

MINNESOTA ENERGY RESOURCES - NNG

DESIGN-DAY DEMAND SUMMARY

NOVEMBER 1, 2024

NNG

Design Day Requirement		290,169
Total Peak Day Entitlement		320,242
2023/24 Firm Peak Day Actual Sendout	1/15/2024	230,551
Firm Annual Throughput - Minnesota		25,743,791
No. of Firm Customers		212,522
Department Load Factor Calculation		30.59%

MINNESOTA ENERGY RESOURCES - NNG

NNG MINNESOTA DESIGN DAY REQUIREMENTS

NOVEMBER 1, 2024

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Pipeline Group	2023/24 Customer Count	Zone Total Customer Count	1/20 Design DDD	Regression Factors		Regression Total	Regression Adjustment	1/20 Requirements Regression Load	Firm/Interrupt. Contract Demand Units	Total
				Intercept	Slope					

PEAK										
NNG	212,522	212,522	99	6,411	2,390	280,554	9,560	290,114	55	290,169

OFF PEAK										
NNG	212,522	212,522	55	6,411	2,390	158,314	9,560	167,874	55	167,929

MINNESOTA ENERGY RESOURCES - NNG

DESIGN-DAY DEMAND PER CUSTOMER

NOVEMBER 1, 2024

NNG

Heating Season	No. of Firm Customers	Design Day Requirements	MMBtu /Customer /Day
24/25	212,522	290,169	1.37
23/24	209,362	290,934	1.39
22/23	208,405	291,250	1.40
21/22	206,351	282,710	1.37
20/21	204,781	280,796	1.37
19/20	201,190	277,376	1.38
18/19	198,628	273,842	1.38
17/18	197,991	267,783	1.35
16/17	195,311	262,324	1.34
15/16	192,016	259,076	1.35
14/15	189,078	273,917	1.45
13/14	189,254	258,913	1.37
12/13	187,545	239,325	1.28
11/12	185,890	247,982	1.33

MINNESOTA ENERGY RESOURCES - NNG

SUMMER/WINTER USAGE - Dth
PROJECTED 12 MONTHS ENDING JUNE 2025

NNG

<u>Class</u>	<u>Summer Apr-Oct</u>	<u>Winter Nov-Mar</u>	<u>Total</u>
GS	6,627,384	19,108,988	25,736,372
Interruptible	770,402	1,089,367	1,859,770
Firm/Interruptible	3,378	4,042	7,420
Total	7,401,164	20,202,397	27,603,561

MINNESOTA ENERGY RESOURCES - NNG

ENTITLEMENT LEVELS

NOVEMBER 1, 2024

NNG

<u>Capacity Type</u>	<i>Summer</i>			<i>April/October</i>			<i>Winter</i>		
	2023-24 MMBtu	Change MMBtu	Proposed MMBtu	2023-24 MMBtu	Change MMBtu	Proposed MMBtu	2023-24 MMBtu	Change MMBtu	Proposed MMBtu
TF-12 Base & Variable	84,116	0	84,116	84,116	0	84,116	84,116	0	84,116
TF5	0	0	0	0	0	0	36,275	0	36,275
TFX - 12	91,815	0	91,815	91,815	0	91,815	91,815	0	91,815
TFX - 5	0	0	0	0	0	0	104,501	0	104,501
TFX- (Apr/Oct) Offpeak*	0	0	0	2,000	0	2,000	0	0	0
NBPL	50,000	0	50,000	50,000	0	50,000	50,000	0	50,000
Northwest Gas (Windom)	2,500	0	2,500	2,500	0	2,500	2,500	0	2,500
Northwestern Energy (Ortonville)	1,035	0	1,035	1,035	0	1,035	1,035	0	1,035
NNG Zone Delivery Call Option	0	0	0	0	0	0	0	0	0
Total	179,466	0	179,466	181,466	0	181,466	320,242	0	320,242
Heating Season									
Forecasted Design Day-Adjusted							290,934	(765)	290,169
Forecasted Design Day + 5% Reserve							305,481		304,677
Forecasted Design Day (Non-Heating Season)				167,204	725	167,929			
Capacity Surplus/Shortage to Design Day (Heating Season)							29,308	765	30,073
Capacity Surplus/Shortage to Design Day + 5% Reserve (Heating Season)							14,761		15,565
Non-Heating Season									
Capacity Surplus/Shortage				14,262	(725)	13,537			
*Not included in Heating Season Total entitlement									
Reserve Margin				8.53%	-0.47%	8.06%	10.07%	0.29%	10.36%

MINNESOTA ENERGY RESOURCES - NNG

RATE IMPACT OF THE PROPOSED DEMAND CHANGE

NOVEMBER 1, 2024

NNG

All costs in \$/Dth	Base Cost of Gas G011/MR-22-505 Mar 1, 2024	Demand Charge Demand Filing Apr 1, 2024	Most Recent PGA Oct 1, 2024	Proposed Effective Nov 1, 2024	Result of Proposed Change			
					Change from Last Rate Case	Change from Apr 1, 2024 Demand Filing	Change from Last PGA %	Change from Last PGA \$
1) General Service Residential: Avg. Annual Use: 86 Dth								
Commodity Cost	\$5.5426	\$4.1220	\$2.8929	\$3.2949	(\$2.2477)	(\$0.8271)	13.90%	\$0.4020
Demand Cost	\$1.0107	\$1.2580	\$1.2580	\$1.2853	\$0.2746	\$0.0273	2.17%	\$0.0273
Commodity Margin	\$3.2919	\$3.2919	\$3.2919	\$3.2919	\$0.0000	\$0.0000	0.00%	\$0.0000
Total Cost of Gas	\$9.8452	\$8.6719	\$7.4428	\$7.8721	(\$1.9731)	(\$0.7998)	5.77%	\$0.4293
Avg Annual Cost	\$842.75	\$742.31	\$637.10	\$673.85	(\$168.90)	(\$68.46)	5.77%	\$36.75
Effect of proposed commodity change on average annual bills:								\$34.41
Effect of proposed demand change on average annual bills:								\$2.34
2) Small C&I Firm, Class 2: Avg. Annual Use: 781 Dth								
Commodity Cost	\$5.5426	\$4.1220	\$2.8929	\$3.2949	(\$2.2477)	(\$0.8271)	13.90%	\$0.4020
Demand Cost	\$1.0107	\$1.2580	\$1.2580	\$1.2853	\$0.2746	\$0.0273	2.17%	\$0.0273
Commodity Margin	\$2.5030	\$2.5030	\$2.5030	\$2.5030	\$0.0000	\$0.0000	0.00%	\$0.0000
Total Cost of Gas	\$9.0563	\$7.8830	\$6.6539	\$7.0832	(\$1.9731)	(\$0.7998)	6.45%	\$0.4293
Avg Annual Cost	\$7,072.97	\$6,156.62	\$5,196.70	\$5,531.98	(\$1,540.99)	(\$624.64)	6.45%	\$335.28
Effect of proposed commodity change on average annual bills:								\$313.96
Effect of proposed demand change on average annual bills:								\$21.32
3) Large C&I Firm Class 3: Avg. Annual Use: 15,986 Dth								
Commodity Cost	\$5.5426	\$4.1220	\$2.8929	\$3.2949	(\$2.2477)	(\$0.8271)	13.90%	\$0.4020
Demand Cost	\$1.0107	\$1.2580	\$1.2580	\$1.2853	\$0.2746	\$0.0273	2.17%	\$0.0273
Commodity Margin	\$1.6890	\$1.6890	\$1.6890	\$1.6890	\$0.0000	\$0.0000	0.00%	\$0.0000
Total Cost of Gas	\$8.2423	\$7.0690	\$5.8399	\$6.2692	(\$1.9731)	(\$0.7998)	7.35%	\$0.4293
Avg Annual Cost	\$131,763.88	\$113,007.15	\$93,358.39	\$100,221.31	(\$31,542.57)	(\$12,785.84)	7.35%	\$6,862.92
Effect of proposed commodity change on average annual bills:								\$6,426.49
Effect of proposed demand change on average annual bills:								\$436.43
4) Small C&I Interruptible, Class 2: Avg. Annual Use: 4,110 Dth								
Commodity Cost	\$5.5426	\$4.1220	\$2.8929	\$3.2949	(\$2.2477)	(\$0.8271)	13.90%	\$0.4020
Commodity Margin	\$1.5047	\$1.5047	\$1.5047	\$1.5047	\$0.0000	\$0.0000	0.00%	\$0.0000
Total Cost of Gas	\$7.0473	\$5.6267	\$4.3976	\$4.7996	(\$2.2477)	(\$0.8271)	9.14%	\$0.4020
Avg Annual Cost	\$28,962.29	\$23,124.05	\$18,072.82	\$19,724.92	(\$9,237.37)	(\$3,399.13)	9.14%	\$1,652.10
Effect of proposed commodity change on average annual bills:								\$1,652.10
5) Large C&I Interruptible, Class 3: Avg. Annual Use: 22,091 Dth								
Commodity Cost	\$5.5426	\$4.1220	\$2.8929	\$3.2949	(\$2.2477)	(\$0.8271)	13.90%	\$0.4020
Commodity Margin	\$1.2058	\$1.2058	\$1.2058	\$1.2058	\$0.0000	\$0.0000	0.00%	\$0.0000
Total Cost of Gas	\$6.7484	\$5.3278	\$4.0987	\$4.5007	(\$2.2477)	(\$0.8271)	9.81%	\$0.4020
Avg Annual Cost	\$149,080.93	\$117,698.03	\$90,545.61	\$99,426.31	(\$49,654.62)	(\$18,271.71)	9.81%	\$8,880.70
Effect of proposed commodity change on average annual bills:								\$8,880.70

Note: Average Annual Use based on 2023 MERC Gas Rate Design in Docket GR-22-504
Note: Rates do not include the ACA adjustment.

MINNESOTA ENERGY RESOURCES - NNG

RATE IMPACT OF THE PROPOSED DEMAND CHANGE

NOVEMBER 1, 2024

NNG

A. NORTHERN NATURAL GAS COMPANY'S RATES -- CURRENT COST OF GAS EFFECTIVE:							01-Nov-24
	Contract #(s)	Tariff-Summer (7 mths)	Tariff-Winter (5 mths)	Wt. Annual	GRI	Total	
TF-12B	112495	\$ 9.6760	\$ 17.4170	\$12.9014	\$0.0000	\$12.9014	
TF-12B Rochester Capped	112495	\$ 5.6830	\$ 10.2300	\$7.5776	\$0.0000	\$7.5776	
TF-12V Rochester Capped	112495	\$ 5.6830	\$ 13.8660	\$9.0926	\$0.0000	\$9.0926	
TF-12V	112495	\$ 9.6760	\$ 23.6090	\$15.4814	\$0.0000	\$15.4814	
TF-5	112495	\$ -	\$ 25.7990	\$25.7990	\$0.0000	\$25.7990	
TF-5 Rochester Capped	112495	\$ -	\$ 15.1530	\$15.1530	\$0.0000	\$15.1530	
TFX ¹	112486/141673/142983	\$ 9.6760	\$ 25.7990	\$16.3939	\$0.0000	\$16.3939	
TFX Rochester Capped	112486	\$ 5.6830	\$ 15.1530	\$9.6288	\$0.0000	\$9.6288	
TFX-5	112486	\$ -	\$ 25.7990	\$25.7990	\$0.0000	\$25.7990	
TFX-5 Rochester Capped	112486	\$ -	\$ 15.1530	\$15.1530	\$0.0000	\$15.1530	
TFX Rochester	112486	\$ 37.1175	\$ 37.1175	\$37.1175	\$0.0000	\$37.1175	
TFX Rochester II	112486	\$ 10.7714	\$ 10.7714	\$10.7714	\$0.0000	\$10.7714	
TFX - Discount	111866	\$ 2.2192	\$ 15.1392	\$7.6025	\$0.0000	\$7.6025	
TFX - Discount	111866	\$ 4.8640	\$ 4.8640	\$4.8640	\$0.0000	\$4.8640	
TFX - Discount	111866	\$ 5.4720	\$ 5.4720	\$5.4720	\$0.0000	\$5.4720	
Gas Cost						\$2.3949 /Dth	

B. ANNUAL SALES -- As approved in Docket No. G011/MR-22-505						
Total MERC NNG Annual Sales						280,960,833
Total MERC NNG Firm Sales						258,811,603

