

Continuation of PPAs with Early Coal Retirement (DOC Informal IR #2)

THERMAL UNIT	AVG	2018	2019	2020	2021	2022	2023	2024	2025
*COAL 0		[PROTECTED DATA BEGINS]							
AS KING 1	58.8%								
SHERCO 1	64.1%								
SHERCO 2	71.4%								
SHERCO 3	53.9%								
*NUKE 0									
MONTI 1	86.1%								
P ISLAND 1	85.8%								
P ISLAND 2	83.2%								
*GAS CCS 0									
BDOG_CC 52	16.2%								
HB_CC 1	24.8%								
RS_CC 1	38.1%								
*CC_PPA 0									
LSCOTGRV 1	13.6%								
MANKATEC 1	26.2%								
MANKATEC 2	30.5%								
PICOND 1									
*GAS CTS 0									
ANSON 2	2.4%								
ANSON 3	1.9%								
ANSON 4	6.2%								
BDOG_CT 6	4.1%								
BLUELAKE 7	4.7%								
BLUELAKE 8	4.6%								
GRANITE 1	0.5%								
GRANITE 2	0.5%								
GRANITE 3	0.5%								
GRANITE 4	0.4%								
INVERHIL 1	0.9%								
INVERHIL 2	0.8%								
INVERHIL 3	0.6%								
INVERHIL 4	1.0%								
INVERHIL 5	0.7%								
INVERHIL 6	0.9%								
WHEATON 1	1.9%								
WHEATON 2	2.0%								
WHEATON 3	2.0%								
WHEATON 4	2.4%								
*CT_PPA 0									
INVENERG 1	3.3%								
INVENERG 2	2.7%								
*GAS_STM 0									
BAYFRONT 4	1.9%								

*OIL 0	
BLUELAKE 1	0.4%
BLUELAKE 2	0.4%
BLUELAKE 3	0.3%
BLUELAKE 4	0.3%
FCH ISLD 3	0.7%
FCH ISLD 4	0.6%
WHEATON 6	0.3%
INVERDSL 78	
*BIOMASS 0	
BAYFRONT 5	78.2%
BAYFRONT 6	79.0%
FCH ISLD 12	64.3%
RED WING 12	72.2%
WILMARTH 12	25.2%
*BIO_PPA 0	
KODARAH 1	61.7%
ST PAUL 1	57.1%
*LND_PPA 0	
MNMETHAN 1	64.5%
GUDERSON 1	48.0%
*RDF_PPA 0	
BARRON 1	26.1%
HERC 1	68.7%
*DGT_PPA 0	
DIAMONDK 1	74.6%
GUDERSON 2	
GREENWHY 1	35.5%
HELLERDY 1	72.7%
CT_7H_PG 583	22.0%
CT_7H_PG 584	19.7%
CC_7H_P 585	48.3%
CT_7H_PG 586	17.6%
CT_7H_PG 587	14.4%
CT_7H_PG 588	12.1%
CT_7H_PG 589	9.1%
CT_7H_PG 590	6.9%
CT_7F_P 593	5.2%
CC_7H_P 595	42.6%
CT_7F_P 596	4.4%
CC_SHC 600	55.5%

2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
------	------	------	------	------	------	------	------	------	------	------	------

PUBLIC DOCUMENT -
NOT PUBLIC DATA EXCISED

Docket No. IP6949,E002/PA-18-702
MPUC IR No. 8
Attachment A - Cont PPA_Early Coal (2)

2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049
------	------	------	------	------	------	------	------	------	------	------	------

PUBLIC DOCUMENT -
NOT PUBLIC DATA EXCISED

Docket No. IP6949,E002/PA-18-702
MPUC IR No. 8
Attachment A - Cont PPA_Early Coal (2)

2050	2051	2052	2053	2054	2055	2056	2057
------	------	------	------	------	------	------	------

