

**BEFORE THE
PUBLIC SERVICE COMMISSION OF WISCONSIN**

Application of Madison Gas and Electric
Company for Authority to Change
Electric and Natural Gas Rates

Docket No. 3270-UR-123

APPLICATION

INTRODUCTION

Madison Gas and Electric Company (“MGE” or the “Company”) is pleased to submit its Application for Authority to Change Electric and Natural Gas Rates (the “Application”) pursuant to the statutory settlement process outlined in Wis. Stat. § 196.026. MGE and four of the intervening parties in the docket have executed the settlement agreement: Citizens Utility Board (CUB), Wisconsin Industrial Energy Group (WIEG), RENEW Wisconsin (RENEW), and the Board of Regents of the University of Wisconsin System (UW). MGE thanks all intervening parties for engaging in the collaborative settlement process. MGE also thanks Public Service Commission of Wisconsin staff for all of the work performed by staff prior to the filing of the Application. The settlement agreement incorporates all audit adjustments made by Commission staff. Notably, MGE, CUB, WIEG, RENEW, and UW worked together to submit a settlement agreement that includes a zero percent (0%) electric rate increase for customers in 2021 as we continue to battle the COVID-19 pandemic.

The comprehensive settlement is attached to this Application as Exhibit A, and incorporates an Appendix A (Settlement Terms), Appendix B (financial schedules), Appendix C (electric service schedules / tariffs), and Appendix D (natural gas service schedules / tariffs) (collectively, the “Settlement Agreement”). The Settlement Agreement is a carefully constructed

agreement generated by MGE and the intervening parties based on rounds of negotiation and compromise, and was facilitated by a thorough review of MGE's financial information by Commission staff.

MGE respectfully requests that the Public Service Commission of Wisconsin (the "Commission") approve the Settlement Agreement in its entirety, without modification, because:

- The four intervening parties that signed the Settlement Agreement adequately represent the public interest;
- The Settlement Agreement represents a fair and reasonable resolution in this rate case docket;
- The Settlement Agreement is supported by substantial evidence on the record as a whole;
- The Settlement Agreement complies with applicable law;
- The rates resulting from the Settlement Agreement are just and reasonable; and
- All parties in the docket will be given a reasonable opportunity to present evidence and arguments in opposition to the Settlement Agreement, to the extent applicable.

OVERVIEW OF SETTLEMENT AGREEMENT TERMS AND CONDITIONS

First and foremost, the Settlement Agreement includes a zero percent (0%) electric rate increase for customers in 2021. MGE again thanks CUB, WIEG, RENEW, UW, and Commission staff for all of the work to get to this result. As everyone continues to battle the COVID-19 pandemic, it was critical to avoid an electric rate increase.

Importantly, the Settlement Agreement also includes the addition of a number of new programs and services for MGE's customers, including, but not limited to:

- A pilot program containing a flat bill rate structure for residential electric customers. This pilot program is available to residential customers who wish to pay a flat monthly rate for electricity powered by renewable energy resources. Please see Attachment C, Schedule 1.

- An expansion of MGE’s Bring Your Own Device program to allow more residential customers to participate. Service under this voluntary program is available to electric customers who have an eligible smart thermostat connected to a central air-conditioning system and who have enrolled via the Company’s energy management platform. Please see Attachment C, Schedule 3.
- An Electric Vehicle Fleet Charging Pilot rate for customers who own or lease electric vehicles for fleets. Please see Attachment C, Schedule 21.

Finally, the Settlement Agreement also reflects the addition of two large solar projects to MGE’s generation portfolio – joint ownership of the Two Creeks and Badger Hollow I solar projects as approved by the Commission in Docket No. 5-BS-228. Like MGE’s Saratoga Wind Farm project in Iowa, which came online in 2019, the Two Creeks and Badger Hollow I solar projects help MGE reduce its fuel costs and the volatility associated with fuel costs.

SETTLEMENT AGREEMENT SATISFIES STATUTORY CRITERIA FOR APPROVAL

MGE, CUB, WIEG, RENEW, and UW present the Settlement Agreement to the Commission for approval. MGE submits that the standards identified in Wis. Stat. § 196.026(7) are met and asks the Commission to approve the Settlement Agreement in its entirety, without modification.

Section 196.026(7) states:

The commission may approve a settlement agreement under sub. (4) if all of following conditions are met:

- (a) All of the following have been given a reasonable opportunity to present evidence and arguments in opposition to the settlement agreement:
 1. Each party that has filed an objection or nonobjection to the settlement agreement under sub. (6).
 2. Each party whose failure to respond in writing constitutes a nonobjection to the settlement agreement under sub. (6).
- (b) The commission finds that the public interest is adequately represented by the parties who entered into the settlement agreement.

- (c) The commission finds that the settlement agreement represents a fair and reasonable resolution to the docket, is supported by substantial evidence on the record as a whole, and complies with applicable law, including that any rates resulting from the settlement agreement are just and reasonable.

MGE, CUB, WIEG, RENEW, and UW support and have executed the Settlement Agreement. These intervening parties blanket the spectrum of customer interests and adequately represent the public interest. Resulting from rounds of negotiations and compromise by all parties, the Settlement Agreement represents a fair and reasonable resolution in this rate case docket. The Settlement Agreement is supported by the substantial evidence contained in the attachments,¹ it complies with applicable law, and the rates contained in the agreement are just and reasonable. Indeed, this docket again demonstrates that the settlement process identified in Wis. Stat. § 196.026 can work efficiently and effectively to resolve matters before the Commission.

Consequently, MGE respectfully requests that the Commission approve the Settlement Agreement in its entirety, without modification.

Dated August 28, 2020.

STAFFORD ROSENBAUM LLP

/s/ Bryan Kleinmaier

By _____
Bryan Kleinmaier
Attorney for Applicant,
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¹ Concurrent with the filing of this Application, Scott Smith and Stacy Rhone of MGE are filing testimony in support of the Settlement Agreement, including verifying all of the information and schedules contained in the appendices.

EXHIBIT A

SETTLEMENT AGREEMENT

SETTLEMENT AGREEMENT

This settlement agreement (Agreement) is entered into as of this 28th day of August, 2020, by and among the following parties: Madison Gas and Electric Company (MGE), Citizens Utility Board (CUB), Wisconsin Industrial Energy Group (WIEG), RENEW Wisconsin (RENEW), and Board of Regents of the University of Wisconsin System (UW) (collectively, the “Parties” and individually a “Party”).

RECITALS

- A. MGE is an investor-owned public utility, as defined in Wis. Stat. § 196.01(5), which is engaged in the generation and distribution of electricity to approximately 155,000 customers in Dane County, and in the purchase, transportation and distribution of natural gas to customers in Columbia, Crawford, Dane, Iowa, Juneau, Monroe and Vernon Counties.
- B. MGE has initiated Docket No. 3270-UR-123 with the Public Service Commission of Wisconsin (PSCW or Commission), which docket is titled the Application of Madison Gas and Electric Company for Authority to Change Electric and Natural Gas Rates (Proceeding). The Proceeding is for test year 2021.
- C. CUB, WIEG, RENEW, UW, Airgas USA LLC, Clean Wisconsin, and Sierra Club have full party status in the Proceeding as intervenors pursuant to Wis. Admin. Code ch. PSC 2.21, and they constitute all of the intervening parties in the Proceeding.
- D. The Parties acknowledge that fully litigating the Proceeding would require a substantial investment of time, effort, and expense by each Party in pursuit of its respective interest in the Proceeding.
- E. The Parties wish to avoid the time, effort, expense, and uncertainty associated with a fully contested Proceeding by entering into this Agreement pursuant to Wis. Stat. § 196.026.
- F. This Agreement has resulted from arms’ length negotiations between and among the Parties.
- G. The Parties have been advised by counsel and are satisfied that the terms and conditions of this Agreement are fair, adequate, and reasonable.

NOW THEREFORE, in consideration of the promises and the mutual agreements contained in this Agreement, and other good and valuable consideration, the sufficiency of which the Parties acknowledge, the Parties agree as follows:

1. Settlement Terms. The settlement terms contained in **Attachments A, B, C, and D** attached hereto (Settlement Terms) comprise the Parties’ substantive agreement as to MGE’s base revenue requirements for test year 2021; MGE’s monitored fuel costs for 2021 pursuant to Wis. Admin Code ch. PSC 116, subject to the standard updates made for a utility fuel plan (*see*

Attachment A, Section C.1.); and rate design for MGE customers for test year 2021. The Settlement Terms represent the Parties' negotiated settlement of issues outstanding in the Proceeding, and are incorporated into, and are part of, this Agreement. The Settlement Terms are intended to address all issues in the Proceeding, subject to the standard updates made for a utility fuel plan (*see* Attachment A, Section C.1.). MGE will propose the Settlement Terms as support for the Commission's findings of fact, conclusions of law, order points, and opinion (as applicable) in the Proceeding.

2. Cooperation of the Parties. MGE will file an application with the PSCW in the Proceeding (Application) attaching this Agreement as an exhibit and seeking an order from the Commission consistent with this Agreement. The Parties will support the Application as reasonably requested by MGE, including by filing supportive testimony, briefing, or correspondence for, or otherwise advocating in favor of, the terms of this Agreement in the Proceeding. Subject to the requirement that the Parties support the Agreement, each Party determines for itself the language it will use in doing so. No Party will oppose, directly or indirectly, any aspect of this Agreement in any venue. If the Commission adopts part, but not all of this Agreement, or imposes one or more conditions on its approval of the Agreement, each Party will, within five business days of the relevant Commission open meeting, notify all of the other Parties whether the Party is willing to accept the Commission's decision. If one or more Parties indicate that they are not willing to accept the Commission's decision, all of the Parties will jointly or individually file a request for Commission rehearing or, alternatively should all the Parties agree, for a contested case evidentiary hearing. In either case, the Parties shall zealously advocate for the Commission's adoption of those portions of the Agreement that the Commission rejected and for the elimination of any conditions that the Commission imposed. If one or more Parties files a motion for rehearing, and such motion is rejected or otherwise denied, then all of the Parties, jointly or individually, will file a motion for a contested case hearing on the rejected portions of the Agreement and the conditions imposed by the Commission, and in such proceeding, shall support the Commission's adoption of those portions of the Agreement and deletion of the imposed conditions in an amended Commission order. Subject to the requirement that the Parties support the Agreement as specified in this Paragraph 2, each Party shall determine in its sole discretion the language contained in its submissions to the Commission or any other venue.

3. Precedential Effect of Settlement Terms. The Parties expressly intend that this Agreement is entered into solely for purposes of settling the outstanding issues in the Proceeding. The Parties agree that the substantive details of this Agreement will have no precedential effect on the Parties in later PSCW proceedings or bind the Commission's future decisions in any way except insofar as necessary to effectuate or enforce the terms of this Agreement.

4. Entire Agreement. This Agreement contains the entire agreement between the Parties with respect to the subjects addressed herein and on a going forward basis supersedes all prior agreements and understandings, express or implied. In entering into this Agreement, no Party is relying on any representation or consideration not expressed herein. Any modification of this Agreement may be made only by an instrument in writing signed by or on behalf of all the Parties hereto.


5. Signature by Counterparts. The Parties agree that this Agreement may be executed in counterparts and a signature by copy, facsimile, or PDF is as binding as an original signature.

6. Authority. The Parties represent and warrant that the individuals signing below for each Party have full power and authority to execute this Agreement.


7. Preamble. The Preamble and Recitals hereto are intended to be an integral part of this Agreement. The Preamble and Recitals hereto (including the definitions set forth therein) are hereby incorporated by reference.

[Signature pages follow]

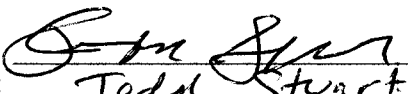
MADISON GAS AND ELECTRIC COMPANY

By: 
Name: Scott R. Smith
Title: Assistant Vice President
Business and Regulatory Strategy

CITIZENS UTILITY BOARD

By: 
Name: Thomas Content
Title: Executive Director

WISCONSIN INDUSTRIAL ENERGY GROUP

By: 
Name: Todd Stuart
Title: Executive Director
8-28-20

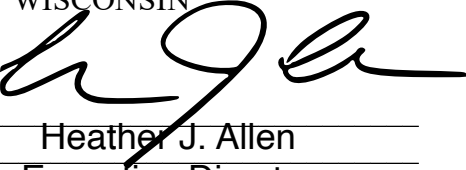
BOARD OF REGENTS OF THE
UNIVERSITY OF WISCONSIN SYSTEM

By:  _____

Name: Laurent Heller

Title: Vice Chancellor for Finance and Administration

RENEW WISCONSIN

By: 
Name: Heather J. Allen
Title: Executive Director

ATTACHMENT A

SETTLEMENT TERMS: PSCW DOCKET NO. 3270-UR-123

A. MGE's Retail Electric Revenue Requirements Generally

1. Overall rate changes for the test year ending December 31, 2021, are authorized consisting of a \$0.00 rate change for retail electric operations, a 0.00 percent change. To achieve a 0% rate increase for electric rates, the deferred account balance credit associated with MGE's 2019 fuel cost plan reconciliation has been incorporated into the settlement agreement. In addition, the settlement agreement contains escrow treatment for bad debt expense and pension and other post-employment benefit (OPEB) costs. Any adjustments for fuel that bring the overall revenue request below or above zero shall be offset by reducing or increasing, respectively, the amount of bad debt expense or pension and OPEB costs escrowed to 2022.
2. MGE's filed electric operating income statement, net investment rate base, and required return on net investment rate base for test year 2021, as agreed to by the Parties, are reasonable.

B. MGE's Retail Natural Gas Revenue Requirements Generally

1. Overall rate changes for the test year ending December 31, 2021, are authorized consisting of a \$6,670,000 annual increase for retail natural gas operations, a 4.00 percent increase. The settlement agreement contains escrow treatment for pension and OPEB costs. Per the escrow treatment, the increases for pension and OPEB costs are deferred to 2022.
2. MGE's filed natural gas operating income statement, net investment rate base, and required return on net investment rate base for test year 2021, as agreed to by the Parties, are reasonable.

C. MGE's Monitored Fuel Costs for 2021

1. It is reasonable that MGE's revenue requirements under this settlement agreement reflect estimated 2021 monitored fuel costs that will be updated with the following standard updates that occur with utility fuel cost plan filings:
 - a. Incorporate market prices for natural gas, oil, Locational Marginal Prices (LMP), Wisconsin Electric Power Company Purchased Power Agreement (PPA) volumes and prices, and anticipated gains or losses on hedging instruments as of a date determined by the Commission.
 - b. Reflect an update in MGE's wind curtailment cost forecast to incorporate most recent available data.

- c. Update PPA wind hourly generation profiles to most recent available data.
- d. Update LMP differential costs, net of Financial Transmission Rights (FTR), to reflect most recent available information.
- e. Update planned outage dates for generating units based on most recent available information.
- f. Update Midcontinent Independent System Operator, Inc. (MISO) settlement charges, rates, and credits to include most recent available information.
- g. Update MISO capacity sales and purchases to reflect the most recent auction.
- h. Update dispatch costs because of updates to the variable operations and maintenance expense rates for Blount, West Marinette (M34), and West Campus Cogeneration Facility.
- i. Reflect an update to delivered coal prices and heat content for Columbia and Elm Road.
- j. Reflect the electric sales and peak demand forecasts per Attachment C – Schedule 1, Electric Rate Design, of the settlement agreement.
- k. Update Elm Road Generating Station PROMOD inputs provided by Wisconsin Energy Corporation.

(collectively, the “Fuel Cost Plan Updates”).

Any change based on the Fuel Cost Plan Updates approved by the Commission will be reflected in the overall revenue requirement authorized for 2021 monitored fuel costs, and the 2021 monitored fuel cost plan will utilize an annual bandwidth of plus or minus one percent, as provided in Wis. Admin. Code §116.06(3). (See Attachment B, Schedule 11).

- 2. It is reasonable that, if requested, MGE provide additional information supporting its 2021 fuel cost plan in accordance with Wis. Adm. Code Ch. PSC 116.

D. Material Operating Changes Affecting Revenue Requirements Since MGE’s Last Rate Proceeding

- 1. It is reasonable for MGE to escrow pension and OPEB costs, including the 2019/2020 pension and OPEB costs deferral in Docket No. 3270-AF-101 PSC REF # 373819. The escrow mechanism is a fair mechanism for the customer and the shareholder in the situation where costs vary dramatically from year to year, such as with pension and OPEB costs. MGE will continue to manage the funding of its pension and OPEB plans in line with the Company’s current practice. The updated

amount will be deferred to 2022 as reflected in Attachment B, Schedule 10 to this settlement agreement.

2. It is reasonable that MGE's 2021 retail revenue requirement include the estimated impacts of joint ownership of the Two Creeks and Badger Hollow I solar projects as approved by the Commission in Docket No. 5-BS-228 (PSC REF # 364436).
3. It is reasonable for MGE to escrow bad debt expenses, including costs incurred in 2020 per docket 5-AF-105 PSC REF # 389500. (See Attachment B, Schedule 10).
4. It is reasonable for MGE to escrow credit card convenience fees, including costs incurred in 2020 per docket 5-AF-105 PSC REF # 389500. (See Attachment B, Schedule 10).
5. It is reasonable for MGE to defer other costs incurred in 2020 due to the Public Health Emergency not specifically listed above per docket 5-AF-105 PSC REF # 389500 to a future rate proceeding. (See Attachment B, Schedule 10).
6. It is reasonable for MGE to return 100 percent of the electric unprotected balance sheet savings as ordered in Docket No. 5-AF-101 (PSC REF # 373697). (See Attachment B, Schedule 10).
7. It is reasonable for MGE to accrue Allowance for Funds Used During Construction (AFUDC) on 100 percent of Construction Work in Progress (CWIP) associated with projects requiring a Certificate of Authority (CA) or a Certificate of Public Convenience and Necessity (CPCN) that were not reflected as current return CWIP projects in this proceeding upon approval of a CA or CPCN by the Commission.

E. MGE's Operating Income Statement

1. Overall rate changes for the test year ending December 31, 2021, are authorized consisting of a \$0.00 rate change for retail electric operations, a 0.00 percent change. To achieve a 0% rate increase for electric rates, the deferred account balance credit associated with MGE's 2019 fuel cost plan reconciliation has been incorporated into the settlement agreement. In addition, the settlement agreement contains escrow treatment for bad debt expense and pension and OPEB costs. Any adjustments for fuel that bring the overall revenue request below or above zero shall be offset by reducing or increasing, respectively, the amount of bad debt expense or pension and OPEB costs escrowed to 2022.
2. Presently authorized rates for MGE's retail electric utility operations will produce total operating revenues of \$413,056,000 in test year ending December 31, 2021, which results in an adjusted net operating income of \$70,882,000, which is insufficient. (See Attachment B, Schedule 1).

3. For MGE's retail electric operations, the estimated rate of return on average net investment rate base of \$1,019,083,000 at current rates subject to the Commission's jurisdiction for the test year is 6.96 percent, which is insufficient. (See Attachment B, Schedule 1 and 3).
4. A reasonable decrease in operating revenue for test year 2021 to produce a return of 6.96 percent return (See Attachment B, Schedule 6) on MGE's average net investment rate base for MGE's retail electric operations is \$0 (See Attachment B, Schedule 8).
5. MGE's Retail Electric Operating Income Statement for test year 2021, as reflected in Attachment B, Schedule 1, to this Agreement is reasonable.
6. Presently authorized rates for MGE's retail gas utility operations will produce total operating revenues of \$167,023,000 in test year ending December 31, 2021, which results in an adjusted net operating income of \$15,126,000, which is insufficient. (See Attachment B, Schedule 2).
7. For MGE's retail gas operations, the estimated rate of return on average net investment rate base of \$282,360,000 at current rates in the test year ending 2021, subject to the Commission's jurisdiction for the test year is 5.36 percent, which is insufficient. (See Attachment B, Schedule 2 and 4).
8. A reasonable increase in operating revenue for the test year to produce a return of 7.08 percent return (See Attachment B, Schedule 7) on MGE's average net investment rate base for MGE's retail gas operations for the test year ending 2021 is \$6,670,000 (See Attachment B, Schedule 9).
9. MGE's Retail Gas Operating Income Statements for test year 2021, as reflected in Attachment B, Schedule 2, to this Agreement is reasonable.
10. The fuel cost data in Attachment B, Schedule 11 will be used to monitor MGE's 2021 fuel costs. This amount is subject to change based only on the Fuel Cost Plan Updates approved by the Commission.
11. It is reasonable that MGE's revenue requirements under this settlement agreement reflect estimated 2021 monitored fuel costs that will be updated based on the Fuel Cost Plan Updates approved by the Commission. Any change between the estimate and the final approved fuel cost plan will be reflected in the overall revenue requirement authorized for 2021. Monitored fuel costs will utilize an annual bandwidth of plus or minus one percent, as provided in Wis. Admin. Code §116.06 (3). (See Attachment B, Schedule 11).
12. It is reasonable that, if requested, MGE provide additional information supporting its 2021 fuel cost plan in accordance with Wis. Adm. Code Ch. PSC 116.

13. MGE's Operating and Maintenance (O&M) expenses are reasonable. (See Attachment B, Schedule 1 and 2).
14. It is reasonable to maintain escrow treatment for the retail share of all of MGE's transmission costs in Account 565. (See Attachment B, Schedule 10).
15. It is reasonable to authorize escrow treatment for Pension and OPEB Costs in Account 926. (See Attachment B, Schedule 10).
16. It is reasonable to authorize escrow treatment for Bad Debt Expense in Account 904. (See Attachment B, Schedule 10).
17. It is reasonable to authorize escrow treatment for Credit Card Convenience Fees in Account 903. (See Attachment B, Schedule 10).
18. MGE is requesting recovery of capital expenditures related to combustion turbines over a four-year period. (See Attachment B, Schedule 10).
19. It is reasonable to no longer escrow SO₂ amortizations which is a non-monitored fuel cost due to the immaterial amount of the balance which is currently less than \$5.
20. MGE has incorporated into settlement agreement the deferred account balance credit associated with MGE's 2019 fuel cost plan reconciliation per docket 3270-FR-2019 (PSC REF # 394952). (See Attachment B, Schedule 10).
21. Regulatory asset and liability amortizations as reflected in Attachment B, Schedule 10, are reasonable.

F. MGE's Capital Structure, Return on Equity, and Dividend Restriction

1. It is reasonable for MGE to maintain its currently authorized Return on Equity of 9.8 percent.¹ (See Attachment B, Schedule 5).
2. It is reasonable for MGE to maintain a target level for the test-year average common equity measured on a financial capital structure basis of 55.00 percent. (See Attachment B, Schedule 12).
3. It is reasonable for MGE to maintain a regulatory capital structure and average weighted cost of capital for the 2021 test-year period as shown in Attachment B, Schedule 5.

¹ Application of Madison Gas and Electric Company for Authority to Change Electric and Natural Gas Rates, Final Decision, PSCW Docket No. 3270-UR-122 (December 20, 2018) (PSC REF # 355887).

4. It is reasonable that MGE's dividend restrictions be based on the financial capital structure in this proceeding.
5. A reasonable weighted average composite cost (WACC) of capital is 7.21 percent for 2021. (See Attachment B, Schedule 5).

G. Rate and Service Changes with Associated Revenue Adjustments

1. It is reasonable to allocate revenue responsibility and designing rates amongst the various customer classes in the same manner as in Docket No. 3270-UR-122 (PSC REF # 355887) to mitigate different rate impacts amongst the classes. It is reasonable to implement the electric rate design changes proposed in Attachment C, Schedule 1 and natural gas rate design changes proposed in Attachment D, Schedule 1.
2. It is reasonable for MGE to pilot a flat bill rate structure for residential electric customers. (See Attachment C, Schedule 1).
3. It is reasonable for MGE to include interruptible service in the Sp-3 rate schedule and to revise the Customer Maximum Demand Charge and Customer Maximum 15 minute Demand Charge in a revenue neutral manner as agreed to with the customer that receives service on this schedule. (See Attachment C, Schedule 2).
4. It is reasonable for MGE to offer a Bring Your Own Device program to electric customers. (See Attachment C, Schedule 3).
5. It is reasonable for MGE to remove the mandatory service requirement in the Residential Time-of-Use Rate (Rg-2) and allow each mandatory service customer the choice of remaining on Rg-2 or enrolling in a different rate schedule under which they qualify for service. (See Attachment C, Schedule 4).
6. It is reasonable for MGE to close the Residential Time-of-Use Rate (Rg-2) to new customers and allow existing customers to remain on Rg-2. (See Attachment C, Schedule 4).
7. It is reasonable for MGE to offer a Residential Optional Time-of-Use Rate (Rg-2A) to residential electric customers. (See Attachment C, Schedule 4).
8. It is reasonable for MGE to close the Small Commercial and Industrial Optional Time-of-Use Rate (Cg-3) to new customers and allow existing customers to remain on Cg-3. (See Attachment C, Schedule 5).
9. It is reasonable for MGE to include optional service under the Commercial and Industrial Time-of-Use Rate (Cg-4) to any customer that would otherwise receive service under the Cg-5, Cg-3, or Cg-7 rate schedules. (See Attachment C, Schedule 5).

10. It is reasonable for MGE to remove Level A and Level B from the Cg-4 rate schedule. (See Attachment C, Schedule 5).
11. It is reasonable for MGE to remove all Primary Discount Provision language from the Cg-4, Cg-8, Cg-2, Cg-2A, Cg-6, and Cg-6A rate schedules and offer a Primary Voltage Provision (PVP-1) to electric customers. (See Attachment C, Schedule 7).
12. It is reasonable for MGE to modify the availability and applicability of primary service discounts in the Primary Voltage Provision (PVP-1) relative to the existing Primary Discount Provision in the applicable rate schedules. (See Attachment C, Schedule 7).
13. It is reasonable for MGE to offer a PV Connect (PV-1) rate to electric customers. (See Attachment C, Schedule 8).
14. It is reasonable for MGE to terminate the Cg-2A, Cg-6A, Is-1, Is-2, SCS, MBP, VGC, and AGS rate schedules. (See Attachment C, Schedule 9).
15. It is reasonable for MGE to modify its Electric Service Rules and Regulations: Customer-Owned Generating Equipment (E-67) and include a clarification on the interconnection of customer-owned batteries. (See Attachment C, Schedule 19).
16. It is reasonable for MGE to modify BGS tariff language to clarify the available initial term language and applicability (See Attachment C, Schedule 6).
17. It is reasonable for MGE offer an Electric Vehicle Fleet Charging Pilot rate for customers who own or lease electric vehicles for fleets. (See Attachment C, Schedule 21).
18. It is reasonable for MGE to amend electric service tariffs as reflected throughout Attachment C.
19. It is reasonable for MGE to issue a new Electric Rates and Rules volume with a new sheet numbering system and reordered tariffs. (See Attachment C, Schedule 10).
20. It is reasonable for MGE to amend natural gas service tariffs as reflected throughout Attachment D.
21. It is reasonable for MGE to continue to work with the Citizens Utility Board and the Wisconsin Industrial Energy Group in 2020 and 2021 on new rates or other innovative utility programs targeted at industrial, residential, and small commercial customers, respectively.

22. It is reasonable for MGE to continue to work with the Citizens Utility Board and Clean Wisconsin to develop new pilot rate programs and propose any agreed upon pilots to the Commission.
23. It is reasonable for MGE to build upon its existing practice and, prior to its next rate application filing, provide CUB with the results of a detailed household burden index analysis. This analysis shall evaluate residential electric and natural gas utility customer bills as a percentage of household income.
24. It is reasonable to include Real Time Pricing and Other Tariff-Cleanup relating to the customer baseline (CBL) used to determine the portion of a customer's load that can be subject to the New Load Market Pricing (NLMP) tariff for energy and/or billing demands, as defined in the tariff. The revisions provided that the CBL may be permanently decreased when the customer reduces its load through the implementation of energy efficiency, conservation, or process improvement measures, or via the installation of new equipment (i.e. behind the meter generation) so as to remove a disincentive for undertaking these activities. (See Attachment C, Schedule 22).

ATTACHMENT B
FINANCIAL SCHEDULES:
PSCW DOCKET NO. 3270-UR-123

Attachment B

Schedule 1: Income Statement Applicable to Net Investment Rate Base – Electric

Schedule 2: Income Statement Applicable to Net Investment Rate Base – Gas

Schedule 3: Average Net Investment Rate Base – Electric

Schedule 4: Average Net Investment Rate Base – Gas

Schedule 5: Weighted Cost of Capital

Schedule 6: Percent Return Requirement on Net Investment Rate Base – Electric

Schedule 7: Percent Return Requirement on Net Investment Rate Base – Gas

Schedule 8: Revenue Requirement – Electric

Schedule 9: Revenue Requirement – Gas

Schedule 10: Amortization Schedule

Schedule 11: Monitored Fuel Costs

Schedule 12: Financial Capital Structure

Madison Gas and Electric Company
Docket No. 3270-UR-123
Income Statement Applicable to Net Investment Rate Base
Electric

line no.		UR-123 Test Year 2021 (\$000's)
	<i>Operating Revenues:</i>	
1	Sales of electricity	\$ 393,997
2	Sales for resale	3,561
3	Other operating revenues	15,498
4	Total Operating Revenues	<u>\$ 413,056</u>
	<i>O&M Expenses</i>	
	<i>Power Production Expenses</i>	
5	-Fuel and Purchased Power	\$ 84,201
6	-Other production expenses	71,222
7	Transmission expenses	44,185
8	Distribution expenses	17,194
9	Customer accounts expenses	10,134
10	Customer service expenses	10,481
11	Administrative & general	41,497
12	Total Operation and Maintenance Expense	<u>\$ 278,914</u>
13	Depreciation and amortization	\$ 59,369
14	Taxes other than income	16,506
15	Deferred income taxes	219
16	Income taxes	(11,592)
17	Investment tax credit	(1,242)
18	Total Operating Expenses	<u>\$ 342,174</u>
19	Net Operating Income - Electric	<u><u>\$ 70,882</u></u>
20	Average rate base (\$000)	\$ 1,019,083
21	Return on investment in rate base	6.96%

Madison Gas and Electric Company
Docket No. 3270-UR-123
Income Statement Applicable to Net Investment Rate Base
Gas

line no.	UR-123	
	Test Year 2021	
	<u>(\$000's)</u>	
	<i>Operating Revenues:</i>	
1	Sales of gas	\$ 166,625
2	Other operating revenues	398
3	Total Operating Revenues	<u>\$ 167,023</u>
	<i>O&M Expenses:</i>	
	<i>Gas Production Expenses</i>	
4	-Purchased gas	\$ 83,363
5	-Other	744
6	Distribution expenses	12,705
7	Customer accounts expenses	8,882
8	Customer Services Expenses	5,428
9	Administrative & general	20,282
10	Total O&M Expense	<u>\$ 131,404</u>
11	Depreciation and amortization	\$ 14,352
12	Taxes other than income	3,056
13	Deferred income taxes	4,653
14	Income taxes	(1,559)
15	Investment tax credit	(9)
16	Total Operating Expenses	<u>\$ 151,897</u>
17	Net Operating Income - Gas	<u><u>\$ 15,126</u></u>
18	Average rate base (\$000)	\$ 282,360
19	Return on investment in rate base	5.36%

Madison Gas and Electric Company
Docket No. 3270-UR-123
Average Net Investment Rate Base
Electric

line no.		UR-123
		Test Year 2021 (\$000's)
1	Utility Plant in Service	\$ 1,684,165
2	Less: Accumulated Depreciation	571,848
3	Net Utility Plant in Service	<u>\$ 1,112,317</u>
4	Add: Fuel Inventory	8,068
5	Materials and Supplies	22,166
6	Less: Accumulated Deferred Income Taxes	121,736
7	Customer Advances	<u>1,732</u>
8	Average Net Investment Ratebase	<u><u>\$ 1,019,083</u></u>

Madison Gas and Electric Company
Docket No. 3270-UR-123
Average Net Investment Rate Base
Gas

line no.		UR-123 Test Year 2021 (\$000's)
		<hr/>
1	Utility Plant in Service	\$ 527,777
2	Less: Accumulated Depreciation	214,574
3	Net Utility Plant in Service	<hr/> \$ 313,203 <hr/>
4	Add: Gas in Storage Inventory	6,408
5	Materials and Supplies	4,728
6	Less: Accumulated Deferred Income Taxes	39,630
7	Customer Advances	<hr/> 2,349 <hr/>
8	Average Net Investment Ratebase	<hr/> <hr/> \$ 282,360 <hr/> <hr/>

Madison Gas and Electric Company
Docket No. 3270-UR-123
Weighted Cost of Capital Calculation
(2021 Test Year Period)

line no.	Capital Structure Component	2021			
		Amount (000's)	Percentage of Capital Structure	Capital Cost Rates	Weighted Cost of Capital
1	Common Stock Equity	720,651	55.84%	9.80%	5.47%
2	Long Term Debt	508,149	39.37%	4.29%	1.69%
3	Short Term Debt	61,779	4.79%	1.00%	0.05%
4	Weighted Cost of Capital (WACC)	<u>1,290,579</u>	<u>100.00%</u>		<u>7.21%</u>
5	Income Taxes on Equity Component				<u>2.05%</u>
6	Ratepayer Cost of Capital				<u>9.26%</u>
	Interest Coverages				
7	Before Tax Coverage				5.32
8	After Tax Coverage				4.14

Madison Gas and Electric Company
Docket No. 3270-UR-123
Percent Return Requirement on Net Investment Rate Base
Electric

<u>line no.</u>		<u>UR-123 Test Year 2021</u>
1	Weighted Cost of Capital	7.21%
2	Ratio of Average Net Investment Rate Base Plus CWIP to Capital Applicable Primarily to Utility Operations Plus Deferred Investment Tax Credit	104.59%
3	Adjusted Cost of Capital to Derive Percent Return Requirement Applicable to Average Net Investment Rate Base	6.90%
4	Average CWIP Balance (000's)	65,061
5	Less: CWIP Earnings 100% AFUDC	46,487
6	Remaining CWIP Earning a Current Return	<u>18,574</u>
7	Percentage of Remaining CWIP to Earn a Current Return	50%
8	Average CWIP Earning a Current Return	9,287
9	Adj. to Adj. Weighted Cost of Capital to Provide a Current Return on CWIP	0.06%
10	Required Return on Net Investment Rate Base	<u><u>6.96%</u></u>

Madison Gas and Electric Company
Docket No. 3270-UR-123
Percent Return Requirement on Net Investment Rate Base
Gas

<u>line no.</u>		<u>UR-123 Test Year 2021</u>
1	Weighted Cost of Capital	7.21%
2	Ratio of Average Net Investment Rate Base Plus CWIP to Capital Applicable Primarily to Utility Operations Plus Deferred Investment Tax Credit	104.59%
3	Adjusted Cost of Capital to Derive Percent Return Requirement Applicable to Average Net Investment Rate Base	6.90%
4	Average CWIP Balance (000's)	17,319
5	Less: CWIP Earnings 100% AFUDC	2,378
6	Remaining CWIP Earning a Current Return	<u>14,941</u>
7	Percentage of Remaining CWIP to Earn a Current Return	50%
8	Average CWIP Earning a Current Return	7,471
9	Adj. to Adj. Weighted Cost of Capital to Provide a Current Return on CWIP	0.18%
10	Required Return on Net Investment Rate Base	<u><u>7.08%</u></u>

Madison Gas and Electric Company
Docket No. 3270-UR-123
Revenue Requirement
Electric

<u>line no.</u>		<u>UR-123 Test Year 2021</u>
1	Pro Forma Return on Average Net Investment Rate Base at Present Rates	6.96%
2	Required Return on Average Net Investment Rate Base	6.96%
3	Earnings (Excess) Deficiency as a Percent of Average Net Investment Rate Base	<u>0.00%</u>
4	Average Net Investment Rate Base (000's)	\$ 1,019,083
5	Amount of Earnings (Excess) Deficiency on Average Net Investment Rate Base (000's)	<u>\$ -</u>
6	Revenue (Excess) Deficiency to Provide for Earnings (Excess) Deficiency Plus Federal and State Income Taxes (000's)	<u><u>\$ -</u></u>

Madison Gas and Electric Company
Docket No. 3270-UR-123
Revenue Requirement
Gas

<u>line no.</u>		<u>UR-123 Test Year 2021</u>
1	Pro Forma Return on Average Net Investment Rate Base at Present Rates	5.36%
2	Required Return on Average Net Investment Rate Base	7.08%
3	Earnings (Excess) Deficiency as a Percent of Average Net Investment Rate Base	<u>1.72%</u>
4	Average Net Investment Rate Base (000's)	\$ 282,360
5	Amount of Earnings (Excess) Deficiency on Average Net Investment Rate Base (000's)	<u>\$ 4,853</u>
6	Revenue (Excess) Deficiency to Provide for Earnings (Excess) Deficiency Plus Federal and State Income Taxes (000's)	<u><u>\$ 6,670</u></u>

Madison Gas and Electric Company
Amortization Schedule
3270-UR-123

	PSCW Escrow Authorization	Notes	Amortization Period	Test Year 2021 Amortization Amount		Estimated Balance at 12/31/2021 Deferral Balance (Gross of Tax)	
				Electric	Gas	Electric	Gas
ERGS	3270-GF-110	1	2021	30,245,644	-	(1)	-
Transmission	Various	1	2021	35,784,442	-	1	-
Conservation Escrow (Focus on Energy)	Various	1	2021	4,836,719	1,974,257	(1)	-
Columbia Agreement	05-BS-214	1	2021	(2,315)	-	-	-
Columbia Percentage Ownership	3270-UR-121	1	2021	(433,367)	-	(1)	-
Combustion Turbine	Requesting		2021 - 2024	298,512	-	895,536	-
Forward Wind Farm	5-BS-226	1	2021	41,765	-	-	-
Pension and OPEB Costs	3270-AF-101 & Requesting		2021	4,409,664	(746,694)	5,020,311	6,341,531
Public Health Emergency - Credit Card Convenience Fees	5-AF-105 & Requesting	2	2021	245,000	255,000	-	-
Public Health Emergency - Bad Debt Expenses	5-AF-105 & Requesting	2	2021	1,825,000	375,000	-	-
Public Health Emergency - Late Payments	5-AF-105	2		-	-	-	-
Public Health Emergency - Other	5-AF-105	2		-	-	-	-
Excess Deferred Taxes - Estimated Protected (Tax Reform)	5-AF-101		2021	(4,874,291)	(436,839)	(75,057,563)	(28,438,803)
Excess Deferred Taxes - Estimated Unprotected (Tax Reform)	5-AF-101	3	2021	(18,195,254)	-	-	4,188,050
2019 Fuel Rules Deferral	3270-FR-2019		2021	(1,866,160)	-	-	-
Miscellaneous Liability	Various		2021	(464,055)	(53,387)	-	-
Totals				<u>\$ 51,851,303</u>	<u>\$1,367,338</u>	<u>\$ (69,141,718)</u>	<u>\$ (17,909,222)</u>

(1) MGE true-ups the prior year balance each rate case.

(2) 2020 amounts are currently accruing and not included in the 2021 ending balance.

(3) MGE is proposing to recover the gas unprotected excess deferred taxes in a future rate case.

