

Needs For and Alternatives To

APPENDIX 11.1
Net Capital Expenditures

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**Needs For and Alternatives To
Appendix 11.1 Net Capital Expenditures**

Development Plan:
All Gas

Development Plan Related
Annual Net Capital Expenditures
(in Millions of Current Dollars)

Economics:
Market Prices:
Capital Costs:

Reference
Reference
Reference

Fiscal Year Ending	Conawapa GS	Keyyask GS	Thermal GS	Trans - GOT	Trans - US T/L	Net Expenditures
Spent to Date	230	501	-	1	1	733
2013	56	198	-	2	0	256
2014	72	329	-	1	0	402
2015	18	160	-	19	0	196
2016	-	-	-	11	-	11
2017	-	-	-	12	-	12
2018	-	-	-	11	-	11
2019	-	-	0	-	-	0
2020	-	-	0	-	-	0
2021	-	-	109	-	-	109
2022	-	-	146	11	-	157
2023	-	-	19	-	-	19
2024	-	-	89	-	-	89
2025	-	-	132	89	-	221
2026	-	-	21	-	-	21
2027	-	-	96	-	-	96
2028	-	-	139	-	-	139
2029	-	-	229	-	-	229
2030	-	-	317	-	-	317
2031	-	-	171	13	-	183
2032	-	-	17	-	-	17
2033	-	-	110	-	-	110
2034	-	-	160	89	-	249
2035	-	-	264	-	-	264
2036	-	-	366	-	-	366
2037	-	-	197	-	-	197
2038	-	-	276	-	-	276
2039	-	-	393	-	-	393
2040	-	-	212	-	-	212
2041	-	-	21	-	-	21
2042	-	-	282	-	-	282
2043	-	-	432	-	-	432
2044	-	-	233	107	-	340
2045	-	-	23	-	-	23
2046	-	-	66	-	-	66
2047	-	-	96	-	-	96
2048	-	-	15	-	-	15
2049	-	-	-	-	-	-
2050	-	-	-	20	-	20
2051	-	-	146	21	-	167
2052	-	-	212	23	-	235
2053	-	-	34	21	-	55
2054	-	-	157	-	-	157
2055	-	-	227	-	-	227
2056	-	-	37	-	-	37
2057	-	-	168	21	-	189
2058	-	-	244	-	-	244
2059	-	-	403	-	-	403
2060	-	-	557	129	-	686
2061	-	-	299	-	-	299
2062	-	-	30	-	-	30
Net Expenditures	376	1 187	7 143	602	1	9 309

* Annual capital expenditures consist of constant dollar capital cash flows, projected escalation and interest capitalized during construction

**Needs For and Alternatives To
Appendix 11.1 Net Capital Expenditures**

Development Plan:
K22 Gas

Development Plan Related
Annual Net Capital Expenditures
(in Millions of Current Dollars)

Economics:
Market Prices:
Capital Costs:

Reference
Reference
Reference

Fiscal Year Ending	Conawapa GS	Keyyask GS	Thermal GS	Trans - GOT	Trans - US T/L	Net Expenditures
Spent to Date	230	501	-	1	1	733
2013	56	197	-	2	0	255
2014	72	328	-	1	0	402
2015	18	208	-	12	0	238
2016	-	110	-	12	-	123
2017	-	115	-	14	-	128
2018	-	297	-	30	-	328
2019	-	543	-	11	-	554
2020	-	881	-	20	-	901
2021	-	1 042	-	36	-	1 078
2022	-	962	-	53	-	1 015
2023	-	703	-	65	-	768
2024	-	285	-	4	-	288
2025	-	70	-	-	-	70
2026	-	-	0	-	-	0
2027	-	-	0	-	-	0
2028	-	-	127	-	-	127
2029	-	-	171	12	-	184
2030	-	-	23	-	-	23
2031	-	-	105	-	-	105
2032	-	-	377	102	-	479
2033	-	4	364	-	-	368
2034	-	-	183	13	-	196
2035	-	-	18	-	-	18
2036	-	-	244	-	-	244
2037	-	-	375	-	-	375
2038	-	-	202	-	-	202
2039	-	-	283	-	-	283
2040	-	-	402	-	-	402
2041	-	-	217	101	-	318
2042	-	-	22	-	-	22
2043	-	5	288	-	-	294
2044	-	-	442	-	-	442
2045	-	-	238	-	-	238
2046	-	-	24	-	-	24
2047	-	-	-	-	-	-
2048	-	3	-	-	-	3
2049	-	3	-	-	-	3
2050	-	3	-	20	-	23
2051	-	-	-	22	-	22
2052	-	-	-	24	-	24
2053	-	6	-	22	-	28
2054	-	-	-	1	-	1
2055	-	-	-	32	-	32
2056	-	-	-	45	-	45
2057	-	-	-	52	-	52
2058	-	-	172	39	-	212
2059	-	-	250	-	-	250
2060	-	37	40	-	-	77
2061	-	-	185	-	-	185
2062	-	39	659	-	-	697
Net Expenditures	376	6 343	5 412	748	1	12 880

* Annual capital expenditures consist of constant dollar capital cash flows, projected escalation and interest capitalized during construction