PUBLIC DOCUMENT -
NOT PUBLIC DATA EXCISED

Docket No. IP6949,E002/PA-18-702
MPUC IR No. 8
Attachment A - Cont PPA_Early Coal (2)

PROTECTED DATA ENDS]

Owned MEC with Early Coal Retirement (Reply Comments)

THermal UNIT	AVG	2018	2019	2020	2021	2022	2023	2024
*COAL 0		[PROTECTED DATA BEGINS]						
AS KING 1	60.7%							
SHERCO 1	67.4%							
SHERCO 2	73.6%							
SHERCO 3	50.0%							
*NUKE 0								
MONTI 1	88.4%							
P ISLAND 1	89.2%							
P ISLAND 2	86.7%							
*GAS CCS 0								
BDOG_CC 52	20.7%							
HB_CC 1	22.4%							
RS_CC 1	35.3%							
*CC_PPA 0								
LSCOTGRV 1	17.4%							
MANKATEC 1	25.1%							
MANKATEC 2								
*GAS CTS 0								
ANSON 2	3.0%							
ANSON 3	2.4%							
ANSON 4	7.4%							
BDOG_CT 6	9.3%							
BLUELAKE 7	5.9%							
BLUELAKE 8	5.8%							
GRANITE 1	0.5%							
GRANITE 2	0.5%							
GRANITE 3	0.6%							
GRANITE 4	0.5%							
INVERHIL 1	1.5%							
INVERHIL 2	1.3%							
INVERHIL 3	1.0%							
INVERHIL 4	1.6%							
INVERHIL 5	1.2%							
INVERHIL 6	1.5%							
WHEATON 1	2.6%							
WHEATON 2	2.7%							
WHEATON 3	2.9%							
WHEATON 4	3.5%							
*CT_PPA 0								
INVENERG 1	4.9%							
INVENERG 2	4.0%							
*GAS_STM 0								
BAYFRONT 4	0.8%							
*OIL 0								

PUBLIC DOCUMENT -
NOT PUBLIC DATA EXCISED

Docket No. IP6949,E002/PA-18-702
MPUC IR No. 8
Attachment A - MEC Own_Early Coal

BLUELAKE 1	0.6%
BLUELAKE 2	0.7%
BLUELAKE 3	0.5%
BLUELAKE 4	0.7%
FCH ISLD 3	1.0%
FCH ISLD 4	0.9%
WHEATON 6	0.6%
INVERDSL 78	
*BIOMASS 0	
BAYFRONT 5	81.4%
BAYFRONT 6	82.0%
FCH ISLD 12	64.9%
RED WING 12	76.1%
WILMARTH 12	28.8%
*BIO_PPA 0	
KODARAH 1	61.7%
ST PAUL 1	57.1%
*LND_PPA 0	
MNMETHAN 1	64.5%
GUDERSON 1	52.8%
*RDF_PPA 0	
BARRON 1	26.1%
HERC 1	68.7%
*DGT_PPA 0	
DIAMONDK 1	74.6%
GUDERSON 2	
GREENWHY 1	39.1%
HELLERDY 1	80.0%
*OWNSITE 0	
CC_SHC 0	
*OWN_NG 0	
CC_H_GRO 0	
CT_H_BRO 0	
CT_F_BRO 0	
CT_H_GRO 0	
*PPA_NG 0	
CC_H_GRP 0	
CT_H_BRP 0	
CT_F_BRP 0	
CT_H_GRP 0	
COAL_LBC 0	
NUKE_LBC 0	
MEC2X1 1	38.6%
MEC1X1 1	26.6%
CT_H_GRP 444	31.4%
NUKE_LBC 445	
NUKE_LBC 446	

PUBLIC DOCUMENT -
NOT PUBLIC DATA EXCISED

Docket No. IP6949,E002/PA-18-702
MPUC IR No. 8
Attachment A - MEC Own_Early Coal

NUKE_LBC 447
COAL_LBC 448
COAL_LBC 449
CC_SHC 450

63.3%

2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
------	------	------	------	------	------	------	------	------	------	------