Negative = Regulatory Liability

Positive = Regulatory Asset

Negative = Reduction of expense

Positive = Addition of expense

Madison Gas and Electric Company
Docket 3270-UR-123
Monthly Fuel Data for Monitoring Fuel Costs
January 2021 through December 2021 Test Year
Based on the PSC-Audited 2021 Fuel Cost Plan (2021CaseE)

Month	Fuel Costs	kWh	\$/kWh	Cumulative \$/kWh
January	\$ 5,527,617	273,016,519	\$ 0.020246	\$ 0.020246
February	\$ 4,923,495	241,696,389	\$ 0.020371	\$ 0.020305
March	\$ 5,446,997	256,938,931	\$ 0.021200	\$ 0.020603
April	\$ 4,967,331	240,071,556	\$ 0.020691	\$ 0.020624
May	\$ 4,918,507	254,230,396	\$ 0.019347	\$ 0.020367
June	\$ 5,602,593	284,180,801	\$ 0.019715	\$ 0.020248
July	\$ 6,557,098	316,785,135	\$ 0.020699	\$ 0.020324
August	\$ 6,123,189	305,816,147	\$ 0.020022	\$ 0.020282
September	\$ 5,655,860	283,854,256	\$ 0.019925	\$ 0.020241
October	\$ 5,029,458	249,368,553	\$ 0.020169	\$ 0.020234
November	\$ 4,702,962	243,342,134	\$ 0.019327	\$ 0.020159
December	\$ 5,405,709	262,358,907	\$ 0.020604	\$ 0.020195
Total	\$ 64,860,818	3,211,659,723	\$ 0.020195	

Madison Gas and Electric Company
3270-UR-123
Financial Capital Structure

The Commission's long-standing policy of supporting MGE's commitment to credit quality for the benefit of both its customers and its shareholders has been recognized by the credit rating agencies and the financial markets. MGE believes its 55 percent test-year average common equity as measured on a financial capital structure basis is the cornerstone to this policy and remains reasonable.¹

MGE made a conscious commitment to strong credit ratings decades ago. Likewise, MGE believes that the Commission, through its long-standing financial capital structure policy limiting MGE's leverage to 45 percent, has shown a similar level of support of a healthy MGE balance sheet. MGE believes these long-term commitments to MGE's strong financial foundation have protected MGE and its customers during times of severe financial market volatility, such as what we are currently experiencing with the COVID-19 outbreak. In times of financial stress, *access to the capital markets is critical*. MGE believes that, for a smaller sized utility, it's even more critical to have access to capital, than say larger sized utility, with a significantly bigger balance sheet. MGE believes that, given its strong credit rating, it is able to offset the small issuer premium assessed by the market. This allows MGE access to the market and issue debt at a lower cost, at similar coupons to what a larger issuer would receive. Given our current economic state, and the uncertainty of how long and how deep the current recession will be, the investment community places more importance now more than ever on a companies' respective capital structures and return on equity

MGE believes its capital structure provides a credit quality differentiation from its industry peers, a very important factor when raising capital. Capital markets view capital structure and required returns holistically when evaluating an investment. The required returns for both equity and debt will increase as leverage grows within a capital structure. The Commission's long-standing support of MGE's strong capital structure and excellent credit quality has thereby benefited both its customers and shareholders.

Below are excerpts from **Moody's** Credit Summary for MGE dated October 2019.

*"We view the Wisconsin regulatory environment as well as MG&E's constructive relationship with the PSCW as **highly credit supportive**". The positive regulatory environment and a constructive relationship between MG&E and the PSCW allow for good revenue and cash flow visibility and timely operating and capital cost recovery. These regulatory factors have*

¹ Per 3270-UR-121 (PSC REF # 295447) Order point #20 states: MGE shall submit in its next rate application, information to assist the Commission in determining whether the 55 percent target for the test-year average common equity measured on a financial capital structure basis remains reasonable.

historically supported healthy credit metrics, including a cash flow from operations pre-working capital (CFO pre-WC) to debt ratio averaging around 30% for the three years ending 31 December 2017.

Factors that Could Lead to a Downgrade

- *The rating of MG&E could be lowered if the credit supportiveness of its regulatory environment deteriorates or if financial metrics experience a marked and sustained downward revision relative to our current view, including cash flow from operations pre-working capital (CFO Pre-WC) to debt below 25% on a sustained basis.*

S&P's Credit Summary of MGE dated March 2020 reflected similar support:

*“We rate MG&E one notch higher than the 'A+' GCP because of the strength of its stand-alone credit profile and the **regulatory and structural protections**, insulating MG&E from its parent.”*

Downside Scenario

- *“We could lower our ratings on MG&E over the next 12 to 24 months if MG&E's stand-alone financial measures weaken.”*

MGE believes the 55 to 60 percent target range for the test-year average common equity measured on a financial capital structure basis remains reasonable for MGE for the following reasons.

1. Reducing the targeted equity range would weaken MGE's credit metrics and likely trigger a downgrade to MGE's credit ratings. A credit rating downgrade for MGE would result in higher cost of debt and reduce MGE's access to the capital markets during periods of financial market volatility.
2. A lower equity range could signal to the respective Rating Agencies deterioration in the credit supportiveness of the regulatory environment. The perceived supportiveness of Wisconsin's regulatory environment by the ratings agencies would likely have long standing ramifications on all rated utilities that operate in Wisconsin. The respective financial metrics for all rated utilities in the state would thereafter be held to a higher standard to maintain existing ratings. These more stringent financial requirements could be sufficient to trigger downgrades for other Wisconsin utilities – increasing the cost of debt and equity financings for the state moving forward.
3. A downgrade in MGE's credit rating would increase more than the cost of debt. It would also increase fees MGE pays for its credit facilities and may require MGE to post additional collateral to its counterparties. A requirement to tie-up cash as collateral would further weaken MGE's liquidity rating with the Rating Agencies and create additional negative pressure on MGE's credit ratings.

Given all the reasons stated above, MGE believes a 55 percent test-year average common equity measured on a financial capital structure basis remains reasonable and provides for a stronger utility, which in the long-run benefits its ratepayers.

Madison Gas and Electric Company

Docket 3270-UR-123

ATTACHMENT C

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Schedule #:	Schedule Name:	Pages:	Documents
1	Flat Bill Pilot	1 2-4	Program Description Tariff Language
2	SP-3 Credit for Capacity Availability	1 2	Program Description Tariff Language
3	Bring Your Own Device Service	1 2-3	Program Description Tariff Language
4	Residential Service Changes	1 2-3 4-6	Description of Changes Rg-2 tariff language Rg-2a new tariff
5	Commercial and Industrial Tariff Changes	1 2-3 4-5 6-8	Description of Changes Cg-5 tariff language Cg-3 tariff language Cg-4 tariff language
6	BGS Update	1 2-4	Description of Change BGS tariff language
7	Primary Voltage Discount	1 2-5	Description of Changes Tariff Provision Language
8	PV-1	1 2-5	Program Description PV-1 tariff language
9	Retired Schedules	1	List of Unused Tariffs being Retired
10	Tariff Reorganization	1	Statement of Tariff Organization Plan

Madison Gas and Electric Company

Docket 3270-UR-123

ATTACHMENT C

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Schedule #:	Schedule Name:	Pages:	Documents
11	Electric Revenue Summary	1 2	Overall Description of Rates and Unbundled Study Summary of Revenue by Class
12	Residential Rates	1 2 3 4 5 6 7 8	Residential Rate Design Description Unbundled Cost of Service Study - Residential Page Rg-1 Rate Design Sheet Rg-2 (Closed) Rate Design Sheet Rg-2A Design Sheet Rg-2a Rate Components Rw-1 (Closed) Rate Design Sheet Rg-7 (Closed) Rate Design Sheet
13	Small Commercial and Industrial Rates	1 2 3	Cg-5 Rate Design Sheet Cg-3 (Closed) Rate Design Sheet Cg-7 (Closed) Rate Design Sheet
14	Medium Commercial and Industrial Rates	1 2 3 4	Cg-4 Rate Design Description Cg-4 Rate Design Sheet (A and B combined) Cg-4 Components compared with Cg-2, 6 at Proposed Cg-8 (Closed) Rate Design Sheet
15	Large Commercial and Industrial Rates	1 2 3	Large C&I Rate Design Description Cg-2 Rate Design Sheet Cg-6 Rate Design Sheet
16	Cp-1	1 2	Cp-1 Rate Design Description Cp-1 Rate Design Sheet
17	Sp-3	1 2-3	SP-3 Rate Design Description Sp-3 Rate Design Sheet
18	Streetlighting and Outdoor Overhead Lighting	1-8 9	SL-1, 2, 3 Rate Design Sheet OL-1 Rate Design Sheet
19	Application Process for Battery Interconnection	1 2	Summary of proposed change Rule Section language
20	Other Lighting and Miscellaneous	1 2 3	Gf-1 Rate Design Sheet Mg-2 Rate Design Sheet MLS Rate Design Sheet
21	Electric Vehicle Fleet Pilot 1	1 2	Description of Service Proposed tariff
22	RNL-1 Energy Reduction Adjustment	1-6	Proposed tariff change

Madison Gas and Electric Company

Docket 3270-UR-123

Attachment C

Schedule 1

Flat Bill Pilot

Renewable Flat Bill Pilot Program

RFB

New Program

Tariff Changes

Clarifications: No
Program Changes: New Program

Summary Points:

- Flat Monthly Rate
- Tranche Billing
- Renewable Overlay

Overview:

This pilot program is available to residential customers that voluntarily wish to pay a flat monthly rate for electricity powered by renewable energy resources. Availability is (initially) capped at 30 accepted Renewable Flat Bill amount bill offers. Enrolled customers will pay a monthly Flat Bill in lieu of the Grid Connection and Customer Service Charge, the Distribution Service Charge, and the Electricity Service Charge under rate schedule Rg-1 for a 12-month period. Customers electing to take service under this program will automatically be enrolled in the Company's Residential Renewable Energy Program and will pay the associated incremental Renewable Energy Charge for the maximum kWh of their Service Category.

Eligible residential customers will be placed into a specific service category (based on expected usage) for the duration of a 12-month period. On a yearly basis, the Company will re-analyze each customers usage, which will then be used to determine the Flat Bill Service Category the participating customers will belong to in the coming year.

Customers with monthly usage in excess of the Flat Bill Service Categories may participate in the Voluntary Pilot Program at the discretion of the Company. A Monthly Flat Bill will be personalized in consideration of individual historic usage characteristics, applicable rates, and risk profile as determined at the Company's discretion.

We expect continuous evaluation of program performance. As MGE's new billing system is implemented, we may file for expansion of the RFB program at a future date.

Tranche Billable kWh	Customer Charge \$ per day \$0.62466	Distribution Charge \$ per kWh \$0.03378	Summer Electric Charge \$ per kWh \$0.10472	Winter Electric Charge \$ per kWh \$0.09355	GPT Charge \$ per kWh \$0.01000	Calculated Rate \$ per month	Proposed Rate \$ per month
100	\$19.00	\$3.38	\$3.49	\$6.24	\$1.00	\$33.11	\$33.50
200	\$19.00	\$6.76	\$6.98	\$12.47	\$2.00	\$47.21	\$47.50
300	\$19.00	\$10.13	\$10.47	\$18.71	\$3.00	\$61.32	\$61.50
400	\$19.00	\$13.51	\$13.96	\$24.95	\$4.00	\$75.42	\$75.50
500	\$19.00	\$16.89	\$17.45	\$31.18	\$5.00	\$89.53	\$90.00
600	\$19.00	\$20.27	\$20.94	\$37.42	\$6.00	\$103.63	\$104.00
700	\$19.00	\$23.65	\$24.43	\$43.66	\$7.00	\$117.74	\$118.00
800	\$19.00	\$27.02	\$27.93	\$49.89	\$8.00	\$131.84	\$132.00
900	\$19.00	\$30.40	\$31.42	\$56.13	\$9.00	\$145.95	\$146.00
1000	\$19.00	\$33.78	\$34.91	\$62.37	\$10.00	\$160.05	\$160.50

High Usage Formula:

$$Flat\ Bill = \frac{[(\sum_{Mo=1}^{Mo=12} [Qm(1 + Qf)]) \times (Ec + Dc + Rc)] + 365(CGc)] \times (1 + Rp)}{12}$$

*Ec will be a weighted average of the seasonal Summer and Winter Electricity Service Rates

<u>Flat Bill Adders</u>		<u>Billable kWh</u>	<u>Calculated Rate</u>
Usage Deviation	5%	1500	\$245.98
Guaranteed Adder	2%	2000	\$321.52

AVAILABILITY

This schedule is available to residential customers that voluntarily wish to pay a flat monthly rate for electricity powered by renewable energy resources. To be eligible, customers must have electric service at their premise for a minimum of 12 consecutive prior billing months. Participation is limited to customers in good standing with the Company. Customers must be eligible to receive service under rate schedule Rg-1.

This is a voluntary pilot program. Availability is capped at 30 accepted Renewable Flat Bill amount bill offers. Offers will be made at the sole discretion of the Company. This program can be modified by the Company subject to approval by the Public Service Commission of Wisconsin.

RATE

Customers will pay a monthly Flat Bill in lieu of the Grid Connection and Customer Service Charge, the Distribution Service Charge, and the Electricity Service Charge under rate schedule Rg-1 for a 12-month period. Customers electing to take service under this program will automatically be enrolled in the Company's Residential Renewable Energy Program and will pay the associated incremental Renewable Energy Charge for the maximum kWh of their Service Category. Customers taking service under this program are not subject to additional fuel adjustment surcharges otherwise applicable under rate schedule Rg-1. All other terms of service for rate schedule Rg-1 are applicable.

MONTHLY FLAT BILL

A Monthly Flat Bill amount bill offer will be tailored in consideration of the individual customer's historic usage characteristics and applicable Rg-1 Residential Service rates. Eligible residential customers will be placed into a specific service category for the duration of a 12-month period. On a yearly basis, the Company will re-analyze each customers usage, which will then be used to determine the Flat Bill Service Category the participating customers will belong to in the coming year.

FLAT BILL SERVICE CATEGORIES AND MONTHLY RATES

Average kWh 0-100	Average kWh 101-200	Average kWh 201-300	Average kWh 301-400	Average kWh 401-500	Average kWh 501-600	Average kWh 601-700	Average kWh 701-800	Average kWh 801-900	Average kWh 901-1000
\$33.50	\$47.50	\$61.50	\$75.50	\$90.00	\$104.00	\$118.00	\$132.00	\$146.00	\$160.50

HIGH USAGE CUSTOMERS

Customers with monthly usage in excess of the Flat Bill Service Categories may participate in the Voluntary Pilot Program at the discretion of the Company. A Monthly Flat Bill will be personalized in consideration of individual historic usage characteristics, applicable rates, and risk profile as determined at the Company's discretion. The Monthly Flat Bill will be developed using the following factors.

- Qm = Weather normalized usage
- Qf = Usage deviation risk adjustment
- Ec = Weighted Seasonal Electricity Service charges from rate schedule Rg-1
- Dc = Distribution Service charge from rate schedule Rg-1
- Rc = Renewable Energy Charge from rate schedule RWE-1

e. CGc = Daily Customer Service and Grid Connection charges from rate schedule Rg-1

f. Rp = Guaranteed amount adder at a maximum value of 10 percent or less

Formula:

$$\text{Flat Bill} = \frac{[(\sum_{Mo=1}^{Mo=12} \{ [Qm(1 + Qf)] \times (Ec + Dc + Rc) \}) + 365(CGc)] \times (1 + Rp)}{12}$$

CONTRACT DURATION AND RENEWAL

Contract Terms will be for a period of 12 consecutive billing months. All contracts will be evaluated and updated on an annual basis, and customers that are eligible for a renewal contract offer will automatically be enrolled in the following consecutive Contract Term unless they notify the Company of their option to terminate service under this program within 30 days of receiving the renewal contract offer.

SPECIAL TERMS AND PROVISIONS

1. Customers that move from their service address prior to the end of the contract term will be trued up to the difference between their actual usage under rate schedule Rg-1 and the amount billed under this program. If customers overpaid, they will be refunded. If customers underpaid, they will be billed the difference.
2. Customers who remain at their service address who wish to withdraw from the program prior to the end of the contract term may do so. They will be placed on Rg-1 service and be required to pay an administrative fee of \$30. Their bills for the time they were on the annual contract prior to withdrawal from the program will be trued up to the difference between their actual usage under rate schedule Rg-1 and the amount billed under this program. If customers overpaid, they will be refunded. If customers underpaid, they will be billed the difference.
3. If customer's recorded kWh use at the end of 6 months exceeds expected usage by at least 50 percent, the Company may at its discretion remove the customer from the program and place the customer on RG-1 service prior to the end of the contract term. The customer will be required to pay an administrative fee of \$30. Their bills for the time they were on the annual contract prior to prior to being removed from the program will be trued up to the difference between their actual usage under rate schedule Rg-1 and the amount billed under this program. Customers that underpaid will be billed the difference.
4. In the 11th month of the program, customers will be notified on their new monthly Flat Bill amount and will have the option of declining enrollment for the upcoming year.
5. This program is subject to the Special Terms and Provisions specified in Rate Schedule, RWE-1.

WAIVER

Any customer choosing to be served under this program thereby waives all rights to any billing adjustments arising from a claim that a bill for a customer's service would be cheaper on any alternative rate schedule for any period of time, including any rights under Wisconsin Administrative Code PSC 113.

Madison Gas and Electric Company

Docket 3270-UR-123

Attachment C

Schedule 2

Sp-3 Credit for Capacity Availability

University of Wisconsin Time-of-Use Rate

Sp-3

Existing Program

Tariff Changes

Clarifications: No
Program Changes: Yes

Summary Points:

- Interruptible service will be incorporated into the Sp-3 schedule.
- As requested by the customer, \$250,000 of revenue recovery has been moved from the Customer and Grid Connection Charge to the Customer Maximum 15-Minute Demand Charge

Overview:

The Sp-3 schedule will be modified to include interruptible service. This interruptible service will be structured similarly to MGE's current interruptible programs, Is-3 and Is-4.

This interruptible service will include both a firm and interruptible nomination. MGE will be responsible for notifying the customer when an interruption is to occur and which nomination the customer is responsible for, firm or interruptible. The monthly interruptible credit will use the current Is-4 rate and will apply to the greater interruptible demand using both nominations.

The University of Wisconsin, the single customer in this rate class, requested that Customer and Grid Connection Charge be decreased somewhat and the projected amount of revenue reduction from that change be picked up in demand charges. The Company has agreed to shift revenue recovery of approximately \$250,000 from the Customer and Grid Connection Charge to the Customer Maximum 15-Minute Demand Charge. This change has no change in overall revenue recovery at forecasted demand levels in this case. If, however, the customer is able to reduce their maximum 15-Minute Demand level from what is forecasted, they could achieve savings in the test year.

The following language will be added to Sp-3:

INTERRUPTIBLE CREDIT

The on-peak demand charges for electricity service will be reduced by \$0.13151 per kW per day for the amount of interruptible demand as described in the Determination of Demand provision.

DETERMINATION OF DEMAND

4. The amount of generation used to determine the generation credit is the amount of generation nominated by the customer for each calendar month up to the kW capacity of its generator. The nomination is due from the customer each year 15 days prior to the end of February for the subsequent calendar year. If the customer does not provide a nomination by the February deadline, the most recent effective nomination will prevail, subject to the testing provisions contained in Special Terms and Provisions No. 2.

5. The amount of interruptible demand used to determine the interruptible credit will be the greater of the following:

a. The difference between the maximum on-peak 15-minute demand and the nominated firm demand level ("firm nomination") to a minimum of zero.

a.b. The lesser of the maximum on-peak 15-minute demand and the nominated interruptible demand level ("interruptible nomination").

5.6. Power Factor. The customer will maintain a power factor during periods of on-peak energy use of not less than 85 percent as determined by measurement or test. If the power factor determined by such test or measurement is less than 85 percent, the customer will be so notified in writing. If, within 240 days of such notice, the customer has not installed such power factor corrective devices of proper type as are required to bring the power factor during periods of on-peak energy use up to 85 percent, the measured on-peak kW demands used for billing purposes thereafter will be determined by multiplying the registered on-peak demand in kW by the ratio: 85 percent/actual power factor.

SPECIAL TERMS AND PROVISIONS

7. The customer will be subject to interruptions at the sole discretion of the Company. An interruption will be called by the Company in order to maintain the reliability of the power system or to reduce system costs that may have otherwise been incurred. The customer will not be able to buy out of an interruption.

a. The customer's nomination includes both a firm demand level ("firm nomination") and an interruptible demand level ("interruptible nomination").

i. The customer's firm nomination is 61,000 kW.

ii. The customer's interruptible nomination is 1,000 kW.

b. The customer will be notified by the Company when an interruption is to occur. The Company will have the sole discretion on the length of interruption and the amount of time between notification and actual interruption with the following conditions:

i. The length of an interruption may not exceed 8 hours unless an extension to the interruption is agreed to by the customer.

- ii. The customer's firm nomination is only applicable when notification is provided at least 12 hours in advance of the actual interruption.
- iii. The customer's interruptible nomination is only applicable when notification is provided at least 4 hours in advance of the actual interruption.
- iv. There will be no more than 150 hours of interruptions in a calendar year (not including test interruptions). Interruptions due to lightning, wind, necessary MGE system maintenance repairs, and other causes other than intentional load curtailment interruptions by the Company will not be considered in determining the hours of interruption. If the total hours of requested interruptions exceed 80 percent of the maximum hours of interruption during any calendar year, the Company reserves the right to manage the remaining available interruptible hours to best meet the Company's capacity needs for the remainder of the year.
- c. After receiving notification by the Company of an interruption, the customer must reduce their demand according to whichever nomination, firm or interruptible, was called for by the Company.
- d. The Company will perform periodic testing (on average annually) of the customer's ability to interrupt the amount of demand stated in this schedule. Failure to successfully comply with a test interruption may result in adjustments to the customer's interruptible nomination. The customer will pay the full demand charge (no interruptible credit will be applied) to the level of capacity that was not interrupted in the test until the customer successfully complies with a Company authorized interruption test for the entire contracted interruption capacity at a later date. Failure of an initial test will not affect the charges for unauthorized use included below.
- e. The customer may schedule up to two weeks of annual maintenance for any equipment necessary to comply with these provisions. During this period, the Company will not exercise its right to interrupt electric service to the customer. The customer must notify the Company at least two weeks prior to any maintenance periods. Maintenance periods must be approved by the Company and will not be scheduled during the months of June, July, August, or September. Scheduled annual maintenance will not reduce any interruptible demand credits to the customer.
- f. The customer will, at the customer's expense, install all apparatus and materials necessary for the proper utilization of the power furnished by the Company including disconnect mains and monitoring equipment. All such apparatus will conform to the Company's rules and regulations and will be kept in suitable operating conditions at all times.
- g. The customer will pay the full demand charge (no interruptible credit will be applied) for the first instance of unauthorized use of electricity during an interruption. The monthly credit will not be applied to the associated level of demand until the customer successfully complies with a Company-authorized interruption test for the entire contracted interruption capacity. Along with the loss of the monthly credit, the customer will also pay \$25 per kilowatt for each additional instance during any continuous 12-month period of unauthorized use of electricity during a period of interruption of service ordered by the Company. The Company may suspend the interruptible portion of this service if the customer uses service during period of interruption.
- h. The customer will pay, in advance of construction, all costs estimated by the Company for facilities to serve the interruptible load.
- a.i. Interruptible service will not be used as standby for any other forms of energy or fuel.

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Attachment C

Schedule 3

Bring Your Own Device Service

Bring Your Own Device Service Rider

BYOD-1

New Program

Summary Points:

- Incentives for MGE control of customer-owned smart thermostats.
- A demand response program.

Overview:

Service under this voluntary rider is available to MGE electric customers that have an eligible smart thermostat connected to a central air-conditioning system and who have enrolled via the Company's energy management platform. This service will apply for a minimum of 12 months and any customer that terminates this service after 12 months may not re-enroll in the program for 12 months from the date of termination.

Customers enrolled in this program will have their thermostats controlled by the Company in order to reduce electrical demand during high electricity demand periods ("Events"). These events will typically take place during peak hours in the months of June, July, August, and September. The program is limited to 20 events per year and 4 hours per event. Customers will be able to opt-out of an event at any time unless the event is a Mandatory Event which will occur when the North American Electric Reliability Corporation ("NERC") declares a Level 2 Alert for the Company's service territory.

A one-time payment of \$50 will be provided to the customer after they have enrolled in the program. Additionally, a payment of \$25 will be provided for every summer of participation beginning with the second summer. These payments are designed to incentivize customers to help reduce system costs by providing them value for their contribution less any costs to administrate the program.

AVAILABILITY

This is an optional rate schedule available to customers on Rate Schedules Rg-1 and Rg-2 who have installed a "Qualified Device".

QUALIFIED DEVICE

For the purposes of this tariff, a Qualified Device is defined as a device that satisfies each of the following criteria:

1. The device is compatible and enrolled with the Company's energy management platform (the "Platform"). A list of compatible devices is made available on the Company's website.
2. The device is owned by the customer responsible for the electric account from which the device is served.
3. The device is connected to a reliable Internet connection.
4. The device meets all the applicable Additional Qualifications listed in this schedule.

ADDITIONAL QUALIFICATIONS

Option 1: Smart Thermostat:

1. There is a participation limit of 2,500 devices under this option.
2. The thermostat controls a functioning central air-conditioning system.
2. Customers may enroll multiple thermostats but incentives will be provided per air conditioning unit controlled. Customers with multiple air conditioning units may be eligible for multiple incentives.

RATE

All deliveries from the Company to the customer will be billed in accordance with the customer's otherwise applicable rate schedules.

The customer will receive an incentive for each Qualified Device enrolled in the Platform according to the following rates:

Option 1: Smart Thermostat:

One-time enrollment, per device	\$50.00
Summer participation, per device per summer*	\$25.00

*The one-time enrollment incentive includes the first summer participation incentive. A summer participation incentive will not be provided separately for the first summer of enrollment.

INTERNET ACCESS

Communication between Qualified Devices and the Company is achieved via the Platform by using the customer's Internet connection, which the customer will maintain.

EQUIPMENT CONTROL

The customer agrees to provide the Company with the ability to control the Qualified Device, via the Platform, in order to reduce electrical demand during high electricity demand periods ("Events").

Option 1: Smart Thermostat:

1. Events will typically take place during peak hours on non-holiday weekdays between June 1 and September 30.
2. Mandatory Events may take place in other months and/or at other times of the day.
3. Some events may be preceded by a decrease in the thermostat in order to pre-cool the customer's home.
4. No more than 20 events will be called per customer per year.
5. An event will last no more than 4 hours.
6. Customers may opt-out of an event at any time unless the event is a Mandatory Event as defined below.

MANDATORY EVENT

The Company will only dispatch a Mandatory Event if the North American Electric Reliability Corporation ("NERC") declares Level 2 Alerts for the Company's service territory, as defined by NERC's Reliability Standard EOP-002-2.

SPECIAL TERMS AND PROVISIONS

Option 1: Smart Thermostat:

1. This option will apply for a minimum of 12 months, starting with the first full billing month after the customer enrolls via the Platform.
2. If a customer has previously enrolled in this option and withdrawn, they may not reenroll until 12 full billing months after they last withdrew.
3. The one-time enrollment incentive will be provided once per customer per residence. Customers with multiple air conditioning units may be eligible for multiple incentives.
4. For the purposes of this option summer is defined as June 1 through September 30. Customers are eligible for the summer participation credit if they enrolled on or before September 30 and remained enrolled until October 1. The summer participation incentive will not be provided or prorated for customers that withdraw from the rate schedule before October 1.
5. The Company, in its sole discretion, may remove the customer from this option in the case of poor performance whether the performance in question was intentional or due to equipment malfunction.
6. The Company, in its sole discretion, may terminate this option at any time.

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Attachment C

Schedule 4

Residential Service Tariffs

Residential Services

Rg-2, Rg-2a

New Program

Tariff Changes

Clarifications: Yes
Program Changes: Yes

Summary Points:

- Move to more cost-based rates in new service along with frozen rates for existing rate classes in this case
- New cost-based Time of Use service opened. Old penalty rate based Time of Use closed but available to existing customers in class who choose to remain
- Both TOU schedules changed to Optional-only (no Mandatory)

Overview:

As noted in schedule 12, the unbundled cost of service study was used to guide rate design for new service, with options provided to customers. Rather than trying to affect customer use patterns through rate design, MGE is moving to optional services to provide rewards for actions that help reduce overall cost or resource impacts that benefit all customers and moving away from peak period rates that are substantially higher than cost. BYOD (Schedule 2) was developed to provide a reward-based service. A new time-of-use rate schedule, Rg-2A, has been developed to better follow costs with its rate design. The old time-of-use schedule will not be eliminated but will be closed to new customers, allowing existing customers to decide which service to choose. All time-of-use service will be optional for customers, as cost impacts for large use customers are not commodity related.

Existing rates will remain unchanged in this rate proceeding.

AVAILABILITY

This rate schedule is for residential customers, subject to conditions of availability as specified in Rate Schedule Rg-1, as follows:

~~**Mandatory:** This rate schedule is mandatory for nonfarm, single family, residential units with average daily usage of 130 kWh per day or more during the summer billing season.~~

~~This rate schedule is closed to new applicants on and after January 1, 2021.~~

~~**Optional:** This rate schedule is optional for all other residential customers who qualify for residential service on this rate schedule, were on this service prior to January 1, 2021 and wish to remain on this service. Those customers who wish to be served on this rate schedule on an optional basis must apply to the Company for service. Once an optional customer begins service on this rate schedule, that customer will remain on the rate for a minimum of one year. In 2015, optional customers on this rate schedule can move to the Rg-7 rate schedule prior to being on the rate for a minimum of one year.~~

RATE

	Summer	Winter
Grid connection and customer service charge per day	\$0.62466	\$0.62466
Distribution service: All kWh, per kWh	\$0.03378	\$0.03378
Electricity service:		
On-peak period 1 energy adder, per kWh	\$0.18522	\$0.14546
On-peak period 2 energy adder, per kWh	\$0.22088	\$0.13800
On-peak period 3 energy adder, per kWh	\$0.18320	\$0.17167
Base energy all kWh, per kWh	\$0.04122	\$0.04122

Summer rates are effective from June 1 through September 30. All other times of the year winter rates are effective.

MINIMUM MONTHLY CHARGE

The minimum monthly charge will be the grid connection and customer service charge multiplied by the number of days in the billing period.

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.

PRICING PERIOD DEFINITIONS

On-Peak Period 1	10 a.m. through 1 p.m.: Monday through Friday, excluding holidays.
On-Peak Period 2	1 p.m. through 6 p.m.: Monday through Friday, excluding holidays.
On-Peak Period 3	6 p.m. through 9 p.m.: Monday through Friday, excluding holidays.
Base Energy Period	Includes all hours of all days.
Holidays	New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving, and Christmas.

CHARACTER OF SERVICE

A customer will be classified as residential in accordance with the Company's standard classifications set forth in its rates and rules and will receive service in conformance with all rules and regulations pertaining to that classification.

SPECIAL TERMS AND PROVISIONS

1. This rate schedule will apply for a minimum of one year from the date consumption under this tariff is initiated.
2. Any customer choosing to be served on this rate schedule thereby waives all rights to any billing adjustments arising from a claim that the bill for the customer's service would be cheaper on any alternative rate schedule for any period of time, including any rights under Wis. Admin. Code § PSC 113.0406(4), Reg. January 2004, No. 577.
3. If the time-of-use customer does not have an outside meter, a key must be provided to the Company or other provisions must be made to ensure access to the meter by Company personnel during normal working hours.
- ~~4. If an optional customer moves or is forced to move, the customer has the option to retain time-of-use billing at the new premises. If the customer decides to discontinue time-of-use billing, the Company will offer time-of-use billing to the next customer on the waiting list.~~
- ~~5. If an optional customer, upon expiration of a full year on this rate schedule, decides to discontinue time-of-use billing, the Company will offer time-of-use billing to the next customer on the waiting list.~~
46. Where two or more residential units are on a single meter, one customer charge will be applied for each four residential units or fraction thereof in the premises.
- ~~7. The mandatory time-of-use rate will no longer apply to a residential unit served under this rate in the following cases:~~
 - ~~a. Customers on the mandatory time-of-use rate who maintain an average daily usage below 100 kWh over four consecutive billing months in one summer may, at their option, be transferred to the residential service Rate Schedule Rg-1.~~
 - ~~b. Customers moving into a residence that has been served on the mandatory time-of-use rate may, at their option, be transferred to the residential service Rg-1 rate schedule if their average usage is below 130 kWh per day after a minimum of four consecutive summer billing months of consumption under the time-of-use rate.~~
- ~~8. Customers required to be served under this rate schedule after June 8, 1981, will be billed immediately under this rate schedule. After six and 12-month intervals, the Company will provide a billing comparison between the time-of-use rate and the residential service rate based on the customer's actual usage. The Company will also provide the customer with information on how usage patterns could be changed to benefit the customer under the time-of-use rate.~~
59. Customers who have their meters turned off and back on within a 12-month period will pay the minimum monthly charges, applicable to the customer, for the months while service was not being used. Thereafter, the customer will no longer be eligible to receive service under this rate schedule but may choose to be served under other rate schedules they qualify to receive service under at the time the meter is turned back on.
640. Other special terms and provisions are as specified in Rate Schedule Rg-1.

AVAILABILITY

This rate schedule is for residential customers, subject to conditions of availability as specified in Rate Schedule Rg-1, as follows:

This rate schedule is optional for customers who qualify for residential service under Rate Schedule Rg-1. Those customers who wish to be served on this rate schedule must apply to the Company for service. Customers will be placed on this rate on a first-come first-served basis as the appropriate meters become available. Once an optional customer begins service on this rate schedule, that customer will remain on the rate for a minimum of one year.

RATE

	Summer	Winter
Grid connection and customer service charge per day	\$0.62466	\$0.62466
Distribution service: All kWh, per kWh	\$0.03378	\$0.03378
Electricity service:		
On-peak period 1 energy adder, per kWh	\$0.11328	\$0.11196
On-peak period 2 energy adder, per kWh	\$0.12292	\$0.11003
On-peak period 3 energy adder, per kWh	\$0.11587	\$0.11377
Base energy all kWh, per kWh	\$0.05959	\$0.05959

Summer rates are effective from June 1 through September 30. All other times of the year winter rates are effective.

MINIMUM MONTHLY CHARGE

The minimum monthly charge will be the grid connection and customer service charge multiplied by the number of days in the billing period.

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.

PRICING PERIOD DEFINITIONS

On-Peak Period 1	10 a.m. through 1 p.m.: Monday through Friday, excluding holidays.
On-Peak Period 2	1 p.m. through 6 p.m.: Monday through Friday, excluding holidays.
On-Peak Period 3	6 p.m. through 9 p.m.: Monday through Friday, excluding holidays.
Base Energy Period	Includes all hours of all days.
Holidays	New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving, and Christmas.

CUSTOMER'S ENERGY RATE

The customer's energy rate, as defined in schedule Pg-2, for customers served on this schedule will be determined below according to the customer's net metering date (NM Date). The customer's NM Date will be determined by the customer's application date for parallel generation interconnection ("Application Date") and the date that the Company signed the Interconnection Agreement ("Interconnection Date"). If the Interconnection Date is within 180 days of the Application Date then the Application Date will be used as the Net Metering Date, otherwise the Interconnection Date will be used.

1. Only complete interconnection applications will be considered for determination of the Application Date.

2. In the case that significant delays are caused by the Company then the Application Date will be used provided that the Interconnection Date is within 270 days instead of 180 days.

Net Metering Date	Customer's Energy Rate
Prior to 1/1/2021	<ul style="list-style-type: none">• Rg-1 distribution service charge• Rg-1 electricity service charge• Any applicable adjustment for cost of Rg-1 service
1/1/2021 – 12/31/2021	<ul style="list-style-type: none">• Rg-1 distribution service charge• Rg-1 electricity service charge• Any applicable adjustment for cost of Rg-1 service
1/1/2022 – 12/31/2022	<ul style="list-style-type: none">• Rg-1 distribution service charge• Rg-1 electricity service charge• Any applicable adjustment for cost of Rg-1 service

CHARACTER OF SERVICE

A customer will be classified as residential in accordance with the Company's standard classifications set forth in its rates and rules and will receive service in conformance with all rules and regulations pertaining to that classification.

SPECIAL TERMS AND PROVISIONS

1. This rate schedule will apply for a minimum of one year from the date consumption under this tariff is initiated.
2. Any customer choosing to be served on this rate schedule thereby waives all rights to any billing adjustments arising from a claim that the bill for the customer's service would be cheaper on any alternative rate schedule for any period of time, including any rights under Wis. Admin. Code § PSC 113.0406(4), Reg. January 2004, No. 577.
3. If the time-of-use customer does not have an outside meter, a key must be provided to the Company or other provisions must be made to ensure access to the meter by Company personnel during normal working hours.
4. If a customer who is served under this rate schedule moves to a premises within the Company's service territory that qualifies for this service, the customer has the option to retain this service at the new premises. If the customer decides to discontinue time-of-use billing, the Company will offer time-of-use billing to the next customer on the waiting list.
5. If a customer, upon expiration of a full year on this rate schedule, decides to discontinue time-of-use billing, the Company will offer time-of-use billing to the next customer on the waiting list.
6. Where two or more residential units are on a single meter, one customer charge will be applied for each four residential units or fraction thereof in the premises.
7. Customers who have their meters turned off and back on within a 12-month period will pay the minimum monthly charges, applicable to the customer, for the months while service was not being used.
8. Other special terms and provisions are as specified in Rate Schedule Rg-1.

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Attachment C

Schedule 5

Commercial and Industrial Tariff Changes

Commercial and Industrial Services

Cg-5, Cg-3, Cg-4

Tariff Changes

Clarifications: Yes
Program Changes: Yes

Summary Points:

- All rates remain the same for these classes
- Cg-3 closed but available to existing customers in class
- Cg-4 applicability and availability updated. Schedule optional for smaller C&I demand customers who desire a time-of-use option
- Cg-4A and Cg-4B also consolidated as rates have been the same and there has been no reason to maintain separate categories

Overview:

Schedules 12 and 14-16 show rates being maintained at the same level for the small, medium and large commercial and industrial classes.

Customers who wish to have a rate with Time of Use rate levels will now be allowed to move to Cg-4 as an optional service. The Cg-5 tariff is also changed to reflect changes for customers affected by Cg-3 closing and by changes to the availability clause of Cg-4. The Cg-3 tariff is modified to show the proposed closing versus modifying rates to a cost-based service since Cg-4 is a cost based alternative.

Elimination of the A and B categories in Cg-4 is also proposed since rates have remained the same for several years and there is no need for separate categories in the tariff.

AVAILABILITY

To any commercial customer using single-phase, 60-cycle alternating current for lighting, heating, and small motors (individual motors 7.5 horsepower or less) and all other appliances (including ranges) which do not interfere with lighting service; and for combined lighting and three-phase, 60-cycle, alternating current power service provided the single-phase load is distributed between the phases so that it will not unbalance the current per phase more than 10 percent.

This rate schedule applies to customers whose demand is 20 kW or less. A new customer initiating service with less than an estimated or actual demand of 50 kW will initially be placed on Cg-5 until the customer's demand exceeds the required demand for Cg-4, Cg-2 or Cg-6 Level A or Level B in at least four out of 12 months, exceeds 50 kW of demand within the first 12 months of service or otherwise qualifies for Cg-4, Cg-2 or Cg-6 Level A or Level B.

RATE

	Summer	Winter
Grid connection and customer service charge per day.....	\$0.78669	\$0.78669
Distribution service: All kWh, per kWh	\$0.02295	\$0.02295
Electricity charge: All kWh, per kWh	\$0.10224	\$0.09082

Summer rates are effective from June 1 through September 30. All other times of the year winter rates are effective.

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.

MINIMUM MONTHLY CHARGE

The minimum monthly charge will be the grid connection and customer service charge multiplied by the number of days in the billing period.

