

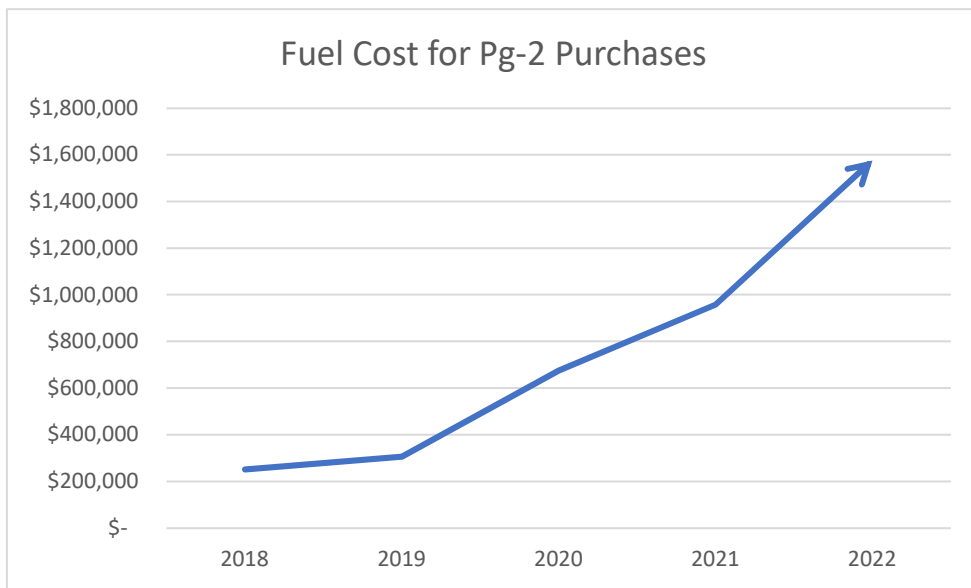
**Madison Gas and Electric Company
Docket 3270-UR-125**

Schedule 1 - Pg-2 Analysis

Public Service Commission of Wisconsin
RECEIVED: 4/28/2023 3:53:38 PM

Madison Gas and Electric Company
Historical Pg-2 Fuel Purchases
From Fuel Reports

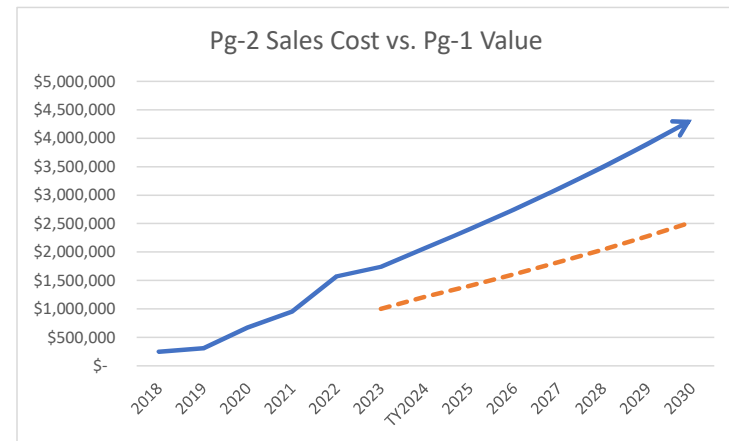
	<u>MWh's</u>		<u>Total \$</u>		<u>\$/MWH</u>
2018	2,249	\$	251,526	\$	112
2019	3,114	\$	306,508	\$	98
2020	6,282	\$	675,273	\$	107
2021	9,770	\$	958,132	\$	98
2022	10,618	\$	1,576,156	\$	148



Note:
EOY 2022: 2,133 Pg-2 customers, 373 additions in 2022.

Madison Gas and Electric Company
 Illustrative pricing trends: Pg-2 vs Pg-1

	Pg-2			Pg-1		Difference
	MWh's	Pg-2 Cost	\$/MWH	\$/Mwh	Pg-1 Value	
2018	2,249	\$ 251,526	\$ 112			
2019	3,114	\$ 306,508	\$ 98			
2020	6,282	\$ 675,273	\$ 107			
2021	9,770	\$ 958,132	\$ 98			
2022	10,618	\$ 1,576,156	\$ 148			
2023	13,425	\$ 1,743,785	\$ 130	\$ 75	\$ 1,002,168	\$ 741,617
TY2024	15,782	\$ 2,076,237	\$ 132	\$ 77	\$ 1,213,445	\$ 862,792
2025	17,740	\$ 2,403,930	\$ 136	\$ 79	\$ 1,404,963	\$ 998,967
2026	19,699	\$ 2,749,416	\$ 140	\$ 82	\$ 1,606,880	\$ 1,142,535
2027	21,658	\$ 3,113,467	\$ 144	\$ 84	\$ 1,819,648	\$ 1,293,819
2028	23,616	\$ 3,496,887	\$ 148	\$ 87	\$ 2,043,736	\$ 1,453,151
2029	25,575	\$ 3,900,510	\$ 153	\$ 89	\$ 2,279,631	\$ 1,620,879
2030	27,533	\$ 4,325,203	\$ 157	\$ 92	\$ 2,527,840	\$ 1,797,363



Notes:

2018 - 2022 based on fuel report actuals.