PUBLIC DOCUMENT -
NOT PUBLIC DATA EXCISED

Docket No. IP6949,E002/PA-18-702
MPUC IR No. 8
Attachment A - MEC Own_Early Coal

PUBLIC DOCUMENT -
NOT PUBLIC DATA EXCISED

Docket No. IP6949,E002/PA-18-702
MPUC IR No. 8
Attachment A - MEC Own_Early Coal

2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
------	------	------	------	------	------	------	------	------	------	------

PUBLIC DOCUMENT -
NOT PUBLIC DATA EXCISED

Docket No. IP6949,E002/PA-18-702
MPUC IR No. 8
Attachment A - MEC Own_Early Coal

PUBLIC DOCUMENT -
NOT PUBLIC DATA EXCISED

Docket No. IP6949,E002/PA-18-702
MPUC IR No. 8
Attachment A - MEC Own_Early Coal

PROTECTED DATA ENDS]

2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057
------	------	------	------	------	------	------	------	------	------	------

PUBLIC DOCUMENT -
NOT PUBLIC DATA EXCISED

Docket No. IP6949,E002/PA-18-702
MPUC IR No. 8
Attachment A - Cont PPA_Early Coal

BLUELAKE 1	0.7%
BLUELAKE 2	0.7%
BLUELAKE 3	0.6%
BLUELAKE 4	0.7%
FCH ISLD 3	1.1%
FCH ISLD 4	1.0%
WHEATON 6	0.6%
INVERDSL 78	
*BIOMASS 0	
BAYFRONT 5	81.0%
BAYFRONT 6	81.7%
FCH ISLD 12	64.9%
RED WING 12	75.9%
WILMARTH 12	28.3%
*BIO_PPA 0	
KODARAH 1	61.7%
ST PAUL 1	57.1%
*LND_PPA 0	
MNMETHAN 1	64.5%
GUDERSON 1	52.2%
*RDF_PPA 0	
BARRON 1	26.1%
HERC 1	68.7%
*DGT_PPA 0	
DIAMONDK 1	74.6%
GUDERSON 2	
GREENWHY 1	38.6%
HELLERDY 1	79.0%
*OWNSITE 0	
CC_SHC 0	
*OWN_NG 0	
CC_H_GRO 0	
CT_H_BRO 0	
CT_F_BRO 0	
CT_H_GRO 0	
*PPA_NG 0	
CC_H_GRP 0	
CT_H_BRP 0	
CT_F_BRP 0	
CT_H_GRP 0	
COAL_LBC 0	
NUKE_LBC 0	
MEC2X1 1	
MEC1X1 1	
CT_H_GRP 444	19.4%
CC_SHC 450	62.4%

2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
------	------	------	------	------	------	------	------	------	------	------	------

PUBLIC DOCUMENT -
NOT PUBLIC DATA EXCISED

Docket No. IP6949,E002/PA-18-702
MPUC IR No. 8
Attachment A - Cont PPA_Early Coal

2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049
------	------	------	------	------	------	------	------	------	------	------	------

PUBLIC DOCUMENT -
NOT PUBLIC DATA EXCISED

Docket No. IP6949,E002/PA-18-702
MPUC IR No. 8
Attachment A - Cont PPA_Early Coal

2050	2051	2052	2053	2054	2055	2056	2057
------	------	------	------	------	------	------	------

PUBLIC DOCUMENT -
NOT PUBLIC DATA EXCISED

Docket No. IP6949,E002/PA-18-702
MPUC IR No. 8
Attachment A - Cont PPA_Early Coal

PROTECTED DATA ENDS]

Owned MEC with Early Coal Retirement (DOC Informal IR #2)