COMMERCIAL TEMPORARY SERVICE

When supplying service for a short period of time to commercial customers, such as carnivals, fairs, and festivals, the following terms and provisions apply:

1. Customer will deposit in advance of starting installation or construction work the estimated cost thereof plus the estimated cost of electrical energy to be consumed.
2. Customer will be charged for cost, including labor and materials used, plus usual charge for overhead, of making and removing the temporary connections.
3. Energy used may be measured or estimated at the option of the Company. If energy used is estimated, the estimate will be determined by multiplying the connected load by the probable number of hours' use.
4. Final adjustment of charge to customer will be made after removal of temporary construction.

CATV AMPLIFIERS

Customers with Company-metered CATV amplifiers that wish to be served on Rate Schedule Cg-3 but lack a time-of-use meter and would otherwise qualify for service on Rate Schedule Cg-3 may instead receive a billing adjustment. This adjustment will be designed to compensate the customer the difference between what the customer was charged under this service and what they would have been charged under Rate Schedule Cg-3. This adjustment will be estimated annually by the Company and will use the most recent year of time-of-use consumption from a representative sample of customer-owned CATV amplifiers to develop a scalable time-of-use profile for a CATV amplifier. Availability of service under this provision is further limited to the availability of such a sample provided that such sample also demonstrates each CATV amplifier to have usage that is constant and relatively consistent. This service option will be closed to new customers as of January 1, 2021.

- The Company may install a time-of-use meter at any time; in this case the customer will be moved to the Cg-3the available rate schedule they qualify for service under.

SPECIAL TERMS AND PROVISIONS

Customers who have their meters turned off and back on within a 12-month period will pay the minimum monthly charges, applicable to the customer, for the months while service was not being used.

AVAILABILITY

This rate schedule is optional to commercial and industrial customers with a maximum monthly 15-minute demand of 20 kW or less who would otherwise qualify for Rate Schedule Cg-5. ~~Those customers who wish to be served on this rate schedule on an optional basis must apply to the Company for service. Customers will be placed on this rate on a first-come first-served basis as the appropriate meters become available. Once an optional customer begins service on this rate schedule, that customer must remain on the rate for a minimum of one year. In 2015, optional customers on this rate schedule can move to the Cg-7 rate schedule prior to being on the rate for a minimum of one year.~~ This rate schedule is closed to new customers on and after January 1, 2021. Customers who had been taking service on this schedule on that date and continue to qualify for service on this schedule may continue to do so or take service on rate schedules Cg-4 or Cg-5. Customers who discontinue service on or after January 1, 2021 will not be eligible for service on this schedule thereafter.

RATE

	Summer	Winter
Grid connection and customer service charge		
Single-phase service per day.....	\$0.73249	\$0.73249
Three-phase service per day.....	\$1.00249	\$1.00249
Distribution service: All kWh, per kWh	\$0.02295	\$0.02295
Electricity service:		
On-peak period 1 energy adder, per kWh.....	\$0.16932	\$0.13067
On-peak period 2 energy adder, per kWh.....	\$0.17719	\$0.12032
On-peak period 3 energy adder, per kWh.....	\$0.15239	\$0.15257
Base energy all kWh, per kWh.....	\$0.04573	\$0.04573

Summer rates are effective from June 1 through September 30. Winter rates are all times of the year other than the defined summer season.

MINIMUM MONTHLY CHARGE

The minimum monthly charge will be the grid connection and customer service charge multiplied by the number of days in the billing period.

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.

PRICING PERIOD DEFINITIONS

On-Peak Period 1	10 a.m. through 1 p.m.: Monday through Friday, excluding holidays.
On-Peak Period 2	1 p.m. through 6 p.m.: Monday through Friday, excluding holidays.
On-Peak Period 3	6 p.m. through 9 p.m.: Monday through Friday, excluding holidays.
Base Energy Period	Includes all hours of all days.
Holidays:	New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving, and Christmas.

CHARACTER OF SERVICE

A customer will be classified as commercial in accordance with the Company's standard classifications set forth in its rates and rules and will receive service in conformance with all rules and regulations pertaining to that classification.

SPECIAL TERMS AND PROVISIONS

1. Any customer choosing to be served on this rate schedule thereby waives all rights to any billing adjustments arising from a claim that the bill for the customer's service would be cheaper on any alternative rate schedule for any period of time, including any rights under Wis. Admin. Code § PSC 113.0406(4), Reg. July 2014, No. 703.
2. The meter must be located outside or in a location that is readily accessible by Company personnel during normal working hours.
- ~~3. If the customer moves or is forced to move, the customer has the option to retain time-of-use billing at the new premises. If the customer decides to discontinue time-of-use billing, the Company will offer time-of-use billing to the next customer on the waiting list.~~
- ~~4. If the customer, upon expiration of a full year on this rate schedule, decides to discontinue time-of-use billing, the Company will offer time-of-use billing to the next customer on the waiting list.~~
53. Customers who have their meters turned off and back on within a 12-month period will pay the minimum monthly charges, applicable to the customer, for the months while service was not being used. Thereafter, the customer will no longer be eligible to receive service under this rate schedule but may choose to be served under other rate schedules they qualify to receive service under at the time service is resumed.

AVAILABILITY**Mandatory Service Provision:**

This rate schedule is mandatory to new commercial and industrial customers with a maximum 15-minute demand in excess of 20 kW.

If a customer's demand fluctuates above and below 20 kW, the Cg-4 rate schedule is mandatory if the 15-minute demand exceeds 20 kW in at least four out of the last 12 months. In addition, a new customer initiating service with an estimated demand ~~of 50 kW or greater will be placed on~~ of 50 kW or greater (within the first 12 months of service) will be placed on this rate. Once the customer is on this rate, the customer will remain on this rate as long as they have at least one month in the last 12 months where their 15-minute demand is greater than 20 kW. If the customer's 15-minute demand remains below 20 kW for 12 consecutive months, the customer will be notified that they can opt to stay on the Cg-4 rate or be moved to the **Cg-3 or Cg-5 rate** at their option as long as their demand remains below the level requiring mandatory service on this rate schedule. Customers that do not choose to be moved to Cg-5 service when they can opt to do so will be subject to the Optional Service Provision. The customer will have 15 days to respond to the notification. ~~If the customer does not respond within 15 days of notification, the customer will be moved to the Cg-5 rate schedule.~~

Optional Service Provision:

Customers who do not qualify for service under the mandatory provision of this service, or service Availability requirements of other rate schedules (such as Cg-2 or Cg-6 for example), who wish to select this rate schedule as a service option may do so. A customer selecting this rate schedule under this option thereby waives all rights to any billing adjustments arising from a claim that the bill for the customer's service would be cheaper on any alternative rate schedule for any period of time, including any rights under Wis. Admin. Code § PSC 113.0406(4), Reg. January 2004, No. 577.

RATE

	<u>Summer</u>	<u>Winter</u>
Grid connection and customer service charge:		
Single-phase service per day	\$6.19251	\$6.19251
Three-phase service per day	\$6.32048	\$6.32048
Distribution service:		
Customer maximum 15-minute demand per kW per day	\$0.08480	\$0.08480
Distribution charge, per kWh	\$0.01001	\$0.01001
Electricity service:		
Maximum monthly on-peak 15-minute demand per kW per day	\$0.42653	\$0.34931
On-peak period 1 energy adder, per kWh	\$0.05545	\$0.04245
On-peak period 2 energy adder, per kWh	\$0.06177	\$0.04175
On-peak period 3 energy adder, per kWh	\$0.05402	\$0.04631
Base energy: All kWh, per kWh	\$0.04148	\$0.04148

Summer rates are effective from June 1 through September 30. Winter rates are all times of the year other than the defined summer season.

N RATE PROVISIONS

If a customer satisfies the availability requirements for any or all of the following provisions, and service under such provision(s) would reduce the customer's bill, then the customer will automatically be served on such provision(s).

Provision	Sheet
Low Load Factor Provision.....	E-32

M MINIMUM MONTHLY CHARGE

The minimum monthly charge will be the grid connection and customer service charge plus the demand charge for the customer maximum 15-minute demand multiplied by the number of days in the billing period.

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.

PRICING PERIOD DEFINITIONS

R	On-Peak Period 1	10 a.m. through 1 p.m.: Monday through Friday, excluding holidays.
	On-Peak Period 2	1 p.m. through 6 p.m.: Monday through Friday, excluding holidays.
R	On-Peak Period 3	6 p.m. through 9 p.m.: Monday through Friday, excluding holidays.
	Base Energy Period	Includes all hours of all days.
	Holidays	New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving, and Christmas.

DETERMINATION OF DEMAND

1. All monthly demand and energy usage will be measured by meters installed and maintained by the Company. Estimates made by the Company, based on historic records plus known load characteristics, will be used for billing purposes if meter failure occurs.
2. The customer maximum 15-minute demand will be the greatest rate at which electrical energy has been used during any period of 15 consecutive minutes in the current or preceding 11 months.
3. The maximum on-peak 15-minute demand will be the greatest rate at which electrical energy has been used in 15 consecutive minutes during on-peak periods of the billing month.

SPECIAL TERMS AND PROVISIONS

1. This rate schedule will remain in effect for a minimum of one year from the date consumption is initiated.
- ~~2. Any customer choosing to be served on this rate schedule thereby waives all rights to any billing adjustments arising from a claim that the bill for the customer's service would be cheaper on any alternative rate schedule for any period of time, including any rights under the Wis. Admin. Code § PSC 113.0406(4), Reg. July 2014, No. 703.~~
23. The meter must be located outside or in a location that is readily accessible by Company personnel during normal working hours.
34. Customers who have their meters turned off and back on within a 12-month period will pay the minimum monthly charges, applicable to the customer, for the months while service was not being used.

Madison Gas and Electric Company

Docket 3270-UR-123

Attachment C

Schedule 6

BGS Tariff Update

Commercial and Industrial Services

BGS

Tariff Changes

Clarification: Yes
Program Changes: No

Summary Points:

- Tariff language revised to refer to the minimum and maximum term length in one section of the tariff.
- Term length language revised from “five years” to “five or more years” in the Availability section of the tariff.

Overview:

The clarification above is proposed for the service.

AVAILABILITY

- R Service under this voluntary schedule is available to customers on demand-metered Rate Schedules Cg-2, Cg-4, Cg-6, Cg-8, Sp-3, and Sp-4 who contract for service for an initial period of five or more years. Participation in this program will be limited to a 50 MW total customer load.

If the customer maximum 15-minute demand level falls below 75 kW, the Company will determine if it is reasonable to remove the BGS generator from the customer and discontinue BGS at that site or retain BGS at the customer site and charge for BGS based on the minimum demand volume determined in the rate provision below. Factors such as generator size, potential use of the generator elsewhere, future customer demand, and special usage circumstances will be considered in making this decision. If the Company determines it is appropriate to keep the BGS generator at the customer location, the customer may choose to continue BGS service but must agree to the minimum demand charge as described under the rate provision below.

RATE

- R All the provisions of the applicable Cg-2, Cg-4, Cg-6, Cg-8, Sp-3, and Sp-4 rate schedules will apply. In addition:
1. Customers taking firm service under this schedule will have an additional charge for backup service applied to the customer maximum 15-minute demand as follows:
 - a. Customers who initiated service prior to July 1, 2006, will have the charge designated below applied to the greater of the customer maximum 15-minute demand or 75 kW.
 - b. Customers who initiated service on and after July 1, 2006, will have the charge designated below applied to the greater of the customer maximum 15-demand, 50 percent of the highest customer maximum 15-minute demand experienced by the customer during the time period the customer is served under this rate schedule, or 75 kW.
 - c. Customers who request redundant on-site BGS capacity, and such added capacity is available to the Company under the existing terms of the tariff, will have the charge designated below applied to the standby-rated capacity of the redundant generator. Redundant on-site BGS capacity in this rate schedule means any BGS generator(s) in addition to the generator(s) deemed appropriate by the Company to supply the customer maximum 15-minute demand at the time of installation.
 2. Customers taking interruptible or supplemental service will have an additional charge for backup service applied to the minimum contract firm demand level.
 3. The firm demand level charges are as follows:
 - a. For diesel-fueled generators, \$0.04932 per kW per day for continuing agreements that became effective prior to March 1, 2003.
 - b. For diesel-fueled generators, \$0.06575 per kW per day for agreements that became effective on or after March 1, 2003, and prior to January 1, 2010.
 - c. For diesel-fueled generators, \$0.09863 per kW per day for agreements that became effective on or after January 1, 2010.
 - d. For natural gas-fueled generators, \$0.16438 per kW per day for agreements that became effective on or after January 1, 2010.

CONDITIONS OF DELIVERY

1. A customer receiving service under this rider must enter into a contract that identifies the size of the generator specified and installed by the Company and the customer's expected annual maximum load.
2. A customer that receives electric service through more than one distribution service feed at a single location (premise) may choose to take backup service under this schedule for all or only some of the service feeds at that location. The Company may require the customer to pay in advance of installation for any additional metering or measurement equipment necessary for the customer to take backup service for less than the entire premise.
 - a. For firm service customers, backup generation service must be taken for the entire load at each distribution service chosen. For purposes of this schedule, the customer maximum 15-minute demand will be the greatest rate at which electrical energy has been used for the distribution service feeds chosen during any 15 consecutive minutes in the current or preceding 11 billing months.
 - b. For interruptible and supplemental service customers, backup generation service must be taken for the full amount of the customer's minimum contract firm demand level. For purposes of this schedule, the contract firm demand level will be the customer's contract firm demand level in effect at the time the customer enters into the BGS contract with the Company.
3. The contract will have an initial term ~~of five or more years~~ in accordance with the Availability Clause of this schedule. At the end of the initial term the contract will be automatically renewed on an annual basis unless written notice from either party is delivered to the other party no later than 180 days prior to the end of the contract term.
4. The authorized rate in effect at the time the initial contract term begins for a customer will remain fixed for that customer for the entire initial contract term, regardless of other changes that may from time to time be approved by the Public Service Commission of Wisconsin. At the end of the initial term, service will be charged at the authorized rate in effect at the time.
5. The Company will work with the customer to determine where to install the generator and associated equipment. The facilities will comply with Wisconsin State Electrical Code, local ordinances, and accepted engineering and planning practices and will be connected to the Company's system over the most direct route as determined by the Company. The Company is responsible for maintaining facilities in compliance with applicable regulations and ordinances that may change over the term of the contract.
6. The customer will provide or will be responsible for the cost of all right-of-way easements and building permits necessary for the Company to connect the generator to the Company's system and to install, maintain, or replace distribution facilities where necessary.
7. The customer will supply the space for the generator and a concrete pad as specified by the Company. The customer will either clear and grade such property and pour the pad or pay the Company to clear and grade such property and pour the pad.

CONDITIONS OF DELIVERY (continued)

8. The Company is responsible for installation and backfilling as necessary. The customer is responsible for the cost of restoration of the property after the Company has completed installation and backfilling where applicable.
9. If the generator installation requires nonstandard service facilities or if the customer requests nonstandard facilities or design, including but not limited to aesthetics, noise attenuation, exhaust ventilation, or location on the customer's premise, the Company will require the customer to pay a contribution in advance of construction for the cost of the facilities in excess of standard design.
10. The customer will be required to make the Company equipment available and permit entry upon the property by Company personnel at reasonable times for the purposes of testing, maintenance, and replacement of the equipment. The Company will be responsible for testing the generator at least once a year to ensure the equipment is in proper working condition.
11. The Company reserves the right to operate the generator to meet system load requirements.
12. The availability of service under this schedule may be limited at the discretion of the Company. Service under this schedule may be refused if the Company believes the customer presents an unacceptable credit risk or cannot provide or meet suitable generator siting requirements, including physical and environmental restrictions and liability limitations.
13. Service under this schedule will be furnished only in accordance with the Electric Service Rules and Regulations of the Company.
14. Energy furnished under this schedule will not be resold by the Customer.

Madison Gas and Electric Company

Docket 3270-UR-123

Attachment C

Schedule 7

Primary Voltage Discount

Primary Voltage Provision

PVP-1

Existing Program; New Tariff

Tariff Changes

Clarifications: Yes
Program Changes: Yes

Summary Points:

- Primary discount provision language is being struck from individual tariffs.
- Available provision language is being added to individual tariffs.
- A new tariff sheet is being created to consolidate all language regarding primary voltage discounts.
- The new provision will no longer have demand requirements for receiving a discount.
- The new provision will require that customers be served at the highest distribution voltage available.

Overview:

Primary voltage discounts currently exist in various commercial and industrial rate schedules. These discounts are being moved to one location under a service provision tariff similar to the Low Load Factor Provision which was implemented in 3270-UR-122. This relocation will help to consolidate and remove redundant language.

Additionally, two changes are being implemented. The first change is the removal of any demand requirement for primary voltage customers in order to receive the primary voltage discount. Previously a minimum demand of 200 kW was required for customers served at 2,400 Volts or 4,160 Volts and a minimum demand of 500 kW for customers served at 13,800 Volts.

The second change is redefining “primary voltage” to be a relative voltage rather than an absolute voltage. The current provision applies to customers served at 2,400 Volts, 4,160 Volts, and 13,800 Volts whether the customer’s service is being stepped-down from a higher voltage. The discount is meant to compensate customers at high voltages for having fewer losses from step-down transformation. Customers receiving service at 4,160 Volts that has been stepped-down from 13,800 Volts experience nearly as many step-down losses as customers that receive service at 480 Volts that has been stepped-down from 13,800 Volts.

The following language will be struck from Cg-4 and Cg-8:

PRIMARY DISCOUNT PROVISION

~~Available to customer not served by the low voltage network.~~

~~1. For delivery at 2,400 volts or 4,160 volts as available to customers with demands of 200 kW or more.~~

~~\$0.00328 per kW per day of customer maximum 15-minute billed demand plus \$0.001 per month per kWh.~~

~~2. For customers qualifying under No. 1. who provide the transformers and associated equipment necessary for converting the available primary service to the secondary voltage required by the customer.~~

~~\$0.00328 per kW per day of customer maximum 15-minute billed demand.~~

~~3. Customers taking service at primary voltage will provide all the necessary delivery, control, and regulating facilities on the load side of the transformers.~~

The following language will be struck from Cg-2 and Cg-2A:

PRIMARY DISCOUNT PROVISION

~~Available to customer not served by the low voltage network.~~

~~1. For delivery at:~~

~~a. 2,400 volts or 4,160 volts as available to customers with demands of 200 kW or more.~~

~~b. 13,800 volts where available to customers with demands of 500 kW or more.~~

~~\$0.00328 per kW per day of customer maximum 15-minute billed demand plus \$0.001 per month per kWh.~~

~~2. For customers qualifying under No. 1.a. and 1.b. who provide the transformers and associated equipment necessary for converting the available primary service to the secondary voltage required by the customer.~~

~~\$0.00328 per kW per day of customer maximum 15-minute billed demand.~~

~~3. Customers taking service at primary voltage will provide all the necessary delivery, control, and regulating facilities on the load side of the transformers.~~

The following language will be struck from Cg-6 and Cg-6A:

PRIMARY DISCOUNT PROVISION

~~Available to customer not served by the low voltage network.~~

~~1. For delivery at:~~

~~a. 2,400 volts or 4,160 volts as available.~~

~~b. 13,800 volts where available.~~

~~\$0.00328 per kW per day of customer maximum 15-minute billed demand plus \$0.001 per month per kWh.~~

- ~~2. For customers qualifying under No. 1. who provide the transformers and associated equipment necessary for converting the available primary service to the secondary voltage required by the customer.~~

~~\$0.00328 per kW per day of customer maximum 15-minute billed demand.~~

- ~~3. Customers taking service at primary voltage will provide all the necessary delivery, control, and regulating facilities on the load side of the transformers.~~

The following language will be added to Cg-4, Cg-2, Cg-2A, Cg-6, and Cg-6A.

RATE PROVISIONS

If a **new** customer satisfies the availability requirements for any or all of the following provisions, and service under such provision(s) would reduce the customer's bill, then the customer will automatically be served on such provision(s).

Provision	Sheet
Low Load Factor Provision.....	E-32
<u>Primary Voltage Provision.....</u>	<u>E-</u>

AVAILABILITY

Available to customers on Rate Schedules Cg-4, Cg-2, or Cg-6 that are metered by the Company's electric distribution grid at the highest distribution voltage available in the customer's vicinity.

RATE

All the provisions of customer's otherwise applicable rate schedule will apply with the additional credits listed below.

Primary voltage energy discount per kWh \$0.00100
Primary voltage demand discount per kW per day \$0.00328

Customers who provide the transformers and associated equipment necessary for converting the available primary voltage to the secondary voltage required by the customer will also receive the credit listed below in addition to the credits listed above.

Transformer demand discount per kW per day \$0.00328

DETERMINATION OF DEMAND

1. The primary voltage demand will be determined by the customer maximum 15-minute demand as defined in the customer's otherwise applicable rate schedule.
2. The transformer demand will be determined by the customer maximum 15-minute demand as defined in the customer's otherwise applicable rate schedule.

SPECIAL TERMS AND PROVISIONS

1. Customers eligible for this provision will automatically be served on this provision.
2. The highest distribution voltage available in the customer's vicinity will be determined at the Company's sole discretion.
3. In the case that the Company upgrades the electric distribution grid to a higher voltage such that a previously eligible customer is no longer metered at the highest distribution voltage available then they will be removed from this provision.

Madison Gas and Electric Company

Docket 3270-UR-123

Attachment C

Schedule 8

PV-1 : PV Connect

PV Connect

PV-1

New Program

Summary Points:

- Available to customer-owned photovoltaic systems connected directly to the grid (the generation is not consumed on-site).
- Energy credits will be LMP based and capacity credits will be CONE based.
- Includes a customer service and grid connection charge in addition to energy charges for “station use”.

Overview:

This offering is a standalone service and not a rider to an existing service. Service will be provided through a dedicated meter and is only available to eligible photovoltaic systems connected directly to MGE’s distribution grid. In order to be considered eligible the photovoltaic system cannot provide energy to any customer for on-site consumption other than what is necessary to operate the photovoltaic system and any relevant safety equipment. This offering will have an initial program limit of 5 MW and an individual customer limit of 1.5 MW.

Under this program, customers will be billed a customer service and grid connection charge for their meter and connection to the grid. Distribution and electricity service charges will also apply to any deliveries from MGE.

Energy delivered from the customer’s photovoltaic system to the grid will be purchased according to the non-capacity rates in the Parallel Generation Buyback Rates on Sheet E-55 of the Company’s tariff book. The customer will also receive a monthly capacity credit for their photovoltaic system according to the MISO accredited capacity of the system. The credit rate will be the value of CONE that is in effect when the photovoltaic system is first energized. This credit rate will be locked in for the life of the photovoltaic system.

MGE believes that the most likely customers to use this service are customers that are unable to interconnect their photovoltaic system behind their existing load due to unique electrical issues. MGE’s currently open parallel generation tariffs are designed to compensate customers under the assumption that they are interconnected behind existing load. Under these types of interconnections the customer is already self-consuming some of their production in addition to using their generation to “peak shave”.

AVAILABILITY

Available to Eligible Facilities, as defined in this schedule, served by the Company's electric distribution system. There is a participation limit of 1.5 MW of nameplate capacity per entity and a total program limit of 5 MW.

DETERMINATION OF ELIGIBLE FACILITY

For the purposes of this schedule, an Eligible Facility must:

1. Have a fully executed Interconnection Agreement.
2. Generate energy via a solar photovoltaic process. No other process, including those used by energy storage devices, may be used.
3. Interconnect via a metered service that measures only the solar photovoltaic equipment and any necessary equipment for safe operation of the solar photovoltaic equipment.
4. Have a fully executed PV Connect Service Agreement.

RATE

The following charges will apply to deliveries from the Company to the customer. The grid connection and customer service charge will still apply in the absence of any deliveries either to or from the customer.

Grid connection and customer service charge per day	\$0.78669
Distribution service: All kWh, per kWh	\$0.02295
Electricity charge: All kWh, per kWh	\$0.10224

Deliveries from the customer to the Company will be credited according to the time-of-use Parallel Generation Buyback Rates (Sheet E-55) less any capacity adders. These deliveries are exempt from fuel cost surcharges and credits.

Additionally, the customer will receive a monthly capacity credit according to the accredited capacity of the Eligible Facility. The monthly capacity credit will be the accredited capacity multiplied by the number of days in the billing month and the capacity credit rate as stated below according to the date that the Eligible Facility is first energized outside of testing purposes. This date may be negotiated in the PV Connect Service Agreement if, through no fault of the customer or the customer's installer, the interconnection is delayed by a third party or the Company.

Accredited capacity per kW per day:	
6/1/2019 – 5/30/2020	\$0.23882
6/1/2020 – 5/30/2021	\$0.25167

These rates are set annually based on the Midcontinent Independent System Operator (MISO) Cost of New Entry (CONE) for the relevant Local Resource Zone, which at present is Eastern Wisconsin and Upper Michigan (LRZ 2).

DETERMINATION OF ACCREDITED CAPACITY

The accredited capacity of the Eligible Facility will be set annually on January 1st according to the MISO accredited capacity of the Eligible Facility. This accredited capacity definition is subject to change.

In the case that the Eligible Facility ceases to operate as designed, outside of scheduled maintenance, then the capacity credit may be suspended until the Eligible Facility is operating as designed.

In the case that the Eligible Facility is modified such that the designed capacity is altered then

1. The customer must undergo any applicable interconnection procedures, as set by the Company and in compliance with PSC 119, and
2. If the designed capacity is altered by more than 10%, the accredited capacity will be calculated going forward as if the date the modifications are completed is the first date of operation for the Eligible Facility and
3. If the designed capacity is altered by 10% or less, the accredited capacity will continue to be calculated as it was before the modifications and
4. The capacity credit rate will remain unchanged.

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. All checks issued by the Company will be in the amount of the customer's net account credit. Checks may be requested no more frequently than once every 12 months with the following exceptions:

1. The net account credit is greater than \$100.
2. The account is closed.

SERVICE COMPATIBILITY

The customer 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.

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.

CONTRACT

The Company will require two contracts. One contract (the Interconnection Agreement) specifying technical and operating aspects of parallel generation. Another contract (the PV Connect Service Agreement) specifying that the customer understands and agrees to the terms and conditions of this schedule. Customers have the right to appeal to the PSCW if they believe that either contract required by the Company is unreasonable.

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 § PSC 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 an energy credit on its monthly bill.

1. The ownership of any and all renewable energy credits may be negotiated in the PV Connect Service Agreement.

SPECIAL TERMS AND PROVISIONS

1. Schedules Pg-1 and Pg-2 may not be used in conjunction with this schedule.
2. Customers who have their meters turned off and back on within a 12-month period will pay the minimum monthly charges, applicable to the customer, for the months while service was not being used.

3. The term of the PV Connect Service Agreement, and subsequently service under this schedule, shall be 25 years. At the end of this term the customer may enroll in any of the Company's schedules that they are eligible for at that time.
4. Customers may terminate their PV Connect Service Agreement, and subsequently service under this schedule, prior to the end of the 25-year term pursuant to providing a Capacity Reprourement Fee to the Company. The Capacity Reprourement Fee shall be the total expected amount that would have been paid by the Company to the customer for the accredited capacity credit included in this schedule for the lesser of 5 years following the customer's termination of the PV Connect Service Agreement or the remainder of the 25-year term.
5. Due to the nature of a contracted rate for capacity, the Company, in its sole discretion, may deny eligibility to this schedule when it believes that there is significant risk that a Eligible Facility will not remain interconnected, operational, and/or well maintained for the duration of the contracted term.

Madison Gas and Electric Company

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Attachment C

Schedule 9

Retired Schedules List

The following Rate Schedules are being terminated prior to electric tariff book reorganization and implementation of the new billing system. They are either closed or no used and or marketable:

Cg-2A

Cg-6A

Is-1

Is-2

SCS

MBP

VGC

AGS

Madison Gas and Electric Company

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Attachment C

Schedule 10

Electric Tariff Reorganization Statement of Intent

The existing Electric Tariff Volume has a numbering system that limits the ability to add new services and provisions and includes duplicative terms that apply in multiple schedules. MGE plans to reorganize the tariff book after changes to tariffs filed in this case are considered in this docket. Typos will also be fixed. This will not affect any of the decisions made or content and terms of services approved in this docket. The new format should make navigation through the tariff volume easier to follow and modify in the future.

Madison Gas and Electric Company

Docket 3270-UR-123

Attachment C

Schedule 11

Electric Revenue Summary

Electric Cost of Service & Revenue Summary

Summary Points:

- Because of the number of accounts netted to a zero increase, COSS could not be reliably performed with current data
- Since no shifts in revenue between classes are proposed, a current COSS not necessary for class to class revenue allocation
- All rates kept at the same level, except as agreed upon for Sp-3 with the single customer (see Schedule 2).

Overview:

Because of the large amount of cost netting performed to result in no revenue increase in this case, reliable data for a current cost of service study is not available.

Forecasted volumes were updated for annual LEC credit forecast update.

Rate components were kept at the same level in each rate schedule except as requested by the single customer served under Sp-3 (see Schedules 2 and 17).

**MADISON GAS & ELECTRIC COMPANY
ESTIMATED ELECTRIC RETAIL REVENUE SUMMARY
FOR THE YEAR JANUARY 1 - DECEMBER 31, 2021
3270-UR-123**

RATE CLASS		Service Sales KWH [3]	PRESENT REVENUES	2021 PROPOSED REVENUES	PROPOSED DOLLAR INCREASE	PROPOSED PERCENT INCREASE
Rg-1	Residential	769,091,607	\$133,650,726	\$133,650,726	\$0	0.00%
Rg-2	Residential Time-of-Use	11,793,185	\$1,707,659	\$1,707,659	\$0	0.00%
Rw-1	Residential Controlled Water Heating (Closed)	48,500	\$5,810	\$5,810	\$0	0.00%
Rg-7	Residential Renewable Generation Net Metering Rate	86,572	\$17,677	\$17,677	\$0	0.00%
TOTAL RESIDENTIAL REVENUE		781,019,864	\$135,381,872	\$135,381,872	\$0	0.00%
Cg-5	Small C&I Lighting and Power (<20 kW)	189,454,459	\$26,715,332	\$26,715,332	\$0	0.00%
Cg-3	Small C&I Optional Time-of-Use (<20 kW)	8,774,577	\$1,116,676	\$1,116,676	\$0	0.00%
Cg-7	Small C&I Renewable Generation Net Metering Rate	49,086	\$6,982	\$6,982	\$0	0.00%
TOTAL SMALL COMMERCIAL & INDUSTRIAL REVENUE		198,278,121	\$27,838,990	\$27,838,990	\$0	0.00%
Cg-8	Medium C&I Renewable Generation Net Metering Rate	826,170	\$136,988	\$136,988	\$0	0.00%
Cg-4	C&I Time-of-Use (20-200 kW)	628,397,626	\$80,806,351	\$80,806,351	\$0	0.00%
Cg-2	C&I Lighting and Power Time-of-Use (>200 kW)	784,094,894	\$85,366,238	\$85,366,238	\$0	0.00%
Cg-2A	C&I Lighting and Power Critical Peak Pricing (>200 kW)	0	\$0	\$0	\$0	0.00%
Cg-6	C&I Lighting and Power Large Annual High Load Factor (>1000 kW)	232,160,489	\$20,736,533	\$20,736,533	\$0	0.00%
Cg-6A	C&I Lighting and Power Large Ann. High Load Factor - CPP (>1000 kW)	-	\$0	\$0	\$0	0.00%
TOTAL MEDIUM & LARGE COMMERCIAL & INDUSTRIAL REVENUE		1,645,479,178	\$187,046,110	\$187,046,110	\$0	0.00%
Cp-1	C&I High Load Factor Direct Control Interruptible - Transmission Volt.	97,690,096	\$4,868,470	\$4,868,470	\$0	0.00%
Sp-3	University of Wisconsin Time-of-Use	353,757,734	\$33,712,224	\$33,633,599	(\$78,625)	-0.23%
TOTAL CONTRACT SERVICES REVENUE		451,447,830	\$38,580,694	\$38,502,069	(\$78,625)	-0.20%
	Primary Voltage Discount (kW)		(\$50,582)	(\$50,582)	\$0	0.00%
	Primary Voltage Discount (kWh)		(\$190,200)	(\$190,200)	\$0	0.00%
	Transformer Equipment Discount (kW)		(\$18,107)	(\$18,107)	\$0	0.00%
TOTAL DISCOUNTS [1]			(\$258,889)	(\$258,889)	\$0	0.00%
Cs-1	Community Shared Solar Electricity Service and Transmission Revenue		\$ 780,190	\$ 780,190	\$0	0.00%
RER-1	Renewable Resource Revenue	21,637,607	\$ 1,261,734	\$ 1,261,734	\$0	0.00%
RWE-1	Green Power Tomorrow (Residential)	54,330,727	\$ 543,307	\$ 543,307	\$0	0.00%
BWE-1	Green Power Tomorrow (Commercial/Industrial, Interdepartmental)	17,139,265	\$171,391	\$171,391	\$0	0.00%
TOTAL GPT, SS & RER REVENUE [2]		93,107,599	\$2,756,622	\$2,756,622		
Is-3	Interruptible Service Rider		(\$609,522)	(\$609,522)	\$0	0.00%
Is-4	Direct Control Interruptible Service Rider		(\$427,242)	(\$427,242)	\$0	0.00%
SCS	Summer Curtailable Service		\$0	\$0	\$0	0.00%
TOTAL INTERRUPTIBLE CREDITS [1]			(\$1,036,764)	(\$1,036,764)	\$0	0.00%
Gf-1	General Flat Rate	1,566,765	\$202,301	\$202,301	\$0	0.00%
Mg-2	Secondary Service for Municipal Defense Sirens	0	\$1,075	\$1,075	\$0	0.00%
MLS	Athletic Field Lighting	468,034	\$66,046	\$66,046	\$0	0.00%
OL-1	Outdoor Overhead Lighting Service - Private Unmetered	1,508,040	\$583,830	\$583,830	\$0	0.00%
EV-1	Home Electric Vehicle Charging Stations		\$23,393	\$23,393	\$0	0.00%
EV-2	Electric Vehicle Public Charging Pilot Rider		\$31,257	\$31,257	\$0	0.00%
TOTAL MISCELLANEOUS AND LIGHTING		3,542,839	\$907,901	\$907,901	\$0	0.00%
SL-1	Streetlighting Service - Company-Owned and Company-Maintained	650,436	\$194,766	\$194,766	\$0	0.00%
SL-2	Streetlighting Service - Customer-Owned and Customer-Maintained	0	\$436,559	\$436,559	\$0	0.00%
SL-3	Streetlighting Service - Customer-Owned and Company-Maintained	4,690,248	\$810,028	\$810,028	\$0	0.00%
TOTAL STREETLIGHTING SERVICE		5,340,684	\$1,441,353	\$1,441,353	\$0	0.00%
BGS	Backup Generation Service		\$2,402,824	\$2,402,824	\$0	0.00%
AGS	Alternative Generation Schedule		\$0	\$0	\$0	0.00%
TOTAL ELECTRIC RETAIL REVENUE		3,085,108,516	\$393,599,745	\$393,521,120	(\$78,625)	-0.02%
Interdepartmental		2,939,598	\$397,196	\$397,196	\$0	0.00%
TOTAL ELECTRIC RETAIL REVENUE W/ INTERDEPART.		3,088,048,114	\$393,996,941	\$393,918,316	(\$78,625)	-0.02%

Notes

- [1] Discounts and interruptible credits are listed here for reference. They are already subtracted from the appropriate Commercial and Industrial Class revenue totals.
[2] Residential and Business Wind Energy and Community Solar electric service rate revenues are included in their rate class totals and are represented here for reference.
[3] Service Sales do not include Shared Solar kWh or RER kWh.

Madison Gas and Electric Company

Docket 3270-UR-123

Attachment C

Schedule 12

Residential Service Rates

Residential Rate Design

Rg-1, Rg-2, Rg-2a, Rw-1, Rg-7

Tariff Changes

See Schedule 4

Summary Points:

- Unbundled Cost Study used for rate component design for new time of use service
- Time of use COSS method followed for recovery of fixed generation and transmission costs in energy rate components for new time of use rates
- Rates in current rate schedules remain unchanged

Overview:

The unbundled cost study from the last rate proceeding was used to guide rate design for the new time of use rate class. As noted in Schedule 4, the company is moving towards rate designs with cost-based components while desired use changes are encouraged through rewards. A new Time of Use rate schedule (Rg-2A) has a base energy rate based on average variable energy costs plus a portion of fixed generation and transmission costs allocated in a manner similar to the basis of the Time of Use cost study (40%). The cost adders for the peak periods are based on the difference of average market energy in those periods from annual average costs (average LMPs during the different periods) plus and allocation of the remaining (60%) fixed generation and transmission costs. The resulting costs per pricing period are more cost based and more comparable to time of use designs throughout the state.

Rates for existing rate classes (Rg-1, Rg-2, Rw-1, Rg-7) will remain unchanged in this proceeding.