C. MERC-NNG'S CURRENT COST OF GAS EFFECTIVE:							01-Nov-24	
	Contract #(s)	Monthly Entitlements (Dth)	Months	Rate \$/Dth		Contract Costs	Total MERC NNG Firm Sales	Rate/Therm
1. NNG-GS	TF12B (Max Rate) Winter	112495	23,137	5	\$ 17.4170	=	\$2,014,886	258,811,603 \$ 0.00779
	TF12B (Max Rate) Summer	112495	23,137	7	\$ 9.6760	=	\$1,567,115	258,811,603 \$ 0.00606
	TF12V (Max Rate)	112495	44,913	12	\$ 15.4814	=	\$8,343,793	258,811,603 \$ 0.03224
	TF5 (Max Rate)	112495	16,183	5	\$ 25.7990	=	\$2,087,526	258,811,603 \$ 0.00807
	TF5 (Rochester Capped)	112495	20,092	5	\$ 15.1530	=	\$1,522,270	258,811,603 \$ 0.00588
	TF12B (Rochester Capped)	112495	11,574	12	\$ 7.5776	=	\$1,052,438	258,811,603 \$ 0.00407
	TF12V (Rochester Capped)	112495	4,492	12	\$ 9.0926	=	\$490,128	258,811,603 \$ 0.00189
	TFX12 (Max Rate)	112486	8,750	12	\$ 16.3939	=	\$1,721,360	258,811,603 \$ 0.00665
	TFX Apr (Max Rate)	112486	2,000	1	\$ 9.6760	=	\$19,352	258,811,603 \$ 0.00007
	TFX Oct (Max Rate)	112486	2,000	1	\$ 9.6760	=	\$19,352	258,811,603 \$ 0.00007
	TFX (Rochester Capped)	112486	2,072	12	\$ 9.6288	=	\$239,410	258,811,603 \$ 0.00093
	TFX5 (Max Rate)	112486	62,549	5	\$ 25.7990	=	\$8,068,508	258,811,603 \$ 0.03118
	TFX5 (Rochester Capped)	112486	16,939	5	\$ 15.1530	=	\$1,283,383	258,811,603 \$ 0.00496
	TFX12 (Discount)	111866	1,283	12	\$ 4.8640	=	\$74,886	258,811,603 \$ 0.00029
	TFX12 (Discount)	111866	8,271	12	\$ 5.4720	=	\$543,107	258,811,603 \$ 0.00210
	TFX12 (Discount)	111866	11,921	12	\$ 7.6025	=	\$1,087,553	258,811,603 \$ 0.00420
	TFX5 (Discount)	111866	379	5	\$ 4.8640	=	\$9,217	258,811,603 \$ 0.00004
	TFX5 (Discount)	111866	2,445	5	\$ 5.4720	=	\$66,895	258,811,603 \$ 0.00026
	TFX5 (Discount)	111866	22,189	5	\$ 15.1392	=	\$1,679,619	258,811,603 \$ 0.00649
	TFX (Max Rate)	141673/142983	6,486	12	\$ 16.3939	=	\$1,275,970	258,811,603 \$ 0.00493
	Windom		2,500	12	\$ -	=	\$0	258,811,603 \$ -
	Northwestern Energy		1,035	12	\$ 8.0000	=	\$99,360	258,811,603 \$ 0.00038
	Total Demand Cost						\$33,266,129	\$ 0.12853
	NNG-GS Demand Current Cost of Gas/therm							\$ 0.12853
	NNG-GS Commodity Current Cost of Gas/therm							\$ 0.32949
	Total NNG-GS Current Cost of Gas/therm							\$ 0.45802

2. NNG - General Service, Interruptible, Firm/Interruptible - Commodity								
	Contract #(s)	Monthly Entitlement (Dth)	Months	Rate (\$/Dth)		Contract Costs	Total MERC NNG Annual Sales	Rate (\$/therm)
FDD - Reservation	118657	107,524	12	\$ 3.2345	=	\$4,173,437	280,960,833	\$ 0.01485
FDD - Storage Cycle	118657	1,239,864	5	\$ 0.6731	=	\$4,172,763	280,960,833	\$ 0.01485
FDD - Reservation	118657	5,550	12	\$ 3.2758	=	\$218,168	280,960,833	\$ 0.00078
FDD - Storage Cycle	118657	64,000	5	\$ 0.6818	=	\$218,176	280,960,833	\$ 0.00078
FDD - Reservation	open	0	0	\$ -	=	\$0	280,960,833	\$ -
FDD - Storage Cycle	open	0	0	\$ -	=	\$0	280,960,833	\$ -
FDD - Reservation	open	0	0	\$ -	=	\$0	280,960,833	\$ -
FDD - Storage Cycle	open	0	0	\$ -	=	\$0	280,960,833	\$ -
(a) Firm Deferred Delivery Storage Contracts						\$8,782,544		\$ 0.03126
Per Docket No. G-007/M-07-1402-05 dated August 6, 2014, storage demand charges will be allocated through the commodity charge effective 11/1/2014.								
	Contract #(s)	Monthly Entitlement (Dth)	Months	Rate (\$/Dth)		Contract Costs	Total MERC NNG Annual Sales	Rate (\$/therm)
NBPL	101251	50,000	12	\$ 6.1230	=	\$3,673,800	280,960,833	\$ 0.01308
TFX12 (Rochester)	112486	10,500	12	\$ 37.1175	=	\$4,676,805	280,960,833	\$ 0.01665
TFX12 (Rochester II)	112486	34,500	12	\$ 10.7714	=	\$4,459,360	280,960,833	\$ 0.01587
TFX12 (SE MN Expansion)	112486	8,032	12	\$ 16.3939	=	\$1,580,110	280,960,833	\$ 0.00562
(b) Delivery Contracts to be recovery via Commodity						\$14,390,074		\$ 0.05122
Per Docket No. G-011/M-15-895 dated May 5, 2017, recovery of the costs associated with Rochester and SE MN Expansion is via commodity.								
	Contract #(s)	Monthly Entitlement (Dth)	Months	Rate (\$/Dth)		Contract Costs	Total MERC NNG Annual Sales	Rate (\$/therm)
(c) Remaining Costs to be Recovered via Commodity	Commodity	28,096,083	x	\$2.3949		\$67,287,310	280,960,833	\$ 0.23949
	Balancing Service	272,160	x	\$4.2550		\$1,158,041	280,960,833	\$ 0.00412
	Physical Forward Start Premium					\$555,750	280,960,833	\$ 0.00198
	Call Option Premium					\$397,979	280,960,833	\$ 0.00142
(d) NNG-General Service, Interruptible, Firm/Interruptible: Total Commodity Current Cost of Gas/therm (I.e. Sum of Costs from Sections (a), (b), and (c))						\$92,571,698		\$ 0.32949

^{1/} Rate applies for new transport contract 142983

MINNESOTA ENERGY RESOURCES - NNG

Financial Options
Heating Season 2024-2025

Units - Gas Daily Peaker Packages (Physical)

November		December		January		February		March		Total	
Contract	Daily	Contract	Daily	Contract	Daily	Contract	Daily	Contract	Daily	Daily	Term
Date	Volume	Date	Volume	Date	Volume	Date	Volume	Date	Volume	Total	Total
N/A		N/A		N/A		N/A		N/A			

Premium - Gas Daily Peaker (Monthly Cost)

November		December		January		February		March		Total	
Option	Premium	Option	Premium	Option	Premium	Option	Premium	Option	Premium	Option	Premium
Premium	Cost	Premium	Cost	Premium	Cost	Premium	Cost	Premium	Cost	Premium	Cost
N/A		N/A		N/A		N/A		N/A			

Units - Futures (Dth)

	November		December		January		February		March		
	Contract	Daily	Contract	Daily	Contract	Daily	Contract	Daily	Contract	Daily	Term
	<u>Date</u>	<u>Volume</u>	<u>Date</u>	<u>Volume</u>	<u>Date</u>	<u>Volume</u>	<u>Date</u>	<u>Volume</u>	<u>Date</u>	<u>Volume</u>	<u>Total</u>
1	05/23/24	1,955	05/22/24	2,667	05/20/24	2,445	05/17/24	3,071	05/15/24	1,919	362,585
2	06/24/24	1,676	06/18/24	2,401	05/20/24	272	06/07/24	2,457	06/03/24	1,919	261,398
3	07/25/24	1,676	07/23/24	2,134	06/13/24	2,716	07/18/24	2,457	07/16/24	1,919	328,856
4	08/07/24	1,676	07/23/24	267	07/22/24	2,716	08/20/24	2,457	08/26/24	1,919	269,831
5	09/24/24	1,676	08/13/24	2,134	08/15/24	2,445	09/11/24	2,457	09/06/24	1,645	311,992
6	10/16/24	1,676	09/19/24	2,134	09/17/24	2,445	10/10/24	2,457	10/07/24	1,645	311,992
7	01/00/00	-	10/14/24	2,134	10/11/24	2,445	01/00/00	-	01/00/00	-	143,347
8	01/00/00	-	01/00/00	-	01/00/00	-	01/00/00	-	01/00/00	-	-
9	01/00/00	-	01/00/00	-	01/00/00	-	01/00/00	-	01/00/00	-	-
Total		10,333		13,871		15,484		15,357		10,968	1,990,000

Units - Call Options (Dth)

	November		December		January		February		March		
	Contract	Daily	Contract	Daily	Contract	Daily	Contract	Daily	Contract	Daily	Term
	Date		Date		Date		Date		Date		Total
1	05/15/24	3,868	05/17/24	4,811	05/20/24	2,697	05/22/24	5,483	05/23/24	3,839	621,346
2	06/03/24	3,592	06/07/24	4,811	05/22/24	2,967	06/18/24	5,483	06/24/24	3,839	621,418
3	07/16/24	3,592	07/18/24	4,811	06/13/24	2,697	07/23/24	5,483	07/25/24	3,565	604,556
4	08/26/24	3,316	08/20/24	4,544	06/18/24	2,428	08/13/24	4,874	08/07/24	3,565	562,560
5	09/06/24	3,316	09/11/24	4,544	07/22/24	5,125	09/19/24	4,874	09/24/24	3,565	646,181
6	10/07/24	3,316	10/10/24	4,544	08/15/24	5,125	10/14/24	4,874	10/16/24	3,565	646,181
7	01/00/00	-	01/00/00	-	09/17/24	5,125	01/00/00	-	01/00/00	-	158,879
8	01/00/00	-	01/00/00	-	10/11/24	5,125	01/00/00	-	01/00/00	-	158,879
9	01/00/00	-	01/00/00	-	01/00/00	-	01/00/00	-	01/00/00	-	-
10	01/00/00	-	01/00/00	-	01/00/00	-	01/00/00	-	01/00/00	-	-
11	01/00/00	-	01/00/00	-	01/00/00	-	01/00/00	-	01/00/00	-	-
12	01/00/00	-	01/00/00	-	01/00/00	-	01/00/00	-	01/00/00	-	-
Total		21,000		28,065		31,290		31,071		21,935	4,020,000

Premium - Call Option (Monthly Cost)

	November		December		January		February		March		Total													
	Option	Premium	Option	Premium	Option	Premium	Option	Premium	Option	Premium	Option	Premium												
		Premium		Premium		Premium		Premium		Premium		Premium												
1	\$	0.1000	\$	11,605	\$	0.1000	\$	8,362	\$	0.1000	\$	15,353	\$	0.1000	\$	62,135								
2	\$	0.0980	\$	10,561	\$	0.1000	\$	9,198	\$	0.1000	\$	15,353	\$	0.1000	\$	11,900	\$	0.0997	\$	61,926				
3	\$	0.0970	\$	10,453	\$	0.1000	\$	8,362	\$	0.1000	\$	15,353	\$	0.0990	\$	10,940	\$	0.0993	\$	60,022				
4	\$	0.0980	\$	9,748	\$	0.0980	\$	7,526	\$	0.1000	\$	13,647	\$	0.1000	\$	11,050	\$	0.0991	\$	55,775				
5	\$	0.0920	\$	9,152	\$	0.0950	\$	13,381	\$	0.1000	\$	15,888	\$	0.0990	\$	13,511	\$	0.0990	\$	10,940	\$	0.0973	\$	62,871
6	\$	0.0970	\$	9,649	\$	0.0940	\$	13,241	\$	0.1000	\$	15,888	\$	0.1000	\$	13,647	\$	0.1000	\$	11,050	\$	0.0982	\$	63,475
7	\$	-	\$	-	\$	-	\$	-	\$	0.1000	\$	15,888	\$	-	\$	-	\$	-	\$	-	\$	0.1000	\$	15,888
8							\$	0.1000	\$	15,888	\$	-	\$	-			\$	0.1000	\$	15,888				
9							\$	-	\$	-	\$	-	\$	-					\$	-				
10							\$	-	\$	-	\$	-	\$	-					\$	-				
11							\$	-	\$	-	\$	-	\$	-					\$	-				
12							\$	-	\$	-	\$	-	\$	-					\$	-				
Total	\$	0.0971	\$	61,168	\$	0.0979	\$	85,169	\$	0.1000	\$	97,000	\$	0.0998	\$	86,864	\$	0.0997	\$	67,779	\$	0.0990	\$	397,979

Units - Collar Floor (put)

No Puts were purchased.