**Needs For and Alternatives To
Appendix 11.1 Net Capital Expenditures**

Development Plan:
Gas C26

Development Plan Related
Annual Net Capital Expenditures
(in Millions of Current Dollars)

Economics:
Market Prices:
Capital Costs:

Reference
Reference
Reference

Fiscal Year Ending	Conawapa GS	Keyyask GS	Thermal GS	Trans - GOT	Trans - US T/L	Net Expenditures
Spent to Date	230	501	-	1	1	733
2013	56	198	-	2	0	256
2014	72	329	-	1	0	402
2015	65	160	-	19	0	244
2016	68	-	-	11	-	80
2017	126	-	-	12	-	138
2018	240	-	-	11	-	251
2019	292	-	0	-	-	293
2020	366	-	0	-	-	366
2021	407	-	109	-	-	516
2022	978	-	146	11	-	1 134
2023	1 581	-	19	1	-	1 601
2024	1 560	-	-	1	-	1 561
2025	1 305	-	-	3	-	1 307
2026	1 114	-	-	6	-	1 120
2027	834	-	-	3	-	837
2028	335	-	-	-	-	335
2029	56	-	-	-	-	56
2030	-	-	-	-	-	-
2031	-	-	-	-	-	-
2032	-	-	-	-	-	-
2033	-	-	-	-	-	-
2034	-	-	-	-	-	-
2035	-	-	-	-	-	-
2036	-	-	-	-	-	-
2037	5	-	121	-	-	126
2038	-	-	176	14	-	191
2039	-	-	28	-	-	28
2040	-	-	130	-	-	130
2041	-	-	193	121	-	313
2042	-	-	167	-	-	167
2043	-	-	199	-	-	199
2044	-	-	175	-	-	175
2045	-	-	208	109	-	318
2046	-	-	33	-	-	33
2047	5	-	-	-	-	5
2048	-	-	-	-	-	-
2049	-	-	-	-	-	-
2050	-	-	-	20	-	20
2051	-	-	146	21	-	167
2052	4	-	212	23	-	238
2053	4	-	34	21	-	59
2054	4	-	-	-	-	4
2055	4	-	-	-	-	4
2056	4	-	-	-	-	4
2057	7	-	-	21	-	27
2058	-	-	-	-	-	-
2059	-	-	-	-	-	-
2060	-	-	-	-	-	-
2061	-	-	-	-	-	-
2062	-	-	-	-	-	-
Net Expenditures	9 721	1 187	2 098	433	1	13 439

* Annual capital expenditures consist of constant dollar capital cash flows, projected escalation and interest capitalized during construction

**Needs For and Alternatives To
Appendix 11.1 Net Capital Expenditures**

**Development Plan:
K19 Gas 250 MW**

**Development Plan Related
Annual Net Capital Expenditures
(in Millions of Current Dollars)**

**Economics:
Market Prices:
Capital Costs:**

**Reference
Reference
Reference**

Fiscal Year Ending	Conawapa GS	Keyyask GS	Thermal GS	Trans - GOT	Trans - US T/L	Net Expenditures
Spent to Date	230	501	-	1	1	733
2013	56	197	-	2	0	255
2014	72	328	-	1	3	405
2015	18	354	-	30	4	407
2016	-	564	-	22	3	589
2017	-	777	-	31	5	813
2018	-	987	-	45	8	1 039
2019	-	808	-	50	21	879
2020	-	673	-	61	23	758
2021	-	256	0	3	26	286
2022	-	64	0	-	-	64
2023	-	-	113	-	-	113
2024	-	-	153	11	-	164
2025	-	-	20	-	-	20
2026	-	-	0	-	-	0
2027	-	-	0	-	-	0
2028	-	-	98	-	-	98
2029	-	-	145	96	-	241
2030	-	4	235	-	-	239
2031	-	-	325	-	-	325
2032	-	-	173	13	-	186
2033	-	-	17	-	-	17
2034	-	-	-	-	-	-
2035	-	-	-	-	-	-
2036	-	-	244	-	-	244
2037	-	-	375	-	-	375
2038	-	-	202	-	-	202
2039	-	-	283	-	-	283
2040	-	5	402	-	-	407
2041	-	-	217	101	-	318
2042	-	-	22	-	-	22
2043	-	-	288	-	-	288
2044	-	-	442	-	-	442
2045	-	3	238	-	-	241
2046	-	3	24	-	-	27
2047	-	3	-	-	-	3
2048	-	-	-	-	-	-
2049	-	-	-	-	-	-
2050	-	6	-	21	0	27
2051	-	-	-	22	1	23
2052	-	-	-	54	2	57
2053	-	-	153	63	3	220
2054	-	-	222	49	10	281
2055	-	-	36	37	11	84
2056	-	-	-	-	12	12
2057	-	35	-	-	-	35
2058	-	-	172	-	-	172
2059	-	36	250	21	-	308
2060	-	7	412	-	-	419
2061	-	38	570	-	-	608
2062	-	-	306	-	-	306
Net Expenditures	376	5 649	6 138	738	134	13 035

* Annual capital expenditures consist of constant dollar capital cash flows, projected escalation and interest capitalized during construction