SUMMARY:						
<p style="text-align: center;">Madison Gas and Electric Co. Unbundled Cost of Service - Standard COSS TOTAL RESIDENTIAL Summary of Cost Categories</p>						
PSCW Account	Total Costs	Customer Costs	Grid Connection	Dist Demand Costs	Gen Tran Demand	Energy Costs
			Distribution	Generation and Transmission		
Production Plant - Net Value						
Steam Plant	\$63,053,912					
Other Plant	\$9,108,086					
Renewable Plant - Wind	\$41,403,298					
Renewable Plant - Solar	\$2,206,260					
Distribution Plant - Net Value						
Customer Related	\$52,585,944					
Demand Related	\$185,637,573					
Other Plant - Net Value	\$21,332,875					
Return on Plant (allocated based on Plant)						
Production Return Steam Plant	\$3,949,503				\$3,949,503	\$0
Production Return Other Plant	\$570,502				\$570,502	\$0
Production Return Renewable Plant - Wind	\$2,593,375				\$259,338	\$2,334,038
Production Return Renewable Plant - Solar	\$138,193				\$69,097	\$69,097
Distribution Return (Customer Related)	\$3,293,822		\$3,293,822			
Distribution Return (Demand Related)	\$11,627,766			\$11,627,766		
Other Plant, Material and Supplies, Cust Adv and Def Taxes F	\$1,336,226	\$574,113	\$237,170	\$301,181	\$194,649	\$29,112
Depreciation Expense (allocated based on Plant)						
Production Depreciation Exp Steam Plant	\$5,037,003	\$0	\$0	\$0	\$5,037,003	\$0
Production Depreciation Exp Other Plant	\$1,932,603	\$0	\$0	\$0	\$1,932,603	\$0
Production Depreciation Exp Renewable Plant - Wind	\$2,376,571	\$0	\$0	\$0	\$285,163	\$2,091,408
Production Depreciation Exp Renewable Plant - Solar	\$161,231	\$0	\$0	\$0	\$88,838	\$72,394
Distribution Depreciation Exp (Customer Related)	\$2,450,791	\$0	\$2,450,791	\$0	\$0	\$0
Distribution Depreciation Exp (Demand Related)	\$5,217,579	\$0	\$0	\$5,217,579	\$0	\$0
Other Plant Depreciation Exp	\$2,039,039	\$49,795	\$306,253	\$1,034,633	\$437,402	\$210,956
Operation and Maintenance Expense						
Fuel	\$11,985,640	\$0	\$0	\$0	\$0	\$11,985,640
Other	\$34,778,829	\$0	\$0	\$0	\$24,196,903	\$10,581,926
Production O&M Expense	\$46,764,469	\$0	\$0	\$0	\$24,196,903	\$22,567,566
Transmission O&M Expense	\$12,314,042	\$0	\$0	\$0	\$12,314,042	\$0
Distribution O&M Expense	\$7,000,164	\$0	\$2,826,650	\$4,173,514	\$0	\$0
Other Costs and Revenues						
Other Operating Revenues	(\$1,406,722)	\$0	\$0	\$0	\$0	(\$1,406,722)
Customer Account Expense	\$7,626,390	\$7,626,390	\$0	\$0	\$0	\$0
Customer Service Expense	\$3,910,593	\$3,910,593	\$0	\$0	\$0	\$0
Administrative & General Expense	\$13,344,700	\$5,253,038	\$2,098,277	\$2,680,338	\$2,584,646	\$728,400
Taxes						
Taxes Other Than Income	\$6,335,642	\$2,722,127	\$1,124,530	\$1,428,034	\$922,919	\$138,031
Deferred Taxes	\$3,380,669	\$423,854	\$332,575	\$736,345	\$1,261,160	\$626,736
Federal and State Income Taxes	(\$1,118,445)	(\$140,226)	(\$110,027)	(\$243,609)	(\$417,236)	(\$207,346)
Total Investment Tax Credit	(\$24,858)	(\$3,117)	(\$2,445)	(\$5,414)	(\$9,273)	(\$4,608)
Incremental Income Tax (with Revenue Change)	(\$586,850)	(\$73,577)	(\$57,732)	(\$127,822)	(\$218,925)	(\$108,795)
Grand Total	\$140,263,997	\$20,342,991	\$12,499,863	\$26,822,545	\$53,458,333	\$27,140,264
Transmission Costs					\$12,314,042	
60% G&T to be recovered through fixed rates / 40% thru variable rates					\$32,075,000	\$21,383,333
Recovered through on-peak demand rates						
Remainder of Fixed G/T in On-Peak Adder Rates (if negative value, reduction in Energy Base adder)					\$32,075,000	\$0
Net G&T to be added to Base Energy Rates						\$21,383,333
		Customer Costs	Grid Connection	Demand Costs	Gen Tran Demand	Energy Costs
			Distribution	Generation and Transmission		
Per Day charges (Individual)	\$0.41477		\$0.25486			
Individual Customer and Grid Connection Charges shown as Monthly	\$12.62		\$7.75			
Total Customer and Grid Connection (monthly)			\$20.37			
Distribution Demand Costs: (Cost Based Customer Max Demand)			\$2,564,020			
Distribution Demand Costs: (If recovered entirely through per kWh charge)			\$0.03294			
Generation / Transmission Costs through On-Peak Demand Charges					\$6,576,811	
Generation / Transmission Costs (if recovered entirely through per kWh charges)					\$0.06566	
Energy (with 40% Fixed G&T in Base)						
Base Energy Cost					\$	0.03333
Fixed G&T not recovered through On-Peak Demand or On-Peak Energy Adders					\$	0.02626
Fixed G&T not in Base, if recovered on total Energy					\$	0.03940
Base Energy Rate					\$	0.05960
Energy if Trans 100% Base and G 40% Base						
Base Energy Cost					\$	0.03333
Fixed G&T not recovered through On-Peak Demand or On-Peak Energy Adders					\$	0.03534
Fixed G&T not in Base, if recovered on total Energy					\$	0.03032
Base Energy Rate (Alt 2)					\$	0.06867
Cost above Average LMP during On Peak hours:						
OP 1 Winter					\$	0.00512
OP 1 Summer					\$	0.00644
OP 2 Winter					\$	0.00319
OP 2 Summer					\$	0.01608
OP 3 Winter					\$	0.00693
OP 3 Summer					\$	0.00903
Bill Statistics	Customers	Customers	Ratchet Demand	On Peak Demand	KWH (000)	
	134,449	134,449	10,461,137	8,128,303	814,189	

MADISON GAS AND ELECTRIC COMPANY
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FOR THE YEAR JANUARY 1 - DECEMBER 31, 2021

TYPE OF SERVICE	BILLING UNITS	NUMBER OF BILLING UNITS	PRESENT RATES	PRESENT REVENUES	2021 PROPOSED RATES	2021 PROPOSED REVENUES	PROPOSED REVENUE INCREASE	
							AMOUNT	PERCENT
RESIDENTIAL SERVICE Rg-1								
CUSTOMER CHARGE	Bills Days	1,646,591 365	\$0.62466 per bill per day \$19.00 per bill per month	\$31,285,352	\$0.62466 per bill per day \$19.00 per bill per month	\$31,285,352		
DISTRIBUTION SERVICE								
Distribution Charge	kWh	773,572,023	\$0.03378 per kWh	\$26,132,346	\$0.03378 per kWh	\$26,132,346		
DISTRIBUTION SERVICE TOTAL				\$26,132,346		\$26,132,346		
ELECTRICITY SERVICE								
Winter Electricity	kWh	477,220,071	\$0.09355 per kWh	\$44,643,938	\$0.09355 per kWh	\$44,643,938		
Summer Electricity	kWh	291,871,537	\$0.10472 per kWh	\$30,564,787	\$0.10472 per kWh	\$30,564,787		
Shared Solar Transmission Revenue		4,480,415	\$0.00800 per kWh	\$35,843	\$0.00800 per kWh	\$35,843		
Renewable Resource Revenue - Shared Solar	kWh		\$0.10170 per kWh	\$455,676	\$0.10170 per kWh	\$455,676		
25-Year Levelized Rate (Net of Transmission)	kWh		\$0.07653 per kWh	\$342,885	\$0.07653 per kWh	\$342,885		
25-Year Locked-in Standby Rate	kWh		\$0.02517 per kWh	\$112,791	\$0.02517 per kWh	\$112,791		
GPT	kWh	53,353,990	\$0.01000 per kWh	\$533,540	\$0.01000 per kWh	\$533,540		
Act 141 Fixed Charge	Fixed			\$11		\$11		
Act 141 Credit	Fixed	317,154	(\$0.00242)	(\$768)	(\$0.00242)	(\$768)		
ELECTRICITY SERVICE TOTAL				\$76,233,028		\$76,233,028		
TOTAL Rg-1		773,572,023		\$133,650,726		\$133,650,726	\$0	0.00%

MADISON GAS AND ELECTRIC COMPANY
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TYPE OF SERVICE	BILLING UNITS	NUMBER OF BILLING UNITS	PRESENT RATES	PRESENT REVENUES	2021 PROPOSED RATES	2021 PROPOSED REVENUES	PROPOSED REVENUE INCREASE AMOUNT	PERCENT
RESIDENTIAL TIME OF USE Rg-2								
CUSTOMER CHARGE	Bills Days	7,821 365	\$0.62466 per bill per day \$19.00 per bill per month	\$148,600	\$0.62466 per bill per day \$19.00 per bill per month	\$148,600		
DISTRIBUTION SERVICE								
Distribution Charge	kWh	11,864,302	\$0.03378 per kWh	\$400,776	\$0.03378 per kWh	\$400,776		
DISTRIBUTION SERVICE TOTAL		11,864,302		\$400,776		\$400,776		
ELECTRICITY SERVICE								
On-Peak 1 Energy Adder								
Winter	kWh	559,085	\$0.14546 per kWh	\$81,325	\$0.14546 per kWh	\$81,325		
Summer	kWh	365,753	\$0.18522 per kWh	\$67,745	\$0.18522 per kWh	\$67,745		
On-Peak 1 Energy Adder Subtotal		924,838		\$149,070		\$149,070		
On-Peak 2 Energy Adder								
Winter	kWh	993,336	\$0.13800 per kWh	\$137,080	\$0.13800 per kWh	\$137,080		
Summer	kWh	701,033	\$0.22088 per kWh	\$154,844	\$0.22088 per kWh	\$154,844		
On-Peak 2 Energy Adder Subtotal		1,694,368		\$291,924		\$291,924		
On-Peak 3 Energy Adder								
Winter	kWh	750,225	\$0.17167 per kWh	\$128,791	\$0.17167 per kWh	\$128,791		
Summer	kWh	469,529	\$0.18320 per kWh	\$86,018	\$0.18320 per kWh	\$86,018		
On-Peak 3 Energy Adder Subtotal		1,219,754		\$214,809		\$214,809		
Base Energy								
Winter	kWh	7,212,745	\$0.04122 per kWh	\$297,309	\$0.04122 per kWh	\$297,309		
Summer	kWh	4,580,440	\$0.04122 per kWh	\$188,806	\$0.04122 per kWh	\$188,806		
Base Energy Subtotal		11,793,185		\$486,115		\$486,115		
Shared Solar Transmission Revenue		71,118	\$0.00800 per kWh	\$569	\$0.00800 per kWh	\$569		
Renewable Resource Revenue - Shared SolakWh			\$0.10170 per kWh	\$7,233	\$0.10170 per kWh	\$7,233		
25-Year Levelized Rate (Net of Transmission) kWh			\$0.07653 per kWh	\$5,443	\$0.07653 per kWh	\$5,443		
25-Year Looked-in Standby Rate			\$0.02517 per kWh	\$1,790	\$0.02517 per kWh	\$1,790		
GPT	kWh	947,827	\$0.01000 per kWh	\$9,478	\$0.01000 per kWh	\$9,478		
Act 141 Fixed Charge	Fixed			\$16		\$16		
Act 141 Credit	kWh	384,840	(\$0.00242) per kWh	(\$931)	(\$0.00242)	(\$931)		
ELECTRICITY SERVICE TOTAL		11,793,185		\$1,158,283		\$1,158,283		
TOTAL Rg-2		11,793,185		\$1,707,659		\$1,707,659	\$0	0.00%

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TYPE OF SERVICE	BILLING UNITS	NUMBER OF BILLING UNITS	PRESENT RATES	PRESENT REVENUES	2021 PROPOSED RATES	2021 PROPOSED REVENUES	PROPOSED REVENUE INCREASE AMOUNT	PERCENT
NEW RESIDENTIAL TIME OF USE Rg-2A								
CUSTOMER CHARGE	Bills	0	\$0.62466 per bill per day	\$0	\$0.62466 per bill per day	\$0		
	Days	365	\$19.00 per bill per month		\$19.00 per bill per month			
DISTRIBUTION SERVICE								
Distribution Charge	kWh	0	\$0.03378 per kWh	\$0	\$0.03378 per kWh	\$0		
DISTRIBUTION SERVICE TOTAL		0		\$0		\$0		
ELECTRICITY SERVICE								
On-Peak 1 Energy Adder								
Winter	kWh	0	\$0.14546 per kWh	\$0	\$0.11196 per kWh	\$0		
Summer	kWh	0	\$0.18522 per kWh	\$0	\$0.11328 per kWh	\$0		
On-Peak 1 Energy Adder Subtotal		0		\$0		\$0		
On-Peak 2 Energy Adder								
Winter	kWh	0	\$0.13800 per kWh	\$0	\$0.11003 per kWh	\$0		
Summer	kWh	0	\$0.22088 per kWh	\$0	\$0.12292 per kWh	\$0		
On-Peak 2 Energy Adder Subtotal		0		\$0		\$0		
On-Peak 3 Energy Adder								
Winter	kWh	0	\$0.17167 per kWh	\$0	\$0.11377 per kWh	\$0		
Summer	kWh	0	\$0.18320 per kWh	\$0	\$0.11587 per kWh	\$0		
On-Peak 3 Energy Adder Subtotal		0		\$0		\$0		
Base Energy								
Winter	kWh	0	\$0.04122 per kWh	\$0	\$0.05959 per kWh	\$0		
Summer	kWh	0	\$0.04122 per kWh	\$0	\$0.05959 per kWh	\$0		
Base Energy Subtotal		0		\$0		\$0		
Shared Solar Transmission Revenue			\$0.00800 per kWh	\$0	\$0.00800 per kWh	\$0		
Renewable Resource Revenue - Shared Solar kWh			\$0.10170 per kWh	\$0	\$0.10170 per kWh	\$0		
25-Year Levelized Rate (Net of Transmission) kWh			\$0.07653 per kWh	\$0	\$0.07653 per kWh	\$0		
25-Year Looked-in Standby Rate			\$0.02517 per kWh	\$0	\$0.02517 per kWh	\$0		
GPT	kWh		\$0.01000 per kWh	\$0	\$0.01000 per kWh	\$0		
Act 141 Fixed Charge	Fixed							
Act 141 Credit	kWh		(\$0.00242) per kWh					
ELECTRICITY SERVICE TOTAL		0		\$0		\$0		
TOTAL Rg-2		0		\$0		\$0	\$0	

RG-2A Rated Design Components

Base Generation / Transmission Adder set at 40% as in TOU Cost Study

	MGE		WPL		WEPCO		WPS		NSP		MGE	
	Single	Three	Single	Three	Single	Three	Single	Three	Single	Three	Single	Three
Fixed Charge	19.00	19.00	15.00	22.50	16.00	16.00	21.00	21.00	17.00	20.50	19.00	19.00

Variable Charge Cost Components:

	Summer	Winter
1 Distribution Rate	0.03378	0.03378
2 TOU Base Gen/Tran Adder (40%)	0.02626	0.02626
2a Base Adder Adjustment - lowers (2) to: 40%	(0.00001)	(0.00001)
3 Gen / Tran Demand costs added to peaks	0.10684	0.10684
4 Base Energy (includes allocated costs)	0.03333	0.03333
5 LMP differential - morning peak	0.00644	0.00512
6 LMP differential - midday peak	0.01608	0.00319
7 LMP differential - dusk peak	0.00903	0.00693

	Proposed MGE		WPL		WEPCO		WPS		NSP		Current MGE Rg-2	
	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter
Total Variable Charges by Period:												
Morning peak (1+2+2a+3+4+5)	0.20665	0.20533	0.17900	0.13660	0.19625	0.19625	0.10708	0.10708	0.20200	0.17700	0.26022	0.22046
Mid-day peak (1+2+2a+3+4+6)	0.21629	0.20340	0.17900	0.13660	0.19625	0.19625	0.24627	0.24627	0.20200	0.17700	0.29588	0.21300
Dusk peak (1+2+2a+3+4+7)	0.20924	0.20714	0.13660	0.17900	0.19625	0.19625	0.10708	0.10708	0.20200	0.17700	0.25820	0.24667
Evening (off-peak) (1+2+2a+4)	0.09337	0.09337	0.07400	0.07400	0.08868	0.08868	0.06185	0.06185	0.07775	0.07775	0.07500	0.07500

**MADISON GAS AND ELECTRIC COMPANY
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TYPE OF SERVICE	BILLING UNITS	NUMBER OF BILLING UNITS	PRESENT RATES	PRESENT REVENUES	2021 PROPOSED RATES	2021 PROPOSED REVENUES	PROPOSED REVENUE INCREASE	
							AMOUNT	PERCENT
RESIDENTIAL CONTROLLED WATER HEATING Rw-1								
CUSTOMER CHARGE	Bills	329	\$0.28000 per bill per day	\$2,802	\$0.28000 per bill per day	\$2,802		
	Day	365	\$8.52 per bill per month		\$8.52 per bill per month			
DISTRIBUTION SERVICE								
Distribution Charge	kWh	48,500	\$0.02985 per kWh	\$1,448	\$0.02985 per kWh	\$1,448		
DISTRIBUTION SERVICE TOTAL		48,500		\$1,448		\$1,448		
ELECTRICITY SERVICE								
Winter Energy	kWh	34,169	\$0.03033 per kWh	\$1,036	\$0.03033 per kWh	\$1,036		
Summer Energy	kWh	14,330	\$0.03654 per kWh	\$524	\$0.03654 per kWh	\$524		
ELECTRICITY SERVICE TOTAL		48,500		\$1,560		\$1,560		
TOTAL Rw-1		48,500		\$5,810		\$5,810	\$0	0.00%

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RESIDENTIAL RENEWABLE GENERATION NET METERING: Rg-7								
CUSTOMER CHARGE	Bills	439	\$0.35512 per day per bill	\$4,742	\$0.35512 per day per bill	\$4,742		
	Days	365	\$10.80 per bill per month		\$10.80 per bill per month			
DISTRIBUTION SERVICE								
Distribution Charge	kWh	86,572	\$0.03208 per kWh	\$2,777	\$0.03208 per kWh	\$2,777		
DISTRIBUTION SERVICE TOTAL		86,572		\$2,777		\$2,777		
ELECTRICITY SERVICE								
Winter	kWh	78,126	\$0.11258 per kWh	\$8,795	\$0.11258 per kWh	\$8,795		
Summer	kWh	8,446	\$0.12711 per kWh	\$1,074	\$0.12711 per kWh	\$1,074		
Base Energy		86,572		\$9,869		\$9,869		
GPT		28,910	\$0.01000 per kWh	\$289	\$0.01000 per kWh	\$289		
ELECTRICITY SERVICE TOTAL		86,572		\$10,158		\$10,158		
TOTAL Rg-7		115,482		\$17,677		\$17,677	\$0	0.00%

Madison Gas and Electric Company

Docket 3270-UR-123

Attachment C

Schedule 13

Small Commercial and Industrial Rates

MADISON GAS AND ELECTRIC COMPANY
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SUMMARY OF ESTIMATED
ELECTRIC BILLING STATISTICS AND REVENUES
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TYPE OF SERVICE	BILLING UNITS	NUMBER OF BILLING UNITS	PRESENT RATES	PRESENT REVENUES	2021 PROPOSED RATES	2021 PROPOSED REVENUES	PROPOSED REVENUE INCREASE AMOUNT	PERCENT
SMALL C/I LIGHTING AND POWER Cg-5 (0-20 kW)								
CUSTOMER CHARGE	Bills	181,235	\$0.78669 per day per bill	\$4,336,679	\$0.78669 per day per bill	\$4,336,679		
	Day	365	\$23.93 per bill per month		\$23.93 per bill per month			
DISTRIBUTION SERVICE								
Distribution Charge	kWh	190,023,400	\$0.02295 per kWh	\$4,361,037	\$0.02295 per kWh	\$4,361,037		
DISTRIBUTION SERVICE TOTAL		190,023,400		\$4,361,037		\$4,361,037		
ELECTRICITY SERVICE								
Winter Electricity	kWh	123,780,390	\$0.09082 per kWh	\$11,241,735	\$0.09082 per kWh	\$11,241,735		
Summer Electricity	kWh	65,674,069	\$0.10224 per kWh	\$6,714,517	\$0.10224 per kWh	\$6,714,517		
Shared Solar Transmission Revenue		568,942	\$0.00800 per kWh	\$4,552	\$0.00800 per kWh	\$4,552		
Renewable Resource Revenue - Shared SkWh			\$0.10170 per kWh	\$57,864	\$0.10170 per kWh	\$57,864		
25-Year Levelized Rate (Net of Transmiss kWh			\$0.07653 per kWh	\$43,541	\$0.07653 per kWh	\$43,541		
25-Year Locked-in Standby Rate			\$0.02517 per kWh	\$14,323	\$0.02517 per kWh	\$14,323		
GPT	kWh	1,621,333	\$0.01000 per kWh	\$16,213	\$0.01000 per kWh	\$16,213		
Act 141 Fixed Charge	Fixed			\$ 296		\$ 296		
Act 141 Credit	kWh	7,668,468	(\$0.00229) per kWh	(\$17,561)	(\$0.00229)	(\$17,561)		
ELECTRICITY SERVICE TOTAL		189,454,459		\$18,017,616		\$18,017,616		
				\$26,715,332		\$26,715,332	\$0	0.00%
TOTAL Cg-5		190,023,400		\$26,699,119				

MADISON GAS AND ELECTRIC COMPANY
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SUMMARY OF ESTIMATED
ELECTRIC BILLING STATISTICS AND REVENUES
FOR THE YEAR JANUARY 1 - DECEMBER 31, 2021

TYPE OF SERVICE	BILLING UNITS	NUMBER OF BILLING UNITS	PRESENT RATES	PRESENT REVENUES	2021 PROPOSED RATES	2021 PROPOSED REVENUES	PROPOSED REVENUE INCREASE	
							AMOUNT	PERCENT
<u>SMALL C/I OPTIONAL TIME OF USE Cg-3 (<20 kW)</u>								
CUSTOMER CHARGE (1 PHASE)	Bills	5,671	\$0.73249 per day per bill	\$126,349	\$0.73249 per day per bill	\$126,349		
	Days	365	\$22.28 per bill per month		\$22.28 per bill per month			
CUSTOMER CHARGE (3 PHASE)	Bills	699	\$1.00249 per day per bill	\$21,314	\$1.00249 per day per bill	\$21,314		
	Days	365	\$30.49 per bill per month		\$30.49 per bill per month			
TOTAL CUSTOMER		6,370		\$147,663		\$147,663	\$0	
		2,325,050						
DISTRIBUTION SERVICE								
Distribution Charge	kWh	8,774,577	\$0.02295 per kWh	\$201,359	\$0.02295 per kWh	\$201,359		
DISTRIBUTION SERVICE TOTAL		8,774,577		\$201,359		\$201,359		
ELECTRICITY SERVICE								
On-Peak 1 Energy Adder								
	Winter	kWh	405,581	\$0.13067 per kWh	\$52,997	\$0.13067 per kWh	\$52,997	
	Summer	kWh	205,791	\$0.16932 per kWh	\$34,845	\$0.16932 per kWh	\$34,845	
On-Peak Energy 1 Adder Subtotal		611,372		\$87,842		\$87,842		
On-Peak 2 Energy Adder								
	Winter	kWh	728,364	\$0.12032 per kWh	\$87,637	\$0.12032 per kWh	\$87,637	
	Summer	kWh	352,032	\$0.17719 per kWh	\$62,377	\$0.17719 per kWh	\$62,377	
On-Peak 2 Energy Adder Subtotal		1,080,396		\$150,014		\$150,014		
On-Peak 3 Energy Adder								
	Winter	kWh	611,724	\$0.15257 per kWh	\$93,331	\$0.15257 per kWh	\$93,331	
	Summer	kWh	237,267	\$0.15239 per kWh	\$36,157	\$0.15239 per kWh	\$36,157	
On-Peak 3 Energy Adder Subtotal		848,990		\$129,488		\$129,488		
Base Energy								
	Winter	kWh	5,965,453	\$0.04573 per kWh	\$272,800	\$0.04573 per kWh	\$272,800	
	Summer	kWh	2,809,124	\$0.04573 per kWh	\$128,461	\$0.04573 per kWh	\$128,461	
Base Energy Subtotal		8,774,577		\$401,261		\$401,261		
	GPT	kWh	114,792	\$0.01000 per kWh	\$1,148	\$0.01000 per kWh	\$1,148	
Act 141 Fixed Charge	Fixed			\$ 38		\$ 38		
Act 141 Credit	kWh	932,909	(\$0.00229) per kWh	(\$2,136)	(\$0.00229) per kWh	(\$2,136)		
ELECTRICITY SERVICE TOTAL		8,774,577		\$767,654		\$767,654		
TOTAL Cg-3		8,774,577		\$1,116,676		\$1,116,676	\$0	0.00%

**MADISON GAS AND ELECTRIC COMPANY
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SUMMARY OF ESTIMATED
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FOR THE YEAR JANUARY 1 - DECEMBER 31, 2021**

TYPE OF SERVICE	BILLING UNITS	NUMBER OF BILLING UNITS	PRESENT RATES	PRESENT REVENUES	2021 PROPOSED RATES	2021 PROPOSED REVENUES	PROPOSED REVENUE INCREASE	
							AMOUNT	PERCENT
<u>SMALL COMMERCIAL & INDUSTRIAL RENEWABLE GENERATION NET METERING: Cg-7</u>								
CUSTOMER CHARGE	Bills	48	\$0.34308 per day per bill	\$501	\$0.34308 per day per bill	\$501		
	Days	365	\$10.44 per bill per month		\$10.44 per bill per month			
DISTRIBUTION SERVICE								
	Distribution Charge	kWh	49,086	\$0.01780 per kWh	\$874	\$0.01780 per kWh	\$874	
DISTRIBUTION SERVICE TOTAL			49,086		\$874	\$874		
ELECTRICITY SERVICE								
	Winter	kWh	33,452	\$0.10856 per kWh	\$3,632	\$0.10856 per kWh	\$3,632	
	Summer	kWh	15,633	\$0.12007 per kWh	\$1,877	\$0.12007 per kWh	\$1,877	
	Base Energy		49,086		\$5,509	\$5,509		
	GPT		9,813	\$0.01000 per kWh	\$98	\$0.01000 per kWh	\$98	
ELECTRICITY SERVICE TOTAL			49,086		\$5,607	\$5,607		
TOTAL Cg-7			49,086		\$6,982	\$6,982	\$0	0.00%

Madison Gas and Electric Company

Docket 3270-UR-123

Attachment C

Schedule 14

Medium Commercial and Industrial Rates

Medium Commercial and Industrial Rate Design

Cg-4 , Cg-8

Tariff Changes

See Schedule 5

Summary Points:

- Rate components and revenue for Cg-4 retained at the same level
- Reference to Level A and Level B is eliminated as rates at these levels have been the same for several years and will continue to be so.
- Comparison of total rate components with Cg-2 and Cg-6 illustrates non-linear progression of per-kWh rates that remains between these classes.
- Cg-8 has no rate changes

Overview:

Legacy rate design has anomalies between rates in this class and the large commercial and industrial rate classes. These are illustrated in the comparison sheet. Since no rate changes are being proposed in this proceeding, only the combination of Level A and Level B in the Cg-4 class is being done in this proceeding as this does not change any rate components or class revenue.

Cg-8 has no rate changes.

MADISON GAS AND ELECTRIC COMPANY
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Attachment C
Schedule 14
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TYPE OF SERVICE	BILLING UNITS	NUMBER OF BILLING UNITS	PRESENT RATES	PRESENT REVENUES	2021 PROPOSED RATES	2021 PROPOSED REVENUES	PROPOSED REVENUE INCREASE AMOUNT	PERCENT
C/I LIGHTING AND POWER TIME-OF-USE SERVICE Cg-4								
CUSTOMER CHARGE								
Single Phase	Bills	3,223	\$6.19251 per day per bill	\$607,070	\$6.19251 per day per bill	\$607,070		
	Day	365	\$188.36 per bill per month		\$188.36 per bill per month			
Three Phase	Bills	40,159	\$6.32048 per day per bill	\$7,720,485	\$6.32048 per day per bill	\$7,720,485		
	Day	365	\$192.25 per bill per month		\$192.25 per bill per month			
TOTAL CUSTOMER		43,382	\$6.31097	\$8,327,555		\$8,327,555	\$0	
DISTRIBUTION SERVICE								
Customer Maximum Demand	kW	2,591,893	\$0.08480 per kW per day	\$6,685,357	\$0.08480 per kW per day	\$6,685,357		
			\$2.58 per kW		\$2.58 per kW			
Distribution Charge	kWh	633,762,474	\$0.01001 per kWh	\$6,343,962	\$0.01001 per kWh	\$6,343,962		
Primary Voltage Discount	kW	0	(\$0.00328) per kW per day	\$0	(\$0.00328) per kW per day	\$0		
Primary Voltage Discount	kWh	0	(\$0.00100) per kWh	\$0	(\$0.00100) per kWh	\$0		
Transformer Equipment Discount	kW	0	(\$0.00328) per kW per day	\$0	(\$0.00328) per kW per day	\$0		
			\$0.00000 per kW		(\$0.10000) per kW			
DISTRIBUTION SERVICE TOTAL				\$13,029,319		\$13,029,319		
ELECTRICITY SERVICE								
Maximum Monthly On-Peak Demand:								
	Winter	kW	\$0.34931 per kW per day	\$12,402,606	\$0.34931 per kW per day	\$12,402,606		
			\$10.62 per kW		\$10.62 per kW			
	Summer	kW	\$0.42653 per kW per day	\$9,052,548	\$0.42653 per kW per day	\$9,052,548		
			\$12.97 per kW		\$12.97 per kW			
Maximum Monthly On-Peak Demand: Subtotal		1,865,087	\$0.37820	\$21,455,154	\$0.37820	\$21,455,154		
On-Peak 1 Energy Adder								
	Winter	kWh	\$0.04245 per kWh	\$1,931,376	\$0.04245 per kWh	\$1,931,376		
	Summer	kWh	\$0.05545 per kWh	\$1,471,493	\$0.05545 per kWh	\$1,471,493		
On-Peak 1 Energy Adder Subtotal		72,034,938		\$3,402,869		\$3,402,869		
On-Peak 2 Energy Adder								
	Winter	kWh	\$0.04175 per kWh	\$3,023,844	\$0.04175 per kWh	\$3,023,844		
	Summer	kWh	\$0.06177 per kWh	\$2,715,716	\$0.06177 per kWh	\$2,715,716		
On-Peak 2 Energy Adder Subtotal		116,392,373		\$5,739,560		\$5,739,560		
On-Peak 3 Energy Adder								
	Winter	kWh	\$0.04631 per kWh	\$1,737,395	\$0.04631 per kWh	\$1,737,395		
	Summer	kWh	\$0.05402 per kWh	\$1,157,323	\$0.05402 per kWh	\$1,157,323		
On-Peak 3 Energy Adder Subtotal		58,940,591		\$2,894,718		\$2,894,718		
Maximum Monthly On-Peak Demand Discount for LLF Customers								
	Winter	kW		(\$145,543)	(\$0.17466)	(\$145,543)		
	Summer	kW		(\$120,378)	(\$0.21327)	(\$120,378)		
Base Energy								
	Winter	kWh	\$0.04148 per kWh	\$16,617,832	\$0.04148 per kWh	\$16,617,832		
	Summer	kWh	\$0.04148 per kWh	\$9,448,101	\$0.04148 per kWh	\$9,448,101		
Base Energy Subtotal		628,397,626		\$26,065,933		\$26,065,933		
Interruptible Credit								
IS-4 Demand	kW	4,263	(\$0.13151) per kW per day	(\$17,052)	(\$0.13151) per kW per day	(\$17,052)		
			(\$4.00) per kW		(\$4.00) per kW			
SCS Demand	kW	0	\$0.00000 per kW per day	\$0	\$0.00000 per kW per day	\$0		
			\$0.00 per kW		\$0.00 per kW			
Interruptible Credit Subtotal		4,263		(\$17,052)		(\$17,052)		
Shared Solar Transmission Revenue								
Renewable Resource Revenue - Shared Solar	kWh	1,991,296	\$0.00800 per kWh	\$15,930	\$0.00800 per kWh	\$15,930		
	kWh		\$0.10170 per kWh	\$202,523	\$0.10170 per kWh	\$202,523		
	kWh		\$0.07653 per kWh		\$0.07653 per kWh			
25-Year Levelized Rate (Net of Transmission)								
25-Year Locked-in Standby Rate								
ER Renewable Resource Revenue - Assigned kWh								
Renewable Resource Revenue - Unassigned kWh	kWh	3,373,552	Variable per project	\$0	Variable per project	\$0		
	kWh	285,015	Variable per project	\$215,785	Variable per project	\$215,785		
GPT	kWh	6,150,975	\$0.01000 per kWh	\$61,509	\$0.01000 per kWh	\$61,509		
Act 141 Fixed Charge								
Act 141 Credit	Fixed			\$ 1,145		\$ 1,145		
	kWh	46,677,377		(\$106,891)		(\$106,891)		
ELECTRICITY SERVICE TOTAL		628,397,626		\$59,449,477		\$59,449,477	\$0	
TOTAL C/I LIGHTING AND POWER TIME-OF-USE SERVICE Cg-4								
		628,397,626		\$80,806,351		\$136,988	\$80,806,351	0.00%

	CG-4		CG-2		CG-6		CG2 vs CG4		CG6 vs CG2	
	Single	Three	Single	Three	Single	Three	Single	Three	Single	Three
Fixed Charge (per Month equivalent)	188.36	192.25	441.04	441.04	771.06	771.06	252.68	248.79	330.02	330.02
	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter
Distribution (Cust Max) Demand Rate (per KW)	2.58	2.58	3.22	3.22	3.22	3.22	0.64	0.64	0.00	0.00
G&T (Onpeak) Demand Rate (per KW)	12.97	10.62	13.75	11.36	13.75	11.36	0.78	0.74	0.00	0.00
Variable Charge Cost Components:	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter
1 Distribution Rate	0.01001	0.01001	0.01022	0.01022	0.00549	0.00549	0.00021	0.00021	(0.00473)	(0.00473)
2 Base Energy (includes allocated costs)	0.04148	0.04148	0.04930	0.04930	0.04935	0.04935	0.00782	0.00782	0.00005	0.00005
3 Morning Peak Adder	0.05545	0.04245	0.02802	0.01747	0.03319	0.01927	(0.02743)	(0.02498)	0.00517	0.00180
4 Mid-day Peak Adder	0.06177	0.04175	0.04595	0.01596	0.03776	0.01796	(0.01582)	(0.02579)	(0.00819)	0.00200
5 Dusk Peak Adder	0.05402	0.04631	0.02668	0.02270	0.02707	0.02588	(0.02734)	(0.02361)	0.00039	0.00318
	Proposed MGE		Proposed MGE		Proposed MGE		Proposed MGE		Proposed MGE	
Total Variable Charges by Period:	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter
Morning peak (1+2+3)	0.10694	0.09394	0.08754	0.07699	0.08803	0.07411	-0.01940	-0.01695	0.00049	-0.00288
Mid-day peak (1+2+4)	0.11326	0.09324	0.10547	0.07548	0.09260	0.07280	-0.00779	-0.01776	-0.01287	-0.00268
Dusk peak (1+2+5)	0.10551	0.09780	0.08620	0.08222	0.08191	0.08072	-0.01931	-0.01558	-0.00429	-0.00150
Evening (off-peak) (1+2)	0.05149	0.05149	0.05952	0.05952	0.05484	0.05484	0.00803	0.00803	-0.00468	-0.00468

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TYPE OF SERVICE	BILLING UNITS	NUMBER OF BILLING UNITS	PRESENT RATES	PRESENT REVENUES	2021 PROPOSED RATES	2021 PROPOSED REVENUES	PROPOSED REVENUE INCREASE AMOUNT	PERCENT
MEDIUM COMMERCIAL & INDUSTRIAL RENEWABLE GENERATION NET METERING: Cg-8								
CUSTOMER CHARGE								
Single Phase	Bills	12	\$1,637.42 per day per bill	\$598	\$1,637.42 per day per bill	\$598		
	Day	365	\$49.80 per bill per month		\$49.80 per bill per month			
Three Phase	Bills	84	\$1,762.15 per day per bill	\$4,502	\$1,762.15 per day per bill	\$4,502		
	Day	365	\$53.60 per bill per month		\$53.60 per bill per month			
TOTAL CUSTOMER		96		\$5,100		\$5,100		
DISTRIBUTION SERVICE								
Transitional Customer Maximum Demand	kW	5,786	\$0.08533 per kW per day \$2.60 per kW	\$15,017	\$0.08533 per kW per day \$2.60 per kW	\$15,017		
Distribution Charge	kWh	826,170	\$0.01135 per kWh	\$9,377	\$0.01135 per kWh	\$9,377		
DISTRIBUTION SERVICE TOTAL		826,170		\$24,394		\$24,394		
ELECTRICITY SERVICE								
Maximum Monthly On-Peak Demand:								
Winter	kW	2,858	\$0.34794 per kW per day \$10.58 per kW	\$30,251	\$0.34794 per kW per day \$10.58 per kW	\$30,251		
Summer	kW	1,680	\$0.42677 per kW per day \$12.98 per kW	\$21,804	\$0.42677 per kW per day \$12.98 per kW	\$21,804		
Maximum Monthly On-Peak Demand: Subtotal		4,538		\$52,055		\$52,055		
On-Peak 1 Energy Adder								
Winter	kWh	51,706	\$0.05092 per kWh	\$2,633	\$0.05092 per kWh	\$2,633		
Summer	kWh	30,067	\$0.05758 per kWh	\$1,731	\$0.05758 per kWh	\$1,731		
On-Peak 1 Energy Adder Subtotal		81,773		\$4,364		\$4,364		
On-Peak 2 Energy Adder								
Winter	kWh	91,563	\$0.05044 per kWh	\$4,618	\$0.05044 per kWh	\$4,618		
Summer	kWh	52,544	\$0.06270 per kWh	\$3,295	\$0.06270 per kWh	\$3,295		
On-Peak 2 Energy Adder Subtotal		144,107		\$7,913		\$7,913		
On-Peak 3 Energy Adder								
Winter	kWh	53,890	\$0.05118 per kWh	\$2,758	\$0.05118 per kWh	\$2,758		
Summer	kWh	33,193	\$0.05758 per kWh	\$1,911	\$0.05758 per kWh	\$1,911		
On-Peak 3 Energy Adder Subtotal		87,083		\$4,669		\$4,669		
Base Energy								
Winter	kWh	521,827	\$0.04646 per kWh	\$24,244	\$0.04646 per kWh	\$24,244		
Summer	kWh	304,343	\$0.04646 per kWh	\$14,140	\$0.04646 per kWh	\$14,140		
Base Energy Subtotal		826,170		\$38,384		\$38,384		
GPT		10,914	\$0.01000 per kWh	\$109	\$0.01000 per kWh	\$109		
Pg-1 Revenues		0	\$0.03150 per kWh	\$0	\$0.03150 per kWh	\$0		
ELECTRICITY SERVICE TOTAL		826,170		\$107,494		\$107,494		
TOTAL Cg-8		826,170		\$136,988		\$136,988	\$0	0.00%

Madison Gas and Electric Company

Docket 3270-UR-123

Attachment C

Schedule 15

Large Commercial and Industrial Rates

Large Commercial and Industrial Rate Design

Cg-2, Cg-6

Tariff Changes None

Summary Points:

- The rates and the revenue requirements for the classes are being retained at the same levels in this proceeding.

Overview:

See Schedule 14 description.