MINNESOTA ENERGY RESOURCES - NNG														
24/25 Winter Portfolio Plan - NNG MERC Hedging Plan														
System	Purchase Month	Nov-24		Dec-24		Jan-25		Feb-25		Mar-25		Total		Percent of Requirements
		Number Contracts	Contract Volume	Number Contracts	Contract Volume	Number Contracts	Contract Volume	Number Contracts	Contract Volume	Number Contracts	Contract Volume	Number Contracts	Contract Volume	
MN Requirements			3,156,840		4,375,717		4,879,197		4,356,573		3,434,070		20,202,397	20,202,397
Daily Average			105,228		141,152		157,393		155,592		110,776		133,791	
10%	Futures		315,684		437,572		487,920		435,657		343,407		2,020,240	
20%	Call		631,368		875,143		975,839		871,315		686,814		4,040,479	
30%	Storage		947,052		1,312,715		1,463,759		1,306,972		1,030,221		6,060,719	
40%	Index		1,262,736		1,750,287		1,951,679		1,742,629		1,373,628		8,080,959	
Futures														
Contracts	May-24	6	60,000	8	80,000	8	80,000	8	80,000	6	60,000	36	360,000	
	Jun-24	5	50,000	7	70,000	8	80,000	7	70,000	6	60,000	33	330,000	
	Jul-24	5	50,000	7	70,000	8	80,000	7	70,000	6	60,000	33	330,000	
	Aug-24	5	50,000	7	70,000	8	80,000	7	70,000	6	60,000	33	330,000	
	Sep-24	5	50,000	7	70,000	8	80,000	7	70,000	5	50,000	32	320,000	
	Oct-24	5	50,000	7	70,000	8	80,000	7	70,000	5	50,000	32	320,000	
	Total	31	310,000	43	430,000	48	480,000	43	430,000	34	340,000	199	1,990,000	9.85%
Call Options	May-24	11	110,000	15	150,000	17	170,000	15	150,000	12	120,000	70	700,000	
	Jun-24	11	110,000	15	150,000	16	160,000	15	150,000	12	120,000	69	690,000	
	Jul-24	11	110,000	15	150,000	16	160,000	15	150,000	11	110,000	68	680,000	
	Aug-24	10	100,000	14	140,000	16	160,000	14	140,000	11	110,000	65	650,000	
	Sep-24	10	100,000	14	140,000	16	160,000	14	140,000	11	110,000	65	650,000	
	Oct-24	10	100,000	14	140,000	16	160,000	14	140,000	11	110,000	65	650,000	
	Total	63	630,000	87	870,000	97	970,000	87	870,000	68	680,000	402	4,020,000	19.90%
Collars	May-24	0	0	0	0	0	0	0	0	0	0	0	0	
	Jun-24	0	0	0	0	0	0	0	0	0	0	0	0	
	Jul-24	0	0	0	0	0	0	0	0	0	0	0	0	
	Aug-24	0	0	0	0	0	0	0	0	0	0	0	0	
	Sep-24	0	0	0	0	0	0	0	0	0	0	0	0	
	Oct-24	0	0	0	0	0	0	0	0	0	0	0	0	
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
Index (back financial)														29.75%
	Total		940,000		1,300,000		1,450,000		1,300,000		1,020,000		6,010,000	
Physical Hedges			0		0		0		0		0		0	30.01%
Storage			635,634		1,597,234		1,597,234		1,597,234		635,634		6,062,969	
Prepaid Obl			0		0		0		0		0		0	0.00%
			49.91%		66.21%		62.45%		66.50%		48.21%		59.76%	
Term Index		0	0	0	0	0	0	0	0	0	0		0	0.00%
		0	0	0	0	0	0	0	0	0	0		0	0.00%
Total NNG MN														100.00%
Futures													1,990,000	
Call Options													4,020,000	
Costing Collar													0	
Storage													6,062,969	
Prepaid Obl													0	
Term Index													0	
Month/Daily													8,129,428	
Total													20,202,397	

Attachment 6
Page 2 of 3

MINNESOTA ENERGY RESOURCES - NNG

NNG WINTER PLAN
NOVEMBER 2024 THROUGH MARCH 2025

<u>PHYSICAL FIXED PRICE HEDGES</u>	<u>Deal #</u>	<u>Trigger Locked</u>	<u>Trigger Exercised</u>	<u>Receipt Point</u>	<u>Daily Volumes</u>					<u>Monthly</u>	
					<u>Nov</u>	<u>Dec</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Total</u>	
					No Physical Fixed Price Hedges						-
											-
					Total Actual Fixed/Option Physical						-

INDEX

<u>Contract Number</u>	<u>Date</u>	<u>Receipt Point</u>	<u>Nov</u>	<u>Dec</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Total</u>
123822	5/15/2024	NNG/GLGT Carlton	24,972	24,972	24,972	24,972	24,972	3,770,772
123823	5/15/2024	NNG/GLGT Grand Rapids	6,000	6,000	6,000	6,000	6,000	906,000
123824	5/15/2024	NNG-TCPL/NNG Beatrice	5,540	5,540	5,540	5,540	5,540	836,540
123825	5/15/2024	NNG-NBPL/NNG Ventura	-	19,000	19,000	19,000	-	1,710,000
123826	5/15/2024	NNG-NNG Field/Demarc	10,000	10,000	10,000	10,000	10,000	1,510,000
123827	5/15/2024	NNG-NNG Field/Demarc	10,000	10,000	10,000	10,000	10,000	1,510,000
123828	5/15/2024	NNG-NNG Field/Demarc	12,000	12,000	12,000	12,000	12,000	1,812,000
123829	5/15/2024	NNG-NNG Field/Demarc	-	10,371	10,371	10,371	-	933,390
123821	5/15/2024	NBPL at Spring Creek TP	10,000	10,000	10,000	10,000	10,000	1,510,000

TOTAL 78,512 107,883 107,883 107,883 78,512 14,498,702

GAS DAILY PACKAGES

Physical Call Option	123830	5/15/2024	NNG NBPL/NNG Ventura	-	10,000	10,000	10,000	-
Physical Call Option	123831	5/15/2024	NNG NBPL/NNG Ventura	-	10,000	10,000	10,000	-
Physical Call Option	123833	5/15/2024	NNG NBPL/NNG Ventura	-	10,000	10,000	10,000	-

FOM PRICED CALL PACKAGES

Physical Call Option	122402	3/14/2024	NNG-NBPL/NNG Various	40,000	40,000	40,000	40,000	40,000
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STORAGE
Injection
Month

<u>K#118657</u> <u>Volume</u> <u>Injected</u>	<u>Open</u> <u>Volume</u> <u>Injected</u>	<u>Total</u> <u>Volume</u> <u>Injected</u>
May - balance forward	2,581,735	0
June	725,490	0
July	549,673	0
August	549,673	0
Sept	925,490	0
Oct (est)	867,939	0
Total	6,200,000	0

MINNESOTA ENERGY RESOURCES - NNG

NNG WINTER PLAN - SUPPLY MIX
NOVEMBER 2024 THROUGH MARCH 2025

Monthly vs. Daily									
Pricing	Term Deal Type	Index Location	Receipt Point	Nov	Dec	Jan	Feb (1-14)	Feb (15-28)	Mar
Monthly Index	Baseload	Nymex LDS	NNG/GLGT Carlton	24,972	24,972	24,972	24,972	24,972	24,972
Monthly Index	Baseload	Nymex LDS	NNG/GLGT Grand Rapids	6,000	6,000	6,000	6,000	6,000	6,000
Monthly Index	Baseload	Nymex LDS	NNG-TCPL/NNG Beatrice	5,540	5,540	5,540	5,540	5,540	5,540
Monthly Index	Baseload	Ventura	NNG-NBPL/NNG Ventura	-	19,000	19,000	19,000	19,000	-
Monthly Index	Baseload	Nymex LDS	NNG-NNG Field/Demarc	10,000	10,000	10,000	10,000	10,000	10,000
Monthly Index	Baseload	Demarc	NNG-NNG Field/Demarc	10,000	10,000	10,000	10,000	10,000	10,000
Monthly Index	Baseload	Nymex LDS	NNG-NNG Field/Demarc	12,000	12,000	12,000	12,000	12,000	12,000
Monthly Index	Baseload	Demarc	NNG-NNG Field/Demarc	-	10,371	10,371	10,371	10,371	-
Monthly Index	Baseload	Ventura	NBPL at Spring Creek TP	10,000	10,000	10,000	10,000	10,000	10,000
Daily Index	Call/Swing	Ventura	NNG NBPL/NNG Ventura	-	10,000	10,000	10,000	10,000	-
Daily Index	Call/Swing	Ventura	NNG NBPL/NNG Ventura	-	10,000	10,000	10,000	10,000	-
Daily Index	Call/Swing	Ventura	NNG NBPL/NNG Ventura	-	10,000	10,000	10,000	10,000	-
Monthly Index	Call/Swing	Ventura	NNG-NBPL/NNG Various	40,000	40,000	40,000	40,000	40,000	40,000
			TOTAL BASELOAD	78,512	107,883	107,883	107,883	107,883	78,512
			TOTAL CALL/SWING (MONTH INDEX)	40,000	40,000	40,000	40,000	40,000	40,000
			TOTAL CALL/SWING (DAILY INDEX)	-	30,000	30,000	30,000	30,000	-
			TOTAL STORAGE WITHDRAWAL	113,074	113,074	113,074	113,074	59,267	59,267

SUPPLY MIX - MAX DAY	Nov	Dec	Jan	Feb (1-14)	Feb (15-28)	Mar
DEMAND	210,653	290,169	290,169	290,169	290,169	206,319
BASELOAD	78,512	107,883	107,883	107,883	107,883	78,512
CALL/SWING	-	69,960	69,960	69,960	70,000	40,000
STORAGE WITHDRAWAL	132,141	113,074	113,074	113,074	59,267	59,267
SPOT SUPPLY (DAILY PURCHASE)	-	-	-	-	53,784	28,540
TOTAL SUPPLY	210,653	290,917	290,917	290,917	290,934	206,319
% MONTHLY PRICE	37%	51%	51%	51%	37%	38%
% DAILY PRICE	0%	10%	10%	10%	25%	14%
% STORAGE WACOG	63%	39%	39%	39%	20%	29%

SUPPLY MIX - AVERAGE DAY	Nov	Dec	Jan	Feb (1-14)	Feb (15-29)	Mar
DEMAND	104,217	138,818	166,291	146,248	146,248	113,561
BASELOAD	78,512	107,883	107,883	107,883	107,883	78,512
CALL/SWING	-	-	-	-	-	-
STORAGE WITHDRAWAL	25,705	30,935	58,408	38,365	38,365	35,049
SPOT SUPPLY (DAILY PURCHASE)	-	-	-	-	-	-
TOTAL SUPPLY	104,217	138,818	166,291	146,248	146,248	113,561
% MONTHLY PRICE	75%	78%	65%	74%	74%	69%
% DAILY PRICE	0%	0%	0%	0%	0%	0%
% STORAGE WACOG	25%	22%	35%	26%	26%	31%

SUPPLY MIX - MINIMUM DAY	Nov	Dec	Jan	Feb (1-14)	Feb (15-29)	Mar
DEMAND	26,994	54,980	89,907	69,395	69,395	45,042
BASELOAD	78,512	107,883	107,883	107,883	107,883	78,512
CALL/SWING	-	-	-	-	-	-
STORAGE WITHDRAWAL	-	-	-	-	-	-
SPOT SUPPLY (DAILY PURCHASE)	-	-	-	-	-	-
NNG SMS INJECT (-)	(22,680)	(22,260)	-	-	-	(16,563)
STORAGE INJECT (-)	(26,192)	(26,192)	(17,993)	(15,856)	(15,856)	(26,192)
REMAINING SUPPLY (LONG GAS)	2,646	4,451	(17)	22,632	22,632	(9,285)
% MONTHLY PRICE	100%	100%	100%	100%	100%	100%
% DAILY PRICE	0%	0%	0%	0%	0%	0%
% STORAGE WACOG	0%	0%	0%	0%	0%	0%