**Needs For and Alternatives To
Appendix 11.1 Net Capital Expenditures**

**Development Plan:
K19 C25 250 MW**

**Development Plan Related
Annual Net Capital Expenditures
(in Millions of Current Dollars)**

**Economics:
Market Prices:
Capital Costs:**

**Reference
Reference
Reference**

Fiscal Year Ending	Conawapa GS	Keyyask GS	Thermal GS	Trans - GOT	Trans - US T/L	Net Expenditures
Spent to Date	230	501	-	1	1	733
2013	56	197	-	2	0	255
2014	72	328	-	1	3	405
2015	66	354	-	30	4	455
2016	119	564	-	22	3	708
2017	231	777	-	31	5	1 044
2018	282	987	-	45	8	1 320
2019	351	808	-	50	21	1 230
2020	387	673	-	66	23	1 149
2021	959	256	-	8	26	1 249
2022	1 541	64	-	51	-	1 656
2023	1 516	-	-	31	-	1 546
2024	1 268	-	-	52	-	1 320
2025	1 077	-	-	90	-	1 167
2026	811	-	-	125	-	936
2027	326	-	-	155	-	481
2028	55	-	-	-	-	55
2029	-	-	-	-	-	-
2030	-	4	-	-	-	4
2031	-	-	-	-	-	-
2032	-	-	-	-	-	-
2033	-	-	-	-	-	-
2034	-	-	-	-	-	-
2035	-	-	-	-	-	-
2036	4	-	-	-	-	4
2037	-	-	1	-	-	1
2038	-	-	0	-	-	0
2039	-	-	163	-	-	163
2040	-	5	221	15	-	240
2041	-	-	30	-	-	30
2042	-	-	-	-	-	-
2043	-	-	140	-	-	140
2044	-	-	203	16	-	219
2045	-	3	179	-	-	183
2046	5	3	217	133	-	358
2047	-	3	34	-	-	38
2048	-	-	-	-	-	-
2049	-	-	-	-	-	-
2050	-	6	-	21	0	27
2051	4	-	-	22	1	27
2052	4	-	-	54	2	60
2053	4	-	-	63	3	70
2054	4	-	-	49	10	63
2055	4	-	-	39	11	54
2056	7	-	-	2	12	20
2057	-	35	-	24	-	59
2058	-	-	-	14	-	14
2059	-	36	-	23	-	60
2060	-	7	-	40	-	47
2061	-	38	-	58	-	96
2062	-	-	-	73	-	73
Net Expenditures	9 381	5 649	1 188	1 407	134	17 759

* Annual capital expenditures consist of constant dollar capital cash flows, projected escalation and interest capitalized during construction

**Needs For and Alternatives To
Appendix 11.1 Net Capital Expenditures**

**Development Plan:
K19 Sales C25 750 MW**

**Development Plan Related
Annual Net Capital Expenditures
(in Millions of Current Dollars)**

**Economics:
Market Prices:
Capital Costs: Reference
Reference
Reference**

Fiscal Year Ending	Conawapa GS	Keyyask GS	Thermal GS	Trans - GOT	Trans - US T/L	Net Expenditures
Spent to Date	230	501	-	1	1	733
2013	56	197	-	2	0	255
2014	72	328	-	1	0	402
2015	66	354	-	30	4	454
2016	119	564	-	22	7	712
2017	231	777	-	31	19	1 058
2018	282	987	-	45	29	1 342
2019	351	808	-	50	120	1 328
2020	387	673	-	66	109	1 234
2021	959	256	-	8	182	1 405
2022	1 541	64	-	51	-	1 656
2023	1 516	-	-	31	-	1 546
2024	1 268	-	-	52	-	1 320
2025	1 077	-	-	90	-	1 167
2026	811	-	-	125	-	936
2027	326	-	-	155	-	481
2028	55	-	-	-	-	55
2029	-	-	-	-	-	-
2030	-	4	-	-	-	4
2031	-	-	-	-	-	-
2032	-	-	-	-	-	-
2033	-	-	-	-	-	-
2034	-	-	-	-	-	-
2035	-	-	-	-	-	-
2036	4	-	-	-	-	4
2037	-	-	-	-	-	-
2038	-	-	1	-	-	1
2039	-	-	0	-	-	0
2040	-	5	167	-	-	171
2041	-	-	226	15	-	241
2042	-	-	30	-	-	30
2043	-	-	140	-	-	140
2044	-	-	203	16	-	219
2045	-	3	179	-	-	183
2046	5	3	217	133	-	358
2047	-	3	34	-	-	38
2048	-	-	-	-	-	-
2049	-	-	-	-	-	-
2050	-	6	-	21	1	28
2051	4	-	-	22	3	29
2052	4	-	-	54	9	67
2053	4	-	-	63	14	81
2054	4	-	-	49	42	94
2055	4	-	-	39	45	88
2056	7	-	-	2	43	52
2057	-	35	-	24	-	59
2058	-	-	-	14	-	14
2059	-	36	-	23	-	60
2060	-	7	-	40	-	47
2061	-	38	-	58	-	96
2062	-	-	-	73	-	73
Net Expenditures	9 381	5 649	1 197	1 407	628	18 263

* Annual capital expenditures consist of constant dollar capital cash flows, projected escalation and interest capitalized during construction