THERMAL UNIT	AVG	2018	2019	2020	2021	2022	2023	2024
*COAL 0		[PROTECTED DATA BEGINS]						
AS KING 1	58.4%							
SHERCO 1	63.1%							
SHERCO 2	70.0%							
SHERCO 3	53.0%							
*NUKE 0								
MONTI 1	86.1%							
P ISLAND 1	85.8%							
P ISLAND 2	83.2%							
*GAS CCS 0								
BDOG_CC 52	15.3%							
HB_CC 1	26.5%							
RS_CC 1	37.9%							
*CC_PPA 0								
LSCOTGRV 1	13.0%							
MANKATEC 1	25.1%							
MANKATEC 2								
PICOND 1								
*GAS CTS 0								
ANSON 2	2.2%							
ANSON 3	1.8%							
ANSON 4	5.7%							
BDOG_CT 6	3.6%							
BLUELAKE 7	4.4%							
BLUELAKE 8	4.3%							
GRANITE 1	0.5%							
GRANITE 2	0.5%							
GRANITE 3	0.5%							
GRANITE 4	0.4%							
INVERHIL 1	0.8%							
INVERHIL 2	0.8%							
INVERHIL 3	0.6%							
INVERHIL 4	0.9%							
INVERHIL 5	0.7%							
INVERHIL 6	0.9%							
WHEATON 1	1.8%							
WHEATON 2	2.0%							
WHEATON 3	2.0%							
WHEATON 4	2.3%							
*CT_PPA 0								
INVENERG 1	3.3%							
INVENERG 2	2.7%							
*GAS_STM 0								
BAYFRONT 4	1.8%							

*OIL 0	
BLUELAKE 1	0.3%
BLUELAKE 2	0.4%
BLUELAKE 3	0.3%
BLUELAKE 4	0.3%
FCH ISLD 3	0.6%
FCH ISLD 4	0.5%
WHEATON 6	0.3%
INVERDSL 78	
*BIOMASS 0	
BAYFRONT 5	78.2%
BAYFRONT 6	78.7%
FCH ISLD 12	64.2%
RED WING 12	72.5%
WILMARTH 12	25.4%
*BIO_PPA 0	
KODARHR 1	61.7%
ST PAUL 1	57.1%
*LND_PPA 0	
MNMETHAN 1	64.5%
GUDERSON 1	48.0%
*RDF_PPA 0	
BARRON 1	26.1%
HERC 1	68.7%
*DGT_PPA 0	
DIAMONDK 1	74.6%
GUDERSON 2	
GREENWHY 1	35.5%
HELLERDY 1	72.7%
MEC2X1 1	34.5%
MEC1X1 1	28.7%
CT_7H_PG 582	29.1%
CT_7H_PG 583	25.7%
CC_7H_P 584	44.5%
CT_7H_PG 585	23.8%
CT_7H_PG 586	18.8%
CT_7H_PG 587	15.4%
CT_7H_PG 588	13.5%
CT_7H_PG 589	11.7%
CT_7H_PG 590	8.9%
CT_7H_PG 592	6.9%
CT_7H_PG 593	4.7%
CT_7F_P 596	3.6%
CC_SHC 600	54.9%

2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
------	------	------	------	------	------	------	------	------	------	------

PUBLIC DOCUMENT -
NOT PUBLIC DATA EXCISED

Docket No. IP6949,E002/PA-18-702
MPUC IR No. 8
Attachment A - MEC Own_Early Coal (2)

2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
------	------	------	------	------	------	------	------	------	------	------

PUBLIC DOCUMENT -
NOT PUBLIC DATA EXCISED

Docket No. IP6949,E002/PA-18-702
MPUC IR No. 8
Attachment A - MEC Own_Early Coal (2)

2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057
------	------	------	------	------	------	------	------	------	------	------

PUBLIC DOCUMENT -
NOT PUBLIC DATA EXCISED

Docket No. IP6949,E002/PA-18-702
MPUC IR No. 8
Attachment A - MEC Own_Early Coal (2)

PROTECTED DATA ENDS]