MINNESOTA ENERGY RESOURCES - NNG

	2020-2021 NNG	2021-2022 NNG	2022-2023 NNG	2023-2024 NNG	2024-2025 NNG	Proposed Change
Design Day	280,796	282,710	291,250	290,934	290,169	(765)
Customer Requirements moving to Transportation						
Adjusted Design Day						
Design Day Percentages	32.69%	28.90%	29.71%	28.53%	30.59%	2.06%
Total Design Day Capacity (includes non-recallable capacity)	314,349	313,756	313,756	320,242	320,242	0
Less: Windom	2,500	2,500	2,500	2,500	2,500	0
Less: Northwestern Energy	1,035	1,035	1,035	1,035	1,035	0
Total Design Day Capacity NNG Pipeline	310,814	310,221	310,221	316,707	316,707	0
Factors for All Winter Capacity	100.00%	100.00%	100.00%	100.00%	100.00%	
<u>Direct Assigned Entitlements in PGA</u>						
TF12B	46,006	21,492	33,714	37,650	34,711	(2,939)
TF12V	38,703	62,624	50,402	46,466	49,405	2,939
TF5	36,275	36,275	36,275	36,275	36,275	0
TFX12	85,329	85,329	85,329	91,815	91,815	0
TFX(5)	104,501	104,501	104,501	104,501	104,501	0
TFX(5) (12-V)						0
TFX (April Only)	2,000	2,000	2,000	2,000	2,000	0
TFX (October Only)	2,000	2,000	2,000	2,000	2,000	0
Windom	2,500	2,500	2,500	2,500	2,500	0
Northwestern Energy	1,035	1,035	1,035	1,035	1,035	0
NNG Zone Delivery Call Option	0	0	0	0	0	0
Bison *	50,000	0	0	0	0	0
NBPL *	50,000	50,000	50,000	50,000	50,000	0
Total Direct Assignments	314,349	313,756	313,756	320,242	320,242	0
LP Peak Shaving						0
Total Design Day Capacity	314,349	313,756	313,756	320,242	320,242	0
Total Annual Transportation	173,573	172,980	172,980	179,466	179,466	0
Total Seasonal Transportation	140,776	140,776	140,776	140,776	140,776	0
Total Percent Seasonal	44.8%	44.9%	44.9%	44.0%	44.0%	0.0%
Reserve Margin	11.95%	10.98%	7.73%	10.36%	10.36%	0.0%
Total Design Day Capacity w/ contract demand	314,349	313,756	313,756	320,242	320,242	0
Factors	32.69%	28.90%	29.71%	28.53%	30.59%	2.06%
<u>Other Entitlements not included in Peak Day Deliverability</u>						
TFX Oct	2,000	2,000	2,000	2,000	2,000	0
TFX Apr	2,000	2,000	2,000	2,000	2,000	0
FDD Storage Reservation	113,075	113,075	113,075	113,074	113,074	0
FDD Storage Capacity	1,303,864	1,303,864	1,303,864	1,303,864	1,303,864	0
FDD Maximum Storage Quantity	6,519,321	6,519,321	6,519,321	6,519,321	6,519,321	0
SMS	22,680	22,680	22,680	22,680	22,680	0

MINNESOTA ENERGY RESOURCES - NNG

Change in Costs due to November 1, 2024 Change in Entitlement Levels and Related Demand Costs

Costs Assigned In Demand	Contract	2023/24	2024/25	Entitlement	Months	2024/25	2023/24	2024/25	Total Annual Cost
		Entitlements	Entitlements	Change		Rate	Total Annual Cost	Total Annual Cost	Change
TF12B (Max Rate) Winter	112495	26,076	23,137	(2,939)	5	\$17.4170	\$2,270,828	\$2,014,886	(\$255,943)
TF12B (Max Rate) Summer	112495	26,076	23,137	(2,939)	7	\$9.6760	\$1,766,180	\$1,567,115	(\$199,064)
TF12V (Max Rate)	112495	41,974	44,913	2,939	12	\$15.4814	\$7,797,795	\$8,343,793	\$545,998
TF5 (Max Rate)	112495	16,183	16,183	0	5	\$25.7990	\$2,087,526	\$2,087,526	\$0
TF5 (Rochester Capped)	112495	20,092	20,092	0	5	\$15.1530	\$1,522,270	\$1,522,270	\$0
TF12B (Rochester Capped)	112495	11,574	11,574	0	12	\$7.5776	\$1,052,438	\$1,052,438	\$0
TF12V (Rochester Capped)	112495	4,492	4,492	0	12	\$9.0926	\$490,128	\$490,128	\$0
TFX12 (Max Rate)	112486	8,750	8,750	0	12	\$16.3939	\$1,721,360	\$1,721,360	\$0
TFX Apr (Max Rate)	112486	2,000	2,000	0	1	\$9.6760	\$19,352	\$19,352	\$0
TFX Oct (Max Rate)	112486	2,000	2,000	0	1	\$9.6760	\$19,352	\$19,352	\$0
TFX (Rochester Capped)	112486	2,072	2,072	0	12	\$9.6288	\$239,410	\$239,410	\$0
TFX5 (Max Rate)	112486	62,549	62,549	0	5	\$25.7990	\$8,068,508	\$8,068,508	\$0
TFX5 (Rochester Capped)	112486	16,939	16,939	0	5	\$15.1530	\$1,283,383	\$1,283,383	\$0
TFX12 (Discount)	111866	1,283	1,283	0	12	\$4.8640	\$74,886	\$74,886	\$0
TFX12 (Discount)	111866	8,271	8,271	0	12	\$5.4720	\$543,107	\$543,107	\$0
TFX12 (Discount)	111866	11,921	11,921	0	12	\$7.6025	\$1,087,553	\$1,087,553	\$0
TFX5 (Discount)	111866	379	379	0	5	\$4.8640	\$9,217	\$9,217	\$0
TFX5 (Discount)	111866	2,445	2,445	0	5	\$5.4720	\$66,895	\$66,895	\$0
TFX5 (Discount)	111866	22,189	22,189	0	5	\$15.1392	\$1,679,619	\$1,679,619	\$0
TFX (Max Rate)	141673/142983	6,486	6,486	0	12	\$16.3939	\$336,206	\$1,275,970	\$939,764
Windom		2,500	2,500	0	12	\$0.0000	\$0	\$0	\$0
Northwestern Energy		1,035	1,035	0	12	\$8.00	\$99,360	\$99,360	\$0
Total Demand Cost							\$32,235,374	\$33,266,129	\$1,030,755

Costs Assigned In Commodity		2023/24	2024/25	Entitlement	Months	2024/25	2023/24	Entitlement	Entitlement
		Entitlements	Entitlement	Change		Rate/Dth	Total Annual Cost	Total Cost	Change
<u>Upstream</u>									
<u> Surcharges:</u>									
<u>Storage (FDD)</u>									
FDD - Reservation	118657	107,524	107,524	0	12	\$ 3.2345	\$4,173,437	\$4,173,437	\$0
FDD - Storage Cycle	118657	1,239,864	1,239,864	0	5	\$ 0.6731	\$4,172,763	\$4,172,763	\$0
FDD - Reservation	118657	5,550	5,550	0	12	\$ 3.2758	\$218,168	\$218,168	\$0
FDD - Storage Cycle	118657	64,000	64,000	0	5	\$ 0.6818	\$218,176	\$218,176	\$0
FDD - Reservation	open	0	0	0	12	\$ -	\$0	\$0	\$0
FDD - Storage Cycle	open	0	0	0	5	\$ -	\$0	\$0	\$0
FDD - Reservation	open	0	0	0	12	\$ -	\$0	\$0	\$0
FDD - Storage Cycle	open	0	0	0	5	\$ -	\$0	\$0	\$0
<u>Pipeline</u>									
NBPL	101251	50,000	50,000	0	12	\$6.1230	\$3,683,882	\$3,673,800	(\$10,082)
TFX12 (Rochester)	112486	10,500	10,500	0	12	\$37.1175	\$4,676,805	\$4,676,805	\$0
TFX12 (Rochester II)	112486	34,500	34,500	0	12	\$10.7714	\$4,459,360	\$4,459,360	\$0
TFX12 (SE MN Expansion)	112486	8,032	8,032	0	12	\$16.3939	\$1,580,110	\$1,580,110	\$0
Balancing Service		272,160	272,160	0	1	\$4.2550	\$1,158,041	\$1,158,041	\$0
Physical Forward Start Premium							\$750,750	\$555,750	(\$195,000)
Financial Call Option Premium							\$401,771	\$397,979	(\$3,791)
Total Commodity Costs							\$25,493,262	\$25,284,388	(\$208,873)

Attachment 9

MINNESOTA ENERGY RESOURCES - NNG

Daily Total Throughput Data - July 1, 2023 through June 30, 2024

NNG

Design Day:

Base	6,411
Variable	2,390

Date	11.04% Cloquet Adjusted HDD	31.68% Minneapolis Adjusted HDD	46.53% Rochester Adjusted HDD	10.75% Worthington Adjusted HDD	100.00% Weighted Adjusted HDD	Actual Total Through- Put *	Estimated Firm Through- Put **
7/1/23	0	0	0	0	0	178,199	6,411
7/2/23	0	0	0	0	0	176,543	6,411
7/3/23	0	0	0	0	0	180,087	6,411
7/4/23	0	0	0	0	0	168,770	6,411
7/5/23	8	0	0	7	2	180,399	10,352
7/6/23	2	0	6	2	3	186,753	13,817
7/7/23	0	0	4	9	3	178,081	12,870
7/8/23	5	0	2	4	2	166,109	10,403
7/9/23	0	0	0	0	0	159,043	6,411
7/10/23	7	0	0	0	1	159,740	8,237
7/11/23	5	0	0	3	1	179,667	8,644
7/12/23	4	0	2	0	1	186,877	9,843
7/13/23	0	0	0	0	0	188,025	6,411
7/14/23	0	0	0	0	0	189,546	6,411
7/15/23	5	0	0	0	1	156,522	7,817
7/16/23	3	0	2	2	2	162,205	10,191
7/17/23	4	0	4	3	3	193,788	13,016
7/18/23	1	0	0	0	0	186,496	6,548
7/19/23	4	0	0	0	0	184,749	7,377
7/20/23	0	0	0	1	0	186,370	6,553
7/21/23	0	0	0	0	0	187,514	6,411
7/22/23	0	0	0	0	0	175,280	6,411
7/23/23	0	0	0	0	0	182,269	6,411
7/24/23	0	0	0	0	0	189,310	6,411
7/25/23	0	0	0	0	0	193,308	6,411
7/26/23	0	0	0	0	0	197,959	6,411
7/27/23	0	0	0	0	0	197,033	6,411
7/28/23	1	0	0	0	0	191,604	6,551
7/29/23	5	0	0	0	1	172,432	7,675
7/30/23	3	0	0	0	0	143,801	7,095
7/31/23	0	0	0	0	0	172,104	6,411
8/1/23	0	0	0	0	0	187,042	6,411
8/2/23	0	0	0	0	0	205,994	6,411
8/3/23	0	0	0	0	0	204,608	6,411
8/4/23	0	0	0	0	0	191,206	6,411
8/5/23	0	0	0	0	0	167,491	6,411

Attachment 9

MINNESOTA ENERGY RESOURCES - NNG

Daily Total Throughput Data - July 1, 2023 through June 30, 2024

NNG

Design Day:

Base	6,411
Variable	2,390

Date	11.04% Cloquet Adjusted HDD	31.68% Minneapolis Adjusted HDD	46.53% Rochester Adjusted HDD	10.75% Worthington Adjusted HDD	100.00% Weighted Adjusted HDD	Actual Total Through- Put *	Estimated Firm Through- Put **
8/6/23	0	0	0	3	0	170,994	7,262
8/7/23	0	0	0	0	0	198,774	6,411
8/8/23	0	0	0	0	0	199,460	6,411
8/9/23	5	0	0	0	1	202,519	7,667
8/10/23	0	0	0	0	0	194,273	6,411
8/11/23	2	0	0	0	0	185,521	6,820
8/12/23	2	0	0	0	0	181,415	6,823
8/13/23	2	0	1	1	1	178,437	7,732
8/14/23	6	2	5	6	4	183,734	16,787
8/15/23	0	0	0	0	0	183,130	6,411
8/16/23	0	0	0	0	0	163,525	6,411
8/17/23	7	0	5	2	3	179,896	14,463
8/18/23	0	0	0	0	0	161,048	6,411
8/19/23	0	0	0	0	0	167,707	6,411
8/20/23	0	0	0	0	0	169,292	6,411
8/21/23	2	0	0	0	0	182,253	6,844
8/22/23	3	0	0	0	0	190,775	7,269
8/23/23	4	0	0	0	0	200,468	7,398
8/24/23	0	0	0	0	0	200,200	6,411
8/25/23	0	0	0	0	0	177,511	6,411
8/26/23	14	1	1	5	3	161,530	13,072
8/27/23	6	0	2	0	1	170,833	9,772
8/28/23	0	0	0	0	0	192,190	6,411
8/29/23	5	0	0	0	1	177,388	7,788
8/30/23	3	0	1	0	1	182,675	8,274
8/31/23	0	0	0	0	0	155,979	6,411
9/1/23	0	0	0	0	0	167,344	6,411
9/2/23	0	0	0	0	0	160,385	6,411
9/3/23	0	0	0	0	0	158,665	6,411
9/4/23	0	0	0	0	0	186,442	6,411
9/5/23	0	0	0	0	0	182,176	6,411
9/6/23	10	3	5	10	5	170,728	19,381
9/7/23	14	7	12	4	9	183,807	29,019
9/8/23	8	0	2	0	2	179,260	10,329
9/9/23	3	0	0	2	0	163,735	7,492
9/10/23	8	2	6	8	5	148,519	18,657

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MINNESOTA ENERGY RESOURCES - NNG

Daily Total Throughput Data - July 1, 2023 through June 30, 2024

NNG

Design Day:

