0.0	0.0	0.0	0.0	0.0	0.0	
	3	2018	0.0	0.0	0.0	0.0	0.0	0.0	
	4	2019	0.0	0.0	0.0	0.0	0.0	0.0	
	5	2020	0.0	0.0	0.0	0.0	0.0	0.0	
	6	2021	0.0	0.0	0.0	0.0	0.0	0.0	
	7	2022	0.0	0.0	0.0	0.0	0.0	0.0	
	8	2023	0.0	-10.0	0.0	0.0	0.0	0.0	
	9	2024	0.0	-10.0	-10.0	0.0	0.0	0.0	
	10	2025	0.0	-10.0	-10.0	0.0	0.0	0.0	
	11	2026	0.0	-10.0	-10.0	0.0	0.0	0.0	
	12	2027	0.0	-10.0	-10.0	0.0	0.0	0.0	
	13	2028	0.0	-10.0	-10.0	0.0	0.0	0.0	
	14	2029	0.0	-10.0	-10.0	0.0	0.0	0.0	
	15	2030	0.0	-10.0	-10.0	0.0	0.0	0.0	
	16	2031	0.0	-10.0	-10.0	0.0	0.0	0.0	
	17	2032	0.0	-10.0	-10.0	0.0	0.0	0.0	
	18	2033	0.0	-10.0	-10.0	0.0	0.0	0.0	
	19	2034	0.0	-10.0	-10.0	0.0	0.0	0.0	
	20	2035	0.0	-10.0	-10.0	0.0	0.0	0.0	
	21	2036	0.0	-10.0	-10.0	0.0	0.0	0.0	
		22	2037	0.0	-10.0	-10.0	0.0	0.0	0.0
		23	2038	0.0	-10.0	-10.0	0.0	0.0	0.0
		24	2039	0.0	-10.0	-10.0	0.0	0.0	0.0
		25	2040	0.0	-10.0	-10.0	0.0	0.0	0.0
		26	2041	0.0	-10.0	-10.0	0.0	0.0	0.0
		27	2042	0.0	-10.0	-10.0	0.0	0.0	0.0
		28	2043	0.0	-10.0	-10.0	0.0	0.0	0.0
		29	2044	0.0	-10.0	-10.0	0.0	0.0	0.0
		30	2045	0.0	-10.0	-10.0	0.0	0.0	0.0
		31	2046	0.0	-10.0	-10.0	0.0	0.0	0.0
		32	2047	0.0	-10.0	-10.0	0.0	0.0	0.0
		33	2048	0.0	-10.0	-10.0	0.0	0.0	0.0
		34	2049	0.0	-10.0	-10.0	0.0	0.0	0.0
		35	2050	0.0	-10.0	-10.0	0.0	0.0	0.0
		36	2051	0.0	-10.0	-10.0	0.0	0.0	0.0
		37	2052	0.0	-10.0	-10.0	0.0	0.0	0.0
		38	2053	0.0	-10.0	-10.0	0.0	0.0	0.0
		39	2054	0.0	-10.0	-10.0	0.0	0.0	0.0
		40	2055	0.0	-10.0	-10.0	0.0	0.0	0.0
		41	2056	0.0	-10.0	-10.0	0.0	0.0	0.0
		42	2057	0.0	-10.0	-10.0	0.0	0.0	0.0
		43	2058	0.0	-10.0	-10.0	0.0	0.0	0.0
		44	2059	0.0	-10.0	-10.0	0.0	0.0	0.0
		45	2060	0.0	-10.0	-10.0	0.0	0.0	0.0
		46	2061	0.0	-10.0	-10.0	0.0	0.0	0.0
		47	2062	0.0	-10.0	-10.0	0.0	0.0	0.0
		48	2063	0.0	-10.0	-10.0	0.0	0.0	0.0
		49	2064	0.0	-10.0	-10.0	0.0	0.0	0.0
		50	2065	0.0	-10.0	-10.0	0.0	0.0	0.0
Total (Excl CB)	1	2016	0.0	0.0	0.0	0.0	0.0	0.0	
	2	2017	0.0	0.0	0.0	0.0	0.0	0.0	
	3	2018	0.0	0.0	0.0	0.0	0.0	0.0	
	4	2019	0.0	0.0	0.0	0.0	0.0	0.0	
	5	2020	0.0	0.0	0.0	0.0	0.0	0.0	
	6	2021	0.0	0.0	0.0	0.0	0.0	0.0	
	7	2022	8.2	0.0	0.0	11.0	0.0	0.0	
	8	2023	11.4	3.8	0.0	14.1	0.0	14.0	
	9	2024	11.2	5.0	5.1	15.4	0.0	14.8	
	10	2025	15.3	10.5	10.5	19.3	0.0	19.9	
	11	2026	13.1	7.9	7.9	18.3	0.0	18.7	
	12	2027	11.1	8.1	8.4	17.5	0.0	18.3	
	13	2028	12.8	10.2	10.4	19.0	0.0	20.0	
	14	2029	10.1	5.6	5.1	14.8	0.0	15.0	
	15	2030	7.2	2.4	1.9	11.2	0.0	12.2	
	16	2031	8.9	4.0	4.3	14.0	0.0	14.1	
	17	2032	9.6	5.3	5.4	14.8	0.0	15.2	
	18	2033	15.9	12.4	11.3	21.9	0.0	22.4	