**Needs For and Alternatives To
Appendix 11.1 Net Capital Expenditures**

**Development Plan:
K19 Imp C31 750 MW**

**Development Plan Related
Annual Net Capital Expenditures
(in Millions of Current Dollars)**

**Economics:
Market Prices:
Capital Costs: Reference
Reference
Reference**

Fiscal Year Ending	Conawapa GS	Keyyask GS	Thermal GS	Trans - GOT	Trans - US T/L	Net Expenditures
Spent to Date	230	501	-	1	1	733
2013	56	197	-	2	0	255
2014	72	328	-	1	0	402
2015	65	354	-	30	6	455
2016	68	564	-	22	9	663
2017	42	777	-	31	20	870
2018	45	987	-	45	30	1 106
2019	50	808	-	50	168	1 076
2020	54	673	-	61	130	918
2021	61	256	-	3	319	639
2022	65	64	-	-	-	130
2023	249	-	-	-	-	249
2024	375	-	-	-	-	375
2025	431	-	-	-	-	431
2026	471	-	-	5	-	476
2027	1 125	-	-	5	-	1 130
2028	1 799	-	-	58	-	1 857
2029	1 777	-	-	34	-	1 811
2030	1 488	4	-	58	-	1 549
2031	1 265	-	-	101	-	1 365
2032	929	-	-	139	-	1 067
2033	376	-	-	172	-	548
2034	64	-	-	-	-	64
2035	-	-	-	-	-	-
2036	-	-	-	-	-	-
2037	-	-	-	-	-	-
2038	-	-	1	-	-	1
2039	-	-	0	-	-	0
2040	-	5	167	-	-	171
2041	-	-	226	15	-	241
2042	5	-	30	-	-	35
2043	-	-	140	-	-	140
2044	-	-	203	16	-	219
2045	-	3	179	-	-	183
2046	-	3	217	133	-	352
2047	-	3	34	-	-	38
2048	-	-	-	-	-	-
2049	-	-	-	-	-	-
2050	-	6	-	21	1	28
2051	-	-	-	22	3	25
2052	6	-	-	54	9	69
2053	-	-	-	63	14	77
2054	-	-	-	49	42	91
2055	-	-	-	37	45	82
2056	-	-	-	-	43	43
2057	4	35	-	-	-	39
2058	4	-	-	-	-	4
2059	4	36	-	-	-	41
2060	4	7	-	-	-	11
2061	4	38	-	2	-	44
2062	7	-	-	2	-	10
Net Expenditures	11 195	5 649	1 197	1 233	840	20 114

* Annual capital expenditures consist of constant dollar capital cash flows, projected escalation and interest capitalized during construction

**Needs For and Alternatives To
Appendix 11.1 Net Capital Expenditures**

**Development Plan:
K19 Imp Gas 750 MW**

**Development Plan Related
Annual Net Capital Expenditures
(in Millions of Current Dollars)**

**Economics:
Market Prices:
Capital Costs:**

**Reference
Reference
Reference**

Fiscal Year Ending	Conawapa GS	Keyyask GS	Thermal GS	Trans - GOT	Trans - US T/L	Net Expenditures
Spent to Date	230	501	-	1	1	733
2013	56	197	-	2	0	255
2014	72	328	-	1	0	402
2015	18	354	-	30	6	408
2016	-	564	-	22	9	595
2017	-	777	-	31	20	828
2018	-	987	-	45	30	1 061
2019	-	808	-	50	168	1 025
2020	-	673	-	61	130	864
2021	-	256	-	3	319	578
2022	-	64	-	-	-	64
2023	-	-	-	-	-	-
2024	-	-	-	-	-	-
2025	-	-	-	-	-	-
2026	-	-	-	-	-	-
2027	-	-	-	-	-	-
2028	-	-	0	-	-	0
2029	-	-	0	-	-	0
2030	-	4	235	-	-	239
2031	-	-	434	25	-	459
2032	-	-	203	102	-	305
2033	-	-	135	-	-	135
2034	-	-	160	-	-	160
2035	-	-	26	-	-	26
2036	-	-	-	-	-	-
2037	-	-	250	-	-	250
2038	-	-	384	-	-	384
2039	-	-	207	98	-	305
2040	-	5	21	-	-	25
2041	-	-	-	-	-	-
2042	-	-	137	-	-	137
2043	-	-	487	-	-	487
2044	-	-	474	-	-	474
2045	-	3	238	109	-	351
2046	-	3	24	-	-	27
2047	-	3	-	-	-	3
2048	-	-	-	-	-	-
2049	-	-	-	-	-	-
2050	-	6	-	21	1	28
2051	-	-	-	22	3	25
2052	-	-	-	54	9	63
2053	-	-	-	63	14	77
2054	-	-	-	49	42	91
2055	-	-	-	37	45	82
2056	-	-	-	-	43	43
2057	-	35	-	-	-	35
2058	-	-	-	-	-	-
2059	-	36	-	-	-	36
2060	-	7	361	-	-	368
2061	-	38	709	-	-	747
2062	-	-	353	-	-	353
Net Expenditures	376	5 649	4 838	829	840	12 531

* Annual capital expenditures consist of constant dollar capital cash flows, projected escalation and interest capitalized during construction