Base	6,411
Variable	2,390

Date	11.04% Cloquet Adjusted HDD	31.68% Minneapolis Adjusted HDD	46.53% Rochester Adjusted HDD	10.75% Worthington Adjusted HDD	100.00% Weighted Adjusted HDD	Actual Total Through- Put *	Estimated Firm Through- Put **
9/11/23	8	1	5	5	4	123,707	16,228
9/12/23	22	10	11	10	12	119,862	33,943
9/13/23	16	7	8	4	8	121,485	25,690
9/14/23	4	0	0	0	0	122,010	7,379
9/15/23	5	3	8	5	6	144,282	20,262
9/16/23	12	3	5	9	6	136,359	19,804
9/17/23	9	3	7	6	6	138,865	20,644
9/18/23	7	0	0	0	1	167,765	8,366
9/19/23	6	0	0	0	1	181,023	8,071
9/20/23	0	0	0	0	0	186,141	6,411
9/21/23	0	0	0	0	0	192,347	6,411
9/22/23	3	0	0	2	0	184,536	7,545
9/23/23	7	0	0	6	1	150,013	9,696
9/24/23	8	0	0	4	1	175,551	9,523
9/25/23	9	3	2	6	3	195,680	14,090
9/26/23	4	1	2	2	2	197,471	10,619
9/27/23	5	0	1	4	1	186,751	9,505
9/28/23	6	0	1	0	1	165,828	9,162
9/29/23	5	0	0	0	1	151,868	7,780
9/30/23	3	0	0	0	0	159,476	7,121
10/1/23	3	0	0	0	0	158,358	7,108
10/2/23	0	0	0	0	0	183,824	6,411
10/3/23	0	0	0	0	0	177,454	6,411
10/4/23	11	5	7	8	7	192,619	22,812
10/5/23	16	12	11	16	13	158,925	36,533
10/6/23	24	18	20	28	20	184,413	55,024
10/7/23	24	18	18	18	18	198,694	50,317
10/8/23	25	17	19	18	19	193,715	51,526
10/9/23	24	19	24	24	22	234,449	59,786
10/10/23	23	17	24	18	21	230,845	56,238
10/11/23	26	13	14	14	15	207,441	42,438
10/12/23	18	18	21	23	20	211,446	54,094
10/13/23	21	20	20	21	20	205,153	54,787
10/14/23	23	19	21	21	20	202,009	54,948
10/15/23	20	18	21	21	20	195,302	54,124
10/16/23	30	14	21	18	19	240,234	52,809

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MINNESOTA ENERGY RESOURCES - NNG

Daily Total Throughput Data - July 1, 2023 through June 30, 2024

NNG

Design Day:

Base	6,411
Variable	2,390

Date	11.04% Cloquet Adjusted HDD	31.68% Minneapolis Adjusted HDD	46.53% Rochester Adjusted HDD	10.75% Worthington Adjusted HDD	100.00% Weighted Adjusted HDD	Actual Total Through- Put *	Estimated Firm Through- Put **
10/17/23	18	12	13	10	13	210,358	36,851
10/18/23	17	11	12	14	13	212,336	36,670
10/19/23	19	13	21	14	18	237,753	48,384
10/20/23	17	8	10	6	10	203,751	29,544
10/21/23	17	16	22	20	19	218,298	52,591
10/22/23	16	14	19	17	17	207,032	46,314
10/23/23	14	9	8	8	9	212,914	27,321
10/24/23	16	12	4	16	9	230,778	29,051
10/25/23	21	11	9	14	12	231,129	34,150
10/26/23	24	16	12	23	16	214,456	44,878
10/27/23	35	36	38	45	38	272,233	96,053
10/28/23	43	37	39	42	39	284,325	99,340
10/29/23	43	37	41	42	40	288,433	102,170
10/30/23	44	38	41	45	41	311,625	104,043
10/31/23	44	38	45	46	43	306,269	108,524
11/1/23	40	34	38	35	37	311,295	94,190
11/2/23	33	31	29	28	30	297,427	78,741
11/3/23	41	26	26	30	28	288,814	74,000
11/4/23	37	24	24	25	26	265,771	67,842
11/5/23	27	17	16	13	17	215,117	47,079
11/6/23	30	22	21	21	22	258,006	58,981
11/7/23	33	25	24	23	25	272,418	67,063
11/8/23	30	25	28	26	27	247,204	71,278
11/9/23	34	26	27	29	28	263,681	72,269
11/10/23	33	31	37	36	34	291,076	88,627
11/11/23	33	25	31	22	28	248,943	74,498
11/12/23	26	17	22	21	21	229,727	56,105
11/13/23	22	16	21	13	19	234,977	51,308
11/14/23	20	14	18	20	17	217,865	46,952
11/15/23	19	13	13	15	14	219,929	40,159
11/16/23	25	19	24	27	23	245,077	61,134
11/17/23	34	28	33	31	31	275,831	80,989
11/18/23	30	21	23	22	23	260,405	61,716
11/19/23	28	19	21	20	21	232,846	56,394
11/20/23	29	24	29	32	28	245,721	72,283
11/21/23	39	34	40	41	38	275,248	97,375

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MINNESOTA ENERGY RESOURCES - NNG

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Variable	2,390

Date	11.04% Cloquet Adjusted HDD	31.68% Minneapolis Adjusted HDD	46.53% Rochester Adjusted HDD	10.75% Worthington Adjusted HDD	100.00% Weighted Adjusted HDD	Actual Total Through- Put *	Estimated Firm Through- Put **
11/22/23	43	31	35	32	34	245,614	87,838
11/23/23	52	48	48	54	49	281,025	123,692
11/24/23	48	44	46	49	46	313,377	116,071
11/25/23	45	41	43	50	43	295,361	110,160
11/26/23	52	48	53	50	51	303,325	128,175
11/27/23	64	57	65	54	61	372,576	152,693
11/28/23	54	47	55	41	51	321,540	128,304
11/29/23	32	29	33	31	31	281,533	81,282
11/30/23	41	37	37	44	38	306,429	97,322
12/1/23	42	37	41	40	40	310,103	101,989
12/2/23	36	36	37	39	37	283,855	94,277
12/3/23	35	35	38	39	37	298,259	93,974
12/4/23	35	36	39	38	37	281,359	95,889
12/5/23	43	39	43	35	41	306,879	104,626
12/6/23	36	29	33	27	32	259,808	81,688
12/7/23	29	25	25	19	25	218,673	65,141
12/8/23	29	25	28	31	27	245,530	71,877
12/9/23	42	40	44	53	44	296,307	110,653
12/10/23	47	43	46	47	45	338,874	114,695
12/11/23	48	41	46	42	44	317,718	111,647
12/12/23	49	42	46	45	45	340,261	114,229
12/13/23	40	32	34	35	34	292,477	87,907
12/14/23	29	24	26	25	26	250,984	67,845
12/15/23	31	26	29	27	28	276,534	74,017
12/16/23	33	30	31	36	31	256,636	81,536
12/17/23	51	44	48	44	46	279,520	117,515
12/18/23	55	48	57	48	53	356,542	132,515
12/19/23	40	35	42	39	39	318,939	100,346
12/20/23	39	32	35	36	34	300,766	88,561
12/21/23	34	32	34	33	33	295,369	85,598
12/22/23	30	26	27	30	28	266,752	72,397
12/23/23	26	21	24	29	24	222,630	63,667
12/24/23	23	18	17	29	19	207,860	52,520
12/25/23	29	23	28	35	27	223,720	71,787
12/26/23	33	33	39	39	36	301,608	93,117
12/27/23	35	34	37	40	36	305,076	92,681

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12/28/23	39	37	42	42	40	297,004	101,470
12/29/23	35	33	37	33	35	270,025	90,671
12/30/23	45	42	44	45	44	273,857	110,451
12/31/23	48	43	46	49	45	315,791	115,093
1/1/24	47	44	47	45	46	303,816	115,205
1/2/24	40	37	39	41	39	311,785	98,584
1/3/24	49	41	41	46	42	325,921	107,922
1/4/24	50	40	45	46	44	330,224	111,557
1/5/24	41	36	39	38	38	304,093	97,553
1/6/24	46	39	43	52	43	289,503	109,300
1/7/24	56	43	46	50	47	305,498	117,716
1/8/24	45	40	43	51	43	296,763	108,739
1/9/24	45	42	47	62	47	303,503	118,576
1/10/24	43	45	51	61	49	295,852	123,754
1/11/24	61	60	59	73	61	335,190	151,821
1/12/24	68	65	68	86	69	344,111	171,928
1/13/24	76	76	85	97	82	378,014	203,372
1/14/24	81	75	85	87	82	387,408	202,138
1/15/24	82	75	83	92	81	393,970	200,085
1/16/24	73	70	77	77	74	367,097	183,689
1/17/24	73	62	66	62	65	373,486	162,613
1/18/24	72	67	72	76	71	399,926	176,096
1/19/24	74	69	77	80	75	427,990	184,504
1/20/24	69	66	75	78	72	387,531	177,830
1/21/24	55	54	60	61	58	331,270	144,650
1/22/24	45	39	41	42	41	308,112	104,187
1/23/24	40	36	37	39	37	298,807	95,145
1/24/24	36	32	34	35	34	283,679	87,676
1/25/24	32	30	34	34	32	288,766	83,973
1/26/24	34	30	33	38	33	278,389	84,659
1/27/24	37	34	38	36	37	295,316	94,106
1/28/24	35	37	39	32	37	296,924	94,539
1/29/24	34	28	30	31	30	252,297	78,420
1/30/24	36	31	36	37	35	285,028	89,249
1/31/24	27	24	27	27	26	260,755	68,451
2/1/24	35	28	30	28	30	261,573	77,515

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2/2/24	39	33	40	32	37	256,193	94,275
2/3/24	41	36	35	36	36	270,550	92,517
2/4/24	36	28	29	34	30	288,098	78,494
2/5/24	24	27	27	31	27	280,931	71,527
2/6/24	29	20	25	25	24	244,709	63,548
2/7/24	30	22	28	21	26	248,151	67,483
2/8/24	31	26	27	33	28	261,990	73,229
2/9/24	49	41	43	39	43	304,132	108,092
2/10/24	45	37	42	39	40	306,433	102,683
2/11/24	43	34	38	37	37	291,775	95,048
2/12/24	42	31	35	34	34	306,790	87,999
2/13/24	42	35	33	33	34	307,067	88,727
2/14/24	41	39	38	47	39	286,157	100,502
2/15/24	57	51	52	47	52	341,130	130,135
2/16/24	63	60	64	62	63	348,854	156,348
2/17/24	45	50	54	56	52	301,691	130,507
2/18/24	45	39	43	39	42	318,577	105,600
2/19/24	40	37	33	31	35	301,029	89,854
2/20/24	28	32	28	26	29	282,235	75,824
2/21/24	29	26	27	22	26	273,402	69,036
2/22/24	32	27	27	27	28	238,067	72,324
2/23/24	54	42	44	41	44	318,702	111,398
2/24/24	41	33	40	30	37	251,238	95,297
2/25/24	38	27	27	29	28	256,199	74,211
2/26/24	25	18	17	20	18	222,372	50,287
2/27/24	57	44	47	67	49	329,934	123,969
2/28/24	64	57	61	54	59	374,219	147,584
2/29/24	50	29	32	25	32	262,587	83,058
3/1/24	26	22	26	27	25	238,782	65,916
3/2/24	27	16	17	16	17	201,135	48,194
3/3/24	33	13	17	24	18	217,257	50,153
3/4/24	40	35	38	39	37	297,467	95,407
3/5/24	33	27	30	31	30	274,076	76,973
3/6/24	33	21	26	26	25	231,707	66,081
3/7/24	41	32	27	38	31	270,171	80,305
3/8/24	43	39	39	44	40	294,716	102,440

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3/9/24	44	36	41	38	39	270,848	100,603
3/10/24	33	28	30	25	29	225,407	76,044
3/11/24	16	13	9	12	11	185,829	33,407
3/12/24	19	11	12	17	13	206,591	38,031
3/13/24	23	11	9	11	12	201,823	34,418
3/14/24	32	20	25	27	24	229,480	64,949
3/15/24	30	22	23	26	24	206,918	63,445
3/16/24	46	35	36	38	37	232,844	95,488
3/17/24	52	45	47	53	47	302,936	119,639
3/18/24	44	39	42	43	41	282,049	105,316
3/19/24	46	36	34	35	36	265,249	93,289
3/20/24	53	43	42	46	44	325,812	112,026
3/21/24	45	37	37	38	38	320,620	97,253
3/22/24	50	42	48	50	47	317,531	118,240
3/23/24	46	39	41	45	42	287,512	105,896
3/24/24	44	38	39	39	39	277,052	100,392
3/25/24	45	35	31	47	35	299,305	90,869
3/26/24	54	49	47	58	50	335,663	124,899
3/27/24	51	47	48	48	48	336,352	120,839
3/28/24	45	38	36	36	38	301,591	96,076
3/29/24	38	31	25	26	28	261,440	73,792
3/30/24	33	28	26	33	28	258,086	73,914
3/31/24	30	26	27	35	28	252,817	73,653
4/1/24	34	28	36	36	33	269,549	85,232
4/2/24	36	32	38	31	35	278,393	89,745
4/3/24	31	26	33	35	31	258,733	80,037
4/4/24	32	24	30	24	28	261,263	72,425
4/5/24	31	19	26	22	24	202,864	64,127
4/6/24	28	19	22	19	21	206,050	57,703
4/7/24	27	25	27	26	26	241,676	69,457
4/8/24	28	22	24	28	24	232,737	64,723
4/9/24	21	15	18	17	17	201,393	48,007
4/10/24	17	8	11	13	11	187,854	32,515
4/11/24	19	15	21	24	19	200,185	51,746
4/12/24	25	15	22	16	20	195,557	53,515
4/13/24	14	0	0	0	2	161,738	10,084