TY2023 for fuel planning assumed to be equal to 2021 actuals which was unreasonably below 2022 actuals; trend assumed for purposes of this analysis.

TY2024 values from 3270-UR-125 fuel plan.

TY2025 forward assumes 2022 MWH growth, and an annual 3% \$/mWh growth

TY2023 Pg-1 based on effective tariff, TY2024 and beyond assumes 3% \$/mWh growth

Madison Gas and Electric Company
 Incremental Fuel Savings Example

	<u>TY2022</u>
customers	2,133
MWH Sales	10,618
kWH/customer	4,978

	<u>Current Pg-1</u>
Base Energy:	\$0.06460
Capacity Adder:	<u>\$0.01005</u>
Total:	\$0.07465

<u>Average Customer - Incremental analysis</u>					
		<u>Pg-2 Rate</u>			<u>Pg-1 Rate</u>
		<u>2022</u>	<u>2023</u>	<u>TY2024</u>	
\$/kWh	\$	0.148	\$ 0.130	\$ 0.132	\$ 0.075
kWh		4,978	4,978	4,978	4,978
Cost	\$	739	\$ 647	\$ 655	\$ 372
<u>Difference from Pg-1</u>	\$	367	\$ 275	\$ 283	\$ -
<u>Extrapolate estimate to SIP participation example:</u>					
customers:		400	400	400	
annual fuel savings	\$	146,929	\$ 110,000	\$ 113,322	
Solar Incentive Provision:	\$	400,000	\$ 400,000	\$ 400,000	
Ratio SIP/Savings:		2.72	3.64	3.53	

Notes:

- Average incremental analysis assumes average MWH sales to MGE based on 2022 data.
- Sales volumes mix between customer classes may change substantially in any given year.
- Pg-1 Rates can change based on market conditions.

**Madison Gas and Electric Company Docket
3270-UR-125**

Schedule 2 - Sheet E-11.2.0 - Schedule Pg-2



Parallel Generation: Net Metering (Closed)

AVAILABILITY

This rate schedule is closed to new applicants on or after April 1, 2024. Exceptions to this closing date will be made for change in premise ownership, when a new applicant acquires ownership of electric generation facilities at a premises where a Pg-2 agreement was previously administered. Available to electric customers of the Company with their own electric generation facilities having an aggregate capability of producing 100 kW-AC or less of electricity, who want to connect their facilities in parallel with the Company's system, and who take service under another electric rate schedule of the Company. R

RATE

Deliveries from the Company to the customer will be billed in accordance with the standard applicable rate schedules of the Company.

If the amount of energy supplied to the Company exceeds the amount of energy consumed, the customer will receive a credit on their monthly bill equal to the net excess kilowatt-hours of energy received by the Company multiplied by the Energy Credit Rate, including any applicable adjustment for cost of fuel. Any credits to the customer will be reduced by the monthly customer charge and grid connection charge of the standard applicable rate schedule. Time-of-use customers' purchases and sales will be netted separately for each applicable pricing period.

<u>Customer's operation over the preceding 12 months</u>	
Nonhydroelectric:	
Net purchaser (or zero).....	Customer's Energy Rate
Net seller	Parallel Generation Buyback Rates (Sheet E-2.2)
Hydroelectric.....	Customer's Energy Rate

If a second meter is required for this rate schedule, the customer will pay the appropriate customer charge each month as follows in addition to any customer charges of the applicable retail rate schedule(s):

	<u>Per Day</u>
Single-phase	\$0.32210
Three-phase	\$0.38210

1. The only exception to this is a customer that has a second meter for billing because the customer was previously served on the Pg-4 rate schedule. In this case, the customer does not pay the cost of the second meter.

DETERMINATION OF NET SELLER STATUS

A customer's net seller status will be determined at the beginning of each month based on the previous 12 months of usage . If a customer has sold more kilowatt-hours of energy to the Company than they have purchased in this 12-month period then the customer will be considered a net seller for that month, otherwise the customer will be considered a net purchaser.

1. A customer will be considered a net purchaser if they have less than 12 months of service on this rate schedule.



Parallel Generation: Net Metering

PAYMENT

Payment is due not later than the due date shown on the bill. Any Company billing charges unpaid after the due date will be subject to a late payment charge as described in the Company's electric service rules under Late Payment Charge.

Customers with a net account credit may request a check to be issued by the Company no more frequently than once every 12 months.

1. Customers may request a check to be issued if their net account credit is greater than \$100.
2. Customers may request a check to be issued when they close their account.
3. All checks issued by the Company will be in the amount of the customer's net account credit.

SERVICE COMPATIBILITY

The customer must generate electric power at the same characteristic, voltage, current and frequency, and number of phases as the customer receives service from the Company and will be subject to the same electric service rules as are the general service customers of the Company.