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TYPE OF SERVICE	BILLING UNITS	NUMBER OF BILLING UNITS	PRESENT RATES	PRESENT REVENUES	2021 PROPOSED RATES	2021 PROPOSED REVENUES	PROPOSED REVENUE INCREASE AMOUNT	PERCENT
C/I LIGHTING AND POWER SERVICE TIME-OF-USE CG-2 (OVER 200 kW)								
CUSTOMER CHARGE	Bills Days	4,701 365	\$14.50000 per day per bill \$441.04 per bill per month	\$2,073,337	\$14.50000 per day per bill \$441.04 per bill per month	\$2,073,337		
DISTRIBUTION SERVICE								
Customer Maximum Demand	kW	2,529,663	\$0.10600 per kW per day \$3.22 per kW	\$8,156,055	\$0.10600 per kW per day \$3.22 per kW	\$8,156,055		
Distribution Charge	kWh	794,386,291	\$0.01022 per kWh	\$8,118,628	\$0.01022 per kWh	\$8,118,628		
Primary Voltage Discount	kW	303,878	(\$0.00328) per kW per day \$0.00000 per kW	(\$30,317)	(\$0.00328) per kW per day (\$0.10000) per kW	(\$30,317)		
Primary Voltage Discount	kWh	95,210,974	(\$0.00100) per kWh	(\$95,211)	(\$0.00100) per kWh	(\$95,211)		
Transformer Equipment Discount	kW	79,567	(\$0.00328) per kW per day \$0.00000 per kW	(\$7,938)	(\$0.00328) per kW per day (\$0.10000) per kW	(\$7,938)		
DISTRIBUTION SERVICE TOTAL				\$16,141,217		\$16,141,217		
				\$18,214,554		\$18,214,554	\$0	
ELECTRICITY SERVICE								
Maximum Monthly On-Peak Demand:								
Winter	kW	1,146,230	\$0.37362 per kW per day \$11.36 per kW	\$13,026,071	\$0.37362 per kW per day \$11.36 per kW	\$13,026,071		
Summer	kW	711,017	\$0.45203 per kW per day \$13.75 per kW	\$9,775,950	\$0.45203 per kW per day \$13.75 per kW	\$9,775,950		
Maximum Monthly On-Peak Demand: Subtotal		1,857,247	\$0.40364	\$22,802,021	\$0.40364	\$22,802,021		
On-Peak 1 Energy Adder								
Winter	kWh	51,670,938	\$0.01747 per kWh	\$902,691	\$0.01747 per kWh	\$902,691		
Summer	kWh	31,232,014	\$0.02802 per kWh	\$875,121	\$0.02802 per kWh	\$875,121		
On-Peak Energy Subtotal		82,902,952		\$1,777,812		\$1,777,812		
On-Peak 2 Energy Adder								
Winter	kWh	82,499,627	\$0.01596 per kWh	\$1,316,694	\$0.01596 per kWh	\$1,316,694		
Summer	kWh	51,395,473	\$0.04595 per kWh	\$2,361,622	\$0.04595 per kWh	\$2,361,622		
On-Peak 2 Energy Adder Subtotal		133,895,100		\$3,678,316		\$3,678,316		
On-Peak 3 Energy Adder								
Winter	kWh	44,814,504	\$0.02270 per kWh	\$1,017,289	\$0.02270 per kWh	\$1,017,289		
Summer	kWh	27,410,834	\$0.02668 per kWh	\$731,321	\$0.02668 per kWh	\$731,321		
On-Peak 3 Energy Adder Subtotal		72,225,339		\$1,748,610		\$1,748,610		
Maximum Monthly On-Peak Demand Discount for LFP Customers								
Winter	kW	19,718	(\$0.18681) per kW	(\$112,040)	(\$0.18681) per kW	(\$112,040)		
Summer	kW	8,789	(\$0.22602) per kW	(\$60,422)	(\$0.22602) per kW	(\$60,422)		
Base Energy								
Winter	kWh	486,626,398	\$0.04930 per kWh	\$23,990,681	\$0.04930 per kWh	\$23,990,681		
Summer	kWh	297,468,496	\$0.04930 per kWh	\$14,665,197	\$0.04930 per kWh	\$14,665,197		
Base Energy Subtotal		784,094,894		\$38,655,878		\$38,655,878		
Interruptible Credit								
IS-3 Demand	kW	86,309	(\$0.12329) per kW per day (\$3.75) per kW	(\$323,665)	(\$0.12329) per kW per day (\$3.75) per kW	(\$323,665)		
IS-4 Demand	kW	75,627	(\$0.13151) per kW per day (\$4.00) per kW	(\$302,515)	(\$0.13151) per kW per day (\$4.00) per kW	(\$302,515)		
SCS Demand	kW	0	\$0.00000 per kW per day \$0.00 per kW	\$0	\$0.00000 per kW per day \$0.00 per kW	\$0		
Interruptible Credit Subtotal		161,936		(\$626,180)		(\$626,180)		
RER Renewable Resource Revenue - Assigned kWh	kWh	10,291,397	Variable by project	\$0	Variable by project	\$0		
RER Renewable Resource Revenue - Unassigned kWh	kWh	989,407	Variable by project	\$657,452	Variable by project	\$657,452		
GPT	kWh	7,143,419	\$0.01000 per kWh	\$71,434	\$0.01000 per kWh	\$71,434		
Act 141 Fixed Charge	Fixed			\$ 9,310		\$ 9,310		
Act 141 Credit	kWh	346,312,191	(\$0.00229) per kWh	(\$793,055)	(\$0.00229) per kWh	(\$793,055)		
ELECTRICITY SERVICE TOTAL		784,094,894		\$67,151,684		\$67,151,684	\$0	
TOTAL C/I LIGHTING AND POWER SERVICE TIME-OF-USE CG-2 (OVER 200 kW)		784,094,894		\$85,366,238		\$85,366,238	\$0	0.00%

MADISON GAS AND ELECTRIC COMPANY
DOCKET 3270-UR-123
SUMMARY OF ESTIMATED
ELECTRIC BILLING STATISTICS AND REVENUES
FOR THE YEAR JANUARY 1 - DECEMBER 31, 2021

TYPE OF SERVICE	BILLING UNITS	NUMBER OF BILLING UNITS	PRESENT RATES	PRESENT REVENUES	2021 PROPOSED RATES	2021 PROPOSED REVENUES	AMOUNT	PROPOS INCREASE PERCENT
C/I LIGHTING AND POWER SERVICE TIME-OF-USE HLF CG-6 (OVER 1,000 kW)								
CUSTOMER CHARGE	Bills	228	\$25.35000 per day per bill	\$175,802	\$25.35000 per day per bill	\$175,802		
	Days	365	\$771.06 per bill per month		\$771.06 per bill per month			
DISTRIBUTION SERVICE								
Customer Maximum Demand	kW	495,019	\$0.10600 per kW per day	\$1,596,023	\$0.10600 per kW per day	\$1,596,023		
			\$3.22 per kW		\$3.22 per kW			
Distribution Charge	kWh	238,147,517	\$0.00549 per kWh	\$1,307,430	\$0.00549 per kWh	\$1,307,430		
Primary Voltage Discount	kW	203,122	(\$0.00328) per kW per day	(\$20,265)	(\$0.00328) per kW per day	(\$20,265)		
			\$0.00000 per kW		(\$0.10000) per kW			
Primary Voltage Discount	kWh	94,988,888	(\$0.00100) per kWh	(\$94,989)	(\$0.00100) per kWh	(\$94,989)		
Transformer Equipment Discount	kW	101,927	(\$0.00328) per kW per day	(\$10,169)	(\$0.00328) per kW per day	(\$10,169)		
			\$0.00000 per kW		(\$0.10000) per kW			
DISTRIBUTION SERVICE TOTAL				\$2,778,030		\$2,778,030		
				\$2,953,832		\$2,953,832	\$0	
ELECTRICITY SERVICE								
Maximum Monthly On-Peak Demand:								
Winter	kW	273,497	\$0.37362 per kW per day	\$3,108,097	\$0.37362 per kW per day	\$3,108,097		
			\$11.36 per kW		\$11.36 per kW			
Summer	kW	151,346	\$0.45203 per kW per day	\$2,080,892	\$0.45203 per kW per day	\$2,080,892		
			\$13.75 per kW		\$13.75 per kW			
Maximum Monthly On-Peak Demand: Subtotal		424,843	\$0.40155	\$5,188,989		\$5,188,989		
On-Peak 1 Energy Adder								
Winter	kWh	13,911,271	\$0.01927 per kWh	\$268,070	\$0.01927 per kWh	\$268,070		
Summer	kWh	7,751,779	\$0.03319 per kWh	\$257,282	\$0.03319 per kWh	\$257,282		
On-Peak 1 Energy Adder Subtotal		21,663,050		\$525,352		\$525,352		
On-Peak 2 Energy Adder								
Winter	kWh	23,035,914	\$0.01796 per kWh	\$413,725	\$0.01796 per kWh	\$413,725		
Summer	kWh	12,875,820	\$0.03776 per kWh	\$486,191	\$0.03776 per kWh	\$486,191		
On-Peak 2 Energy Adder Subtotal		35,911,734		\$899,916		\$899,916		
On-Peak 3 Energy Adder								
Winter	kWh	13,719,900	\$0.02588 per kWh	\$355,071	\$0.02588 per kWh	\$355,071		
Summer	kWh	7,592,092	\$0.02707 per kWh	\$205,518	\$0.02707 per kWh	\$205,518		
On-Peak 3 Energy Adder Subtotal		21,311,992		\$560,589		\$560,589		
Base Energy								
Winter	kWh	149,799,961	\$0.04935 per kWh	\$7,392,628	\$0.04935 per kWh	\$7,392,628		
Summer	kWh	82,360,527	\$0.04935 per kWh	\$4,064,492	\$0.04935 per kWh	\$4,064,492		
Base Energy Subtotal		232,160,489		\$11,457,120		\$11,457,120		
Interruptible Credit								
IS-3 Demand	kW	76,227	(\$0.12329) per kW per day	(\$285,857)	(\$0.12329) per kW per day	(\$285,857)		
			(\$3.75) per kW		(\$3.75) per kW			
IS-4 Demand	kW	26,918	(\$0.13151) per kW per day	(\$107,675)	(\$0.13151) per kW per day	(\$107,675)		
			(\$4.00) per kW		(\$4.00) per kW			
SCS Demand	kW	0	\$0.00000 per kW per day	\$0	\$0.00000 per kW per day	\$0		
			\$0.00 per kW		\$0.00 per kW			
Interruptible Credit Subtotal		103,145		(\$393,532)		(\$393,532)		
GPT	kWh	1,551,112	\$0.01000 per kWh	\$15,511	\$0.01000 per kWh	\$15,511		
Renewable Resource Revenue - Assigned kWh	kWh	5,987,029	Variable per project	\$0	Variable per project	\$0		
Renewable Resource Revenue - Unassigned kWh	kWh	711,207	Variable per project	\$388,498	Variable per project	\$388,498		
Act 141 Fixed Charge	Fixed			\$ 3,022		\$ 3,022		
Act 141 Credit	kWh	207,103,200	(\$0.00229) per kWh	(\$474,266)	(\$0.00229)	(\$474,266)		
ELECTRICITY SERVICE TOTAL				\$17,782,701		\$17,782,701	\$0	
TIME-OF-USE HLF CG-6 (OVER 1,000 kW)								
SERVICE TIME-OF-USE HLF CG-6 (OVER 1,000 kW)		232,160,489		\$20,736,533		\$20,736,533	\$0	0.00%

Madison Gas and Electric Company

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Attachment C

Schedule 16

CP-1 Rates

C&I High Load Factor Direct Control Interruptible Service for Transmission Voltage Rate Design

Cp-1

Tariff Changes None

Summary Points:

- Consistent with the overall goal of no increases per rate class, rates remain the same and no changes are proposed for this class for this case

Overview:

Consistent with the goal of having no increase in this rate case, no change in rates is proposed.

MADISON GAS AND ELECTRIC COMPANY
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SUMMARY OF ESTIMATED
ELECTRIC BILLING STATISTICS AND REVENUES
FOR THE YEAR JANUARY 1 - DECEMBER 31, 2021

TYPE OF SERVICE	BILLING UNITS	NUMBER OF BILLING UNITS	PRESENT RATES	PRESENT REVENUES	2021 PROPOSED RATES	2021 PROPOSED REVENUES	PROPOSED REVENUE INCREASE AMOUNT	PERCENT
C/I HIGH LOAD FACTOR DIRECT CONTROL INTERRUPTIBLE SERVICE - TRANSMISSION VOLTAGE Cp-1								
CUSTOMER CHARGE	Bills Days	12 365	\$31.82000 per day per bill \$967.86 per bill per month	\$11,614	\$31.82000 per day per bill \$967.86 per bill per month	\$11,614		
ELECTRICITY SERVICE								
Monthly Maximum Demand	Winter kW	91,050	\$0.13300 per kW per day \$4.05 per kW	\$368,335	\$0.13300 per kW per day \$4.05 per kW	\$368,335		
	Summer kW	45,535	\$0.15600 per kW per day \$4.75 per kW	\$216,063	\$0.15600 per kW per day \$4.75 per kW	\$216,063		
Monthly Maximum Demand Subtotal		136,585	\$4.27864	\$584,398		\$584,398		
On-Peak 1 Energy Adder	Winter kWh	5,599,939	\$0.01317 per kWh	\$73,751	\$0.01317 per kWh	\$73,751		
	Summer kWh	2,864,293	\$0.02240 per kWh	\$64,160	\$0.02240 per kWh	\$64,160		
On-Peak1 Energy Adder Subtotal		8,464,232		\$137,911		\$137,911		
On-Peak 2 Energy Adder	Winter kWh	9,343,761	\$0.01274 per kWh	\$119,040	\$0.01274 per kWh	\$119,040		
	Summer kWh	4,768,726	\$0.02496 per kWh	\$119,027	\$0.02496 per kWh	\$119,027		
On-Peak 2 Energy Adder Subtotal		14,112,488		\$238,067		\$238,067		
On-Peak 3 Energy Adder	Winter kWh	5,626,378	\$0.01755 per kWh	\$98,743	\$0.01755 per kWh	\$98,743		
	Summer kWh	2,857,618	\$0.01824 per kWh	\$52,123	\$0.01824 per kWh	\$52,123		
On-Peak 3 Energy Adder Subtotal		8,483,996		\$150,866		\$150,866		
Base Energy	Winter kWh	64,963,416	\$0.03833 per kWh	\$2,490,048	\$0.03833 per kWh	\$2,490,048		
	Summer kWh	32,728,679	\$0.03833 per kWh	\$1,254,414	\$0.03833 per kWh	\$1,254,414		
Base Energy Subtotal		97,690,096		\$3,744,462		\$3,744,462		
Buy-Through Revenue				\$0		\$0		
Act 141 Fixed Charge				1,152		\$1,152		
ELECTRICITY SERVICE TOTAL		97,690,096		\$4,856,856		\$4,856,856		
TOTAL C/I HIGH LOAD FACTOR DIRECT CONTROL INTERRUPTIBLE SERVICE - TRANSMISSION VOLTAGE Cp-1								
		97,690,096		\$4,868,470		\$4,868,470	\$0	0.00%

Madison Gas and Electric Company

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Attachment C

Schedule 17

Sp-3 Rates

University of Wisconsin Rates

Sp-3

Tariff Changes See Schedule 2

Summary Points:

- Rate design is consistent with changes discussed in Schedule 2

Overview:

A new interruptible option is added in rate design. The Customer and Grid Connection Charge was decreased by \$250,000 and the On-Peak Demand rate was increased by the same amount as requested by the customer. No other rate components were changed.

MADISON GAS AND ELECTRIC COMPANY
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SUMMARY OF ESTIMATED
ELECTRIC BILLING STATISTICS AND REVENUES
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UNIVERSITY OF WISCONSIN TIME-OF-USE SP-3

Rate Component	Present			Proposed		
	Rate	Units	Revenue	Rate	Revenue	Difference
(1)	(2)	(3)	(4)	(5)	(7)	(8)
Customer Charge	\$ 35,616	365	\$ 12,999,840	\$ 34,931	\$ 12,749,815	\$ (250,025)
Grid Connection Service	\$ -	365	\$ -	\$ -	\$ -	\$ -
Distribution Service Demand	\$ 0.11810	709,846	\$ 2,549,916	\$ 0.12968	\$ 2,799,942	\$ 250,026
Winter On-Peak Demand	\$ 0.46681	432,949	\$ 6,147,353	\$ 0.46681	\$ 6,147,353	\$ -
Summer On-Peak Demand	\$ 0.46681	229,312	\$ 3,255,955	\$ 0.46681	\$ 3,255,955	\$ -
Generation Credit	\$ (0.46681)	108,000	\$ (1,533,471)	\$ (0.46681)	\$ (1,533,471)	\$ -
Interruptible Credit		19,656		\$ (0.13151)	\$ (78,626)	\$ (78,626)
Subtotal Demand and Customer			\$ 23,419,594		\$ 23,340,969	\$ (78,625)
UW Energy						
Winter On-Peak Energy	\$ 0.03672	77,272,956	\$ 2,837,463	\$ 0.03672	\$ 2,837,463	\$ -
Summer On-Peak Energy	\$ 0.03822	43,450,431	\$ 1,660,675	\$ 0.03822	\$ 1,660,675	\$ -
'''	\$ 0.02462	213,821,399	\$ 5,264,283	\$ 0.02462	\$ 5,264,283	\$ -
Total UW Energy		334,544,786	\$ 9,762,421		\$ 9,762,421	\$ -
Chiller Energy-January Heating						
Winter On-Peak Energy	\$ 0.03392	2,604	\$ 88	\$ 0.03392	\$ 88	\$ -
Winter Off-Peak Energy	\$ 0.02462	3,193	\$ 79	\$ 0.02462	\$ 79	\$ -
Total Chiller Energy-January Heating		5,797	\$ 167		\$ 167	\$ -
Chiller Energy-February Heating						
Winter On-Peak Energy	\$ 0.03392	161,902	\$ 5,492	\$ 0.03392	\$ 5,492	\$ -
Winter Off-Peak Energy	\$ 0.02462	23,395	\$ 576	\$ 0.02462	\$ 576	\$ -
Total Chiller Energy-February Heating		185,297	\$ 6,068		\$ 6,068	\$ -
Chiller Energy-March Heating						
Winter On-Peak Energy	\$ 0.03392	35,670	\$ 1,210	\$ 0.03392	\$ 1,210	\$ -
Winter Off-Peak Energy	\$ 0.02462	147,126	\$ 3,622	\$ 0.02462	\$ 3,622	\$ -
Total Chiller Energy-March Heating		182,795	\$ 4,832		\$ 4,832	\$ -
Chiller Energy-April Heating						
Winter On-Peak Energy	\$ 0.03392	1,030,947	\$ 34,970	\$ 0.03392	\$ 34,970	\$ -
Winter Off-Peak Energy	\$ 0.02462	1,404,420	\$ 34,577	\$ 0.02462	\$ 34,577	\$ -
Total Chiller Energy-April Heating		2,435,367	\$ 69,547		\$ 69,547	\$ -
Chiller Energy-April Cooling						
Winter On-Peak Energy	\$ 0.03362	-	\$ -	\$ 0.03362	\$ -	\$ -
Winter Off-Peak Energy	\$ 0.02462	-	\$ -	\$ 0.02462	\$ -	\$ -
Total Chiller Energy-April Cooling		-	\$ -		\$ -	\$ -
Chiller Energy-May Cooling						
Winter On-Peak Energy	\$ 0.03362	1,136,279	\$ 38,202	\$ 0.03362	\$ 38,202	\$ -
Winter Off-Peak Energy	\$ 0.02462	1,953,249	\$ 48,089	\$ 0.02462	\$ 48,089	\$ -
Total Chiller Energy-May Cooling		3,089,527	\$ 86,291		\$ 86,291	\$ -
Chiller Energy-June Cooling						
Summer On-Peak Energy	\$ 0.03362	1,048,867	\$ 35,263	\$ 0.03362	\$ 35,263	\$ -
Summer Off-Peak Energy	\$ 0.02462	5,220,624	\$ 128,532	\$ 0.02462	\$ 128,532	\$ -
Total Chiller Energy-June Cooling		6,269,491	\$ 163,795		\$ 163,795	\$ -
Chiller Energy-July Cooling						
Summer On-Peak Energy	\$ 0.03362	799,190	\$ 26,869	\$ 0.03362	\$ 26,869	\$ -
Summer Off-Peak Energy	\$ 0.02462	3,395,588	\$ 83,599	\$ 0.02462	\$ 83,599	\$ -
Total Chiller Energy-July Cooling		4,194,778	\$ 110,468		\$ 110,468	\$ -

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SUMMARY OF ESTIMATED
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UNIVERSITY OF WISCONSIN TIME-OF-USE SP-3

Rate Component	Present			Proposed		
	Rate	Units	Revenue	Rate	Revenue	Difference
(1)	(2)	(3)	(4)	(5)	(7)	(8)
Chiller Energy-August Cooling						
Summer On-Peak Energy	\$ 0.03362	70,791	\$ 2,380	\$ 0.03362	\$ 2,380	\$ -
Summer Off-Peak Energy	\$ 0.02462	434,424	\$ 10,696	\$ 0.02462	\$ 10,696	\$ -
Total Chiller Energy-August Cooling		505,216	\$ 13,076		\$ 13,076	\$ -
Chiller Energy-September Cooling						
Summer On-Peak Energy	\$ 0.03362	259,457	\$ 8,723	\$ 0.03362	\$ 8,723	\$ -
Summer Off-Peak Energy	\$ 0.02462	229,982	\$ 5,662	\$ 0.02462	\$ 5,662	\$ -
Total Chiller Energy-September Cooling		489,439	\$ 14,385		\$ 14,385	\$ -
Chiller Energy-October Cooling						
Winter On-Peak Energy	\$ 0.03362	-	\$ -	\$ 0.03362	\$ -	\$ -
Winter Off-Peak Energy	\$ 0.02462	-	\$ -	\$ 0.02462	\$ -	\$ -
Total Chiller Energy-October Cooling		-	\$ -		\$ -	\$ -
Chiller Energy-October Heating						
Winter On-Peak Energy	\$ 0.03392	759,667	\$ 25,768	\$ 0.03392	\$ 25,768	\$ -
Winter Off-Peak Energy	\$ 0.02462	716,200	\$ 17,633	\$ 0.02462	\$ 17,633	\$ -
Total Chiller Energy-October Heating		1,475,867	\$ 43,401		\$ 43,401	\$ -
Chiller Energy-November Heating						
Winter On-Peak Energy	\$ 0.03392	36,467	\$ 1,237	\$ 0.03392	\$ 1,237	\$ -
Winter Off-Peak Energy	\$ 0.02462	100,143	\$ 2,466	\$ 0.02462	\$ 2,466	\$ -
Total Chiller Energy-November Heating		136,610	\$ 3,702		\$ 3,702	\$ -
Chiller Energy-December Heating						
Winter On-Peak Energy	\$ 0.03392	114,166	\$ 3,873	\$ 0.03392	\$ 3,873	\$ -
Winter Off-Peak Energy	\$ 0.02462	128,599	\$ 3,166	\$ 0.02462	\$ 3,166	\$ -
Total Chiller Energy-December Heating		242,765	\$ 7,039		\$ 7,039	\$ -
Total Chiller		19,212,948	\$ 522,769		\$ 522,769	
Sp-3 Energy		353,757,734	\$ 10,285,191		\$ 10,285,191	\$ -
Act 141 Fixed Charge			\$ 7,440		\$ 7,440	\$ -
Total			\$ 33,712,224		\$ 33,633,599	\$ (78,625)

-0.23%

LMP Estimate - Amount per MWh - Day Ahead

\$ 33,712,224
 \$ -

Pricing Period	2018 (Est.)	Total MISO LMP Costs*
Winter On-Peak	\$33.32	\$33.80
Summer On-Peak	\$33.27	\$33.75
Annual Off-Peak	\$24.46	\$24.94

*Other LMP Related Costs (See Below)

Other LMP Related Costs - Per MWh

Revenue Sufficiency Guarantee Costs	\$0.07
Revenue Neutrality Costs	\$0.17
Administrative Cost	\$0.15
Ancillary Services Market Costs	\$0.09
Total Other LMP Costs	\$0.48

Madison Gas and Electric Company

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Attachment C

Schedule 18

Streetlighting and Outdoor Overhead Lighting Rates

MADISON GAS AND ELECTRIC COMPANY

SUMMARY OF ESTIMATED
ELECTRIC BILLING STATISTICS AND REVENUES
FOR THE YEAR JANUARY 1 - DECEMBER 31, 2021Docket No. 3270-UR-123
Attachment C
Schedule 18
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TYPE OF SERVICE	BILLING UNITS	NUMBER OF BILLING UNITS (LAMPS)	DISTRIBUTION SERVICE		ELECTRICITY SERVICE					FACILITIES FEE		TOTAL PRESENT MONTHLY RATE		DISTRIBUTION REVENUE	ELECTRICITY REVENUE	FACILITIES FEE REVENUE	PRESENT REVENUES	PROPOSED REVENUE INCREASE	
			PRESENT DISTRIBUTION SERVICE RATE	BILLING UNITS	PRESENT ELECTRICITY SERVICE RATE	BILLING UNITS	NUMBER OF BILLING UNITS (MO. KWH)	TOTAL PRESENT ELECTRICITY SERVICE RATE	BILLING UNITS	PRESENT FACILITIES RATE	BILLING UNITS	PRESENT RATES	BILLING UNITS					AMOUNT	PERCENT
STREETLIGHTING SERVICE - COMPANY OWNED AND COMPANY MAINTAINED SL-1																			
OVERHEAD SERVICE																			
175 WATT MV ANEN (CLOSED)	/Lamp	1,728	\$3.20	/Lamp	\$0.07280	/kWh/lamp	67	\$4.88	/Lamp	\$7.90	/Lamp	\$15.98	/Lamp	\$5,530	\$8,433	\$13,651	\$27,614		
250 WATT MV ANEN (CLOSED)	/Lamp	336	\$3.20	/Lamp	\$0.07280	/kWh/lamp	95	\$6.92	/Lamp	\$8.00	/Lamp	\$18.12	/Lamp	\$1,075	\$2,325	\$2,688	\$6,088		
400 WATT MV ANEN (CLOSED)	/Lamp	576	\$3.20	/Lamp	\$0.07280	/kWh/lamp	153	\$11.14	/Lamp	\$8.40	/Lamp	\$22.74	/Lamp	\$1,843	\$6,417	\$4,838	\$13,098		
SUBTOTAL MV ANEN		2,640					315							\$8,448	\$17,175	\$21,177	\$46,800		
400 WATT MV MN	/Lamp	36	\$3.20	/Lamp	\$0.07280	/kWh/lamp	77	\$5.61	/Lamp	\$8.40	/Lamp	\$17.21	/Lamp	\$115	\$202	\$302	\$619		
SUBTOTAL MV MN		36					77							\$115	\$202	\$302	\$619		
70 WATT HPS ANEN	/Lamp	636	\$3.20	/Lamp	\$0.07280	/kWh/lamp	26	\$1.89	/Lamp	\$7.60	/Lamp	\$12.69	/Lamp	\$2,035	\$1,202	\$4,834	\$8,071		
100 WATT HPS ANEN	/Lamp	3,180	\$3.20	/Lamp	\$0.07280	/kWh/lamp	38	\$2.77	/Lamp	\$7.60	/Lamp	\$13.57	/Lamp	\$10,176	\$8,809	\$24,168	\$43,153		
150 WATT HPS ANEN	/Lamp	1,848	\$3.20	/Lamp	\$0.07280	/kWh/lamp	58	\$4.22	/Lamp	\$7.60	/Lamp	\$15.02	/Lamp	\$5,914	\$7,799	\$14,045	\$27,758		
200 WATT HPS ANEN	/Lamp	24	\$3.20	/Lamp	\$0.07280	/kWh/lamp	77	\$5.61	/Lamp	\$7.80	/Lamp	\$16.61	/Lamp	\$77	\$135	\$187	\$399		
250 WATT HPS ANEN	/Lamp	228	\$3.20	/Lamp	\$0.07280	/kWh/lamp	95	\$6.92	/Lamp	\$8.40	/Lamp	\$18.52	/Lamp	\$730	\$1,578	\$1,915	\$4,223		
SUBTOTAL HPS ANEN		5,916					294							\$18,932	\$19,523	\$45,149	\$83,604		
300 WATT SUSP TYPE ANEN (CL)	/Lamp	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	115	\$8.37	/Lamp	\$7.70	/Lamp	\$19.27	/Lamp	\$0	\$0	\$0	\$0		
100 WATT EQUIV. LED ANEN	/Lamp	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	10	\$0.73	/Lamp	\$12.50	/Lamp	\$16.43	/Lamp	\$0	\$0	\$0	\$0		
150 WATT EQUIV. LED ANEN	/Lamp	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	17	\$1.24	/Lamp	\$14.40	/Lamp	\$18.84	/Lamp	\$0	\$0	\$0	\$0		
250 WATT EQUIV. LED ANEN	/Lamp	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	33	\$2.40	/Lamp	\$16.60	/Lamp	\$22.20	/Lamp	\$0	\$0	\$0	\$0		
SUBTOTAL HPS ANEN		0					175							\$0	\$0	\$0	\$0		
TOTAL OVERHEAD SERVICE		8,592					801							\$27,495	\$36,900	\$66,628	\$131,023		
UNDERGROUND SERVICE																			
70 WATT HPS ANEN	/Lamp	576	\$3.20	/Lamp	\$0.07280	/kWh/lamp	26	\$1.89	/Lamp	\$12.50	/Lamp	\$17.59	/Lamp	\$1,843	\$1,089	\$7,200	\$10,132		
100 WATT HPS ANEN	/Lamp	1,656	\$3.20	/Lamp	\$0.07280	/kWh/lamp	38	\$2.77	/Lamp	\$12.60	/Lamp	\$18.57	/Lamp	\$5,299	\$4,587	\$20,866	\$30,752		
150 WATT HPS ANEN	/Lamp	1,056	\$3.20	/Lamp	\$0.07280	/kWh/lamp	58	\$4.22	/Lamp	\$12.70	/Lamp	\$20.12	/Lamp	\$3,379	\$4,456	\$13,411	\$21,246		
200 WATT HPS ANEN	/Lamp	60	\$3.20	/Lamp	\$0.07280	/kWh/lamp	77	\$5.61	/Lamp	\$13.00	/Lamp	\$21.81	/Lamp	\$192	\$337	\$780	\$1,309		
250 WATT HPS ANEN	/Lamp	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	95	\$6.92	/Lamp	\$13.40	/Lamp	\$23.52	/Lamp	\$0	\$0	\$0	\$0		
SUBTOTAL HPS ANEN		3,348					294							\$10,713	\$10,469	\$42,257	\$63,439		
39 WATT EQUIV. LED ANEN	/Lamp	24	\$3.20	/Lamp	\$0.07280	/kWh/lamp	13	\$1.06	/Lamp	\$16.90	/Lamp	\$21.16	/Lamp	\$77	\$25	\$406	\$508		
100 WATT EQUIV. LED ANEN	/Lamp	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	10	\$0.73	/Lamp	\$16.90	/Lamp	\$20.83	/Lamp	\$0	\$0	\$0	\$0		
150 WATT EQUIV. LED ANEN	/Lamp	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	17	\$1.24	/Lamp	\$18.70	/Lamp	\$23.14	/Lamp	\$0	\$0	\$0	\$0		
250 WATT EQUIV. LED ANEN	/Lamp	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	33	\$2.40	/Lamp	\$21.00	/Lamp	\$26.60	/Lamp	\$0	\$0	\$0	\$0		
SUBTOTAL LED ANEN		24					73							\$77	\$25	\$406	\$508		
TOTAL UNDERGROUND SERVICE		3,372					367							\$10,790	\$10,494	\$42,663	\$63,947		
Act 141 Fixed Charge															\$1		\$0		
Act 141 Credit		13,642	kWh					(\$0.00229)	per kWh						(\$31)		(\$204)		
Fuel Credit								(\$0.00108)											
TOTAL PRESENT SL-1		11,964	Lamps				14,016							\$38,285	\$47,364	\$109,291	\$194,766		

MADISON GAS AND ELECTRIC COMPANY

SUMMARY OF ESTIMATED
ELECTRIC BILLING STATISTICS AND REVENUES
FOR THE YEAR JANUARY 1 - DECEMBER 31, 2021

TYPE OF SERVICE	BILLING UNITS	NUMBER OF BILLING UNITS (LAMPS)	DISTRIBUTION SERVICE		ELECTRICITY SERVICE					FACILITIES FEE		TOTAL PROPOSED MONTHLY RATE		DISTRIBUTION REVENUE	ELECTRICITY REVENUE	FACILITIES FEE REVENUE	2021 PROPOSED REVENUES	PROPOSED REVENUE INCREASE		
			PROPOSED DISTRIBUTION SERVICE RATE	BILLING UNITS	PROPOSED ELECTRICITY SERVICE RATE	BILLING UNITS	NUMBER OF BILLING UNITS (MO. KWH)	TOTAL PROPOSED ELECTRICITY SERVICE RATE	BILLING UNITS	PROPOSED FACILITIES RATE	BILLING UNITS	2021 PROPOSED RATES	BILLING UNITS					AMOUNT	PERCENT	
STREETLIGHTING SERVICE - COMPANY OWNED AND COMPANY MAINTAINED SL-1																				
OVERHEAD SERVICE																				
175 WATT MV ANEN (CLOSED)	/Lamp	1,728	\$3.20	/Lamp	\$0.07280	/kWh/lamp	67	\$4.88	/Lamp	\$7.90	/Lamp	\$15.98	/Lamp	\$5,530	\$8,433	\$13,651	\$27,614	\$0	0.00%	
250 WATT MV ANEN (CLOSED)	/Lamp	336	\$3.20	/Lamp	\$0.07280	/kWh/lamp	95	\$6.92	/Lamp	\$8.00	/Lamp	\$18.12	/Lamp	\$1,075	\$2,325	\$2,688	\$6,088	\$0	0.00%	
400 WATT MV ANEN (CLOSED)	/Lamp	576	\$3.20	/Lamp	\$0.07280	/kWh/lamp	153	\$11.14	/Lamp	\$8.40	/Lamp	\$22.74	/Lamp	\$1,843	\$6,417	\$4,838	\$13,098	\$0	0.00%	
SUBTOTAL MV ANEN		2,640					315							\$8,448	\$17,175	\$21,177	\$46,800	\$0	0.00%	
400 WATT MV MN (CLOSED)	/Lamp	36	\$3.20	/Lamp	\$0.07280	/kWh/lamp	77	\$5.61	/Lamp	\$8.40	/Lamp	\$17.21	/Lamp	\$115	\$202	\$302	\$619	\$0	0.00%	
SUBTOTAL MV MN		36					77							\$115	\$202	\$302	\$619	\$0	0.00%	
70 WATT HPS ANEN	/Lamp	636	\$3.20	/Lamp	\$0.07280	/kWh/lamp	26	\$1.89	/Lamp	\$7.60	/Lamp	\$12.69	/Lamp	\$2,035	\$1,202	\$4,834	\$8,071	\$0	0.00%	
100 WATT HPS ANEN	/Lamp	3,180	\$3.20	/Lamp	\$0.07280	/kWh/lamp	38	\$2.77	/Lamp	\$7.60	/Lamp	\$13.57	/Lamp	\$10,176	\$8,809	\$24,168	\$43,153	\$0	0.00%	
150 WATT HPS ANEN	/Lamp	1,848	\$3.20	/Lamp	\$0.07280	/kWh/lamp	58	\$4.22	/Lamp	\$7.60	/Lamp	\$15.02	/Lamp	\$5,914	\$7,799	\$14,045	\$27,758	\$0	0.00%	
200 WATT HPS ANEN	/Lamp	24	\$3.20	/Lamp	\$0.07280	/kWh/lamp	77	\$5.61	/Lamp	\$7.80	/Lamp	\$16.61	/Lamp	\$77	\$135	\$187	\$399	\$0	0.00%	
250 WATT HPS ANEN	/Lamp	228	\$3.20	/Lamp	\$0.07280	/kWh/lamp	95	\$6.92	/Lamp	\$8.40	/Lamp	\$18.52	/Lamp	\$730	\$1,578	\$1,915	\$4,223	\$0	0.00%	
SUBTOTAL HPS ANEN		5,916					294							\$18,932	\$19,523	\$45,149	\$83,604	\$0	0.00%	
300 WATT SUSP TYPE ANEN (CL)	/Lamp	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	115	\$8.37	/Lamp	\$7.70	/Lamp	\$19.27	/Lamp	\$0	\$0	\$0	\$0	\$0	#DIV/0!	
100 WATT EQUIV. LED ANEN	/Lamp	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	10	\$0.73	/Lamp	\$12.50	/Lamp	\$16.43	/Lamp	\$0	\$0	\$0	\$0	\$0	#DIV/0!	
150 WATT EQUIV. LED ANEN	/Lamp	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	17	\$1.24	/Lamp	\$14.40	/Lamp	\$18.84	/Lamp	\$0	\$0	\$0	\$0	\$0	#DIV/0!	
250 WATT EQUIV. LED ANEN	/Lamp	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	33	\$2.40	/Lamp	\$16.60	/Lamp	\$22.20	/Lamp	\$0	\$0	\$0	\$0	\$0	#DIV/0!	
SUBTOTAL HPS ANEN		0					175							\$0	\$0	\$0	\$0	\$0	#DIV/0!	
TOTAL OVERHEAD SERVICE		8,592					976							\$27,495	\$36,900	\$66,628	\$131,023	\$0	0.00%	
UNDERGROUND SERVICE																				
70 WATT HPS ANEN	/Lamp	576	\$3.20	/Lamp	\$0.07280	/kWh/lamp	26	\$1.89	/Lamp	\$12.50	/Lamp	\$17.59	/Lamp	\$1,843	\$1,089	\$7,200	\$10,132	\$0	0.00%	
100 WATT HPS ANEN	/Lamp	1,656	\$3.20	/Lamp	\$0.07280	/kWh/lamp	38	\$2.77	/Lamp	\$12.60	/Lamp	\$18.57	/Lamp	\$5,299	\$4,587	\$20,866	\$30,752	\$0	0.00%	
150 WATT HPS ANEN	/Lamp	1,056	\$3.20	/Lamp	\$0.07280	/kWh/lamp	58	\$4.22	/Lamp	\$12.70	/Lamp	\$20.12	/Lamp	\$3,379	\$4,456	\$13,411	\$21,246	\$0	0.00%	
200 WATT HPS ANEN	/Lamp	60	\$3.20	/Lamp	\$0.07280	/kWh/lamp	77	\$5.61	/Lamp	\$13.00	/Lamp	\$21.81	/Lamp	\$192	\$337	\$780	\$1,309	\$0	0.00%	
250 WATT HPS ANEN	/Lamp	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	95	\$6.92	/Lamp	\$13.40	/Lamp	\$23.52	/Lamp	\$0	\$0	\$0	\$0	\$0	#DIV/0!	
SUBTOTAL HPS ANEN		3,348					294							\$10,713	\$10,469	\$42,257	\$63,439	\$0	0.00%	
39 WATT EQUIV. LED ANEN	/Lamp	24	\$3.20	/Lamp	\$0.07280	/kWh/lamp	13	\$1.06	/Lamp	\$16.90	/Lamp	\$21.16	/Lamp	\$77	\$25	\$406	\$508	\$508	#DIV/0!	
100 WATT EQUIV. LED ANEN	/Lamp	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	10	\$0.73	/Lamp	\$16.90	/Lamp	\$20.83	/Lamp	\$0	\$0	\$0	\$0	\$0	#DIV/0!	
150 WATT EQUIV. LED ANEN	/Lamp	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	17	\$1.24	/Lamp	\$18.70	/Lamp	\$23.14	/Lamp	\$0	\$0	\$0	\$0	\$0	#DIV/0!	
250 WATT EQUIV. LED ANEN	/Lamp	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	33	\$2.40	/Lamp	\$21.00	/Lamp	\$26.60	/Lamp	\$0	\$0	\$0	\$0	\$0	#DIV/0!	
SUBTOTAL LED ANEN		24					73							\$77	\$25	\$406	\$508	\$0	0.00%	
TOTAL UNDERGROUND SERVICE		3,372					367							\$10,790	\$10,494	\$42,663	\$63,947	\$0	0.00%	
Act 141 Fixed Charge														\$	5.43		\$	-	\$0	#DIV/0!
Act 141 Credit present		104,905	Units			(\$0.00229)	per kWh										(\$204)	\$0	0.00%	
Act 141 Credit proposed																				
TOTAL PROPOSED SL-1		11,964	Lamps											\$38,285	\$47,399	\$109,291	\$194,766	\$0		

MADISON GAS AND ELECTRIC COMPANY
DOCKET 3270-UR-123
SUMMARY OF ESTIMATED
ELECTRIC BILLING STATISTICS AND REVENUES
FOR THE YEAR JANUARY 1 - DECEMBER 31, 2021