Attachment 9

MINNESOTA ENERGY RESOURCES - NNG

Daily Total Throughput Data - July 1, 2023 through June 30, 2024

NNG

Design Day:

Base	6,411
Variable	2,390

Date	11.04% Cloquet Adjusted HDD	31.68% Minneapolis Adjusted HDD	46.53% Rochester Adjusted HDD	10.75% Worthington Adjusted HDD	100.00% Weighted Adjusted HDD	Actual Total Through- Put *	Estimated Firm Through- Put **
4/14/24	20	4	4	11	7	188,326	22,517
4/15/24	14	6	6	0	6	179,573	21,845
4/16/24	28	19	17	13	18	218,149	50,545
4/17/24	26	18	21	18	20	222,001	54,882
4/18/24	30	26	27	30	27	226,531	71,350
4/19/24	39	36	35	35	36	236,363	92,083
4/20/24	30	27	33	33	31	237,175	80,266
4/21/24	17	15	21	16	18	177,202	50,237
4/22/24	14	8	12	12	11	177,580	32,229
4/23/24	26	19	23	22	22	180,705	58,455
4/24/24	29	17	19	10	18	194,450	50,045
4/25/24	18	9	12	10	11	167,484	33,576
4/26/24	19	15	15	17	15	196,353	43,383
4/27/24	25	13	12	16	14	171,477	40,321
4/28/24	37	21	19	21	22	215,641	58,185
4/29/24	31	20	23	23	23	239,876	60,776
4/30/24	22	7	8	11	9	205,778	29,024
5/1/24	18	9	9	13	11	199,633	31,744
5/2/24	26	16	20	15	19	225,278	51,396
5/3/24	13	7	6	11	8	192,534	25,314
5/4/24	22	14	19	18	18	197,080	48,565
5/5/24	13	6	10	10	9	172,206	27,382
5/6/24	12	0	2	4	3	154,510	13,335
5/7/24	20	4	7	13	8	174,422	26,315
5/8/24	19	3	2	6	5	190,713	17,248
5/9/24	25	9	14	10	13	197,114	37,338
5/10/24	17	4	8	7	8	168,927	24,510
5/11/24	3	0	3	0	2	163,406	10,327
5/12/24	7	0	0	0	1	173,440	8,147
5/13/24	14	5	7	9	7	190,803	23,582
5/14/24	17	4	8	1	7	177,554	22,859
5/15/24	19	1	0	6	3	180,293	13,163
5/16/24	16	3	7	3	6	194,149	21,233
5/17/24	10	0	0	0	1	154,667	9,113
5/18/24	3	0	0	3	1	161,265	8,137
5/19/24	3	1	2	4	2	164,293	10,493

Attachment 9

MINNESOTA ENERGY RESOURCES - NNG

Daily Total Throughput Data - July 1, 2023 through June 30, 2024

NNG

Design Day:

Base	6,411
Variable	2,390

Date	11.04% Cloquet Adjusted HDD	31.68% Minneapolis Adjusted HDD	46.53% Rochester Adjusted HDD	10.75% Worthington Adjusted HDD	100.00% Weighted Adjusted HDD	Actual Total Through- Put *	Estimated Firm Through- Put **
5/20/24	8	0	0	0	1	157,555	8,617
5/21/24	15	3	5	7	6	142,295	19,727
5/22/24	18	2	6	5	6	150,314	21,084
5/23/24	7	0	0	0	1	141,266	8,250
5/24/24	25	6	9	13	10	138,658	30,943
5/25/24	4	0	0	2	1	127,299	8,126
5/26/24	11	4	13	2	9	134,064	27,653
5/27/24	10	7	8	8	8	140,008	25,266
5/28/24	14	7	11	10	10	149,710	30,322
5/29/24	15	2	7	0	5	143,324	19,150
5/30/24	4	0	0	0	0	138,367	7,393
5/31/24	2	1	2	3	2	133,614	10,249
6/1/24	7	0	3	0	2	131,364	11,848
6/2/24	0	0	0	0	0	123,905	6,411
6/3/24	0	0	0	0	0	143,608	6,411
6/4/24	3	0	0	0	0	146,645	7,250
6/5/24	3	0	0	0	0	130,104	7,134
6/6/24	12	1	4	2	3	150,060	14,352
6/7/24	3	0	0	0	0	167,106	7,279
6/8/24	3	0	3	1	2	158,951	10,469
6/9/24	16	3	4	3	5	137,234	18,201
6/10/24	6	0	3	0	2	150,843	10,997
6/11/24	5	0	0	0	1	152,223	7,672
6/12/24	0	0	0	0	0	158,986	6,411
6/13/24	3	0	0	0	0	166,971	7,110
6/14/24	6	0	0	0	1	155,386	7,907
6/15/24	5	0	0	0	1	129,458	7,815
6/16/24	1	0	0	0	0	152,168	6,548
6/17/24	5	0	0	0	1	160,858	7,799
6/18/24	0	0	0	0	0	166,932	6,411
6/19/24	6	0	2	2	2	180,126	10,304
6/20/24	8	0	0	3	1	166,945	9,297
6/21/24	5	0	0	0	1	161,382	7,807
6/22/24	11	0	0	0	1	160,948	9,340
6/23/24	1	0	0	0	0	162,813	6,548
6/24/24	0	0	0	0	0	168,107	6,411

Attachment 9

MINNESOTA ENERGY RESOURCES - NNG

Daily Total Throughput Data - July 1, 2023 through June 30, 2024

NNG

Design Day:

Base	6,411
Variable	2,390

Date	11.04% Cloquet Adjusted HDD	31.68% Minneapolis Adjusted HDD	46.53% Rochester Adjusted HDD	10.75% Worthington Adjusted HDD	100.00% Weighted Adjusted HDD	Actual Total Through- Put *	Estimated Firm Through- Put **
6/25/24	0	0	0	0	0	173,865	6,411
6/26/24	8	0	0	0	1	171,019	8,498
6/27/24	1	0	0	0	0	164,912	6,548
6/28/24	0	0	0	0	0	160,201	6,411
6/29/24	14	2	3	7	5	154,697	17,257
6/30/24	7	0	4	0	3	156,135	12,475
Totals	8,519	6,557	7,244	7,448	7,189	82,575,221	19,525,862

* Volumes include interruptible and transportation volumes, NorthWest Energy not included.

** Design Model numbers are used to calculate firm volumes only

MINNESOTA ENERGY RESOURCES - NNG

Customer Counts by PGAC Class - July 1, 2023 through June 30, 2024

Tariff Rate Class	Rate Designation	Jul-23 Customers	Aug-23 Customers	Sep-23 Customers	Oct-23 Customers	Nov-23 Customers	Dec-23 Customers	Jan-24 Customers	Feb-24 Customers	Mar-24 Customers	Apr-24 Customers	May-24 Customers	Jun-24 Customers	Annual Average Customers
GS- Residential	MERC000001	189,950	189,967	189,905	190,178	192,386	193,681	193,229	193,096	194,349	194,604	194,672	200,493	193,042
Residential Farm Taps	MERC001206	945	1,485	1,153	1,210	1,209	827	1,509	1,116	1,081	1,088	1,247	1,018	1,157
Firm Class 1	MERC000005	7,421	7,472	7,373	7,422	7,438	7,646	7,592	7,572	7,578	7,716	7,593	7,919	7,562
Firm Class 2	MERC001221	10,218	10,213	10,222	10,210	10,341	10,456	10,419	10,420	10,443	10,408	10,395	10,889	10,386
Firm Class 3	MERC001231	52	60	60	59	58	53	52	54	53	45	51	56	54
Firm Class 4	MERC001241	0	0	0	0	0	0	0	0	0	0	0	0	0
Firm Class 5	MERC001251	0	0	0	0	0	0	0	0	0	0	0	0	0
GS-C&I <1,500 therms/yr (Small) Emmons, IA	MERC000013	2	2	2	2	2	2	2	2	2	2	2	2	2
GS-C&I >1,500 therms/yr (Large) Emmons, IA	MERC000014	1	1	1	1	1	1	1	1	1	1	1	1	1
Agricultural Grain Dryer Class 1	MERC001217	67	95	64	106	69	71	92	79	74	73	65	94	79
Agricultural Grain Dryer Class 2	MERC001227	47	85	60	87	50	82	83	58	70	74	64	59	68
Agricultural Grain Dryer Class 3	MERC001237	0	0	0	0	0	0	0	0	0	0	0	0	0
Interruptible Class 2	MERC001222	169	169	120	190	158	154	161	148	157	160	139	121	154
Interruptible Class 3	MERC001232	42	40	32	48	40	40	36	33	40	38	34	34	38
Interruptible Class 4	MERC001242	0	0	0	0	0	0	0	0	0	0	0	0	0
Interruptible Class 5	MERC001252	0	0	0	0	0	0	0	0	0	0	0	0	0
Firm/Interruptible Class 2	MERC001223	1	1	1	1	1	1	1	1	1	0	2	0	1
Firm/Interruptible Class 3	MERC001233	0	0	0	0	0	0	0	0	0	0	0	0	0
Firm/Interruptible Class 4	MERC001243	0	0	0	0	0	0	0	0	0	0	0	0	0
Firm/Interruptible Class 5	MERC001253	0	0	0	0	0	0	0	0	0	0	0	0	0
Farm Tap Class 1	MERC001216	90	134	107	118	114	81	137	100	102	120	111	97	109
Farm Tap Class 2	MERC001226	175	243	192	213	220	169	246	179	182	232	193	206	204
Farm Tap Class 3	MERC001236	2	2	2	3	3	3	3	3	3	3	2	4	3
Interruptible Electric Generation Class 1	MERC001218	6	6	5	8	5	6	7	3	8	7	6	5	6
Interruptible Electric Generation Class 2	MERC001228	0	0	0	0	0	0	0	0	0	0	0	0	0
Total		209,187	209,973	209,300	209,857	212,093	213,274	213,571	212,866	214,145	214,570	214,577	220,998	212,867

Projected Hedged Cost - November 2024 through March 2025[illegible]