**Needs For and Alternatives To
Appendix 11.1 Net Capital Expenditures**

**KEEYASK 2019-20 ISD
Keeyask GS Expenditures
(In Millions of Dollars)**

**Economics: Reference
Market Prices: Reference
Capital Costs: Reference**

Fiscal Year Ending	Spent to Date	2012 Constant Dollar Cash Flows	Escalation	Capitalized Interest	Net Expenditures
2012	501	-	-	-	501
2013	-	159	2	37	197
2014	-	270	8	51	328
2015	-	295	15	44	354
2016	-	468	34	63	564
2017	-	620	57	100	777
2018	-	751	85	151	987
2019	-	529	71	207	808
2020	-	379	59	235	673
2021	-	155	27	74	256
2022	-	54	11	-	64
2023	-	-	-	-	-
2024	-	-	-	-	-
2025	-	-	-	-	-
2026	-	-	-	-	-
2027	-	-	-	-	-
2028	-	-	-	-	-
2029	-	-	-	-	-
2030	-	-	-	-	-
2031	-	-	-	-	-
2032	-	-	-	-	-
2033	-	-	-	-	-
2034	-	-	-	-	-
2035	-	-	-	-	-
2036	-	-	-	-	-
2037	-	-	-	-	-
2038	-	-	-	-	-
2039	-	-	-	-	-
2040	-	-	-	-	-
2041	-	-	-	-	-
2042	-	-	-	-	-
2043	-	-	-	-	-
2044	-	-	-	-	-
2045	-	-	-	-	-
2046	-	-	-	-	-
2047	-	-	-	-	-
2048	-	-	-	-	-
2049	-	-	-	-	-
2050	-	-	-	-	-
2051	-	-	-	-	-
2052	-	-	-	-	-
2053	-	-	-	-	-
2054	-	-	-	-	-
2055	-	-	-	-	-
2056	-	-	-	-	-
2057	-	-	-	-	-
2058	-	-	-	-	-
2059	-	-	-	-	-
2060	-	-	-	-	-
2061	-	-	-	-	-
2062	-	-	-	-	-
Total	501	3 678	368	962	5 508

**Needs For and Alternatives To
Appendix 11.1 Net Capital Expenditures**

KEYYASK 2019-20 ISD
Keyyask Transmission Expenditures
(In Millions of Dollars)

Economics: Reference
Market Prices: Reference
Capital Costs: Reference

Fiscal Year Ending	Spent to Date	2012 Constant Dollar Cash Flows	Escalation	Capitalized Interest	Net Expenditures
2012	1	-	-	-	1
2013	-	-	-	-	-
2014	-	2	0	0	2
2015	-	1	0	0	1
2016	-	19	1	0	20
2017	-	9	1	1	10
2018	-	15	1	2	19
2019	-	27	3	4	34
2020	-	38	5	6	50
2021	-	45	7	9	61
2022	-	0	0	3	3
2023	-	-	-	-	-
2024	-	-	-	-	-
2025	-	-	-	-	-
2026	-	-	-	-	-
2027	-	-	-	-	-
2028	-	-	-	-	-
2029	-	-	-	-	-
2030	-	-	-	-	-
2031	-	-	-	-	-
2032	-	-	-	-	-
2033	-	-	-	-	-
2034	-	-	-	-	-
2035	-	-	-	-	-
2036	-	-	-	-	-
2037	-	-	-	-	-
2038	-	-	-	-	-
2039	-	-	-	-	-
2040	-	-	-	-	-
2041	-	-	-	-	-
2042	-	-	-	-	-
2043	-	-	-	-	-
2044	-	-	-	-	-
2045	-	-	-	-	-
2046	-	-	-	-	-
2047	-	-	-	-	-
2048	-	-	-	-	-
2049	-	-	-	-	-
2050	-	-	-	-	-
2051	-	-	-	-	-
2052	-	-	-	-	-
2053	-	-	-	-	-
2054	-	-	-	-	-
2055	-	-	-	-	-
2056	-	-	-	-	-
2057	-	-	-	-	-
2058	-	-	-	-	-
2059	-	-	-	-	-
2060	-	-	-	-	-
2061	-	-	-	-	-
2062	-	-	-	-	-
Total	1	157	18	27	203

**Needs For and Alternatives To
Appendix 11.1 Net Capital Expenditures**

KEEYASK 2022-23 ISD
Keeyask GS Expenditures
(In Millions of Dollars)

Economics: Reference
Market Prices: Reference
Capital Costs: Reference

Fiscal Year Ending	Spent to Date	2012 Constant Dollar Cash Flows	Escalation	Capitalized Interest	Net Expenditures
2012	501	-	-	-	501
2013	-	159	2	37	197
2014	-	270	8	51	328
2015	-	135	7	67	208
2016	-	31	2	78	110
2017	-	27	3	85	115
2018	-	203	23	71	297
2019	-	396	53	94	543
2020	-	646	100	135	881
2021	-	719	128	195	1 042
2022	-	588	117	257	962
2023	-	341	76	286	703
2024	-	159	39	87	285
2025	-	55	15	-	70
2026	-	-	-	-	-
2027	-	-	-	-	-
2028	-	-	-	-	-
2029	-	-	-	-	-
2030	-	-	-	-	-
2031	-	-	-	-	-
2032	-	-	-	-	-
2033	-	-	-	-	-
2034	-	-	-	-	-
2035	-	-	-	-	-
2036	-	-	-	-	-
2037	-	-	-	-	-
2038	-	-	-	-	-
2039	-	-	-	-	-
2040	-	-	-	-	-
2041	-	-	-	-	-
2042	-	-	-	-	-
2043	-	-	-	-	-
2044	-	-	-	-	-
2045	-	-	-	-	-
2046	-	-	-	-	-
2047	-	-	-	-	-
2048	-	-	-	-	-
2049	-	-	-	-	-
2050	-	-	-	-	-
2051	-	-	-	-	-
2052	-	-	-	-	-
2053	-	-	-	-	-
2054	-	-	-	-	-
2055	-	-	-	-	-
2056	-	-	-	-	-
2057	-	-	-	-	-
2058	-	-	-	-	-
2059	-	-	-	-	-
2060	-	-	-	-	-
2061	-	-	-	-	-
2062	-	-	-	-	-
Total	501	3 728	571	1 442	6 242