Safety of the physical well-being of all persons will be paramount under all considerations and aspects of the construction, operation, and maintenance of generating equipment operated in parallel with the Company's system.

METERING AND SERVICE FACILITIES

The customer will provide, in writing, proof of compliance with all applicable local, state, and national electrical and safety codes. The customer will pay for the cost of building and/or rebuilding any Company facilities required to adequately accommodate, meter, and/or bill the parallel generation system. These costs may be paid by the customer over a time period not to exceed 24 months from billing by the Company. A finance charge will be added to all amounts not paid within 30 days of billing.

When necessary, flow of energy from the customer's generation facilities into the electrical system of the Company will be permitted with the meter of the Company allowed to run backwards.

INTERCONNECTION FACILITIES

The customer will furnish, install, operate, and maintain facilities such as manual lockable disconnect(s), relays, switches, synchronizing equipment, monitoring equipment, and control and protective devices designated by the Company as suitable for parallel operation with the Company system. Such facilities and schemes will be reviewed and approved by the Company prior to interconnection. Interconnection equipment designed to isolate the customer's generation from the Company's system will be accessible at all times to authorized Company personnel. All other equipment will be accessible to the Company periodically for routine testing.

Customer generation equipment will be of such design as to prevent undesirable effects upon the operation of standard services or equipment of the Company, its customers, or other utilities or agencies (for example, telephone, radio, or television interference, etc.). In all respects, the generation equipment and its connection to the Company's system will conform to the guidelines and interconnection rules in Wis. Admin. Code § PSC 119.04.



Parallel Generation: Net Metering

CONTRACT

The Company will require a contract specifying technical and operating aspects of parallel generation. Customers have the right to appeal to the PSCW if they believe the contract required by the Company is unreasonable.

STANDBY, MAINTENANCE, AND SUPPLEMENTAL POWER

For standby, maintenance, and supplemental power, the customer will purchase the energy under the applicable retail rate schedule. Maintenance of parallel generation equipment will be scheduled with the Company. Demand charges paid by the customer during the maintenance period will be prorated based on the number of days the equipment is out for maintenance .

LIABILITY OF THE PARTIES

The customer will secure and maintain liability insurance that provides protection against claims for damages resulting from (1) bodily injury, including wrongful death and (2) property damage arising out of customer's ownership and/or operation of the facility. The limits of the policy, at the lowest, will be the greater of \$300,000 per occurrence or the per occurrence level shown in Wis. Admin. Code 119.05 or the customer will prove financial responsibility by another method acceptable, and approved in writing, by the Company. The failure of the customer or the Company to enforce the minimum levels of insurance does not relieve the customer from maintaining such levels of insurance or relieve the customer of any liability. The customer will provide the Company with a certificate of insurance containing a minimum 30-day notice of cancellation prior to execution of this agreement.

Each of the parties will indemnify and save harmless the other party against any and all damages to persons or property occasioned, without the negligence of such other party, by the maintenance and operation by such parties of their respective lines and other electrical equipment.

RENEWABLE ENERGY CREDITS

All renewable energy credits and benefits, emissions allowances, or other renewable energy, air emissions, or environmental benefits for which the customer's generation project qualifies under any existing or future applicable law relating to the project will remain the property of the customer for any energy for which the customer receives a net energy credit on its monthly bill.

SPECIAL TERMS AND PROVISIONS

1. Any customer that is served on this schedule that is also served on RWE-1 or BWE-1 will have the contracted kWh amount specified in RWE-1 and BWE-1 calculated respective to the amount of energy delivered from the Company to the customer in excess of energy delivered from the customer to the Company. The amount of energy calculated in this way will not be calculated separately for any applicable pricing periods.
2. Interconnection applications received up to and on March 31, 2024, will continue to qualify for service under this rate schedule, provided that the installation and interconnection are completed on or before December 1, 2024. R

**Madison Gas and Electric Company Docket
3270-UR-125**

Schedule 3 - Sheet E-9.3.0 - Schedule SIP-1



Solar Incentive Provision

AVAILABILITY

Available to customers on Rate Schedule Pg-1 with electric generation facilities having an aggregate capability of producing 100 kW-AC or less of electricity and received Company authorization to energize such facilities on or after April 1, 2024. This provision is limited to 400 customer interconnections per year.

RATE

All the provisions of customer's otherwise applicable rate schedule will apply with the additional credits listed below. A customer will receive the following credit applied to the aggregate production capability of their solar photovoltaic facilities:

Solar incentive credit per kW-AC*: \$200

*Up to a maximum 5 kW credit (\$1,000) per customer interconnection.

SPECIAL TERMS AND PROVISIONS

1. Customers eligible for this provision will automatically be served on this provision.
2. This provision is only available to new facilities and is not available for capacity additions at existing facilities.
3. Credits will be issued as a bill credit within 90 days of the customer receiving Company authorization to energize their facilities.