Deal Number	Purchase Date	Trade Number	Number Contracts	Financial Volume	Strike Price	Strike Cost	Feb-25							Total Cost	Deal Number	Purchase Date	Trade Number	Number Contracts	Financial Volume	Strike Price	Strike Cost	LDS Settle*	LDS Settle Cost	Over/(Under) Market	Premium Per Unit	Premium Cost	Total Cost	Mar-25													Total												
							LDS Settle*	LDS Settle Cost	Over/(Under) Market	Premium Per Unit	Premium Cost	Total Cost	Deal Number															Purchase Date	Trade Number	Number Contracts	Financial Volume	Strike Price	Strike Cost	LDS Settle*	LDS Settle Cost	Over/(Under) Market	Premium Per Unit	Premium Cost	Total Cost	Deal Number	Purchase Date	%	Number Contracts	Financial Volume	Strike Price	Strike Cost	LDS Settle	LDS Settle Cost	Over/(Under) Market	Premium Per Unit	Premium Cost	Total Cost	
1	05/17/24	123905	10	100,000	\$ 3.7260	\$ 372,600	\$ 3.0270	\$ 302,700	\$ 69,900	\$ -	\$ 372,600	1	05/15/24	123814	7	70,000	\$ 3.2180	\$ 225,260	\$ 2.8010	\$ 196,070	\$ 29,190	\$ -	\$ 225,260	1	1,229,000	\$ 3.6074	\$ 2,8581	\$ 1,551,200	\$ 322,200	\$ -	\$ -	\$ 1,551,200																					
2	06/07/24	124703	8	80,000	\$ 3.7520	\$ 300,160	\$ 3.0270	\$ 242,160	\$ 58,000	\$ -	\$ 300,160	2	06/03/24	124421	7	70,000	\$ 3.2430	\$ 227,430	\$ 2.8010	\$ 196,070	\$ 31,360	\$ -	\$ 227,430	2	31	310,000	\$ 3.5558	\$ 1,102,510	\$ 2,7971	\$ 867,100	\$ 235,210	\$ -	\$ -	\$ 1,102,310																			
3	07/18/24	125875	8	80,000	\$ 3.3960	\$ 271,680	\$ 3.0270	\$ 242,160	\$ 29,520	\$ -	\$ 271,680	3	07/16/24	125805	7	70,000	\$ 3.0920	\$ 216,440	\$ 2.8010	\$ 196,070	\$ 20,370	\$ -	\$ 216,440	3	39	390,000	\$ 3.3989	\$ 1,325,580	\$ 2,8696	\$ 1,119,130	\$ 206,450	\$ -	\$ -	\$ 1,325,580																			
4	08/20/24	126679	8	80,000	\$ 3.3290	\$ 266,320	\$ 3.0270	\$ 242,160	\$ 24,160	\$ -	\$ 266,320	4	08/26/24	126876	7	70,000	\$ 2.9670	\$ 207,690	\$ 2.8010	\$ 196,070	\$ 11,620	\$ -	\$ 207,690	4	32	320,000	\$ 3.3155	\$ 1,060,960	\$ 2,8758	\$ 920,260	\$ 140,700	\$ -	\$ -	\$ 1,060,960																			
5	09/11/24	127203	8	80,000	\$ 3.1840	\$ 254,720	\$ 3.0270	\$ 242,160	\$ 12,560	\$ -	\$ 254,720	5	09/06/24	127138	6	60,000	\$ 2.9510	\$ 177,060	\$ 2.8010	\$ 168,060	\$ 9,000	\$ -	\$ 177,060	5	37	370,000	\$ 3.3140	\$ 1,226,190	\$ 2,8649	\$ 1,059,890	\$ 166,220	\$ -	\$ -	\$ 1,226,190																			
6	10/10/24	127928	8	80,000	\$ 3.2130	\$ 257,040	\$ 3.0270	\$ 242,160	\$ 14,880	\$ -	\$ 257,040	6	10/07/24	127844	6	60,000	\$ 3.1600	\$ 190,800	\$ 2.8010	\$ 168,060	\$ 22,740	\$ -	\$ 190,800	6	37	370,000	\$ 3.2220	\$ 1,192,140	\$ 2,8648	\$ 1,059,960	\$ 132,180	\$ -	\$ -	\$ 1,192,140																			
7						\$ -	\$ 3.0270	\$ -	\$ -	\$ -	\$ -	7					\$ -	\$ 2.8010	\$ -	\$ -	\$ -	\$ -	7	17	170,000	\$ 3.3289	\$ 565,920	\$ 2.9866	\$ 507,720	\$ 58,200	\$ -	\$ -	\$ 565,920																				
8						\$ -	\$ 3.0270	\$ -	\$ -	\$ -	\$ -	8					\$ -	\$ 2.8010	\$ -	\$ -	\$ -	\$ -	8			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																				
9						\$ -	\$ 3.0270	\$ -	\$ -	\$ -	\$ -	9					\$ -	\$ 2.8010	\$ -	\$ -	\$ -	\$ -	9			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																				
10						\$ -	\$ 3.0270	\$ -	\$ -	\$ -	\$ -	10					\$ -	\$ 2.8010	\$ -	\$ -	\$ -	\$ -	10			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																				
11						\$ -	\$ 3.0270	\$ -	\$ -	\$ -	\$ -	11					\$ -	\$ 2.8010	\$ -	\$ -	\$ -	\$ -	11			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																				
12						\$ -	\$ 3.0270	\$ -	\$ -	\$ -	\$ -	12					\$ -	\$ 2.8010	\$ -	\$ -	\$ -	\$ -	12			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																				
13						\$ -	\$ 3.0270	\$ -	\$ -	\$ -	\$ -	13					\$ -	\$ 2.8010	\$ -	\$ -	\$ -	\$ -	13			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																				
14						\$ -	\$ 3.0270	\$ -	\$ -	\$ -	\$ -	14					\$ -	\$ 2.8010	\$ -	\$ -	\$ -	\$ -	14			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																				
15						\$ -	\$ 3.0270	\$ -	\$ -	\$ -	\$ -	15					\$ -	\$ 2.8010	\$ -	\$ -	\$ -	\$ -	15			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -																				
Total			50	500,000	\$ 1,722,520 \$ 3,4450	\$ 1,513,500 \$ 3,0270	\$ 209,020 \$ 0,4180	\$ -	\$ 1,722,520 \$ 3,4450	Total	40	400,000	\$ 1,244,680 \$ 3,1117	\$ 1,120,440 \$ 2,8010	\$ 124,280 \$ 0,3107	\$ -	\$ 1,244,680 \$ 3,1117	Total	236	2,360,000	\$ 8,024,290 \$ 3,4001	\$ 6,763,130 \$ 2,8657	\$ 1,261,160 \$ 0,5344	\$ -	\$ 8,024,290 \$ 3,4001																												
NNG Other-Cons	43 7	86.00% 14.00%	43 7	430,000 70,000	\$ 3,4450 \$ 3,4450	\$ 1,481,367 \$ 241,153	\$ 3,0270 \$ 3,0270	\$ 1,301,610 \$ 211,890	\$ 179,757 \$ 29,263	\$ - \$ -	\$ - \$ -	34 6	85.00% 15.00%	34 6	340,000 60,000	\$ 3,1117 \$ 3,1117	\$ 1,057,978 \$ 186,702	\$ 2,8010 \$ 2,8010	\$ 952,340 \$ 168,060	\$ 105,638 \$ 16,642	\$ - \$ -	\$ - \$ -	\$ 1,057,978 \$ 186,702	NNG Other-Cons	199 37	84.32% 15.68%	199 37	1,990,000 370,000	\$ 3,4001 \$ 3,4001	\$ 6,786,245 \$ 1,258,045	\$ 2,8657 \$ 2,8657	\$ 5,702,809 \$ 1,060,321	\$ 1,063,438 \$ 197,724	\$ - \$ -	\$ - \$ -	\$ 6,766,245 \$ 1,258,045																	
Total	50	100.0%	50	500,000	\$ 3,4450	\$ 1,722,520	\$ 3,0270	\$ 1,513,500	\$ 209,020	\$ -	\$ 1,722,520	40	100.0%	40	400,000	\$ 3,1117	\$ 1,244,680	\$ 2,8010	\$ 1,120,440	\$ 124,280	\$ -	\$ -	\$ 1,244,680	Total	236	100.0%	236	2,360,000	\$ 3,4001	\$ 8,024,290	\$ 2,8657	\$ 6,763,130	\$ 1,261,160	\$ -	\$ -	\$ 8,024,290																	

*Prices from 10/16/2024 NYMEX market close

MINNESOTA ENERGY RESOURCES - NNG

Projected Storage Cost - November 2024 through March 2025

Month/ Year	K#118657 NNG Storage (Dth)			Total NNG Storage (Dth)	Projected NNG WACOG	K#118657 NNG Storage Cost			Total NNG Storage Cost	ANR Storage GLGT/VGT (Dth)	ANR Storage GLGT/VGT WACOG	ANR Storage GLGT/VGT Cost
Nov-24	635,634			635,634	\$ 2.1354	\$ 1,357,304			\$ 1,357,304	90,000	\$ 2.1787	\$ 196,082
Dec-24	1,597,234			1,597,234	\$ 2.1354	\$ 3,410,661			\$ 3,410,661	248,000	\$ 2.1787	\$ 540,316
Jan-25	1,597,234			1,597,234	\$ 2.1354	\$ 3,410,661			\$ 3,410,661	279,000	\$ 2.1787	\$ 607,855
Feb-25	1,597,234			1,597,234	\$ 2.1354	\$ 3,410,661			\$ 3,410,661	196,000	\$ 2.1787	\$ 427,024
Mar-25	635,634			635,634	\$ 2.1354	\$ 1,357,304			\$ 1,357,304	89,000	\$ 2.1787	\$ 193,904
Total	6,062,970			6,062,970		\$ 12,946,592			\$ 12,946,592	902,000		\$ 1,965,180

Month/ Year	NNG Storage Volume (Dth)	NNG Index Price	NNG Index Cost		Month/ Year	ANR Storage Volume (Dth)	Emerson Index Price	Emerson Market Cost
Nov-24	635,634	\$ 2.2795	\$ 1,448,928		Nov-24	90,000	\$ 1.7170	\$ 154,530
Dec-24	1,597,234	\$ 3.6585	\$ 5,843,481		Dec-24	248,000	\$ 2.3960	\$ 594,208
Jan-25	1,597,234	\$ 5.1360	\$ 8,203,394		Jan-25	279,000	\$ 2.6510	\$ 739,629
Feb-25	1,597,234	\$ 5.0645	\$ 8,089,192		Feb-25	196,000	\$ 2.7420	\$ 537,432
Mar-25	635,634	\$ 2.7960	\$ 1,777,233		Mar-25	89,000	\$ 2.3960	\$ 213,244
Total	6,062,970		\$ 25,362,226		Total	902,000		\$ 2,239,043
Storage Savings (Cost):			\$ 12,415,634					\$ 273,863

*Indexes and projected WACOG based on 10/16/24 market prices and actual wacog through 9/2024

MINNESOTA ENERGY RESOURCES - NNG
Projected Hedged Cost - November 2024 through March 2025