**Needs For and Alternatives To
Appendix 11.1 Net Capital Expenditures**

KEYYASK 2022-23 ISD
Keyyask Transmission Expenditures
(In Millions of Dollars)

Economics: Reference
Market Prices: Reference
Capital Costs: Reference

Fiscal Year Ending	Spent to Date	2012 Constant Dollar Cash Flows	Escalation	Capitalized Interest	Net Expenditures
2012	1	-	-	-	1
2013	-	2	0	0	2
2014	-	1	0	0	1
2015	-	1	0	0	1
2016	-	1	0	0	1
2017	-	1	0	1	2
2018	-	17	2	1	19
2019	-	9	1	2	11
2020	-	15	2	3	20
2021	-	27	5	4	36
2022	-	38	8	7	53
2023	-	45	10	10	65
2024	-	0	0	4	4
2025	-	-	-	-	-
2026	-	-	-	-	-
2027	-	-	-	-	-
2028	-	-	-	-	-
2029	-	-	-	-	-
2030	-	-	-	-	-
2031	-	-	-	-	-
2032	-	-	-	-	-
2033	-	-	-	-	-
2034	-	-	-	-	-
2035	-	-	-	-	-
2036	-	-	-	-	-
2037	-	-	-	-	-
2038	-	-	-	-	-
2039	-	-	-	-	-
2040	-	-	-	-	-
2041	-	-	-	-	-
2042	-	-	-	-	-
2043	-	-	-	-	-
2044	-	-	-	-	-
2045	-	-	-	-	-
2046	-	-	-	-	-
2047	-	-	-	-	-
2048	-	-	-	-	-
2049	-	-	-	-	-
2050	-	-	-	-	-
2051	-	-	-	-	-
2052	-	-	-	-	-
2053	-	-	-	-	-
2054	-	-	-	-	-
2055	-	-	-	-	-
2056	-	-	-	-	-
2057	-	-	-	-	-
2058	-	-	-	-	-
2059	-	-	-	-	-
2060	-	-	-	-	-
2061	-	-	-	-	-
2062	-	-	-	-	-
Total	1	157	28	31	217

**Needs For and Alternatives To
Appendix 11.1 Net Capital Expenditures**

**CONAWAPA 2025-26 ISD
Conawapa GS Expenditures
(In Millions of Dollars)**

**Economics: Reference
Market Prices: Reference
Capital Costs: Reference**

Fiscal Year Ending	Spent to Date	2012 Constant Dollar Cash Flows	Escalation	Capitalized Interest	Net Expenditures
2012	230	-	-	-	230
2013	-	40	0	16	56
2014	-	51	1	19	72
2015	-	41	2	23	66
2016	-	84	6	29	119
2017	-	175	16	39	231
2018	-	204	23	55	282
2019	-	245	33	73	351
2020	-	251	39	97	387
2021	-	693	122	144	959
2022	-	1 112	221	208	1 541
2023	-	998	221	296	1 516
2024	-	713	174	381	1 268
2025	-	494	132	451	1 077
2026	-	324	95	392	811
2027	-	119	38	169	326
2028	-	38	13	4	55
2029	-	-	-	-	-
2030	-	-	-	-	-
2031	-	-	-	-	-
2032	-	-	-	-	-
2033	-	-	-	-	-
2034	-	-	-	-	-
2035	-	-	-	-	-
2036	-	-	-	-	-
2037	-	-	-	-	-
2038	-	-	-	-	-
2039	-	-	-	-	-
2040	-	-	-	-	-
2041	-	-	-	-	-
2042	-	-	-	-	-
2043	-	-	-	-	-
2044	-	-	-	-	-
2045	-	-	-	-	-
2046	-	-	-	-	-
2047	-	-	-	-	-
2048	-	-	-	-	-
2049	-	-	-	-	-
2050	-	-	-	-	-
2051	-	-	-	-	-
2052	-	-	-	-	-
2053	-	-	-	-	-
2054	-	-	-	-	-
2055	-	-	-	-	-
2056	-	-	-	-	-
2057	-	-	-	-	-
2058	-	-	-	-	-
2059	-	-	-	-	-
2060	-	-	-	-	-
2061	-	-	-	-	-
2062	-	-	-	-	-
Total	230	5 584	1 136	2 397	9 347

**Needs For and Alternatives To
Appendix 11.1 Net Capital Expenditures**

CONAWAPA 2025-26 ISD
Conawapa Transmission Expenditures
(In Millions of Dollars)