	19	2034	16.9	15.5	14.9	25.2	1.6	25.4	
	20	2035	16.0	15.9	16.1	26.1	1.3	26.1	
	21	2036	18.5	19.7	20.4	28.9	2.0	29.0	
		22	2037	17.1	17.0	17.2	26.7	1.6	26.9
		23	2038	17.1	17.0	17.2	26.7	1.6	26.9
		24	2039	17.1	17.0	17.2	26.7	1.6	26.9
		25	2040	17.1	17.0	17.2	26.7	1.6	26.9
		26	2041	17.1	17.0	17.2	26.7	1.6	26.9
		27	2042	17.1	17.0	17.2	26.7	1.6	26.9
		28	2043	17.1	17.0	17.2	26.7	1.6	26.9
		29	2044	17.1	17.0	17.2	26.7	1.6	26.9
		30	2045	17.1	17.0	17.2	26.7	1.6	26.9
		31	2046	17.1	17.0	17.2	26.7	1.6	26.9
		32	2047	17.1	17.0	17.2	26.7	1.6	26.9
		33	2048	17.1	17.0	17.2	26.7	1.6	26.9
		34	2049	17.1	17.0	17.2	26.7	1.6	26.9
		35	2050	17.1	17.0	17.2	26.7	1.6	26.9
		36	2051	17.1	17.0	17.2	26.7	1.6	26.9
		37	2052	17.1	17.0	17.2	26.7	1.6	26.9

	38	2053	17.1	17.0	17.2	26.7	1.6	26.9
	39	2054	17.1	17.0	17.2	26.7	1.6	26.9
	40	2055	17.1	17.0	17.2	26.7	1.6	26.9
	41	2056	17.1	17.0	17.2	26.7	1.6	26.9
	42	2057	17.1	17.0	17.2	26.7	1.6	26.9
	43	2058	17.1	17.0	17.2	26.7	1.6	26.9
	44	2059	17.1	17.0	17.2	26.7	1.6	26.9
	45	2060	17.1	17.0	17.2	26.7	1.6	26.9
	46	2061	17.1	17.0	17.2	26.7	1.6	26.9
	47	2062	17.1	17.0	17.2	26.7	1.6	26.9
	48	2063	17.1	17.0	17.2	26.7	1.6	26.9
	49	2064	17.1	17.0	17.2	26.7	1.6	26.9
	50	2065	17.1	17.0	17.2	26.7	1.6	26.9
Total (Incl CB)	1	2016	0.0	0.0	0.0	0.0	0.0	0.0
	2	2017	0.0	0.0	0.0	0.0	0.0	0.0
	3	2018	0.0	0.0	0.0	0.0	0.0	0.0
	4	2019	0.0	0.0	0.0	0.0	0.0	0.0
	5	2020	0.0	0.0	0.0	0.0	0.0	0.0
	6	2021	0.0	0.0	0.0	0.0	0.0	0.0
	7	2022	9.1	0.0	0.0	11.3	0.0	0.0
	8	2023	13.1	5.2	0.0	16.0	0.0	15.6
	9	2024	12.3	8.1	8.0	16.1	0.0	17.9
	10	2025	18.4	12.9	12.8	22.3	0.0	22.5
	11	2026	16.0	10.5	10.4	22.4	0.0	19.9
	12	2027	11.0	6.8	7.6	20.4	0.0	20.6
	13	2028	13.3	11.7	13.3	22.8	0.0	20.9
	14	2029	11.0	7.4	7.5	16.4	0.0	17.0
	15	2030	9.1	3.1	-1.1	13.1	0.0	14.8
	16	2031	9.5	2.3	3.6	15.8	0.0	16.1
	17	2032	14.1	7.4	2.6	14.7	0.0	15.5
	18	2033	15.9	13.2	12.8	23.4	0.0	23.7
	19	2034	17.5	16.7	16.1	27.3	2.0	26.7
	20	2035	16.9	18.2	18.6	28.7	2.0	30.0
	21	2036	20.9	24.5	22.7	32.0	5.4	32.7
	22	2037	18.4	19.8	19.1	29.3	3.1	29.8
	23	2038	18.4	19.8	19.1	29.3	3.1	29.8
	24	2039	18.4	19.8	19.1	29.3	3.1	29.8
	25	2040	18.4	19.8	19.1	29.3	3.1	29.8
	26	2041	18.4	19.8	19.1	29.3	3.1	29.8
	27	2042	18.4	19.8	19.1	29.3	3.1	29.8
	28	2043	18.4	19.8	19.1	29.3	3.1	29.8
	29	2044	18.4	19.8	19.1	29.3	3.1	29.8
	30	2045	18.4	19.8	19.1	29.3	3.1	29.8
	31	2046	18.4	19.8	19.1	29.3	3.1	29.8
	32	2047	18.4	19.8	19.1	29.3	3.1	29.8
	33	2048	18.4	19.8	19.1	29.3	3.1	29.8
	34	2049	18.4	19.8	19.1	29.3	3.1	29.8