Call/Put Options WACOG

Call/Put Options 10,000 Dth/contract

Nov-24															Dec-24															Jan-25															
Deal Number	Purchase Date	Trade Number	Number Contracts	Financial Volume	Strike Price	Strike Cost	Option Price	Option Cost	Pent Settle*	Pent Settle Cost	Over/(Under) Market	Premium Per Unit	Premium Cost	Total Cost	Deal Number	Purchase Date	Trade Number	Number Contracts	Financial Volume	Strike Price	Strike Cost	Option Price	Option Cost	Pent Settle*	Pent Settle Cost	Over/(Under) Market	Premium Per Unit	Premium Cost	Total Cost	Deal Number	Purchase Date	Trade Number	Number Contracts	Financial Volume	Strike Price	Strike Cost	Option Price	Option Cost	Pent Settle*	Pent Settle Cost	Over/(Under) Market	Premium Per Unit	Premium Cost	Total Cost	
1	05/15/24	123816	14	140,000	\$ 4.1500	\$ 581,000	\$ 2.3670	\$ 331,380	\$ 2.3670	\$ 331,380	\$ -	\$ 0.1000	\$ 14,000	\$ 345,380	1	05/17/24	123904	18	180,000	\$ 5.8000	\$ 1,044,000	\$ 2.8410	\$ 511,380	\$ 2.8410	\$ 511,380	\$ -	\$ 0.1000	\$ 18,000	\$ 529,380	1	05/20/24	123930	10	100,000	\$ 7.7500	\$ 775,000	\$ 3.1160	\$ 311,600	\$ 3.1160	\$ 311,600	\$ -	\$ 0.1000	\$ 10,000	\$ 321,600	
2	06/18/24	124420	13	130,000	\$ 4.6500	\$ 604,500	\$ 2.3670	\$ 307,710	\$ 2.3670	\$ 307,710	\$ -	\$ 0.0980	\$ 12,740	\$ 320,450	2	06/07/24	124704	18	180,000	\$ 6.1000	\$ 1,098,000	\$ 2.8410	\$ 511,380	\$ 2.8410	\$ 511,380	\$ -	\$ 0.1000	\$ 18,000	\$ 529,380	2	05/22/24	124037	11	110,000	\$ 7.7500	\$ 852,500	\$ 3.1160	\$ 342,760	\$ 3.1160	\$ 342,760	\$ -	\$ 0.1000	\$ 11,000	\$ 353,760	
3	07/16/24	125804	13	130,000	\$ 3.6000	\$ 468,000	\$ 2.3670	\$ 307,710	\$ 2.3670	\$ 307,710	\$ -	\$ 0.0970	\$ 12,610	\$ 320,320	3	07/18/24	125874	18	180,000	\$ 4.7500	\$ 955,000	\$ 2.8410	\$ 511,380	\$ 2.8410	\$ 511,380	\$ -	\$ 0.1000	\$ 18,000	\$ 529,380	3	06/13/24	124820	10	100,000	\$ 8.2500	\$ 825,000	\$ 3.1160	\$ 311,600	\$ 3.1160	\$ 311,600	\$ -	\$ 0.1000	\$ 10,000	\$ 321,600	
4	08/26/24	126877	12	120,000	\$ 3.0500	\$ 366,000	\$ 2.3670	\$ 284,040	\$ 2.3670	\$ 284,040	\$ -	\$ 0.0980	\$ 11,760	\$ 295,800	4	08/20/24	126876	17	170,000	\$ 4.2500	\$ 722,500	\$ 2.8410	\$ 482,970	\$ 2.8410	\$ 482,970	\$ -	\$ 0.0980	\$ 16,660	\$ 499,630	4	06/18/24	124939	9	90,000	\$ 7.6500	\$ 688,500	\$ 3.1160	\$ 280,440	\$ 3.1160	\$ 280,440	\$ -	\$ 0.1000	\$ 9,000	\$ 289,440	
5	09/06/24	127137	12	120,000	\$ 3.0000	\$ 360,000	\$ 2.3670	\$ 284,040	\$ 2.3670	\$ 284,040	\$ -	\$ 0.0920	\$ 11,040	\$ 295,080	5	09/11/24	127202	17	170,000	\$ 3.7500	\$ 637,500	\$ 2.8410	\$ 482,970	\$ 2.8410	\$ 482,970	\$ -	\$ 0.0950	\$ 16,150	\$ 499,120	5	07/22/24	125951	19	190,000	\$ 6.5000	\$ 1,235,000	\$ 3.1160	\$ 592,040	\$ 3.1160	\$ 592,040	\$ -	\$ 0.1000	\$ 19,000	\$ 611,040	
6	10/07/24	127843	12	120,000	\$ 3.0000	\$ 360,000	\$ 2.3670	\$ 284,040	\$ 2.3670	\$ 284,040	\$ -	\$ 0.0970	\$ 11,640	\$ 295,680	6	10/10/24	127927	17	170,000	\$ 3.6500	\$ 620,500	\$ 2.8410	\$ 482,970	\$ 2.8410	\$ 482,970	\$ -	\$ 0.0940	\$ 15,980	\$ 498,950	6	08/15/24	126551	19	190,000	\$ 5.7500	\$ 1,092,500	\$ 3.1160	\$ 592,040	\$ 3.1160	\$ 592,040	\$ -	\$ 0.1000	\$ 19,000	\$ 611,040	
7						\$ -	\$ -	\$ -	\$ 2.3670	\$ -	\$ -	\$ -	\$ -	\$ -	7						\$ -	\$ -	\$ -	\$ -	\$ 2.8410	\$ -	\$ -	\$ -	7	09/17/24	127296	19	190,000	\$ 4.8500	\$ 921,500	\$ 3.1160	\$ 592,040	\$ 3.1160	\$ 592,040	\$ -	\$ 0.1000	\$ 19,000	\$ 611,040		
8						\$ -	\$ -	\$ -	\$ 2.3670	\$ -	\$ -	\$ -	\$ -	\$ -	8						\$ -	\$ -	\$ -	\$ -	\$ 2.8410	\$ -	\$ -	\$ -	8	10/11/24	127938	19	190,000	\$ 4.7500	\$ 902,500	\$ 3.1160	\$ 592,040	\$ 3.1160	\$ 592,040	\$ -	\$ 0.1000	\$ 19,000	\$ 611,040		
9						\$ -	\$ -	\$ -	\$ 2.3670	\$ -	\$ -	\$ -	\$ -	\$ -	9						\$ -	\$ -	\$ -	\$ -	\$ 2.8410	\$ -	\$ -	\$ -	9						\$ -	\$ -	\$ -	\$ 3.1160	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
10						\$ -	\$ -	\$ -	\$ 2.3670	\$ -	\$ -	\$ -	\$ -	\$ -	10						\$ -	\$ -	\$ -	\$ -	\$ 2.8410	\$ -	\$ -	\$ -	10						\$ -	\$ -	\$ -	\$ 3.1160	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
11						\$ -	\$ -	\$ -	\$ 2.3670	\$ -	\$ -	\$ -	\$ -	\$ -	11						\$ -	\$ -	\$ -	\$ -	\$ 2.8410	\$ -	\$ -	\$ -	11						\$ -	\$ -	\$ -	\$ 3.1160	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
12						\$ -	\$ -	\$ -	\$ 2.3670	\$ -	\$ -	\$ -	\$ -	\$ -	12						\$ -	\$ -	\$ -	\$ -	\$ 2.8410	\$ -	\$ -	\$ -	12						\$ -	\$ -	\$ -	\$ 3.1160	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
13						\$ -	\$ -	\$ -	\$ 2.3670	\$ -	\$ -	\$ -	\$ -	\$ -	13						\$ -	\$ -	\$ -	\$ -	\$ 2.8410	\$ -	\$ -	\$ -	13						\$ -	\$ -	\$ -	\$ 3.1160	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
14						\$ -	\$ -	\$ -	\$ 2.3670	\$ -	\$ -	\$ -	\$ -	\$ -	14						\$ -	\$ -	\$ -	\$ -	\$ 2.8410	\$ -	\$ -	\$ -	14						\$ -	\$ -	\$ -	\$ 3.1160	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
15						\$ -	\$ -	\$ -	\$ 2.3670	\$ -	\$ -	\$ -	\$ -	\$ -	15						\$ -	\$ -	\$ -	\$ -	\$ 2.8410	\$ -	\$ -	\$ -	15						\$ -	\$ -	\$ -	\$ 3.1160	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total			76	760,000		\$ 2,739,500		\$ 1,798,920		\$ 1,798,920	\$ -		\$ 73,790	\$ 1,872,710	Total			105	1,050,000		\$ 4,977,500		\$ 2,983,050		\$ 2,983,050	\$ -		\$ 102,790	\$ 3,085,840	Total			116	1,160,000		\$ 7,292,500		\$ 3,614,560		\$ 3,614,560	\$ -		\$ 116,000	\$ 3,730,560	
NNG	63	82.89%	63	630,000	\$ 3.6046	\$ 2,270,901	\$ 2.3670	\$ 1,491,210	\$ 2.3670	\$ 1,491,210	\$ -	\$ 0.0971	\$ 61,168	\$ 1,552,378	NNG	87	82.86%	87	870,000	\$ 4.7405	\$ 4,124,214	\$ 2.8410	\$ 2,471,670	\$ 2.8410	\$ 2,471,670	\$ -	\$ 0.0979	\$ 85,169	\$ 2,556,839	NNG	97	83.62%	97	970,000	\$ 6.2866	\$ 6,098,039	\$ 3.1160	\$ 3,022,520	\$ 3.1160	\$ 3,022,520	\$ -	\$ 0.1000	\$ 97,000	\$ 3,119,520	
Other-Cons	13	17.11%	13	130,000	\$ 3.6046	\$ 468,599	\$ 2.3670	\$ 307,710	\$ 2.3670	\$ 307,710	\$ -	\$ 0.0971	\$ 12,622	\$ 320,332	Other-Cons	18	17.14%	18	180,000	\$ 4.7405	\$ 853,286	\$ 2.8410	\$ 511,380	\$ 2.8410	\$ 511,380	\$ -	\$ 0.0979	\$ 17,621	\$ 529,001	Other-Cons	19	16.36%	19	190,000	\$ 6.2866	\$ 1,194,461	\$ 3.1160	\$ 592,040	\$ 3.1160	\$ 592,040	\$ -	\$ 0.1000	\$ 19,000	\$ 611,040	
Total	76	100.0%	76	760,000	\$ 3.6046	\$ 2,739,500	\$ 2.3670	\$ 1,798,920	\$ 2.3670	\$ 1,798,920	\$ -	\$ 0.0971	\$ 73,790	\$ 1,872,710	Total	105	100.0%	105	1,050,000	\$ 4.7405	\$ 4,977,500	\$ 2.8410	\$ 2,983,050	\$ 2.8410	\$ 2,983,050	\$ -	\$ 0.0979	\$ 102,790	\$ 3,085,840	Total	116	100.0%	116	1,160,000	\$ 6.2866	\$ 7,292,500	\$ 3.1160	\$ 3,614,560	\$ 3.1160	\$ 3,614,560	\$ -	\$ 0.1000	\$ 116,000	\$ 3,730,560	

Feb-25															Mar-25															Total															
Deal Number	Purchase Date	Trade Number	Number Contracts	Financial Volume	Strike Price	Strike Cost	Option Price	Option Cost	Pent Settle*	Pent Settle Cost	Over/(Under) Market	Premium Per Unit	Premium Cost	Total Cost	Deal Number	Purchase Date	Trade Number	Number Contracts	Financial Volume	Strike Price	Strike Cost	Option Price	Option Cost	Pent Settle*	Pent Settle Cost	Over/(Under) Market	Premium Per Unit	Premium Cost	Total Cost	Deal Number	Purchase Date	%	Number Contracts	Financial Volume	Strike Price	Strike Cost	Option Price	Option Cost	Pent Settle*	Pent Settle Cost	Over/(Under) Market	Premium Per Unit	Premium Cost	Total Cost	
1	05/22/24	124038	18	180,000	\$ 8.9000	\$ 1,602,000	\$ 3.0270	\$ 544,860	\$ 3.0270	\$ 544,860	\$ -	\$ 0.1000	\$ 18,000	\$ 562,860	1	05/23/24	124074	14	140,000	\$ 8.5500	\$ 1,197,000	\$ 2.8010	\$ 392,140	\$ 2.8010	\$ 392,140	\$ -	\$ 0.1000	\$ 14,000	\$ 406,140	1				74	740,000	\$ 7.0257	\$ 5,199,000	\$ 2.8262	\$ 2,091,360	\$ 2.8262	\$ 2,091,360	\$ -	\$ 0.1000	\$ 74,000	\$ 2,165,360
2	06/19/24	124940	16	160,000	\$ 9.1500	\$ 1,647,000	\$ 3.0270	\$ 544,860	\$ 3.0270	\$ 544,860	\$ -	\$ 0.1000	\$ 16,000	\$ 562,860	2	06/24/24	125216	14	140,000	\$ 7.5500	\$ 1,057,000	\$ 2.8010	\$ 392,140	\$ 2.8010	\$ 392,140	\$ -	\$ 0.1000	\$ 14,000	\$ 406,140	2				74	740,000	\$ 7.1068	\$ 5,259,000	\$ 2.8363	\$ 2,098,850	\$ 2.8363	\$ 2,098,850	\$ -	\$ 0.0996	\$ 73,740	\$ 2,172,590
3	07/23/24	126007	18	180,000	\$ 7.2500	\$ 1,305,000	\$ 3.0270	\$ 544,860	\$ 3.0270	\$ 544,860	\$ -	\$ 0.1000	\$ 18,000	\$ 562,860	3	07/25/24	126124	13	130,000	\$ 5.8500	\$ 760,500	\$ 2.8010	\$ 364,130	\$ 2.8010	\$ 364,130	\$ -	\$ 0.0990	\$ 12,870	\$ 377,000	3				72	720,000	\$ 5.8521	\$ 4,213,500	\$ 2.8329	\$ 2,039,680	\$ 2.8329	\$ 2,039,680	\$ -	\$ 0.0993	\$ 71,480	\$ 2,111,160
4	08/13/24	126475	16	160,000	\$ 6.9000	\$ 1,104,000	\$ 3.0270	\$ 484,320	\$ 3.0270	\$ 484,320	\$ -	\$ 0.1000	\$ 16,000	\$ 500,320	4	08/07/24	126358	13	130,000	\$ 5.9000	\$ 767,000	\$ 2.8010	\$ 364,130	\$ 2.8010	\$ 364,130	\$ -	\$ 0.1000	\$ 13,000	\$ 377,130	4				67	670,000	\$ 5.4448	\$ 3,648,000	\$ 2.8297	\$ 1,895,900	\$ 2.8297	\$ 1,895,900	\$ -	\$ 0.0991	\$ 66,420	\$ 1,962,320
5	09/19/24	127457	16	160,000	\$ 5.3000	\$ 848,000	\$ 3.0270	\$ 484,320	\$ 3.0270	\$ 484,320	\$ -	\$ 0.0990	\$ 15,840	\$ 500,160	5	09/24/24	127614	13	130,000	\$ 5.3500	\$ 695,500	\$ 2.8010	\$ 364,130	\$ 2.8010	\$ 364,130	\$ -	\$ 0.0990	\$ 12,870	\$ 377,000	5				77	770,000	\$ 4.9039	\$ 3,776,000	\$ 2.8669	\$ 2,207,500	\$ 2.8669	\$ 2,207,500	\$ -	\$ 0.0973	\$ 74,900	\$ 2,282,400
6	10/14/24	128555	16	160,000	\$ 5.1500	\$ 824,000	\$ 3.0270	\$ 484,320	\$ 3.0270	\$ 484,320	\$ -	\$ 0.1000	\$ 16,000	\$ 500,320	6	10/16/24	128203	13	130,000	\$ 4.5000	\$ 585,000	\$ 2.8010	\$ 364,130	\$ 2.8010	\$ 364,130	\$ -	\$ 0.1000	\$ 13,000	\$ 377,130	6				77	770,000	\$ 4.5021	\$ 3,482,000	\$ 2.8669	\$ 2,207,500	\$ 2.8669	\$ 2,207,500	\$ -	\$ 0.0982	\$ 75,820	\$ 2,283,320
7						\$ -	\$ -	\$ -	\$ 3.0270	\$ -	\$ -	\$ -	\$ -	\$ -	7						\$ -	\$ -	\$ -	\$ -	\$ 2.8010	\$ -	\$ -	\$ -	7						\$ -	\$ -	\$ -	\$ 2.8010	\$ -	\$					