Economics: Reference
Market Prices: Reference
Capital Costs: Reference

Fiscal Year Ending	Spent to Date	2012 Constant Dollar Cash Flows	Escalation	Capitalized Interest	Net Expenditures
2012	-	-	-	-	-
2013	-	-	-	-	-
2014	-	-	-	-	-
2015	-	-	-	-	-
2016	-	-	-	-	-
2017	-	-	-	-	-
2018	-	-	-	-	-
2019	-	-	-	-	-
2020	-	-	-	-	-
2021	-	-	-	-	-
2022	-	1	0	0	1
2023	-	1	0	0	1
2024	-	2	1	0	3
2025	-	5	1	0	6
2026	-	2	1	0	3
2027	-	-	-	-	-
2028	-	-	-	-	-
2029	-	-	-	-	-
2030	-	-	-	-	-
2031	-	-	-	-	-
2032	-	-	-	-	-
2033	-	-	-	-	-
2034	-	-	-	-	-
2035	-	-	-	-	-
2036	-	-	-	-	-
2037	-	-	-	-	-
2038	-	-	-	-	-
2039	-	-	-	-	-
2040	-	-	-	-	-
2041	-	-	-	-	-
2042	-	-	-	-	-
2043	-	-	-	-	-
2044	-	-	-	-	-
2045	-	-	-	-	-
2046	-	-	-	-	-
2047	-	-	-	-	-
2048	-	-	-	-	-
2049	-	-	-	-	-
2050	-	-	-	-	-
2051	-	-	-	-	-
2052	-	-	-	-	-
2053	-	-	-	-	-
2054	-	-	-	-	-
2055	-	-	-	-	-
2056	-	-	-	-	-
2057	-	-	-	-	-
2058	-	-	-	-	-
2059	-	-	-	-	-
2060	-	-	-	-	-
2061	-	-	-	-	-
2062	-	-	-	-	-
Total	-	10	3	1	14

**Needs For and Alternatives To
Appendix 11.1 Net Capital Expenditures**

**CONAWAPA 2026-27 ISD
Conawapa GS Expenditures
(In Millions of Dollars)**

**Economics: Reference
Market Prices: Reference
Capital Costs: Reference**

Fiscal Year Ending	Spent to Date	2012 Constant Dollar Cash Flows	Escalation	Capitalized Interest	Net Expenditures
2012	230	-	-	-	230
2013	-	40	0	16	56
2014	-	51	1	19	72
2015	-	40	2	23	65
2016	-	38	3	27	68
2017	-	85	8	33	126
2018	-	177	20	44	240
2019	-	205	27	60	292
2020	-	247	38	81	366
2021	-	253	45	110	407
2022	-	697	138	143	978
2023	-	1 119	248	215	1 581
2024	-	1 004	246	310	1 560
2025	-	717	192	395	1 305
2026	-	497	145	472	1 114
2027	-	326	103	405	834
2028	-	120	41	174	335
2029	-	38	14	4	56
2030	-	-	-	-	-
2031	-	-	-	-	-
2032	-	-	-	-	-
2033	-	-	-	-	-
2034	-	-	-	-	-
2035	-	-	-	-	-
2036	-	-	-	-	-
2037	-	-	-	-	-
2038	-	-	-	-	-
2039	-	-	-	-	-
2040	-	-	-	-	-
2041	-	-	-	-	-
2042	-	-	-	-	-
2043	-	-	-	-	-
2044	-	-	-	-	-
2045	-	-	-	-	-
2046	-	-	-	-	-
2047	-	-	-	-	-
2048	-	-	-	-	-
2049	-	-	-	-	-
2050	-	-	-	-	-
2051	-	-	-	-	-
2052	-	-	-	-	-
2053	-	-	-	-	-
2054	-	-	-	-	-
2055	-	-	-	-	-
2056	-	-	-	-	-
2057	-	-	-	-	-
2058	-	-	-	-	-
2059	-	-	-	-	-
2060	-	-	-	-	-
2061	-	-	-	-	-
2062	-	-	-	-	-
Total	230	5 654	1 271	2 531	9 685

**Needs For and Alternatives To
Appendix 11.1 Net Capital Expenditures**

CONAWAPA 2026-27 ISD
Conawapa Transmission Expenditures
(In Millions of Dollars)