TYPE OF SERVICE	BILLING UNITS	NUMBER OF BILLING UNITS (LAMPS)	DISTRIBUTION SERVICE		ELECTRICITY SERVICE					TOTAL PRESENT MONTHLY RATE		DISTRIBUTION REVENUE	ELECTRICITY REVENUE	PRESENT REVENUES	PROPOSED REVENUE INCREASE	
			PRESENT DISTRIBUTION SERVICE RATE	BILLING UNITS	PRESENT ELECTRICITY SERVICE RATE	BILLING UNITS	NUMBER OF BILLING UNITS (MO. KWH)	PRESENT ELECTRICITY SERVICE RATE	BILLING UNITS	PRESENT RATES	BILLING UNITS				AMOUNT	PERCENT
STREETLIGHTING SERVICE - CUSTOMER OWNED AND CUSTOMER MAINTAINED SL-2																
100 WATT MV ANEN (CLOSED)	Lamps	324	\$3.20	/Lamp	\$0.07280	/kWh/lamp	38	\$2.77	/Lamp	\$5.97	/Lamp	\$1,037	\$897	\$1,934		
175 WATT MV ANEN (CLOSED)	Lamps	288	\$3.20	/Lamp	\$0.07280	/kWh/lamp	67	\$4.88	/Lamp	\$8.08	/Lamp	\$922	\$1,405	\$2,327		
250 WATT MV ANEN (CLOSED)	Lamps	528	\$3.20	/Lamp	\$0.07280	/kWh/lamp	95	\$6.92	/Lamp	\$10.12	/Lamp	\$1,690	\$3,654	\$5,344		
400 WATT MV ANEN (CLOSED)	Lamps	12	\$3.20	/Lamp	\$0.07280	/kWh/lamp	153	\$11.14	/Lamp	\$14.34	/Lamp	\$38	\$134	\$172		
SUBTOTAL MV ALLNIGHT SCHEDULE		1,152					353					\$3,687	\$6,090	\$9,777		
250 WATT MV MN (CLOSED)	Lamps	36	\$3.20	/Lamp	\$0.07280	/kWh/lamp	48	\$3.49	/Lamp	\$6.69	/Lamp	\$115	\$126	\$241		
400 WATT MV MN (CLOSED)	Lamps	24	\$3.20	/Lamp	\$0.07280	/kWh/lamp	77	\$5.61	/Lamp	\$8.81	/Lamp	\$77	\$135	\$212		
SUBTOTAL MV MIDNIGHT SCHEDULE		60					125					\$192	\$261	\$453		
400 WATT MV 10:30 (CLOSED)	Lamps	120	\$3.20	/Lamp	\$0.07280	/kWh/lamp	55	\$4.00	/Lamp	\$7.20	/Lamp	\$384	\$480	\$864		
SUBTOTAL MV 10:30 SCHEDULE		120					55					\$384	\$480	\$864		
100 WATT MV 3AM (CLOSED)	Lamps	48	\$3.20	/Lamp	\$0.07280	/kWh/lamp	29	\$2.11	/Lamp	\$5.31	/Lamp	\$154	\$101	\$255		
SUBTOTAL MV 3AM SCHEDULE		48					29					\$154	\$101	\$255		
TOTAL MV LAMPS		1,380					562					\$4,417	\$6,932	\$11,349		
70 WATT HPS ANEN	Lamps	984	\$3.20	/Lamp	\$0.07280	/kWh/lamp	26	\$1.89	/Lamp	\$5.09	/Lamp	\$3,149	\$1,860	\$5,009		
100 WATT HPS ANEN	Lamps	3,924	\$3.20	/Lamp	\$0.07280	/kWh/lamp	38	\$2.77	/Lamp	\$5.97	/Lamp	\$12,557	\$10,869	\$23,426		
150 WATT HPS ANEN	Lamps	18,108	\$3.20	/Lamp	\$0.07280	/kWh/lamp	58	\$4.22	/Lamp	\$7.42	/Lamp	\$57,946	\$76,416	\$134,362		
100 WATT HPS UG ANEN	Lamps	72	\$3.20	/Lamp	\$0.07280	/kWh/lamp	38	\$2.77	/Lamp	\$5.97	/Lamp	\$230	\$199	\$429		
150 WATT HPS UG ANEN	Lamps	12	\$3.20	/Lamp	\$0.07280	/kWh/lamp	58	\$4.22	/Lamp	\$7.42	/Lamp	\$38	\$51	\$89		
200 WATT HPS ANEN	Lamps	2,580	\$3.20	/Lamp	\$0.07280	/kWh/lamp	77	\$5.61	/Lamp	\$8.81	/Lamp	\$8,256	\$14,474	\$22,730		
250 WATT HPS ANEN	Lamps	8,856	\$3.20	/Lamp	\$0.07280	/kWh/lamp	95	\$6.92	/Lamp	\$10.12	/Lamp	\$28,339	\$61,284	\$89,623		
400 WATT HPS ANEN	Lamps	3,336	\$3.20	/Lamp	\$0.07280	/kWh/lamp	153	\$11.14	/Lamp	\$14.34	/Lamp	\$10,675	\$37,163	\$47,838		
SUTOTAL HPS ALLNIGHT SCHEDULE		37,872					543					\$121,190	\$202,316	\$323,506		
70 WATT HPS MN	Lamps	636	\$3.20	/Lamp	\$0.07280	/kWh/lamp	14	\$1.02	/Lamp	\$4.22	/Lamp	\$2,035	\$649	\$2,684		
100 WATT HPS MN	Lamps	720	\$3.20	/Lamp	\$0.07280	/kWh/lamp	20	\$1.46	/Lamp	\$4.66	/Lamp	\$2,304	\$1,051	\$3,355		
150 WATT HPS MN	Lamps	5,616	\$3.20	/Lamp	\$0.07280	/kWh/lamp	29	\$2.11	/Lamp	\$5.31	/Lamp	\$17,971	\$11,850	\$29,821		
200 WATT HPS MN	Lamps	120	\$3.20	/Lamp	\$0.07280	/kWh/lamp	38	\$2.77	/Lamp	\$5.97	/Lamp	\$384	\$332	\$716		
250 WATT HPS MN	Lamps	1,104	\$3.20	/Lamp	\$0.07280	/kWh/lamp	48	\$3.49	/Lamp	\$6.69	/Lamp	\$3,533	\$3,853	\$7,386		
400 WATT HPS MN	Lamps	732	\$3.20	/Lamp	\$0.07280	/kWh/lamp	77	\$5.61	/Lamp	\$8.81	/Lamp	\$2,342	\$4,107	\$6,449		
SUBTOTAL HPS MIDNIGHT SCHEDULE		8,928					226					\$28,569	\$21,842	\$50,411		
70 WATT HPS 10:30	Lamps	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	9	\$0.66	/Lamp	\$3.86	/Lamp	\$0	\$0	\$0		
100 WATT HPS 10:30	Lamps	24	\$3.20	/Lamp	\$0.07280	/kWh/lamp	14	\$1.02	/Lamp	\$4.22	/Lamp	\$77	\$24	\$101		
150 WATT HPS 10:30	Lamps	12	\$3.20	/Lamp	\$0.07280	/kWh/lamp	21	\$1.53	/Lamp	\$4.73	/Lamp	\$38	\$18	\$56		
200 WATT HPS 10:30	Lamps	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	28	\$2.04	/Lamp	\$5.24	/Lamp	\$0	\$0	\$0		
250 WATT HPS 10:30	Lamps	48	\$3.20	/Lamp	\$0.07280	/kWh/lamp	35	\$2.55	/Lamp	\$5.75	/Lamp	\$154	\$122	\$276		
400 WATT HPS 10:30	Lamps	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	55	\$4.00	/Lamp	\$7.20	/Lamp	\$0	\$0	\$0		
SUBTOTAL HPS 10:30 SCHEDULE		84					162					\$269	\$164	\$433		
70 WATT HPS 3AM	Lamps	624	\$3.20	/Lamp	\$0.07280	/kWh/lamp	21	\$1.53	/Lamp	\$4.73	/Lamp	\$1,997	\$955	\$2,952		
100 WATT HPS 3AM	Lamps	48	\$3.20	/Lamp	\$0.07280	/kWh/lamp	29	\$2.11	/Lamp	\$5.31	/Lamp	\$154	\$101	\$255		
150 WATT HPS 3AM	Lamps	1,284	\$3.20	/Lamp	\$0.07280	/kWh/lamp	44	\$3.20	/Lamp	\$6.40	/Lamp	\$4,109	\$4,109	\$8,218		
200 WATT HPS 3AM	Lamps	468	\$3.20	/Lamp	\$0.07280	/kWh/lamp	58	\$4.22	/Lamp	\$7.42	/Lamp	\$1,498	\$1,975	\$3,473		
250 WATT HPS 3AM	Lamps	420	\$3.20	/Lamp	\$0.07280	/kWh/lamp	72	\$5.24	/Lamp	\$8.44	/Lamp	\$1,344	\$2,201	\$3,545		
400 WATT HPS 3AM	Lamps	492	\$3.20	/Lamp	\$0.07280	/kWh/lamp	115	\$8.37	/Lamp	\$11.57	/Lamp	\$1,574	\$4,118	\$5,692		
SUBTOTAL HPS 3AM SCHEDULE		3,336					339					\$10,676	\$13,459	\$24,135		
TOTAL HPS LAMPS		50,220					1,270					\$160,704	\$237,781	\$398,485		

MADISON GAS AND ELECTRIC COMPANY
DOCKET 3270-UR-123
SUMMARY OF ESTIMATED
ELECTRIC BILLING STATISTICS AND REVENUES
FOR THE YEAR JANUARY 1 - DECEMBER 31, 2021

TYPE OF SERVICE	BILLING UNITS	NUMBER OF BILLING UNITS (LAMPS)	DISTRIBUTION SERVICE		ELECTRICITY SERVICE					TOTAL PRESENT MONTHLY RATE		DISTRIBUTION REVENUE	ELECTRICITY REVENUE	PRESENT REVENUES	PROPOSED REVENUE	
			PRESENT DISTRIBUTION SERVICE RATE	BILLING UNITS	PRESENT ELECTRICITY SERVICE RATE	BILLING UNITS	NUMBER OF BILLING UNITS (MO. KWH)	PRESENT ELECTRICITY SERVICE RATE	BILLING UNITS	PRESENT RATES	BILLING UNITS				INCREASE AMOUNT	PERCENT
STREETLIGHTING SERVICE - CUSTOMER OWNED AND CUSTOMER MAINTAINED SL-2																
35 WATT LPS ANEN	Lamps	132	\$3.20	/Lamp	\$0.07280	/kWh/lamp	14	\$1.02	/Lamp	\$4.22	/Lamp	\$422	\$135	\$557		
55 WATT LPS ANEN	Lamps	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	20	\$1.46	/Lamp	\$4.66	/Lamp	\$0	\$0	\$0		
90 WATT LPS ANEN	Lamps	252	\$3.20	/Lamp	\$0.07280	/kWh/lamp	35	\$2.55	/Lamp	\$5.75	/Lamp	\$806	\$643	\$1,449		
SUBTOTAL LPS ALL-NIGHT SCHEDULE		384					69					\$1,228	\$778	\$2,006		
35 WATT LPS MN	Lamps	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	7	\$0.51	/Lamp	\$3.71	/Lamp	\$0	\$0	\$0		
55 WATT LPS MN	Lamps	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	9	\$0.66	/Lamp	\$3.86	/Lamp	\$0	\$0	\$0		
90 WATT LPS MN	Lamps	156	\$3.20	/Lamp	\$0.07280	/kWh/lamp	17	\$1.24	/Lamp	\$4.44	/Lamp	\$499	\$193	\$692		
SUBTOTAL LPS MIDNIGHT SCHEDULE		156					33					\$499	\$193	\$692		
TOTAL LPS LAMPS		540					102					\$1,727	\$971	\$2,698		
50 WATT MH ANEN	Lamps	360	\$3.20	/Lamp	\$0.07280	/kWh/lamp	20	\$1.46	/Lamp	\$4.66	/Lamp	\$1,152	\$526	\$1,678		
70 WATT MH ANEN	Lamps	912	\$3.20	/Lamp	\$0.07280	/kWh/lamp	26	\$1.89	/Lamp	\$5.09	/Lamp	\$2,918	\$1,724	\$4,642		
100 WATT MH ANEN	Lamps	252	\$3.20	/Lamp	\$0.07280	/kWh/lamp	38	\$2.77	/Lamp	\$5.97	/Lamp	\$806	\$698	\$1,504		
175 WATT MH ANEN	Lamps	360	\$3.20	/Lamp	\$0.07280	/kWh/lamp	67	\$4.88	/Lamp	\$8.08	/Lamp	\$1,152	\$1,757	\$2,909		
250 WATT MH ANEN	Lamps	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	95	\$6.92	/Lamp	\$10.12	/Lamp	\$0	\$0	\$0		
SUBTOTAL MH ALL-NIGHT SCHEDULE		1,884					246					\$6,028	\$4,705	\$10,733		
50 WATT MH MN	Lamps	204	\$3.20	/Lamp	\$0.07280	/kWh/lamp	9	\$0.66	/Lamp	\$3.86	/Lamp	\$653	\$135	\$788		
70 WATT MH MN	Lamps	696	\$3.20	/Lamp	\$0.07280	/kWh/lamp	14	\$1.02	/Lamp	\$4.22	/Lamp	\$2,227	\$710	\$2,937		
100 WATT MH MN	Lamps	12	\$3.20	/Lamp	\$0.07280	/kWh/lamp	20	\$1.46	/Lamp	\$4.66	/Lamp	\$38	\$18	\$56		
175 WATT MH MN	Lamps	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	33	\$2.40	/Lamp	\$5.60	/Lamp	\$0	\$0	\$0		
SUBTOTAL MH MIDNIGHT SCHEDULE		708					67					\$2,918	\$863	\$3,781		
70 WATT MH 3AM	Lamps	48	\$3.20	/Lamp	\$0.07280	/kWh/lamp	21	\$1.53	/Lamp	\$4.73	/Lamp	\$154	\$73	\$227		
100 WATT MH 3AM	Lamps	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	29	\$2.11	/Lamp	\$5.31	/Lamp	\$0	\$0	\$0		
175 WATT MH 3AM	Lamps	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	51	\$3.71	/Lamp	\$6.91	/Lamp	\$0	\$0	\$0		
SUBTOTAL MH 3AM SCHEDULE		48					101					\$154	\$73	\$227		
TOTAL MH LAMPS		2,640					414					\$9,100	\$5,641	\$14,741		
10 WATT LED-underground All Night	Lamps	1,020	\$3.20	/Lamp	\$0.07280	/kWh/lamp	3	\$0.220	/Lamp	\$3.42	/Lamp	\$3,264	\$224	\$3,488		
84 WATT LED ANEN		24	\$3.20	/Lamp	\$0.07280	/kWh/lamp	28	\$2.040	/Lamp	\$5.24	/Lamp	\$77	\$49	\$126		
133 WATT LED All Night		36	\$3.20	/Lamp	\$0.07280	/kWh/lamp	44	\$3.200	/Lamp	\$6.40	/Lamp	\$115	\$115	\$230		
150 WATT LED-underground All Night		96	\$3.20	/Lamp	\$0.07280	/kWh/lamp	50	\$3.640	/Lamp	\$6.84	/Lamp	\$307	\$349	\$656		
156 WATT LED-underground All Night		648	\$3.20	/Lamp	\$0.07280	/kWh/lamp	52	\$3.790	/Lamp	\$6.99	/Lamp	\$2,074	\$2,456	\$4,530		
95 WATT LED ANEN	Lamps	84	\$3.20	/Lamp	\$0.07280	/kWh/lamp	32	\$2.330	/Lamp	\$5.53	/Lamp	\$269	\$196	\$465		
TOTAL LED LAMPS		1,908	\$3.20	/Lamp	0.0728	/kWh/lamp	209	15.22	/Lamp	\$18.420	/Lamp	\$6,106	\$3,389	\$9,495		
Act 141 Fixed Charge														(\$3)	(\$3)	
Act 141 Credit		90,036				(\$0.00229)	per kWh							(\$206)	(\$206)	
TOTAL PRESENT SL-2 REVENUE		56,688					30,684					\$182,054	\$254,505	\$436,559		

MADISON GAS AND ELECTRIC COMPANY
DOCKET 3270-UR-117
SUMMARY OF ESTIMATED
ELECTRIC BILLING STATISTICS AND REVENUES
FOR THE YEAR JANUARY 1 - DECEMBER 31, 2021

TYPE OF SERVICE	BILLING UNITS	NUMBER OF BILLING UNITS (LAMPS)	DISTRIBUTION SERVICE		ELECTRICITY SERVICE					TOTAL PROPOSED MONTHLY RATE		DISTRIBUTION REVENUE	ELECTRICITY REVENUE	2021 PROPOSED REVENUES	PROPOSED REVENUE INCREASE	
			PROPOSED DISTRIBUTION SERVICE RATE	BILLING UNITS	PROPOSED ELECTRICITY SERVICE RATE	BILLING UNITS	NUMBER OF BILLING UNITS (MO. KWH)	PROPOSED ELECTRICITY SERVICE RATE	BILLING UNITS	2021 PROPOSED RATES	BILLING UNITS				AMOUNT	PERCENT
STREETLIGHTING SERVICE - CUSTOMER OWNED AND CUSTOMER MAINTAINED SL-2																
100 WATT MV ANEN	Lamps	324	\$3.20	/Lamp	\$0.07280	/kWh/lamp	38	\$2.770	/Lamp	\$5.97	/Lamp	\$1,037	\$897	\$1,934	0	0.00%
175 WATT MV ANEN	Lamps	288	\$3.20	/Lamp	\$0.07280	/kWh/lamp	67	\$4.880	/Lamp	\$8.08	/Lamp	\$922	\$1,405	\$2,327	0	0.00%
250 WATT MV ANEN	Lamps	528	\$3.20	/Lamp	\$0.07280	/kWh/lamp	95	\$6.920	/Lamp	\$10.12	/Lamp	\$1,690	\$3,654	\$5,344	0	0.00%
400 WATT MV ANEN	Lamps	12	\$3.20	/Lamp	\$0.07280	/kWh/lamp	153	\$11.140	/Lamp	\$14.34	/Lamp	\$38	\$134	\$172	0	0.00%
SUBTOTAL MV ALLNIGHT SCHEDULE		1,152					353					\$3,687	\$6,090	\$9,777	0	0.00%
250 WATT MV MN	Lamps	36	\$3.20	/Lamp	\$0.07280	/kWh/lamp	48	\$3.490	/Lamp	\$6.69	/Lamp	\$115	\$126	\$241	0	0.00%
400 WATT MV MN	Lamps	24	\$3.20	/Lamp	\$0.07280	/kWh/lamp	77	\$5.610	/Lamp	\$8.81	/Lamp	\$77	\$135	\$212	0	0.00%
SUBTOTAL MV MIDNIGHT SCHEDULE		60					125					\$192	\$261	\$453	0	0.00%
400 WATT MV 10:30	Lamps	120	\$3.20	/Lamp	\$0.07280	/kWh/lamp	55	\$4.000	/Lamp	\$7.20	/Lamp	\$384	\$480	\$864	0	0.00%
SUBTOTAL MV 10:30 SCHEDULE		120					55					\$384	\$480	\$864	0	0.00%
100 WATT MV 3AM	Lamps	48	\$3.20	/Lamp	\$0.07280	/kWh/lamp	29	\$2.110	/Lamp	\$5.31	/Lamp	\$154	\$101	\$255	0	0.00%
SUBTOTAL MV 3AM SCHEDULE		48					29					\$154	\$101	\$255	0	0.00%
TOTAL MV LAMPS		1,380					562					\$4,417	\$6,932	\$11,349	0	0.00%
70 WATT HPS ANEN	Lamps	984	\$3.20	/Lamp	\$0.07280	/kWh/lamp	26	\$1.890	/Lamp	\$5.09	/Lamp	\$3,149	\$1,860	\$5,009	0	0.00%
100 WATT HPS ANEN	Lamps	3,924	\$3.20	/Lamp	\$0.07280	/kWh/lamp	38	\$2.770	/Lamp	\$5.97	/Lamp	\$12,557	\$10,869	\$23,426	0	0.00%
150 WATT HPS ANEN	Lamps	18,108	\$3.20	/Lamp	\$0.07280	/kWh/lamp	58	\$4.220	/Lamp	\$7.42	/Lamp	\$57,946	\$76,416	\$134,362	0	0.00%
100 WATT HPS UG ANEN	Lamps	72	\$3.20	/Lamp	\$0.07280	/kWh/lamp	38	\$2.770	/Lamp	\$5.97	/Lamp	\$230	\$199	\$429	0	0.00%
150 WATT HPS UG ANEN	Lamps	12	\$3.20	/Lamp	\$0.07280	/kWh/lamp	58	\$4.220	/Lamp	\$7.42	/Lamp	\$38	\$51	\$89	0	0.00%
200 WATT HPS ANEN	Lamps	2,580	\$3.20	/Lamp	\$0.07280	/kWh/lamp	77	\$5.610	/Lamp	\$8.81	/Lamp	\$8,256	\$14,474	\$22,730	0	0.00%
250 WATT HPS ANEN	Lamps	8,856	\$3.20	/Lamp	\$0.07280	/kWh/lamp	95	\$6.920	/Lamp	\$10.12	/Lamp	\$28,339	\$61,284	\$89,623	0	0.00%
400 WATT HPS ANEN	Lamps	3,336	\$3.20	/Lamp	\$0.07280	/kWh/lamp	153	\$11.140	/Lamp	\$14.34	/Lamp	\$10,675	\$37,163	\$47,838	0	0.00%
SUTOTAL HPS ALLNIGHT SCHEDULE		37,872					543					\$121,190	\$202,316	\$323,506	0	0.00%
70 WATT HPS MN	Lamps	636	\$3.20	/Lamp	\$0.07280	/kWh/lamp	14	\$1.020	/Lamp	\$4.22	/Lamp	\$2,035	\$649	\$2,684	0	0.00%
100 WATT HPS MN	Lamps	720	\$3.20	/Lamp	\$0.07280	/kWh/lamp	20	\$1.460	/Lamp	\$4.66	/Lamp	\$2,304	\$1,051	\$3,355	0	0.00%
150 WATT HPS MN	Lamps	5,616	\$3.20	/Lamp	\$0.07280	/kWh/lamp	29	\$2.110	/Lamp	\$5.31	/Lamp	\$17,971	\$11,850	\$29,821	0	0.00%
200 WATT HPS MN	Lamps	120	\$3.20	/Lamp	\$0.07280	/kWh/lamp	38	\$2.770	/Lamp	\$5.97	/Lamp	\$384	\$332	\$716	0	0.00%
250 WATT HPS MN	Lamps	1,104	\$3.20	/Lamp	\$0.07280	/kWh/lamp	48	\$3.490	/Lamp	\$6.69	/Lamp	\$3,533	\$3,853	\$7,386	0	0.00%
400 WATT HPS MN	Lamps	732	\$3.20	/Lamp	\$0.07280	/kWh/lamp	77	\$5.610	/Lamp	\$8.81	/Lamp	\$2,342	\$4,107	\$6,449	0	0.00%
SUBTOTAL HPS MIDNIGHT SCHEDULE		8,928					226					\$28,569	\$21,842	\$50,411	0	0.00%
70 WATT HPS 10:30	Lamps	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	9	\$0.660	/Lamp	\$3.86	/Lamp	\$0	\$0	\$0	0	#DIV/0!
100 WATT HPS 10:30	Lamps	24	\$3.20	/Lamp	\$0.07280	/kWh/lamp	14	\$1.020	/Lamp	\$4.22	/Lamp	\$77	\$24	\$101	0	0.00%
150 WATT HPS 10:30	Lamps	12	\$3.20	/Lamp	\$0.07280	/kWh/lamp	21	\$1.530	/Lamp	\$4.73	/Lamp	\$38	\$18	\$56	0	0.00%
200 WATT HPS 10:30	Lamps	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	28	\$2.040	/Lamp	\$5.24	/Lamp	\$0	\$0	\$0	0	#DIV/0!
250 WATT HPS 10:30	Lamps	48	\$3.20	/Lamp	\$0.07280	/kWh/lamp	35	\$2.550	/Lamp	\$5.75	/Lamp	\$154	\$122	\$276	0	0.00%
400 WATT HPS 10:30	Lamps	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	55	\$4.000	/Lamp	\$7.20	/Lamp	\$0	\$0	\$0	0	#DIV/0!
SUBTOTAL HPS 10:30 SCHEDULE		84					162					\$269	\$164	\$433	0	0.00%
70 WATT HPS 3AM	Lamps	624	\$3.20	/Lamp	\$0.07280	/kWh/lamp	21	\$1.530	/Lamp	\$4.73	/Lamp	\$1,997	\$955	\$2,952	0	0.00%
100 WATT HPS 3AM	Lamps	48	\$3.20	/Lamp	\$0.07280	/kWh/lamp	29	\$2.110	/Lamp	\$5.31	/Lamp	\$154	\$101	\$255	0	0.00%
150 WATT HPS 3AM	Lamps	1,284	\$3.20	/Lamp	\$0.07280	/kWh/lamp	44	\$3.200	/Lamp	\$6.40	/Lamp	\$4,109	\$4,109	\$8,218	0	0.00%
200 WATT HPS 3AM	Lamps	468	\$3.20	/Lamp	\$0.07280	/kWh/lamp	58	\$4.220	/Lamp	\$7.42	/Lamp	\$1,498	\$1,975	\$3,473	0	0.00%
250 WATT HPS 3AM	Lamps	420	\$3.20	/Lamp	\$0.07280	/kWh/lamp	72	\$5.240	/Lamp	\$8.44	/Lamp	\$1,344	\$2,201	\$3,545	0	0.00%
400 WATT HPS 3AM	Lamps	492	\$3.20	/Lamp	\$0.07280	/kWh/lamp	115	\$8.370	/Lamp	\$11.57	/Lamp	\$1,574	\$4,118	\$5,692	0	0.00%
SUBTOTAL HPS 3AM SCHEDULE		3,336					339					\$10,676	\$13,459	\$24,135	0	0.00%
TOTAL HPS LAMPS		50,220					1,270					\$160,704	\$237,781	\$398,485	0	0.00%

MADISON GAS AND ELECTRIC COMPANY
DOCKET 3270-UR-117
SUMMARY OF ESTIMATED
ELECTRIC BILLING STATISTICS AND REVENUES
FOR THE YEAR JANUARY 1 - DECEMBER 31, 2021

TYPE OF SERVICE	BILLING UNITS	NUMBER OF BILLING UNITS (LAMPS)	DISTRIBUTION SERVICE		ELECTRICITY SERVICE					TOTAL PROPOSED MONTHLY RATE		DISTRIBUTION REVENUE	ELECTRICITY REVENUE	PROPOSED REVENUES	PROPOSED REVENUE INCREASE	
			PROPOSED DISTRIBUTION SERVICE RATE	BILLING UNITS	PROPOSED ELECTRICITY SERVICE RATE	BILLING UNITS	NUMBER OF BILLING UNITS (MO. KWH)	TOTAL PROPOSED ELECTRICITY SERVICE RATE	BILLING UNITS	2021 PROPOSED RATES	AMOUNT				PERCENT	
STREETLIGHTING SERVICE - CUSTOMER OWNED AND CUSTOMER MAINTAINED SL-2																
35 WATT LPS ANEN	Lamps	132	\$3.20	/Lamp	\$0.07280	/kWh/lamp	14	\$1.020	/Lamp	\$4.22	/Lamp	\$422	\$135	\$557	0	0.00%
55 WATT LPS ANEN	Lamps	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	20	\$1.460	/Lamp	\$4.66	/Lamp	\$0	\$0	\$0	0	#DIV/0!
90 WATT LPS ANEN	Lamps	252	\$3.20	/Lamp	\$0.07280	/kWh/lamp	35	\$2.550	/Lamp	\$5.75	/Lamp	\$806	\$643	\$1,449	0	0.00%
SUBTOTAL LPS ALL-NIGHT SCHEDULE		384					69					\$1,228	\$778	\$2,006	0	0.00%
35 WATT LPS MN	Lamps	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	7	\$0.510	/Lamp	\$3.71	/Lamp	\$0	\$0	\$0	0	#DIV/0!
55 WATT LPS MN	Lamps	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	9	\$0.660	/Lamp	\$3.86	/Lamp	\$0	\$0	\$0	0	#DIV/0!
90 WATT LPS MN	Lamps	156	\$3.20	/Lamp	\$0.07280	/kWh/lamp	17	\$1.240	/Lamp	\$4.44	/Lamp	\$499	\$193	\$692	0	0.00%
SUBTOTAL LPS MIDNIGHT SCHEDULE		156					33					\$499	\$193	\$692	0	0.00%
TOTAL LPS LAMPS		540					102					\$1,727	\$971	\$2,698	0	0.00%
50 WATT MH ANEN	Lamps	360	\$3.20	/Lamp	\$0.07280	/kWh/lamp	20	\$1.460	/Lamp	\$4.66	/Lamp	\$1,152	\$526	\$1,678	0	0.00%
70 WATT MH ANEN	Lamps	912	\$3.20	/Lamp	\$0.07280	/kWh/lamp	26	\$1.890	/Lamp	\$5.09	/Lamp	\$2,918	\$1,724	\$4,642	0	0.00%
100 WATT MH ANEN	Lamps	252	\$3.20	/Lamp	\$0.07280	/kWh/lamp	38	\$2.770	/Lamp	\$5.97	/Lamp	\$806	\$698	\$1,504	0	0.00%
175 WATT MH ANEN	Lamps	360	\$3.20	/Lamp	\$0.07280	/kWh/lamp	67	\$4.880	/Lamp	\$8.08	/Lamp	\$1,152	\$1,757	\$2,909	0	0.00%
250 WATT MH ANEN	Lamps	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	95	\$6.920	/Lamp	\$10.12	/Lamp	\$0	\$0	\$0	0	#DIV/0!
SUBTOTAL MH ALL-NIGHT SCHEDULE		1,884					246					\$6,028	\$4,705	\$10,733	0	0.00%
50 WATT MH MN	Lamps	204	\$3.20	/Lamp	\$0.07280	/kWh/lamp	9	\$0.660	/Lamp	\$3.86	/Lamp	\$653	\$135	\$788	0	0.00%
70 WATT MH MN	Lamps	696	\$3.20	/Lamp	\$0.07280	/kWh/lamp	14	\$1.020	/Lamp	\$4.22	/Lamp	\$2,227	\$710	\$2,937	0	0.00%
100 WATT MH MN	Lamps	12	\$3.20	/Lamp	\$0.07280	/kWh/lamp	20	\$1.460	/Lamp	\$4.66	/Lamp	\$38	\$18	\$56	0	0.00%
175 WATT MH MN	Lamps	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	33	\$2.400	/Lamp	\$5.60	/Lamp	\$0	\$0	\$0	0	#DIV/0!
SUBTOTAL MH MIDNIGHT SCHEDULE		912					67					\$2,918	\$863	\$3,781	0	0.00%
70 WATT MH 3AM	Lamps	48	\$3.20	/Lamp	\$0.07280	/kWh/lamp	21	\$1.530	/Lamp	\$4.73	/Lamp	\$154	\$73	\$227	0	0.00%
100 WATT MH 3AM	Lamps	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	29	\$2.110	/Lamp	\$5.31	/Lamp	\$0	\$0	\$0	0	#DIV/0!
175 WATT MH 3AM	Lamps	0	\$3.20	/Lamp	\$0.07280	/kWh/lamp	51	\$3.710	/Lamp	\$6.91	/Lamp	\$0	\$0	\$0	0	#DIV/0!
SUBTOTAL MH 3AM SCHEDULE		48					101					\$154	\$73	\$227	0	0.00%
TOTAL MH LAMPS		2,844					414					\$9,100	\$5,641	\$14,741	0	0.00%
10 WATT LED-underground All Night	Lamps	1,020	\$3.20	/Lamp	\$0.07280	/kWh/lamp	3	\$0.220	/Lamp	\$3.42	/Lamp	\$3,264	\$224	\$3,488	0	0.00%
84 WATT LED ANEN	Lamps	24	\$3.20	/Lamp	\$0.07280	/kWh/lamp	28	\$2.040	/Lamp	\$5.24	/Lamp	\$77	\$49	\$126		
133 WATT LED All Night	Lamps	36	\$3.20	/Lamp	\$0.07280	/kWh/lamp	44	\$3.200	/Lamp	\$6.40	/Lamp	\$115	\$115	\$230		
150 WATT LED-underground All Night	Lamps	96	\$3.20	/Lamp	\$0.07280	/kWh/lamp	50	\$3.640	/Lamp	\$6.84	/Lamp	\$307	\$349	\$656		
156 WATT LED-underground All Night	Lamps	648	\$3.20	/Lamp	\$0.07280	/kWh/lamp	52	\$3.790	/Lamp	\$6.99	/Lamp	\$2,074	\$2,456	\$4,530		
95 WATT LED ANEN	Lamps	84	\$3.20	/Lamp	\$0.07280	/kWh/lamp	32	\$2.330	/Lamp	\$5.53	/Lamp	\$269	\$196	\$465	0	0.00%
TOTAL LED LAMPS		1,908	\$3.20	/Lamp	\$0.07280	/kWh/lamp	209	\$15.220	/Lamp	\$18.420	/Lamp	\$6,106	\$3,389	\$9,495	0	0.00%
Act 141 Fixed Charge														\$ (3)	0	0.00%
Act 141 Credit Present		90,036	Units			(\$0.00229)	per kWh							\$ (206)	0	0.00%
TOTAL PRESENT SL-2 REVENUE		56,892					30,684					\$182,054	\$254,714	\$436,559	0	0.00%

MADISON GAS AND ELECTRIC COMPANY
DOCKET 3270-UR-120
SUMMARY OF ESTIMATED
ELECTRIC BILLING STATISTICS AND REVENUES
FOR THE YEAR JANUARY 1 - DECEMBER 31, 2021