	35	2050	18.4	19.8	19.1	29.3	3.1	29.8
	36	2051	18.4	19.8	19.1	29.3	3.1	29.8
	37	2052	18.4	19.8	19.1	29.3	3.1	29.8
	38	2053	18.4	19.8	19.1	29.3	3.1	29.8
	39	2054	18.4	19.8	19.1	29.3	3.1	29.8
	40	2055	18.4	19.8	19.1	29.3	3.1	29.8
	41	2056	18.4	19.8	19.1	29.3	3.1	29.8
	42	2057	18.4	19.8	19.1	29.3	3.1	29.8
	43	2058	18.4	19.8	19.1	29.3	3.1	29.8
	44	2059	18.4	19.8	19.1	29.3	3.1	29.8
	45	2060	18.4	19.8	19.1	29.3	3.1	29.8
	46	2061	18.4	19.8	19.1	29.3	3.1	29.8
	47	2062	18.4	19.8	19.1	29.3	3.1	29.8
	48	2063	18.4	19.8	19.1	29.3	3.1	29.8
	49	2064	18.4	19.8	19.1	29.3	3.1	29.8
	50	2065	18.4	19.8	19.1	29.3	3.1	29.8
AEC	1	2016	0.0	0.0	0.0	0.0	0.0	0.0
	2	2017	0.0	0.0	0.0	0.0	0.0	0.0
	3	2018	0.0	0.0	0.0	0.0	0.0	0.0
	4	2019	0.0	0.0	0.0	0.0	0.0	0.0
	5	2020	0.0	0.0	0.0	0.0	0.0	0.0
	6	2021	0.0	0.0	0.0	0.0	0.0	0.0
	7	2022	4.8	0.0	0.0	13.4	0.0	0.0
	8	2023	4.8	18.5	0.0	13.4	0.0	18.1
	9	2024	4.8	18.5	22.8	13.4	0.0	18.1
	10	2025	4.8	18.5	22.8	13.4	0.0	18.1
	11	2026	4.8	18.5	22.8	13.4	0.0	18.1
	12	2027	4.8	18.5	22.8	13.4	0.0	18.1
	13	2028	4.8	18.5	22.8	13.4	0.0	18.1
	14	2029	4.8	18.5	22.8	13.4	0.0	18.1
	15	2030	4.8	18.5	22.8	13.4	0.0	18.1
	16	2031	4.8	18.5	22.8	13.4	0.0	18.1
	17	2032	4.8	18.5	22.8	13.4	0.0	18.1
	18	2033	4.8	18.5	22.8	13.4	0.0	18.1
	19	2034	4.8	18.5	22.8	13.4	5.5	18.1
	20	2035	4.8	18.5	22.8	13.4	5.5	18.1
	21	2036	4.8	18.5	22.8	13.4	5.5	18.1
	22	2037	4.8	18.5	22.8	13.4	5.5	18.1
	23	2038	4.8	18.5	22.8	13.4	5.5	18.1
	24	2039	4.8	18.5	22.8	13.4	5.5	18.1
	25	2040	4.8	18.5	22.8	13.4	5.5	18.1
	26	2041	4.8	18.5	22.8	13.4	5.5	18.1

27	2042	4.8	18.5	22.8	13.4	5.5	18.1
28	2043	4.8	18.5	22.8	13.4	5.5	18.1
29	2044	4.8	18.5	22.8	13.4	5.5	18.1
30	2045	4.8	18.5	22.8	13.4	5.5	18.1
31	2046	4.8	18.5	22.8	13.4	5.5	18.1
32	2047	4.8	18.5	22.8	13.4	5.5	18.1
33	2048	4.8	18.5	22.8	13.4	5.5	18.1
34	2049	4.8	18.5	22.8	13.4	5.5	18.1
35	2050	4.8	18.5	22.8	13.4	5.5	18.1
36	2051	4.8	18.5	22.8	13.4	5.5	18.1
37	2052	4.8	18.5	22.8	13.4	5.5	18.1
38	2053	4.8	18.5	22.8	13.4	5.5	18.1
39	2054	4.8	18.5	22.8	13.4	5.5	18.1
40	2055	4.8	18.5	22.8	13.4	5.5	18.1
41	2056	4.8	18.5	22.8	13.4	5.5	18.1
42	2057	4.8	18.5	22.8	13.4	5.5	18.1
43	2058	4.8	18.5	22.8	13.4	5.5	18.1
44	2059	4.8	18.5	22.8	13.4	5.5	18.1
45	2060	4.8	18.5	22.8	13.4	5.5	18.1
46	2061	4.8	18.5	22.8	13.4	5.5	18.1
47	2062	4.8	18.5	22.8	13.4	5.5	18.1
48	2063	4.8	18.5	22.8	13.4	5.5	18.1
49	2064	4.8	18.5	22.8	13.4	5.5	18.1
50	2065	4.8	18.5	22.8	13.4	5.5	18.1



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