Economics: Reference
Market Prices: Reference
Capital Costs: Reference

Fiscal Year Ending	Spent to Date	2012 Constant Dollar Cash Flows	Escalation	Capitalized Interest	Net Expenditures
2012	-	-	-	-	-
2013	-	-	-	-	-
2014	-	-	-	-	-
2015	-	-	-	-	-
2016	-	-	-	-	-
2017	-	-	-	-	-
2018	-	-	-	-	-
2019	-	-	-	-	-
2020	-	-	-	-	-
2021	-	-	-	-	-
2022	-	-	-	-	-
2023	-	1	0	0	1
2024	-	1	0	0	1
2025	-	2	1	0	3
2026	-	5	1	0	6
2027	-	2	1	0	3
2028	-	-	-	-	-
2029	-	-	-	-	-
2030	-	-	-	-	-
2031	-	-	-	-	-
2032	-	-	-	-	-
2033	-	-	-	-	-
2034	-	-	-	-	-
2035	-	-	-	-	-
2036	-	-	-	-	-
2037	-	-	-	-	-
2038	-	-	-	-	-
2039	-	-	-	-	-
2040	-	-	-	-	-
2041	-	-	-	-	-
2042	-	-	-	-	-
2043	-	-	-	-	-
2044	-	-	-	-	-
2045	-	-	-	-	-
2046	-	-	-	-	-
2047	-	-	-	-	-
2048	-	-	-	-	-
2049	-	-	-	-	-
2050	-	-	-	-	-
2051	-	-	-	-	-
2052	-	-	-	-	-
2053	-	-	-	-	-
2054	-	-	-	-	-
2055	-	-	-	-	-
2056	-	-	-	-	-
2057	-	-	-	-	-
2058	-	-	-	-	-
2059	-	-	-	-	-
2060	-	-	-	-	-
2061	-	-	-	-	-
2062	-	-	-	-	-
Total	-	10	3	1	14

**Needs For and Alternatives To
Appendix 11.1 Net Capital Expenditures**

**CONAWAPA 2031-32 ISD
Conawapa GS Expenditures
(In Millions of Dollars)**

**Economics: Reference
Market Prices: Reference
Capital Costs: Reference**

Fiscal Year Ending	Spent to Date	2012 Constant Dollar Cash Flows	Escalation	Capitalized Interest	Net Expenditures
2012	230	-	-	-	230
2013	-	40	0	16	56
2014	-	51	1	19	72
2015	-	40	2	23	65
2016	-	38	3	27	68
2017	-	10	1	31	42
2018	-	10	1	34	45
2019	-	12	2	36	50
2020	-	12	2	40	54
2021	-	12	2	46	61
2022	-	16	3	47	65
2023	-	159	35	55	249
2024	-	242	59	73	375
2025	-	263	71	97	431
2026	-	268	78	125	471
2027	-	725	230	170	1 125
2028	-	1 152	394	254	1 799
2029	-	1 034	380	362	1 777
2030	-	739	290	459	1 488
2031	-	512	215	538	1 265
2032	-	336	150	443	929
2033	-	124	59	193	376
2034	-	39	20	5	64
2035	-	-	-	-	-
2036	-	-	-	-	-
2037	-	-	-	-	-
2038	-	-	-	-	-
2039	-	-	-	-	-
2040	-	-	-	-	-
2041	-	-	-	-	-
2042	-	-	-	-	-
2043	-	-	-	-	-
2044	-	-	-	-	-
2045	-	-	-	-	-
2046	-	-	-	-	-
2047	-	-	-	-	-
2048	-	-	-	-	-
2049	-	-	-	-	-
2050	-	-	-	-	-
2051	-	-	-	-	-
2052	-	-	-	-	-
2053	-	-	-	-	-
2054	-	-	-	-	-
2055	-	-	-	-	-
2056	-	-	-	-	-
2057	-	-	-	-	-
2058	-	-	-	-	-
2059	-	-	-	-	-
2060	-	-	-	-	-
2061	-	-	-	-	-
2062	-	-	-	-	-
Total	230	5 835	1 997	3 093	11 156

**Needs For and Alternatives To
Appendix 11.1 Net Capital Expenditures**

CONAWAPA 2031-32 ISD
Conawapa Transmission Expenditures
(In Millions of Dollars)

Economics: Reference
Market Prices: Reference
Capital Costs: Reference

Fiscal Year Ending	Spent to Date	2012 Constant Dollar Cash Flows	Escalation	Capitalized Interest	Net Expenditures
2012	-	-	-	-	-
2013	-	-	-	-	-
2014	-	-	-	-	-
2015	-	-	-	-	-
2016	-	-	-	-	-
2017	-	-	-	-	-
2018	-	-	-	-	-
2019	-	-	-	-	-
2020	-	-	-	-	-
2021	-	-	-	-	-
2022	-	-	-	-	-
2023	-	-	-	-	-
2024	-	-	-	-	-
2025	-	-	-	-	-
2026	-	-	-	-	-
2027	-	-	-	-	-
2028	-	1	0	0	1
2029	-	1	0	0	1
2030	-	2	1	0	3
2031	-	5	2	1	7
2032	-	2	1	0	3
2033	-	-	-	-	-
2034	-	-	-	-	-
2035	-	-	-	-	-
2036	-	-	-	-	-
2037	-	-	-	-	-
2038	-	-	-	-	-
2039	-	-	-	-	-
2040	-	-	-	-	-
2041	-	-	-	-	-
2042	-	-	-	-	-
2043	-	-	-	-	-
2044	-	-	-	-	-
2045	-	-	-	-	-
2046	-	-	-	-	-
2047	-	-	-	-	-
2048	-	-	-	-	-
2049	-	-	-	-	-
2050	-	-	-	-	-
2051	-	-	-	-	-
2052	-	-	-	-	-
2053	-	-	-	-	-
2054	-	-	-	-	-
2055	-	-	-	-	-
2056	-	-	-	-	-
2057	-	-	-	-	-
2058	-	-	-	-	-
2059	-	-	-	-	-
2060	-	-	-	-	-
2061	-	-	-	-	-
2062	-	-	-	-	-
Total	-	10	4	1	15