			DISTRIBUTION SERVICE		ELECTRICITY SERVICE				TOTAL PRESENT MONTHLY RATE		DISTRIBUTION REVENUE		ELECTRICITY REVENUE		MAINTENANCE REVENUE		TOTAL PRESENT REVENUES		PROPOSED REVENUE INCREASE		PERCENT	
TYPE OF SERVICE	BILLING UNITS	NUMBER OF BILLING UNITS (LAMPS)	PRESENT DISTRIBUTION SERVICE RATE	BILLING UNITS	PRESENT ELECTRICITY SERVICE RATE	BILLING UNITS	NUMBER OF BILLING UNITS (NO. KWH)	PRESENT ELECTRICITY SERVICE RATE	BILLING UNITS	PRESENT MAINTENANCE RATE	BILLING UNITS	PRESENT RATES	BILLING UNITS	REVENUE	REVENUE	REVENUE	REVENUE	REVENUES	AMOUNT	PERCENT		
STREETLIGHTING SERVICE - CUSTOMER OWNED AND COMPANY MAINTAINED BL-3																						
OVERHEAD SERVICE																						
70 WATT HPS ANEN	Lamps	9,000	\$3.20	Lamp	\$0.07280	AWHLamp	26	\$1.89	Lamp	\$1.00	Lamp	\$6.09	Lamp	\$28,800	\$17,010	\$9,000	\$54,810	\$54,810	\$0	\$0	\$0	
100 WATT HPS ANEN	Lamps	36,882	\$3.20	Lamp	\$0.07280	AWHLamp	38	\$2.77	Lamp	\$1.00	Lamp	\$6.97	Lamp	\$114,854	\$99,421	\$35,882	\$250,157	\$250,157	\$0	\$0	\$0	
150 WATT HPS ANEN	Lamps	5,148	\$3.20	Lamp	\$0.07280	AWHLamp	58	\$4.22	Lamp	\$1.00	Lamp	\$8.42	Lamp	\$16,474	\$21,725	\$5,148	\$43,347	\$43,347	\$0	\$0	\$0	
200 WATT HPS ANEN	Lamps	48	\$3.20	Lamp	\$0.07280	AWHLamp	77	\$5.61	Lamp	\$1.00	Lamp	\$9.61	Lamp	\$154	\$209	\$48	\$471	\$471	\$0	\$0	\$0	
250 WATT HPS ANEN	Lamps	468	\$3.20	Lamp	\$0.07280	AWHLamp	95	\$6.92	Lamp	\$1.00	Lamp	\$11.12	Lamp	\$1,488	\$3,239	\$468	\$5,205	\$5,205	\$0	\$0	\$0	
SUBTOTAL HPS ALLNIGHT SCHEDULE 50,556 \$161,780 \$144,664 \$50,556 \$358,000																						
70 WATT HPS MN	Lamps	0	\$3.20	Lamp	\$0.07280	AWHLamp	20	\$1.02	Lamp	\$1.00	Lamp	\$5.22	Lamp	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
100 WATT HPS MN	Lamps	0	\$3.20	Lamp	\$0.07280	AWHLamp	20	\$1.46	Lamp	\$1.00	Lamp	\$5.56	Lamp	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
150 WATT HPS MN	Lamps	252	\$3.20	Lamp	\$0.07280	AWHLamp	29	\$2.11	Lamp	\$1.00	Lamp	\$6.31	Lamp	\$806	\$532	\$252	\$1,590	\$1,590	\$0	\$0	\$0	
200 WATT HPS MN	Lamps	0	\$3.20	Lamp	\$0.07280	AWHLamp	38	\$2.77	Lamp	\$1.00	Lamp	\$6.97	Lamp	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
250 WATT HPS MN	Lamps	0	\$3.20	Lamp	\$0.07280	AWHLamp	58	\$4.22	Lamp	\$1.00	Lamp	\$7.69	Lamp	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
SUBTOTAL HPS MIDNIGHT SCHEDULE 252 \$832 \$779 \$0 \$0																						
70 WATT MH ANEN	Lamps	0	\$3.20	Lamp	\$0.07280	AWHLamp	26	\$1.89	Lamp	\$1.00	Lamp	\$6.09	Lamp	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
100 WATT MH ANEN	Lamps	0	\$3.20	Lamp	\$0.07280	AWHLamp	38	\$4.22	Lamp	\$1.00	Lamp	\$6.42	Lamp	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
150 WATT MH ANEN	Lamps	0	\$3.20	Lamp	\$0.07280	AWHLamp	58	\$5.92	Lamp	\$1.00	Lamp	\$11.12	Lamp	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
SUBTOTAL MH ALLNIGHT SCHEDULE 0 \$0 \$0 \$0 \$0																						
70 WATT MH MN	Lamps	0	\$3.20	Lamp	\$0.07280	AWHLamp	14	\$1.02	Lamp	\$1.00	Lamp	\$5.22	Lamp	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
100 WATT MH MN	Lamps	0	\$3.20	Lamp	\$0.07280	AWHLamp	20	\$2.11	Lamp	\$1.00	Lamp	\$6.31	Lamp	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
150 WATT MH MN	Lamps	0	\$3.20	Lamp	\$0.07280	AWHLamp	29	\$3.49	Lamp	\$1.00	Lamp	\$7.69	Lamp	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
SUBTOTAL MH MIDNIGHT SCHEDULE 0 \$0 \$0 \$0 \$0																						
30 WATT LED ANEN	Lamps	60	\$3.20	Lamp	\$0.07280	AWHLamp	10	\$0.73	Lamp	\$1.00	Lamp	\$4.93	Lamp	\$192	\$44	\$60	\$296	\$296	\$0	\$0	\$0	
34 WATT LED ANEN	Lamps	12	\$3.20	Lamp	\$0.07280	AWHLamp	11	\$0.80	Lamp	\$1.00	Lamp	\$5.00	Lamp	\$38	\$10	\$12	\$60	\$60	\$0	\$0	\$0	
53 WATT LED ANEN	Lamps	48	\$3.20	Lamp	\$0.07280	AWHLamp	16	\$1.31	Lamp	\$1.00	Lamp	\$5.15	Lamp	\$93	\$21	\$48	\$206	\$206	\$0	\$0	\$0	
56 WATT LED ANEN	Lamps	132	\$3.20	Lamp	\$0.07280	AWHLamp	19	\$1.38	Lamp	\$1.00	Lamp	\$5.58	Lamp	\$422	\$182	\$132	\$736	\$736	\$0	\$0	\$0	
64 WATT LED ANEN	Lamps	12	\$3.20	Lamp	\$0.07280	AWHLamp	21	\$1.53	Lamp	\$1.00	Lamp	\$5.73	Lamp	\$38	\$18	\$12	\$68	\$68	\$0	\$0	\$0	
73 WATT LED ANEN	Lamps	12	\$3.20	Lamp	\$0.07280	AWHLamp	24	\$1.75	Lamp	\$1.00	Lamp	\$6.31	Lamp	\$38	\$21	\$12	\$71	\$71	\$0	\$0	\$0	
76 WATT LED ANEN	Lamps	264	\$3.20	Lamp	\$0.07280	AWHLamp	25	\$1.82	Lamp	\$1.00	Lamp	\$6.02	Lamp	\$845	\$409	\$264	\$1,589	\$1,589	\$0	\$0	\$0	
86 WATT LED ANEN	Lamps	12	\$3.20	Lamp	\$0.07280	AWHLamp	31	\$2.38	Lamp	\$1.00	Lamp	\$6.53	Lamp	\$38	\$28	\$12	\$78	\$78	\$0	\$0	\$0	
100 WATT LED ANEN	Lamps	96	\$3.20	Lamp	\$0.07280	AWHLamp	33	\$2.40	Lamp	\$1.00	Lamp	\$6.60	Lamp	\$307	\$230	\$96	\$633	\$633	\$0	\$0	\$0	
110 WATT LED ANEN	Lamps	60	\$3.20	Lamp	\$0.07280	AWHLamp	37	\$2.69	Lamp	\$1.00	Lamp	\$7.09	Lamp	\$192	\$161	\$60	\$413	\$413	\$0	\$0	\$0	
150 WATT LED ANEN	Lamps	12	\$3.20	Lamp	\$0.07280	AWHLamp	59	\$3.64	Lamp	\$1.00	Lamp	\$7.84	Lamp	\$38	\$44	\$12	\$94	\$94	\$0	\$0	\$0	
SUBTOTAL LED ALLNIGHT SCHEDULE 720 \$1,968 \$1,281 \$720 \$3,969																						
TOTAL OVERHEAD 51,528 \$164,688 \$143,477 \$51,528 \$358,695																						
UNDERGROUND SERVICE																						
70 WATT HPS ANEN	Lamps	3,360	\$3.20	Lamp	\$0.07280	AWHLamp	26	\$1.89	Lamp	\$1.00	Lamp	\$6.09	Lamp	\$10,752	\$6,300	\$3,360	\$20,412	\$20,412	\$0	\$0	\$0	
71.2 WATT HPS ANEN	Lamps	0	\$3.20	Lamp	\$0.07280	AWHLamp	28	\$2.04	Lamp	\$1.00	Lamp	\$6.24	Lamp	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
76 WATT HPS ANEN	Lamps	0	\$3.20	Lamp	\$0.07280	AWHLamp	38	\$2.11	Lamp	\$1.00	Lamp	\$6.31	Lamp	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
82 WATT HPS ANEN	Lamps	0	\$3.20	Lamp	\$0.07280	AWHLamp	31	\$2.38	Lamp	\$1.00	Lamp	\$6.46	Lamp	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
100 WATT HPS ANEN	Lamps	30,376	\$3.20	Lamp	\$0.07280	AWHLamp	38	\$2.77	Lamp	\$1.00	Lamp	\$6.97	Lamp	\$96,883	\$83,885	\$30,376	\$211,024	\$211,024	\$0	\$0	\$0	
150 WATT HPS ANEN	Lamps	11,882	\$3.20	Lamp	\$0.07280	AWHLamp	58	\$4.22	Lamp	\$1.00	Lamp	\$8.42	Lamp	\$38,246	\$50,437	\$11,882	\$100,635	\$100,635	\$0	\$0	\$0	
200 WATT HPS ANEN	Lamps	936	\$3.20	Lamp	\$0.07280	AWHLamp	77	\$5.61	Lamp	\$1.00	Lamp	\$9.61	Lamp	\$2,995	\$5,251	\$936	\$9,182	\$9,182	\$0	\$0	\$0	
250 WATT HPS ANEN	Lamps	1,188	\$3.20	Lamp	\$0.07280	AWHLamp	95	\$6.92	Lamp	\$1.00	Lamp	\$11.12	Lamp	\$3,882	\$9,251	\$1,188	\$13,211	\$13,211	\$0	\$0	\$0	
400 WATT HPS ANEN	Lamps	26	\$3.20	Lamp	\$0.07280	AWHLamp	153	\$11.14	Lamp	\$1.00	Lamp	\$15.34	Lamp	\$307	\$1,069	\$96	\$1,472	\$1,472	\$0	\$0	\$0	
SUBTOTAL HPS ALLNIGHT SCHEDULE 47,808 \$115,968 \$105,193 \$47,808 \$338,569																						
70 WATT HPS MN	Lamps	0	\$3.20	Lamp	\$0.07280	AWHLamp	20	\$1.46	Lamp	\$1.00	Lamp	\$5.56	Lamp	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
100 WATT HPS MN	Lamps	420	\$3.20	Lamp	\$0.07280	AWHLamp	29	\$2.11	Lamp	\$1.00	Lamp	\$6.31	Lamp	\$1,344	\$886	\$420	\$2,650	\$2,650	\$0	\$0	\$0	
150 WATT HPS MN	Lamps	12	\$3.20	Lamp	\$0.07280	AWHLamp	48	\$3.49	Lamp	\$1.00	Lamp	\$7.69	Lamp	\$38	\$42	\$12	\$88	\$88	\$0	\$0	\$0	
SUBTOTAL HPS MIDNIGHT SCHEDULE 420 \$1,382 \$928 \$420 \$2,740																						
175 WATT MV ANEN	Lamps	4,056	\$3.20	Lamp	\$0.07280	AWHLamp	67	\$4.58	Lamp	\$1.00	Lamp	\$9.08	Lamp	\$12,979	\$19,763	\$4,056	\$36,828	\$36,828	\$0	\$0	\$0	
250 WATT MV ANEN	Lamps	456	\$3.20	Lamp	\$0.07280	AWHLamp	95	\$6.92	Lamp	\$1.00	Lamp	\$11.12	Lamp	\$1,459	\$3,195	\$456	\$5,109	\$5,109	\$0	\$0	\$0	
SUBTOTAL MV ALLNIGHT SCHEDULE 4,512 \$14,438 \$22,958 \$4,512 \$42,908																						
70 WATT MH ANEN	Lamps	0	\$3.20	Lamp	\$0.07280	AWHLamp	26	\$1.89	Lamp	\$1.00	Lamp	\$6.09	Lamp	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
100 WATT MH ANEN	Lamps	0	\$3.20	Lamp	\$0.07280	AWHLamp	38	\$2.77	Lamp	\$1.00	Lamp	\$6.97	Lamp	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
150 WATT MH ANEN	Lamps	0	\$3.20	Lamp	\$0.07280	AWHLamp	58	\$4.22	Lamp	\$1.00	Lamp	\$8.42	Lamp	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
175 WATT MH ANEN	Lamps	1,068	\$3.20	Lamp	\$0.07280	AWHLamp	67	\$4.88	Lamp	\$1.00	Lamp	\$9.08	Lamp	\$3,418	\$5,212	\$1,068	\$9,698	\$9,698	\$0	\$0	\$0	
250 WATT MH ANEN	Lamps	108	\$3.20	Lamp	\$0.07280	AWHLamp	95	\$6.92	Lamp	\$1.00	Lamp	\$11.12	Lamp	\$346	\$747	\$108	\$1,201	\$1,201	\$0	\$0	\$0	
SUBTOTAL MH ALLNIGHT SCHEDULE 1,176 \$3,766 \$5,968 \$1,176 \$10,910																						
70 WATT MH MN	Lamps	0	\$3.20	Lamp	\$0.07280	AWHLamp	14	\$1.02	Lamp	\$1.00	Lamp	\$5.22	Lamp	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
100 WATT MH MN	Lamps	0	\$3.20	Lamp	\$0.07280	AWHLamp	20	\$1.46	Lamp	\$1.00	Lamp	\$5.56	Lamp	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
150 WATT MH MN	Lamps	0	\$3.20	Lamp	\$0.07280	AWHLamp	29	\$2.11	Lamp	\$1.00	Lamp	\$6.31	Lamp	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
175 WATT MH MN	Lamps	0	\$3.20	Lamp	\$0.07280	AWHLamp	33	\$2.40	Lamp	\$1.00	Lamp	\$6.60	Lamp	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
250 WATT MH MN	Lamps	0	\$3.20	Lamp	\$0.07280	AWHLamp	48	\$3.49	Lamp	\$1.00	Lamp	\$7.69	Lamp	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
SUBTOTAL MH MIDNIGHT SCHEDULE 0 \$0 \$0 \$0 \$0																						
30 WATT LED ANEN	Lamps	60	\$3.20	Lamp	\$0.07280	AWHLamp	10	\$0.73	Lamp	\$1.00	Lamp	\$4.93	Lamp	\$192	\$44	\$60	\$296	\$296	\$0	\$0	\$0	
34 WATT LED ANEN	Lamps	12	\$3.20	Lamp	\$0.07280	AWHLamp	11	\$0.80	Lamp	\$1.00	Lamp	\$5.00	Lamp	\$38	\$10	\$12	\$60	\$60	\$0	\$0	\$0	
53 WATT LED ANEN	Lamps	48	\$3.20	Lamp	\$0.07280	AWHLamp	16	\$1.31	Lamp	\$1.00	Lamp	\$5.15	Lamp	\$93	\$21	\$48	\$206	\$206	\$0	\$0	\$0	
56 WATT LED ANEN	Lamps	132	\$3.20	Lamp	\$0.07280	AWHLamp	19	\$1.38	Lamp	\$1.00	Lamp	\$5.58	Lamp	\$422	\$182	\$132	\$736	\$736	\$0	\$0	\$0	
64 WATT LED ANEN	Lamps	12	\$3.20	Lamp	\$0.07280	AWHLamp	21	\$1.53	Lamp	\$1.00	Lamp	\$5.73	Lamp	\$38	\$18	\$12	\$68	\$68	\$0	\$0	\$0	
73 WATT LED ANEN	Lamps	12	\$3.20	Lamp	\$0.07280	AWHLamp	24	\$1.75	Lamp	\$1.00	Lamp	\$6.31	Lamp	\$38	\$21	\$12	\$71	\$71	\$0	\$0	\$0	
76 WATT LED ANEN	Lamps	264	\$3.20	Lamp	\$0.07280	AWHLamp	25	\$1.82	Lamp	\$1.00	Lamp	\$6.02	Lamp	\$845	\$409	\$264	\$1,589	\$1,589	\$0	\$0	\$0	
86 WATT LED ANEN	Lamps	12	\$3.20	Lamp	\$0.07280	AWHLamp	31	\$2.38	Lamp	\$1.00	Lamp	\$6.53	Lamp	\$38	\$28	\$12	\$78	\$78	\$0	\$0	\$0	
100 WATT LED ANEN	Lamps	96	\$3.20	Lamp	\$0.07280	AWHLamp	33	\$2.40	Lamp	\$1.00	Lamp	\$6.60	Lamp	\$307	\$230	\$96	\$633	\$633	\$0	\$0	\$0	
110 WATT LED ANEN	Lamps	60	\$3.20	Lamp	\$0.07280	AWHLamp	37	\$2.69	Lamp	\$1.00	Lamp	\$7.09	Lamp	\$192	\$161	\$60	\$413	\$413	\$0	\$0	\$0	
150 WATT LED ANEN	Lamps	12	\$3.20	Lamp	\$0.07280	AWHLamp	59	\$3.64	Lamp	\$1.00	Lamp	\$7.84	Lamp	\$38	\$44	\$12	\$94	\$94	\$0	\$0	\$0	
SUBTOTAL LED ALLNIGHT SCHEDULE 720 \$1,968 \$1,281 \$720 \$3,969																						
TOTAL UNDERGROUND 300 \$9,470 \$7,021 \$9,470 \$26,511																						
TOTAL 51,828 \$174,158 \$150,498 \$61,028 \$385,206																						

300 WATT Incandescent W-Snap ANI Lamps	12	\$3.20	/Lamp	\$0.07280	/W/hlamp	100	\$7.28	/Lamp	\$7.70	/Lamp	\$18.18	/Lamp	\$38	\$87	\$92	\$217	
Act 141 Fixed Charge														\$0		\$0	
Act 141 Credit	0	kWh		(\$0.00229)	per kWh									\$0		\$0	
TOTAL PRESENT SL-3 REVENUE	111,584	Lamps											\$356,809	\$341,635	\$111,584	0	\$810,028

Docket No. 3270-UR-120
Attachment C
Schedule 16
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MADISON GAS AND ELECTRIC COMPANY
DOCKET 3270-UR-120
SUMMARY OF ESTIMATED
ELECTRIC BILLING STATISTICS AND REVENUES
FOR THE YEAR JANUARY 1 - DECEMBER 31, 2021

			DISTRIBUTION SERVICE		ELECTRICITY SERVICE				TOTAL PROPOSED MONTHLY RATE												
TYPE OF SERVICE	BILLING UNITS	NUMBER OF BILLING UNITS (LAMPS)	PROPOSED DISTRIBUTION SERVICE RATE	BILLING UNITS	PROPOSED ELECTRICITY SERVICE RATE	BILLING UNITS	NUMBER OF BILLING UNITS (LAMPS)	PROPOSED ELECTRICITY SERVICE RATE	BILLING UNITS	TOTAL PROPOSED MONTHLY RATE	PROPOSED MAINTENANCE RATE	BILLING UNITS	PROPOSED ELECTRICITY SERVICE RATE	BILLING UNITS	TOTAL PROPOSED MONTHLY RATE	DISTRIBUTION REVENUE	ELECTRICITY REVENUE	MAINTENANCE REVENUE	TOTAL PROPOSED MONTHLY REVENUE	PROPOSED INCREASE AMOUNT	PERCENT
STREET LIGHTING SERVICE - CUSTOMER OWNED AND COMPANY MAINTAINED SL-3																					
OVERHEAD SERVICE																					
70 WATT HPS ANEN	Lamps	9,000	\$3.20	/Lamp	\$0.07280	/W/hlamp	26	\$1.89	/Lamp	\$1.00	/Lamp	\$6.09	/Lamp	\$28,800	\$17,910	\$9,000	\$54,910	0	0.00%		
100 WATT HPS ANEN	Lamps	35,892	\$3.20	/Lamp	\$0.07280	/W/hlamp	38	\$2.77	/Lamp	\$1.00	/Lamp	\$6.97	/Lamp	\$114,854	\$99,421	\$35,892	\$250,167	0	0.00%		
150 WATT HPS ANEN	Lamps	5,148	\$3.20	/Lamp	\$0.07280	/W/hlamp	58	\$4.22	/Lamp	\$1.00	/Lamp	\$8.42	/Lamp	\$16,474	\$21,725	\$5,148	\$43,347	0	0.00%		
200 WATT HPS ANEN	Lamps	48	\$3.20	/Lamp	\$0.07280	/W/hlamp	77	\$5.61	/Lamp	\$1.00	/Lamp	\$9.91	/Lamp	\$154	\$209	\$48	\$471	0	0.00%		
250 WATT HPS ANEN	Lamps	588	\$3.20	/Lamp	\$0.07280	/W/hlamp	95	\$6.92	/Lamp	\$1.00	/Lamp	\$11.12	/Lamp	\$1,498	\$3,239	\$488	\$5,235	0	0.00%		
SUBTOTAL HPS ALLNIGHT SCHEDULE		50,566											\$161,763	\$141,064	\$50,566	\$354,000	0	0.00%			
70 WATT HPS MN	Lamps	0	\$3.20	/Lamp	\$0.07280	/W/hlamp	14	\$1.02	/Lamp	\$1.00	/Lamp	\$5.22	/Lamp	\$0	\$0	\$0	\$0	0	NDIV/0%		
100 WATT HPS MN	Lamps	0	\$3.20	/Lamp	\$0.07280	/W/hlamp	20	\$1.46	/Lamp	\$1.00	/Lamp	\$5.66	/Lamp	\$0	\$0	\$0	\$0	0	NDIV/0%		
150 WATT HPS MN	Lamps	252	\$3.20	/Lamp	\$0.07280	/W/hlamp	29	\$2.11	/Lamp	\$1.00	/Lamp	\$6.31	/Lamp	\$990	\$532	\$252	\$1,980	0	0.00%		
200 WATT HPS MN	Lamps	0	\$3.20	/Lamp	\$0.07280	/W/hlamp	38	\$2.77	/Lamp	\$1.00	/Lamp	\$6.97	/Lamp	\$0	\$0	\$0	\$0	0	NDIV/0%		
250 WATT HPS MN	Lamps	0	\$3.20	/Lamp	\$0.07280	/W/hlamp	48	\$3.49	/Lamp	\$1.00	/Lamp	\$7.69	/Lamp	\$0	\$0	\$0	\$0	0	NDIV/0%		
SUBTOTAL HPS MIDNIGHT SCHEDULE		252											\$990	\$532	\$252	\$1,980	0	0.00%			
70 WATT MH ANEN	Lamps	0	\$3.20	/Lamp	\$0.07280	/W/hlamp	26	\$1.89	/Lamp	\$1.00	/Lamp	\$6.09	/Lamp	\$0	\$0	\$0	\$0	0	NDIV/0%		
100 WATT MH ANEN	Lamps	0	\$3.20	/Lamp	\$0.07280	/W/hlamp	38	\$2.22	/Lamp	\$1.00	/Lamp	\$6.42	/Lamp	\$0	\$0	\$0	\$0	0	NDIV/0%		
150 WATT MH ANEN	Lamps	0	\$3.20	/Lamp	\$0.07280	/W/hlamp	58	\$4.22	/Lamp	\$1.00	/Lamp	\$11.12	/Lamp	\$0	\$0	\$0	\$0	0	NDIV/0%		
SUBTOTAL MH ALLNIGHT SCHEDULE		0											\$0	\$0	\$0	\$0	0	NDIV/0%			
70 WATT MH MN	Lamps	0	\$3.20	/Lamp	\$0.07280	/W/hlamp	14	\$1.02	/Lamp	\$1.00	/Lamp	\$5.22	/Lamp	\$0	\$0	\$0	\$0	0	NDIV/0%		
100 WATT MH MN	Lamps	0	\$3.20	/Lamp	\$0.07280	/W/hlamp	20	\$1.46	/Lamp	\$1.00	/Lamp	\$5.66	/Lamp	\$0	\$0	\$0	\$0	0	NDIV/0%		
150 WATT MH MN	Lamps	0	\$3.20	/Lamp	\$0.07280	/W/hlamp	29	\$2.11	/Lamp	\$1.00	/Lamp	\$6.31	/Lamp	\$0	\$0	\$0	\$0	0	NDIV/0%		
200 WATT MH MN	Lamps	0	\$3.20	/Lamp	\$0.07280	/W/hlamp	38	\$2.77	/Lamp	\$1.00	/Lamp	\$6.97	/Lamp	\$0	\$0	\$0	\$0	0	NDIV/0%		
SUBTOTAL MH MIDNIGHT SCHEDULE		0											\$0	\$0	\$0	\$0	0	NDIV/0%			
30 WATT LED ANEN	Lamps	60	\$3.20	/Lamp	\$0.07280	/W/hlamp	10	\$0.73	/Lamp	\$1.00	/Lamp	\$4.93	/Lamp	\$192	\$44	\$60	\$296	0	0.00%		
34 WATT LED ANEN	Lamps	12	\$3.20	/Lamp	\$0.07280	/W/hlamp	11	\$0.80	/Lamp	\$1.00	/Lamp	\$5.00	/Lamp	\$38	\$10	\$12	\$58	0	0.00%		
43 WATT LED ANEN	Lamps	48	\$3.20	/Lamp	\$0.07280	/W/hlamp	18	\$1.31	/Lamp	\$1.00	/Lamp	\$5.51	/Lamp	\$154	\$63	\$48	\$265	0	0.00%		
56 WATT LED ANEN	Lamps	132	\$3.20	/Lamp	\$0.07280	/W/hlamp	19	\$1.38	/Lamp	\$1.00	/Lamp	\$5.58	/Lamp	\$422	\$182	\$132	\$738	0	0.00%		
64 WATT LED ANEN	Lamps	12	\$3.20	/Lamp	\$0.07280	/W/hlamp	21	\$1.53	/Lamp	\$1.00	/Lamp	\$5.73	/Lamp	\$38	\$18	\$12	\$68	0	0.00%		
73 WATT LED ANEN	Lamps	12	\$3.20	/Lamp	\$0.07280	/W/hlamp	24	\$1.75	/Lamp	\$1.00	/Lamp	\$5.95	/Lamp	\$38	\$21	\$12	\$71	0	0.00%		
82 WATT LED ANEN	Lamps	264	\$3.20	/Lamp	\$0.07280	/W/hlamp	36	\$2.77	/Lamp	\$1.00	/Lamp	\$6.97	/Lamp	\$1,062	\$448	\$264	\$1,584	0	0.00%		
95 WATT LED ANEN	Lamps	12	\$3.20	/Lamp	\$0.07280	/W/hlamp	32	\$2.33	/Lamp	\$1.00	/Lamp	\$6.53	/Lamp	\$38	\$28	\$12	\$78	0	0.00%		
100 WATT LED ANEN	Lamps	96	\$3.20	/Lamp	\$0.07280	/W/hlamp	33	\$2.40	/Lamp	\$1.00	/Lamp	\$6.60	/Lamp	\$307	\$230	\$96	\$633	0	0.00%		
110 WATT LED ANEN	Lamps	60	\$3.20	/Lamp	\$0.07280	/W/hlamp	37	\$2.69	/Lamp	\$1.00	/Lamp	\$6.89	/Lamp	\$192	\$161	\$60	\$413	0	0.00%		
150 WATT LED ANEN	Lamps	12	\$3.20	/Lamp	\$0.07280	/W/hlamp	50	\$3.64	/Lamp	\$1.00	/Lamp	\$7.64	/Lamp	\$238	\$44	\$12	\$314	0	0.00%		
SUBTOTAL LED ALLNIGHT SCHEDULE		720											\$2,380	\$1,281	\$720	\$4,381	0	0.00%			
TOTAL OVERHEAD		51,528											\$164,888	\$143,477	\$51,528	\$359,893	0	0.00%			
UNDERGROUND SERVICE																					
70 WATT HPS ANEN	Lamps	3,360	\$3.20	/Lamp	\$0.07280	/W/hlamp	26	\$1.89	/Lamp	\$1.00	/Lamp	\$6.09	/Lamp	\$10,752	\$6,350	\$3,360	\$20,462	0	0.00%		
71.2 WATT HPS ANEN	Lamps	0	\$3.20	/Lamp	\$0.07280	/W/hlamp	29	\$2.11	/Lamp	\$1.00	/Lamp	\$6.24	/Lamp	\$0	\$0	\$0	\$0	0	NDIV/0%		
76 WATT HPS ANEN	Lamps	0	\$3.20	/Lamp	\$0.07280	/W/hlamp	29	\$2.11	/Lamp	\$1.00	/Lamp	\$6.31	/Lamp	\$0	\$0	\$0	\$0	0	NDIV/0%		
82 WATT HPS ANEN	Lamps	0	\$3.20	/Lamp	\$0.07280	/W/hlamp	31	\$2.28	/Lamp	\$1.00	/Lamp	\$6.46	/Lamp	\$0	\$0	\$0	\$0	0	NDIV/0%		
100 WATT HPS ANEN	Lamps	30,276	\$3.20	/Lamp	\$0.07280	/W/hlamp	38	\$2.77	/Lamp	\$1.00	/Lamp	\$6.97	/Lamp	\$96,883	\$83,860	\$30,276	\$211,004	0	0.00%		
150 WATT HPS ANEN	Lamps	11,952	\$3.20	/Lamp	\$0.07280	/W/hlamp	58	\$4.22	/Lamp	\$1.00	/Lamp	\$8.42	/Lamp	\$38,248	\$50,437	\$11,952	\$100,635	0	0.00%		
200 WATT HPS ANEN	Lamps	936	\$3.20	/Lamp	\$0.07280	/W/hlamp	77	\$5.61	/Lamp	\$1.00	/Lamp	\$9.91	/Lamp	\$2,095	\$5,251	\$936	\$8,186	0	0.00%		
250 WATT HPS ANEN	Lamps	1,188	\$3.20	/Lamp	\$0.07280	/W/hlamp	95	\$6.92	/Lamp	\$1.00	/Lamp	\$11.12	/Lamp	\$3,862	\$8,221	\$1,188	\$13,211	0	0.00%		
400 WATT HPS ANEN	Lamps	96	\$3.20	/Lamp	\$0.07280	/W/hlamp	103	\$11.14	/Lamp	\$1.00	/Lamp	\$15.24	/Lamp	\$3,862	\$8,221	\$1,188	\$13,211	0	0.00%		
SUBTOTAL HPS ALLNIGHT SCHEDULE		47,808											\$102,988	\$150,193	\$47,808	\$305,988	0	0.00%			
100 WATT HPS MN	Lamps	0	\$3.20	/Lamp	\$0.07280	/W/hlamp	20	\$1.46	/Lamp	\$1.00	/Lamp	\$5.66	/Lamp	\$0	\$0	\$0	\$0	0	NDIV/0%		
150 WATT HPS MN	Lamps	420	\$3.20	/Lamp	\$0.07280	/W/hlamp	29	\$2.11	/Lamp	\$1.00	/Lamp	\$6.31	/Lamp	\$1,344	\$886	\$420	\$2,650	0	0.00%		
250 WATT HPS MN	Lamps	12	\$3.20	/Lamp	\$0.07280	/W/hlamp	43	\$3.49	/Lamp	\$1.00	/Lamp	\$7.69	/Lamp	\$38	\$42	\$12	\$52	0	0.00%		
SUBTOTAL HPS MIDNIGHT SCHEDULE		432											\$1,382	\$928	\$432	\$2,742	0	0.00%			
175 WATT MV ANEN	Lamps	4,056	\$3.20	/Lamp	\$0.07280	/W/hlamp	67	\$4.88	/Lamp	\$1.00	/Lamp	\$9.08	/Lamp	\$12,979	\$19,793	\$4,056	\$36,828	0	0.00%		
250 WATT MV ANEN	Lamps	456	\$3.20	/Lamp	\$0.07280	/W/hlamp	95	\$6.92	/Lamp	\$1.00	/Lamp	\$11.12	/Lamp	\$1,459	\$3,156	\$456	\$5,071	0	0.00%		
SUBTOTAL MV ALLNIGHT SCHEDULE		4,512											\$14,438	\$22,949	\$4,512	\$41,899	0	0.00%			
70 WATT MH ANEN	Lamps	0	\$3.20	/Lamp	\$0.07280	/W/hlamp	26	\$1.89	/Lamp	\$1.00	/Lamp	\$6.09	/Lamp	\$0	\$0	\$0	\$0	0	NDIV/0%		
100 WATT MH ANEN	Lamps	0	\$3.20	/Lamp	\$0.07280	/W/hlamp	38	\$2.77	/Lamp	\$1.00	/Lamp	\$6.97	/Lamp	\$0	\$0	\$0	\$0	0	NDIV/0%		
150 WATT MH ANEN	Lamps	0	\$3.20	/Lamp	\$0.07280	/W/hlamp	58	\$4.22	/Lamp	\$1.00	/Lamp	\$8.42	/Lamp	\$0	\$0	\$0	\$0	0	NDIV/0%		
175 WATT MH ANEN	Lamps	1,068	\$3.20	/Lamp	\$0.07280	/W/hlamp	67	\$4.88	/Lamp	\$1.00	/Lamp	\$9.08	/Lamp	\$3,418	\$5,212	\$1,068	\$9,698	0	0.00%		
250 WATT MH ANEN	Lamps	108	\$3.20	/Lamp	\$0.07280	/W/hlamp	95	\$6.92	/Lamp	\$1.00	/Lamp	\$11.12	/Lamp	\$3,862	\$8,221	\$1,080	\$13,201	0	0.00%		
SUBTOTAL MH ALLNIGHT SCHEDULE		1,176											\$3,764	\$5,959	\$1,176	\$10,899	0	0.00%			
70 WATT MH MN	Lamps	0	\$3.20	/Lamp	\$0.07280	/W/hlamp	14	\$1.02	/Lamp	\$1.00	/Lamp	\$5.22	/Lamp	\$0	\$0	\$0	\$0	0	NDIV/0%		
100 WATT MH MN	Lamps	0	\$3.20	/Lamp	\$0.07280	/W/hlamp	20	\$1.46	/Lamp	\$1.00	/Lamp	\$5.66	/Lamp	\$0	\$0	\$0	\$0	0	NDIV/0%		
150 WATT MH MN	Lamps	0	\$3.20	/Lamp	\$0.07280	/W/hlamp	29	\$2.11	/Lamp	\$1.00	/Lamp	\$6.31	/Lamp	\$0	\$0	\$0	\$0	0	NDIV/0%		
175 WATT MH MN	Lamps	0	\$3.20	/Lamp	\$0.07280	/W/hlamp	33	\$2.40	/Lamp	\$1.00	/Lamp	\$6.60	/Lamp	\$0	\$0	\$0	\$0	0	NDIV/0%		
250 WATT MH MN	Lamps	0	\$3.20	/Lamp	\$0.07280	/W/hlamp	43	\$3.49	/Lamp	\$1.00	/Lamp	\$7.69	/Lamp	\$0	\$0	\$0	\$0	0	NDIV/0%		
SUBTOTAL MH MIDNIGHT SCHEDULE		0											\$0	\$0	\$0	\$0	0	NDIV/0%			
30 WATT LED ANEN	Lamps	0	\$3.20	/Lamp	\$0.07280	/W/hlamp	10	\$0.73	/Lamp	\$1.00	/Lamp	\$4.93	/Lamp	\$0	\$0	\$0	\$0	0	NDIV/0%		
34 WATT LED ANEN	Lamps	0	\$3.20	/Lamp	\$0.07280	/W/hlamp	11	\$0.80	/Lamp	\$1.00	/Lamp	\$5.00	/Lamp	\$0	\$0	\$0	\$0	0	NDIV/0%		
39 WATT LED ANEN	Lamps	192	\$3.20	/Lamp	\$0.07280	/W/hlamp	13	\$0.95	/Lamp	\$1.00	/Lamp	\$5.15	/Lamp	\$114	\$18	\$192	\$186	0	0.00%		
42 WATT LED ANEN	Lamps	168	\$3.20	/Lamp	\$0.07280	/W/hlamp	14	\$1.02	/Lamp	\$1.00	/Lamp	\$5.22	/Lamp	\$938	\$171	\$168	\$887	0	0.00%		
43 WATT LED ANEN	Lamps	312	\$3.20	/Lamp	\$0.07280	/W/hlamp	18	\$1.31	/Lamp	\$1.00	/Lamp	\$5.51	/Lamp	\$968	\$362	\$312	\$1,642	0	0.00%		
50 WATT LED ANEN	Lamps	132	\$3.20	/Lamp	\$0.07280	/W/hlamp	18	\$1.31	/Lamp	\$1.00	/Lamp	\$5.51	/Lamp	\$422	\$173	\$132	\$727	0	0.00%		
56 WATT LED ANEN	Lamps	12	\$3.20	/Lamp	\$0.07280	/W/hlamp	21	\$1.53	/Lamp	\$1.00	/Lamp	\$5.73	/Lamp	\$38	\$18	\$12	\$68	0	0.00%		
64 WATT LED ANEN	Lamps	72	\$3.20	/Lamp	\$0.07280	/W/hlamp	21	\$1.53	/Lamp	\$1.00	/Lamp	\$5.73	/Lamp	\$230	\$110	\$72	\$412	0	0.00%		
68 WATT LED ANEN	Lamps	144	\$3.20	/Lamp	\$0.07280	/W/hlamp	22	\$1.60	/Lamp	\$1.00	/Lamp	\$5.84	/Lamp	\$268	\$126	\$144	\$458	0	0.00%		
72 WATT LED ANEN	Lamps	444	\$3.20	/Lamp	\$0.07280	/W/hlamp	23	\$1.67	/Lamp	\$1.00	/Lamp	\$5.97	/Lamp	\$1,421	\$471	\$444	\$2,606	0	0.00%		
71.2 WATT LED ANEN	Lamps	144	\$3.20	/Lamp	\$0.07280	/W/hlamp	24	\$1.75	/Lamp	\$1.00	/Lamp	\$5.95	/Lamp	\$481	\$232	\$144	\$887	0	0.00%		
78 W																					

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TYPE OF SERVICE	BILLING UNITS	NUMBER OF BILLING UNITS (LAMPS)	PRESENT RATES	PRESENT REVENUES	2021 PROPOSED RATES	2021 PROPOSED REVENUES	PROPOSED REVENUE INCREASE	
							AMOUNT	PERCENT
<u>OUTDOOR OVERHEAD LIGHTING SERVICE - PRIVATE UNMETERED OL-1</u>								
<u>DUSK-TO-DAWN YARD LIGHTING</u>								
70 WATT HPS LAMPS	Lamps	1,608	\$12.61 per lamp	\$20,277	\$12.61 per lamp	\$20,277		
100 WATT HPS LAMPS	Lamps	2,100	\$13.67 per lamp	\$28,707	\$13.67 per lamp	\$28,707		
150 WATT HPS LAMPS	Lamps	8,316	\$15.50 per lamp	\$128,898	\$15.50 per lamp	\$128,898		
SUBTOTAL HPS LAMPS		12,024		\$177,882		\$177,882		
175 WATT MV LAMPS (CLOSED)	Lamps	396	\$15.20 per lamp	\$6,019	\$15.20 per lamp	\$6,019		
250 WATT MV LAMPS (CLOSED)	Lamps	24	\$17.12 per lamp	\$411	\$17.12 per lamp	\$411		
400 WATT MV LAMPS (CLOSED)	Lamps	108	\$21.25 per lamp	\$2,295	\$21.25 per lamp	\$2,295		
SUBTOTAL MV LAMPS		528		\$8,725		\$8,725		
TOTAL DUSK-TO-DAWN LIGHTING		12,552		\$186,607		\$186,607		
<u>OUTDOOR OVERHEAD LIGHTING</u>								
70 WATT HPS LAMPS	Lamps	1,692	\$14.44 per lamp	\$24,432	\$14.44 per lamp	\$24,432		
150 WATT HPS LAMPS	Lamps	4,824	\$17.70 per lamp	\$85,385	\$17.70 per lamp	\$85,385		
250 WATT HPS LAMPS	Lamps	3,264	\$20.67 per lamp	\$67,467	\$20.67 per lamp	\$67,467		
400 WATT HPS LAMPS	Lamps	1,164	\$24.90 per lamp	\$28,984	\$24.90 per lamp	\$28,984		
SUBTOTAL HPS LAMPS		10,944		\$206,268		\$206,268		
70 WATT MH LAMPS	Lamps	0	\$15.20 per lamp	\$0	\$15.20 per lamp	\$0		
150 WATT MH LAMPS	Lamps	0	\$17.60 per lamp	\$0	\$17.60 per lamp	\$0		
250 WATT MH LAMPS	Lamps	468	\$20.39 per lamp	\$9,543	\$20.39 per lamp	\$9,543		
400 WATT MH LAMPS	Lamps	660	\$24.32 per lamp	\$16,051	\$24.32 per lamp	\$16,051		
SUBTOTAL MH LAMPS		1,128		\$25,594		\$25,594		
70 WATT EQUIVALENT LED LAMPS	Lamps	252	\$15.50 per lamp	\$3,906	\$15.50 per lamp	\$3,906		
150 WATT EQUIVALENT LED LAMPS	Lamps	396	\$16.08 per lamp	\$6,368	\$16.08 per lamp	\$6,368		
250 WATT EQUIVALENT LED LAMPS	Lamps	660	\$18.56 per lamp	\$12,250	\$18.56 per lamp	\$12,250		
400 WATT EQUIVALENT LED LAMPS	Lamps	372	\$23.17 per lamp	\$8,619	\$23.17 per lamp	\$8,619		
SUBTOTAL LED LAMPS		1,680		\$31,143		\$31,143		
TOTAL OUTDOOR OVERHEAD LIGHTING		13,752		\$263,005		\$263,005		
Act 141 Fixed Charge	Fixed			\$10		\$10		
Act 141 Credit	KWH	104,073	(\$0.00229) per kWh	(\$238)	(\$0.00229) per kWh	(\$238)		
WOOD POLES	Poles	11,076	\$8.85 per pole	\$98,023	\$8.85 per pole	\$98,023		
NONWOOD POLES	Poles	2,556	\$14.25 per pole	\$36,423	\$14.25 per pole	\$36,423		
TOTAL POLES		13,632		\$134,446		\$134,446		
TOTAL OL-1		26,304		\$583,830		\$583,830	\$0	0.00%

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Schedule 19

Battery Interconnection

Service Rules

Summary Points:

- One service rule clarification pertaining to the application process for interconnecting batteries.

Overview:

Clarifying language will be added to the Company's service rules under Electric Service Rules and Regulations: Customer-Owned Generating Equipment (sheet E-67). This language will clarify that customer-owned batteries designed for parallel operation will be treated as distributed generation facilities for all purposes relating to MGE service rules and §PSC 119.

MGE feels it is reasonable to review and modify this language should universally recognized standards be developed for batteries designed for parallel operation while simultaneously restricting any generated energy from being "pushed" back onto the grid and §PSC 119 is amended to allow such exceptions.

The following will be added to sheet E-67:

All customer-owned batteries that are capable of, or intended to be capable of, "parallel operation" as defined in §PSC 119.02 (30) will be subject to any and all service rules and regulations and §PSC 119 rules that pertain to distributed generation facilities.

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Schedule 20

Other Lighting and Miscellaneous

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TYPE OF SERVICE	BILLING UNITS	NUMBER OF BILLING UNITS	PRESENT RATES	PRESENT REVENUES	2021 PROPOSED RATES	2021 PROPOSED REVENUES	PROPOSED REVENUE INCREASE	
							AMOUNT	PERCENT
<u>GENERAL FLAT RATES Gf-1</u>								
LEVEL II CATV Amplifiers	Each	0	\$76.50 each per bill	\$0	\$76.50 each per bill	\$0		
LEVEL II CATV Amplifiers Total		0		\$0		\$0		
LEVEL III Unmetered Service								
Customer Charge	Bills	654	\$0.65420 per bill per day	\$13,014	\$0.65420 per bill per day	\$13,014		
	Days	365	\$19.90		\$19.90			
Distribution Service	kWh	1,566,765	\$0.0300 per kWh	\$47,003	\$0.0300 per kWh	\$47,003		
Electricity Service	kWh	1,566,765	\$0.09082 per kWh	\$142,294	\$0.09082 per kWh	\$142,294		
Act 141 Credit	Each	4,380	(\$0.00229) per kWh	(\$10)	(\$0.00229) per kWh	(\$10)		
LEVEL III Unmetered Service TOTAL				\$202,301		\$202,301		
TOTAL Gf-1 REVENUES				\$202,301		\$202,301	\$0	0.00%
				\$202,301				

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							AMOUNT	PERCENT
<u>SECONDARY SERVICE FOR MUNICIPAL DEFENSE SIRENS Mg-2</u>								
MOTOR-DRIVEN SIRENS (2 Hp)	siren	57	\$4.05 each	\$231	\$4.05 each	\$231	\$0	0.00%
ELECTRONIC SIRENS	siren	144	\$5.86 each	\$844	\$5.86 each	\$844	\$0	0.00%
TOTAL Mg-2 REVENUES				\$1,075 \$1,075		\$1,075	\$0	0.00%

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TYPE OF SERVICE	BILLING UNITS	NUMBER OF BILLING UNITS	PRESENT RATES	PRESENT REVENUES	2021 PROPOSED RATES	2021 PROPOSED REVENUES	PROPOSED REVENUE INCREASE AMOUNT	PERCENT
<u>ATHLETIC FIELD LIGHTING MLS</u>								
CUSTOMER CHARGE	Bills Days	302 365	\$0.78669 per day per bill \$23.93	\$7,226	\$0.78669 per day per bill \$23.93	\$7,226		
DISTRIBUTION CHARGE	kWh	468,034	\$0.0300 per kWh	\$14,041	\$0.0300 per kWh	\$14,041		
ELECTRICITY CHARGE	kWh	468,034	\$0.09656 per kWh	\$45,193	\$0.09656 per kWh	\$45,193		
Act 141 Fixed Charge	Fixed			\$5		\$5		
Act 141 Credit	kWh	183,040	(\$0.00229) per kWh	(\$419)	(\$0.00229)	(\$419)		
TOTAL MLS		468,034		\$66,046		\$66,046	\$0	0.00%

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Schedule 21

Electric Vehicle Fleet Pilot 1

Electric Vehicle Fleet Pilot 1

EVF

Tariff Changes

New Program

Summary Points:

- This service is for new customers on Cg-2 or 4 that have a dedicated meter for electric consumption for charging infrastructure for fuel for customer owned or leased electric vehicles.
- The service applies a discount to the customers demand charge that starts at 80% and reduces each year as the customer gains experience and charging infrastructure use.

Overview:

This is a new pilot for customers who own or lease electric vehicles. If they have charging infrastructure that is on a separate meter, that meter can receive discounts of 80% starting in the first year and decreasing over time until there is no more discount to the demand charges they receive on either Cg-4 or Cg-2 in year. This gives the customer the opportunity to bring new load on and learn about the charging patterns with out having large bill impacts in the first years of electric service.

AVAILABILITY

Service under this voluntary schedule is available to customers on Rate Schedules Cg-4 and Cg-2 who have a dedicated meter for the charging infrastructure utilized by the customer to exclusively fuel its customer-owned and/or leased electric vehicles. Assets not dedicated to the process of charging vehicles shall not be taking service from said dedicated meter.

RATE

All the provisions of the otherwise applicable rate schedule(s) will apply with the exception that a customer served on this rider will have a reduction to both the maximum monthly on-peak 15-minute demand and the customer maximum 15-minute demand charges for a period of five years based on when service commences at the meter.

Customers taking service under this schedule will have a reduction in demand charges on the following schedule:

1. Year 1 reduction: 80%
2. Year 2 reduction: 60%
3. Year 3 reduction: 40%
4. Year 4 reduction: 20%
5. Year 5 reduction: 0%

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.

CONDITIONS OF DELIVERY

1. A customer receiving service under this rider must contact the Company to review charging configuration to ensure service is dedicated exclusively to charging infrastructure.
2. The availability of service under this rate may be limited at the discretion of the Company. Service under this rate may be refused if the Company believes the load is serving load not dedicated to the charging electric vehicles.
3. The customer will, at customer's expense, install all apparatus and materials necessary for the proper utilization of power furnished by the Company.
4. The customer will pay, in advance of construction, all costs estimated by the Company for facilities to serve the charging load.
5. The Company will not be liable for any damages sustained by the customer because of interruptions, deficiencies, or imperfections of electric service provided under this rate.
6. Service under this rate will be furnished only in accordance with the Electric Service Rules and Regulations of the Company.
7. Energy furnished under this rate will not be resold.
8. Service under this schedule may not be combined with service under Is-3, Is-4, the Low Load Factor Provision, or combined metering.

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Schedule 22

Addition of Energy Reduction Measures and Baseline Levels
Language to the RNL-1 Tariff

New Load Market Pricing Rider (Experimental)

AVAILABILITY

The New Load Market Pricing Rider (Rider) is available in all territory served by the Company.

The Rider participation limit is a program maximum of 75 MW total load (baseline plus forecasted new load). Applications will be considered on a first-come, first-served basis.

This Rider is available to customers served under Rate Schedule Cg-2, Cg-6, or Cp-1. A customer under this Rider shall maintain a minimum of 400 kW of load above Demand Baseline Levels for eight out of the 12 months in each of the contract service years. A customer's expected load must meet this criterion to be eligible for service under this Rider. Failure to meet this criterion will result in the customer being removed from this rate.

This Rider is not available to customers or potential customers transferring load from a different electricity provider in Wisconsin to the Company.

Availability of this Rider is subject to availability of adequate transmission and generation capacity to serve the load.

This Rider is an experimental pilot program. The terms and conditions of this Rider may be modified outside of a rate proceeding, subject to approval by the Public Service Commission of Wisconsin (PSCW).

RATE

Each customer will have unique Baseline Levels for energy and demand usage as outlined in the Baseline Determination section of this Rider. A customer will be charged according to the applicable standard tariff distribution and electricity service rates for their usage and demands up to and including their Baseline Levels. The customer will also pay the Grid Connection and Customer Service Charge of the applicable standard tariff that they qualify for service on. Incremental usage and demands above the Baseline Levels will be charged at market-based energy and incremental demand rates specified in this Rider.

1. **Administrative Charge per Day:** \$6.00
2. **Baseline Level Charges.** The applicable Schedule Cg-2, Cg-6, or Cp-1 rates, definitions, rules and riders apply to all energy and demand consumption that does not exceed the Baseline Levels that occur throughout the billing period.
3. **Above Baseline Level Charges.** The following charges shall apply to all energy and demand consumption in excess of the Baseline Levels as they apply throughout the billing period.
 - a. **Incremental Energy Rate (IER).** If the customer's energy consumed exceeds Baseline Levels in any hour of the billing month, the incremental energy above the Baseline Levels will be charged the following IER components:
 - (1) The hourly Midcontinent Independent System Operator, Inc. (MISO) Day-Ahead Locational Marginal Pricing for the MGE.MGE pricing load zone.

(Continued on Sheet E-33.1)



New Load Market Pricing Rider (Experimental)

RATE (continued)

- (2) Transaction costs charged and credited to the Company by MISO. These charges include, but are not limited to:
 - (a) Regulation Cost Distribution Amount (MISO Schedule 3),
 - (b) Spinning Reserves Cost Distribution Amount (MISO Schedule 5),
 - (c) Supplemental Cost Distribution Amount (MISO Schedule 6),
 - (d) Revenue Sufficiency Guarantee Distribution Amount,
 - (e) Revenue Neutrality Uplift Expense, and
 - (f) Distribution of Losses Credit.
- (3) Energy-based transmission and dispatch operation costs charged to the Company by American Transmission Company (ATC), MISO, or their successors for costs to provide transmission service to the customer. These charges include, but are not limited to:
 - (a) Multi-Value Project (MVP) Expense (MISO Schedule 26A, as well as MVP true-up adjustments),
 - (b) MISO Administrative Expenses (MISO Schedule 17), and
 - (c) Control Area Operator Cost (MISO Schedule 24).
- (4) Margin on Energy at \$0.0005/kWh.
- (5) Distribution Energy Loss rates applicable for respective primary and secondary voltage services will be applied to IER components (1) through (4).
- (6) Gross Receipts Tax applied to IER components (1) through (5) at 3.19%.

The IER will not be less than \$0.007/kWh in any hour. IER components (1) and (2), as well as the associated losses from component (6) will be treated as fuel-related energy costs.

- b. Incremental Demand Rate (IDR). If the customer's coincident demand at the time of ATC system peak exceeds Baseline Levels for the month, the incremental demand above the Baseline Levels will be charged the following IDR components:
 - (1) Resource Adequacy Charge based on the latest Auction Clearing price for the Local Resource Zone in which the Company is located. This charge only applies to firm load. See the Non-firm Load section of this Rider for additional details and requirements.
 - (2) ATC Network Transmission Charge. This charge will be based on the estimated rate provided by ATC (MISO Schedule 9).

(Continued on Sheet E-33.2)



New Load Market Pricing Rider (Experimental)

RATE (continued)

- (3) Demand-based transmission costs charged to the Company from ATC, MISO, or their successors for costs to provide transmission service. The Company will use the base rate case cost estimates to determine a per unit rate including recovery of escrow accounting cost adjustments. These charges include, but are not limited to the following:
 - (a) Scheduling/Dispatch (MISO Schedule 1),
 - (b) Voltage/Reactive Expense and Revenue (MISO Schedule 2),
 - (c) Independent System Operator Cost Recovery (MISO Schedule 10),
 - (d) FERC Administrative (MISO Schedule 10-FERC),
 - (e) Wholesale Distribution Service (MISO Schedule 11),
 - (f) Network Upgrade Expense (MISO Schedule 26),
 - (g) Blackstart Service (MISO Schedule 33),
 - (h) System Support Resources (MISO Schedule 43),
 - (i) PJM Charges, and
 - (j) Direct Network Upgrade Charges.
- (4) Distribution Loss rates applicable for respective primary and secondary voltage services will be applied to IDR components (1) through (3).
- (5) Gross Receipts Tax applied to IDR components (1) through (4) at 3.19%.
- c. Distribution Service Customer Demand: A Customer Maximum 15-minute Demand billing option will be selected by the customer for the contract period for demand above Baseline Levels as follows:
 - (1) Option 1: Distribution Service Demand above Baseline Levels, in addition to Distribution Service Demand at or below Baseline Levels, will be subject to the customer demand charges applied in Baseline Level Charges. A customer that selects Option 1 will receive a construction allowance per the Company's Extension Rules schedules.
 - (2) Option 2: Distribution Service Demand above Baseline Levels will not be subject to the customer demand charges applied in Baseline Level Charges. A customer that selects Option 2 will not receive a construction allowance per the Company's Extension Rules schedules and will be responsible to pay for the entire cost of required distribution upgrades.
- d. Any other credits or charges that may be authorized or mandated by the PSCW from time to time that would apply to incremental usage, including applicable Act 141 obligations.

(Continued on Sheet E-33.3)

New Load Market Pricing Rider (Experimental)

RATE (continued)

4. Determination of Baseline Levels.

A customer's Baseline Levels shall be based on a Baseline Period. The customer's Baseline Period represents a recent, historical 12-month time period. Historical usage patterns and demand levels derived from the Baseline Period make up Energy and Demand Baseline Levels and are used for billing the corresponding months of the Contract Period. Energy and Demand Baseline Levels will be contracted prior to beginning service under this Rider and will be applicable for the duration of the Contract Period. The following Baseline Levels will be established as a part of contracted service under this Rider:

- 15-minute energy use for every interval of the Baseline Period. This data will be used to determine the Baseline and above-Baseline Demand Levels for distinct intervals during each billing period for billing purposes.
- The 15-minute energy use will also be used to determine the hourly energy usage for every hour of the Baseline Period. This data will be used to determine the Baseline and above-Baseline Hourly Use Levels for the distinct hours during each billing period for billing purposes.

Energy and Demand Baseline Level for Existing Customers with Forecasted New Load

The Baseline Energy and Demand Levels will be 100% of the energy and demand levels in the Baseline Period for contracts with terms from one to four years. Regarding historical use, adjustments to the strict actual historical consumption patterns may be made by the Company to eliminate data anomalies in the Baseline Period that are not expected to reoccur, or to accommodate unique production patterns as demonstrated in historical data from the last 24 months (e.g., if production is commonly reduced during a specific day of the week or for infrequent maintenance shutdown).

Energy and Demand Baseline Levels for New Customers

Energy and Demand Baseline Levels for new customer accounts with less than 12 months of usage history will be based on a realistic forecast of new energy and demand levels by increment for the first contract year, supplied by the new customer, of usage and demand for the new facility. The new customer must demonstrate how the new facility differs from existing or prior facilities served by the Company such that consumption patterns or levels at the new facility are dissimilar to that of existing or past facilities. Corporate name changes, change in ownership of a facility or a corporation, the formation of subsidiaries, or similar actions will not qualify a customer as a new customer for purposes of Baseline Levels determination.

The customer forecast must be approved by the Company and may be revised at the Company's discretion after the first year of service. The approved forecast of energy and demand levels will be multiplied by the appropriate percent value in the baseline Percent Table in this rider to determine the Baseline Level values that will be used for billing under this rider.

(Continued on Sheet E-33.4)

New Load Market Pricing Rider (Experimental)**RATE (continued)****Baseline Percent Table for New Customers**

Year	1	2	3	4	5
5 Year Contract Base %	40	50	60	70	75
4 Year Contract Base %	50	60	70	75	--
3 Year Contract Base %	65	70	75	--	--
2 Year Contract Base %	70	75	--	--	--

Energy Reduction Measures and Baseline Levels

For existing customers and new customers in the second or subsequent years of service under this schedule, the Baseline may be adjusted to reflect a systematic and permanent change in Customer production levels as a result of the implementation of energy efficiency, conservation, and process improvement measures, or through the installation of new equipment as these measures relate to the Baseline. The Customer must request a review of their historical Baseline period and provide the Company with supporting documentation, which in the judgement of the Company, after its review and verification indicates that the reduction is permanent and due to the aforementioned measures. This adjustment will not take effect until the beginning of the billing period following the execution of an amended contract. Baseline adjustments upon Customer request and pursuant to this condition will not occur more than once in a 12-month period.

5. Contract Requirements.

- a. **Existing customers with added load.** An existing customer that is adding load under this rider, shall enter into a contract for a term of one to four years of service under this rider. A fifth year of service may be added to the contract with baseline levels set at the higher of the originally set level or 80% of the year-4 maximum customer demand. An existing customer that adds load under this rider may discontinue this service on each anniversary date of its contract with 30 days' written notice to MGE.
- b. **New customers.** A new customer subscribing to this Rider shall enter into a contract for a term of one, two, three, four or five years. If a customer wishes to terminate service prior to the contract term end, the customer will forfeit the Guaranteed Load Provision. A new customer that subscribes to this rider may discontinue service under this rider on each anniversary date of its contract with 30 days' written notice to MGE. A customer that terminates service under this Rider will not be allowed back on the Rider for one year from the time that prior service ended under this schedule. Each contract will have Baseline Levels that reflect recent historical consumption at the time that each contract term begins.

6. Guaranteed Load Provision.

The Company may require that a new customer furnish the Company a Load Financial Security Instrument (LFSI) satisfactory to the Company in its sole discretion prior to the Customer taking service under this rider. The LFSI may take the form of a surety bond, letter of credit, or similar financial instrument payable to MGE, and will be in an amount agreeable to the Company.

The full amount of the LFSI will be collectible by MGE if, at any time from the date the customer first subscribes to this Rider until the second anniversary of the customer's discontinuation of service under this Rider, the customer's total annual demand load falls below the required minimum demand to qualify for service under this rider. The amount recovered will be no less than the difference in the amount that would have been paid in the prior two years had the service been billed at the baseline percent rate level of the next shorter-term contract and what was actually billed the customer during that time.

(Continued on E-33.5)



New Load Market Pricing Rider (Experimental)

RATE (continued)

7. Non-firm Load Requirements.

Customers subscribing to interruptible rider schedules Is-3, Is-4, or Cp-1 for Baseline Levels usage are eligible for the non-firm options of this Rider. Customers who elect non-firm service will not pay the Resource Adequacy Charge underlying the IDR rate component of Above Baseline Charges. Customers subscribing to the non-firm load option under this Rider will be subject to the curtailment or interruption terms, provisions, and penalties outlined in the underlying Baseline interruptible rider. Baseline Levels and Rider pricing, terms, and conditions do not apply to any energy consumed during the curtailment or interruption event. Once a curtailment or interruption event is over, pricing, terms, and conditions of delivery revert to those of this Rider.

8. Billing Cycle Accommodations.

Customers taking service under this Rider will be billed on a calendar month basis. The Company reserves the right to bill IDR and IER charges on a one-month lag to allow for final determination of the coincident peak hour-related and other transmission company or independent system operator billing factors to be determined for the calendar month. Participants will start on the Rider at the beginning of the billing period after a contract is signed and price communication processes are functioning.

(Next Sheet is E-34)

**Madison Gas and Electric Company
Docket 3270-UR-123**

**Attachement D
Schedule Title Page**

**Madison Gas and Electric Company
Docket 3270-UR-123
ATTACHMENT D - GAS SERVICE, RATES AND REVENUE
Attachment D Index**

Schedule #:	Schedule Name:	Pages:	Documents
1	Seasonal Use Distribution Service	1 2-3	Program Description Tariff Language
2	Revenue Summary and Rates	1 2-9	Revenue Summary Rate Schedules
3	Base Cost of Gas Rate Calculation	1	Test Year 2021 Calculation

Seasonal Use Distribution Service

SUDS-1

Existing Program

Tariff Changes

Clarifications: Yes
Program Changes: No

Rate Design Changes

Rate Design: Yes

Summary Points:

- New Rate Design
- Typo Correction

Overview:

The Company's SUDS-1 seasonal-use tariff was authorized in the Settlement Agreement in docket 3270-UR-122 as a replacement to the now canceled seasonal-use SD-1 and SD-2 tariffs. The tariff was primarily designed for agricultural grain drying operations and offers year-round firm distribution service supplied with interruptible gas service (IS-1). The SUDS-1 tariff features incentive based pricing during the months of April – December with an incremental per therm adder for any on-peak consumption during the winter heating season months of January – March. The incremental adder is intended to discourage usage when system demand for space-heating is at its peak.

Under its current rate structure, SUDS-1 offers a three-tier declining block rate structure. MGE is proposing to modify the existing three-tier declining block rate approach to include only a two-tier rate structure in this proceeding. The current three-tier rate structure offers a reduced per therm rate for billing cycle consumption between 0 – 2,000 therms, 2,000 – 20,000 therms and 20,000 plus therms. The proposed two-tier approach includes two reduced per therm pricing for billing cycle consumption of 0 – 5,000 therms and 5,000 plus therms. The modified two-tier rate structure has been designed to mitigate adverse bill impacts to existing SUDS-1 customers. Moreover, the current incremental \$0.50 per therm adder for on-peak consumption has been reduced to \$0.10 per therm with the expectation that the added \$0.10 per therm cost will continue to provide a price signal that encourages usage during the on-peak months.

In addition to the revisions to the SUDS-1 declining block rate structure, the Company is proposing to revise some of the existing tariff language for clarification purposes along with other housekeeping matters like typos.



Seasonal Use Distribution Service: SUDS-1

AVAILABILITY

For commercial and industrial customers ~~with annual consumption greater than 2,000 therms~~ who anticipate a vast majority of their natural gas consumption will take place during the off-peak period of April 1 through December 31. Examples of such business ventures include but should not be limited to agricultural canning and grain drying operations, gas used in the manufacturing process of asphalt for road paving and/or repair. While SUDS-1 service is available year-round, incentive pricing is in place to discourage consumption during the on-peak period of January 1 through March 31.

This rate schedule applies to gas distributed to one customer at one location through one meter. For those customers where, at the Company's sole discretion, two or more meters are required for service, all such meters will be combined and the system connection and customer service charge will be the same as though one meter was installed.

~~The Company may, at its sole discretion, transfer customers who fall short of the minimum consumption requirement to the appropriate commercial and industrial class.~~

SUDS-1 is an optional rate schedule which requires a written contract with the Company. Customers who choose to be served under this rate schedule must provide the Company with their request and, if approved, shall remain on this schedule for a minimum of one year.

APPLICABILITY AND CHARACTER OF SERVICE

The Company will provide distribution service for the delivery of gas supply through the Company's facilities to eligible customers.

Distribution service by the Company under this rate schedule will be on a firm basis.

RATE

System connection and customer service charge per day ⁽¹⁾	\$1.50
Distribution rates per cycle bill:	
Distribution service per therm (first 5,000 therms)	\$0.1544
 Distribution service per therm (next 18,000 therms)	\$0.1140
Distribution service per therm (all therms > 5,000 therms)	\$0.1394

Distribution service during the period of January 1 through March 31 will pay the same declining block rates illustrated above plus an incremental \$0.10 per therm.

⁽¹⁾ The system connection and customer service charge will be applied year-round regardless of consumption.

METERING

Service furnished hereunder will be separately metered. Meter reading will be done on a monthly basis according to the customer's billing cycle. Each SUDS-1 meter must be equipped with a data-logging Encoder Receiver Transmitter (ERT) which allows for accurate billing of both off-peak and on-peak period consumption.

PAYMENT

Payment is due no 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 gas service rules under Late Payment Charge.

GAS SERVICE OPTIONS

Customers taking service under this rate schedule will receive their gas supply service under the Company's Interruptible Gas Sales Service (Rate Schedule IS-1) unless the customer contracts for service under the Company's Daily Balancing Service (Rate Schedule DBS-1).



SPECIAL TERMS AND PROVISIONS

1. Customers who have their meters turned off and back on within a 12-month period will pay the system connection and customer service charge applicable to the customer for the period while service was not being used.
2. The rates and character of service under this rate schedule are subject to review and change by the Public Service Commission of Wisconsin.
3. This service is subject to the conditions of delivery set forth herein and to the Company's rules and regulations for gas service.
4. If special equipment, such as motor-operated valves, metering bypass, flow restrictors, and remote control is required to monitor gas service, such special equipment will be installed by the Company at the customer's expense. This requirement will not apply to ERT equipment necessary for service under this schedule or equipment required for IS-1, IS-2, or DBS-1 gas supply if the customer elects this supply option. The ownership, installation, operation, and maintenance of all such equipment will be under the exclusive control of the Company.
5. For any natural gas supply which is not furnished by Company, customer warrants for itself, its successors and assigns, that it has or will have at the time of the delivery of the gas to Company for distribution hereunder, good title to such gas and the right to cause the gas to be delivered to Company for distribution. Customer warrants for itself, its successors and assigns, that the gas it furnishes to Company for distribution hereunder will be free and clear of all liens, encumbrances, or claims, and that it will indemnify and save Company harmless from all suits, actions, damages, costs, losses, and expenses, including reasonable attorney's fees, arising out of or from any adverse claims of any and all persons to the gas, or to any claims of royalties, taxes, license fees, or charges thereon which are directly applicable to the delivery of the gas, and further that customer will indemnify and save Company harmless from all taxes or assessments, and any costs associated therewith, including reasonable attorney's fees, which may be directly levied and assessed upon such delivery and which are by law payable and the obligation of the party making such delivery.
6. Service under this rate schedule will commence following approval of the customer's application for service by the Company.

MADISON GAS AND ELECTRIC COMPANY
DOCKET 3270-UR-123
NATURAL GAS BILLING STATISTICS AND REVENUES
FOR THE YEAR JANUARY 1 - DECEMBER 31, 2021

Rate Class		Volumes	Therms	[1] Authorized COG Revenues	Present Margin Revenues	TOTAL Revenues	2021 Proposed COG Revenues	2021 Proposed Margin Revenues	2021 Proposed TOTAL Revenues	Proposed Dollar Adjustment	[2] Proposed Percentage Adjustment
RD-1	Residential Distribution - Firm Sales		106,300,022		\$55,370,605			\$59,802,761		\$4,432,156	8.00%
	TOTAL RESIDENTIAL DISTRIBUTION REVENUE		106,300,022	\$40,714,502	\$55,370,050	\$96,084,552	\$40,606,862	\$59,802,761	\$100,409,623	\$4,325,071	4.50%
GSD-1	Firm Sales (FS-1)		55,456,703		\$14,104,758			\$15,230,529		\$1,125,771	7.98%
GSD-1	Interruptible Sales (IS-1)		16,655		\$3,427			\$3,765		\$338	9.86%
GSD-1	Daily Balancing Service (DBS-1)		82,437		\$23,123			\$24,796		\$1,673	7.24%
GSD-1	Interdepartmental with Firm Sales (FS-1)		104,294		\$25,103			\$27,220		\$2,117	8.43%
	Act 141 - Fixed Amount				\$1,513			\$1,513			
	Act 141 - Credit Amount				-\$50,045			-\$50,045			
	TOTAL SMALL COMMERCIAL & INDUSTRIAL DISTRIBUTION REVENUE		55,660,089	\$21,497,828	\$14,107,879	\$35,605,707	\$21,168,400	\$15,237,778	\$36,406,178	\$800,471	2.25%
GSD-2	Firm Sales (FS-1)		30,028,073		\$4,832,505			\$5,216,865		\$384,360	7.95%
GSD-2	Interruptible Sales (IS-1)		563,668		\$85,591			\$92,806		\$7,215	8.43%
GSD-2	Interruptible Sales and Firm Sales Nomination - Firm		172,463		\$22,610			\$24,817		\$2,207	9.76%
GSD-2	Interruptible Sales and Firm Sales Nomination - Interruptible		370,376		\$61,821			\$66,562		\$4,741	7.67%
GSD-2	Daily Balancing Service (DBS-1)		8,355,678		\$1,374,735			\$1,481,687		\$106,952	7.78%
GSD-2	Interdepartmental with Firm Sales (FS-1)		66,157		\$11,388			\$12,235		\$847	7.44%
	Act 141 - Fixed Amount				\$2,065			\$2,065			
	Act 141 - Credit Amount				-\$111,649			-\$111,649			
	TOTAL MEDIUM COMMERCIAL & INDUSTRIAL DISTRIBUTION REVENUE		39,556,415	\$10,410,026	\$6,279,066	\$16,689,092	\$11,739,603	\$6,785,388	\$18,524,990	\$1,835,899	11.00%
GSD-3	Firm Sales (FS-1)		4,473,219		\$559,418			\$593,414		\$33,996	6.08%
GSD-3	Interruptible Sales (IS-1)		1,672,808		\$188,589			\$201,302		\$12,713	6.74%
GSD-3	Interruptible Sales and Firm Sales Nomination - Firm		213,525		\$18,854			\$20,477		\$1,623	8.61%
GSD-3	Interruptible Sales and Firm Sales Nomination - Interruptible		545,078		\$58,352			\$62,494		\$4,142	7.10%
GSD-3	Daily Balancing Service (DBS-1)		28,416,097		\$2,764,698			\$2,980,660		\$215,962	7.81%
	Act 141 - Fixed Amount				\$1,120			\$1,120			
	Act 141 - Credit Amount				-\$239,004			-\$239,004			
	TOTAL LARGE COMMERCIAL & INDUSTRIAL DISTRIBUTION REVENUE		35,320,726	\$2,330,147	\$3,352,027	\$5,682,174	\$2,398,516	\$3,620,463	\$6,018,979	\$336,805	5.93%
GSD-3D	Firm Sales (FS-1)		-		\$0			\$0		\$0	0.00%
GSD-3D	Interruptible Sales (IS-1)		-		\$0			\$0		\$0	0.00%
GSD-3D	Interruptible Sales and Firm Sales Nomination - Firm		-		\$0			\$0		\$0	0.00%
GSD-3D	Interruptible Sales and Firm Sales Nomination - Interruptible		-		\$0			\$0		\$0	0.00%
GSD-3D	Daily Balancing Service (DBS-1)		-		\$0			\$0		\$0	0.00%
	Act 141 - Fixed Amount				\$0			\$0			
	Act 141 - Credit Amount				\$0			\$0			
	TOTAL LARGE COMMERCIAL & INDUSTRIAL DEMAND DISTRIBUTION REVENUE		-	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0.00%
IGD-1	Interruptible Generation with IS-2 Sales		813,595		\$468,785			\$471,958		\$3,173	0.68%
IGD-1	Interruptible Generation with Daily Balancing Service		37,792,641		\$1,391,125			\$1,538,517		\$147,392	10.60%
IGD-1	Interruptible Generation with LS-1 Sales		-		\$0			\$0		\$0	0.00%
	Act 141 Charge				\$9,269			\$9,269			
	TOTAL INTERRUPTIBLE GENERATION DISTRIBUTION REVENUE		38,606,236	\$234,053	\$1,869,179	\$2,103,232	\$220,917	\$2,019,744	\$2,240,661	\$137,429	6.53%
SP-1	Large Annual Use Gas Sales (LS-1)		21,257,397		\$1,726,646			\$1,864,819		\$138,173	8.00%
	Act 141 Charge				\$8,112			\$8,112			
	TOTAL STEAM AND POWER GENERATION GAS DISTIBUTION REVENUE		21,257,397	\$8,394,040	\$1,734,758	\$10,128,798	\$6,276,892	\$1,872,931	\$8,149,823	-\$1,978,975	-19.54%
SUDS-1	Interruptible Sales (IS-1)		82,093		\$466,018			\$503,761		\$37,743	8.10%
SUDS-1	Daily Balancing Service (DBS-1)		29,364		\$86,877			\$93,200		\$6,323	7.28%
	Act 141 - Fixed Amount				\$67			\$67			
	Act 141 - Credit Amount				-\$3,751			-\$3,751			
	TOTAL SEASONAL USE DISTRIBUTION REVENUES		3,841,970	\$784,064	\$549,211	\$1,333,275	\$951,897	\$593,277	\$1,545,174	\$211,899	15.89%
	Company Use		243,437								
TOTAL VOLUMES AND REVENUES			300,786,293	\$84,364,660	\$83,262,170	\$167,626,830	\$83,363,086	\$89,932,342	\$173,295,428	\$5,668,598	3.38%

[1] Authorized Cost of Gas from Commission Final Decision in 3270-UR-122 for Test Year 2020.

[2] The proposed percentage adjustment for individual rate class categories does not include Act 141 fixed or credit amounts. The percentage adjustment also excludes cost of gas revenues.
The total class level revenues does include Act 141 fixed and credit amounts and cost of gas revenues.

**MADISON GAS AND ELECTRIC COMPANY
DOCKET 3270-UR-123
NATURAL GAS BILLING STATISTICS AND REVENUES
FOR THE YEAR JANUARY 1 - DECEMBER 31, 2021**

Type of Service	BILLING UNITS	NUMBER OF BILLING UNITS	PRESENT RATES	PRESENT REVENUES	2021 PROPOSED RATES	2021 PROPOSED REVENUES	Percentage Change
RESIDENTIAL DISTRIBUTION SERVICE RD-1							
CUSTOMER CHARGE	Bills Days	1,788,878 365	\$0.7195 per bill per day \$21.88 per bill per month	\$39,149,222	\$0.7195 per bill per day \$21.88 per bill per month	\$39,149,222	
DISTRIBUTION SERVICE CHARGE	Therms	106,300,022	\$0.1382 per therm	\$14,690,663	\$0.1799 per therm	\$19,123,374	
ADMINISTRATIVE CHARGE	Therms	106,300,022	\$0.0144 per therm	\$1,530,720	\$0.0144 per therm	\$1,530,720	
	Act 141 Fixed Charge Act 141 Credit	Fixed Therms					
		63,091	(\$0.0094) per therm	\$38 (\$593)	(\$0.0094) per therm	\$38 (\$593)	
TOTAL MARGIN		106,300,022		\$55,370,050		\$ 59,802,761	
GAS COST [1]				\$40,714,502		\$40,606,862	
TOTAL REVENUES				\$96,084,552		\$ 100,409,623	4.50%

[1] Gas Cost under Present Revenues reflects the authorized Cost of Gas from the Commission Final Decision in 3270-UR-122 for Test Year 2020.

**MADISON GAS AND ELECTRIC COMPANY
DOCKET 3270-UR-123
NATURAL GAS BILLING STATISTICS AND REVENUES
FOR THE YEAR JANUARY 1 - DECEMBER 31, 2021**

Type of Service	BILLING UNITS	NUMBER OF BILLING UNITS	PRESENT RATES	PRESENT REVENUES	2021 PROPOSED RATES	2021 PROPOSED REVENUES
SMALL COMMERCIAL AND INDUSTRIAL DISTRIBUTION GSD-1						
CUSTOMER CHARGE						
Firm Sales (FS-1)	Bills	190,615	\$0.8000 per bill per day	\$4,638,298	\$0.8000 per bill per day	\$4,638,298
Interruptible Sales (IS-1)	Bills	24	\$0.8000 per bill per day	\$584	\$0.8000 per bill per day	\$584
Daily Balancing Service (DBS-1)	Bills	51	\$0.8000 per bill per day	\$1,241	\$0.8000 per bill per day	\$1,241
Interdepartmental with Firm Sales (FS-1)	Bills	300	\$0.8000 per bill per day	\$7,300	\$0.8000 per bill per day	\$7,300
	Days	365	\$24.33 per bill per month		\$24.33 per bill per month	
DAILY ADMINISTRATIVE FEES						
DBS-1 Administrative Charge	Bills	51	\$4.30 per bill per day	\$6,670	\$4.30 per bill per day	\$6,670
DBS-1 Telemetry Charge	Bills	51	\$1.50 per bill per day	\$2,327	\$1.50 per bill per day	\$2,327
DISTRIBUTION SERVICE CHARGE						
Firm Sales (FS-1)	Therms	55,456,703	\$0.1563 per therm	\$8,667,883	\$0.1766 per therm	\$9,793,654
Interruptible Sales (IS-1)	Therms	16,655	\$0.1563 per therm	\$2,603	\$0.1766 per therm	\$2,941
Daily Balancing Service (DBS-1)	Therms	82,437	\$0.1563 per therm	\$12,885	\$0.1766 per therm	\$14,558
Interdepartmental with Firm Sales (FS-1)	Therms	104,294	\$0.1563 per therm	\$16,301	\$0.1766 per therm	\$18,418
Company Use	Therms	243,437				
ADMINISTRATIVE CHARGE						
Firm Sales (FS-1)	Therms	55,456,703	\$0.0144 per therm	\$798,577	\$0.0144 per therm	\$798,577
Interruptible Sales (IS-1)	Therms	16,655	\$0.0144 per therm	\$240	\$0.0144 per therm	\$240
Daily Balancing Service (DBS-1)	Therms	82,437	\$0.0000 per therm	\$0	\$0.0000 per therm	\$0
Interdepartmental with Firm Sales (FS-1)	Therms	104,294	\$0.0144 per therm	\$1,502	\$0.0144 per therm	\$1,502
Revenues - Firm Sales (FS-1)				\$14,104,758		\$15,230,529
Revenues - Interruptible Sales (IS-1)				\$3,427		\$3,765
Revenues - Daily Balancing Service (DBS-1)				\$23,123		\$24,796
Revenues - Interdepartmental Firm Sales (FS-1)				\$25,103		\$27,220
Act 141 Fixed Charge				\$1,513		\$1,513
Act 141 Credit	Therms	3,549,271	(\$0.0141) per therm	(\$50,045)	(\$0.0141) per therm	(\$50,045)
TOTAL MARGIN		55,660,089		\$14,107,879		\$15,237,778
GAS COST [1]				\$21,497,828		\$21,168,400
TOTAL REVENUES				\$35,605,707		\$36,406,178
						2.25%

[1] Gas Cost under Present Revenues reflects the authorized Cost of Gas from the Commission Final Decision in 3270-UR-122 for Test Year 2020.

**MADISON GAS AND ELECTRIC COMPANY
DOCKET 3270-UR-123
NATURAL GAS BILLING STATISTICS AND REVENUES
FOR THE YEAR JANUARY 1 - DECEMBER 31, 2021**

Type of Service	BILLING UNITS	NUMBER OF BILLING UNITS	PRESENT RATES	PRESENT REVENUES	2021 PROPOSED RATES	2021 PROPOSED REVENUES	
MEDIUM COMMERCIAL AND INDUSTRIAL DISTRIBUTION GSD-2							
CUSTOMER CHARGE							
Firm Sales (FS-1)	Bills	7,918	\$3.7196 per bill per day	\$895,825	\$3.7196 per bill per day	\$895,825	
Interruptible Sales (IS-1)	Bills	84	\$3.7196 per bill per day	\$9,504	\$3.7196 per bill per day	\$9,504	
Interruptible Sales and Firm Sales Nomination - Firm	Bills	-	\$3.7196 per bill per day	\$0	\$3.7196 per bill per day	\$0	
Interruptible Sales and Firm Sales Nomination - Interruptible	Bills	87	\$3.7196 per bill per day	\$9,843	\$3.7196 per bill per day	\$9,843	
Daily Balancing Service (DBS-1)	Bills	1,308	\$3.7196 per bill per day	\$147,984	\$3.7196 per bill per day	\$147,984	
Interdepartmental with Firm Sales (FS-1)	Bills	24	\$3.7196 per bill per day	\$2,715	\$3.7196 per bill per day	\$2,715	
	Days	365	\$113.14 per bill per month		\$113.14 per bill per month		
DAILY ADMINISTRATIVE FEES							
DBS-1 Administrative Charge	Bills	1,308	\$4.30 per bill per day	\$171,076	\$4.30 per bill per day	\$171,076	
DBS-1 Telemetering Charge	Bills	1,308	\$1.50 per bill per day	\$59,678	\$1.50 per bill per day	\$59,678	
Is-1 Interruptible Sales Telemetering Charge	Bills	48	\$1.50 per bill per day	\$2,190	\$1.50 per bill per day	\$2,190	
Is-1 Interruptible Sales and Firm Sales Nomination - Interruptible Telemetering Charge	Bills	75	\$1.50 per bill per day	\$3,422	\$1.50 per bill per day	\$3,422	
DISTRIBUTION SERVICE CHARGE							
Firm Sales (FS-1)	Therms	30,028,073	\$0.1192 per therm	\$3,579,346	\$0.1320 per therm	\$3,963,706	
Interruptible Sales (IS-1)	Therms	563,668	\$0.1192 per therm	\$67,189	\$0.1320 per therm	\$74,404	
Interruptible Sales and Firm Sales Nomination - Firm	Therms	172,463	\$0.1192 per therm	\$20,558	\$0.1320 per therm	\$22,765	
Interruptible Sales and Firm Sales Nomination - Interruptible	Therms	370,376	\$0.1192 per therm	\$44,149	\$0.1320 per therm	\$48,890	
Daily Balancing Service (DBS-1)	Therms	8,355,678	\$0.1192 per therm	\$995,997	\$0.1320 per therm	\$1,102,949	
Interdepartmental with Firm Sales (FS-1)	Therms	66,157	\$0.1192 per therm	\$7,886	\$0.1320 per therm	\$8,733	
ADMINISTRATIVE CHARGE							
Firm Sales (FS-1)	Therms	30,028,073	\$0.0119 per therm	\$357,334	\$0.0119 per therm	\$357,334	
Interruptible Sales (IS-1)	Therms	563,668	\$0.0119 per therm	\$6,708	\$0.0119 per therm	\$6,708	
Interruptible Sales and Firm Sales Nomination - Firm	Therms	172,463	\$0.0119 per therm	\$2,052	\$0.0119 per therm	\$2,052	
Interruptible Sales and Firm Sales Nomination - Interruptible	Therms	370,376	\$0.0119 per therm	\$4,407	\$0.0119 per therm	\$4,407	
Daily Balancing Service (DBS-1)	Therms	8,355,678	\$0.0000 per therm	\$0	\$0.0000 per therm	\$0	
Interdepartmental with Firm Sales (FS-1)	Therms	66,157	\$0.0119 per therm	\$787	\$0.0119 per therm	\$787	
Revenues - Firm Sales (FS-1)				\$4,832,505		\$5,216,865	
Revenues - Interruptible Sales (IS-1)				\$85,591		\$92,806	
Revenues - Interruptibles Sales and Firm Sales Nomination - Firm				\$22,610		\$24,817	
Revenues - Interruptible Sales and Firm Sales Nomination - Interruptible				\$61,821		\$66,562	
Revenues - Daily Balancing Service (DBS-1)				\$1,374,735		\$1,481,687	
Revenues - Interdepartmental Firm Sales (FS-1)				\$11,388		\$12,235	
Act 141 Fixed Charge				\$2,065		\$2,065	
Act 141 Credit	Therms	7,918,362	(\$0.0141) per therm	(\$111,649)	(\$0.0141) per therm	(\$111,649)	
TOTAL MARGIN		39,556,415		\$6,279,066		\$6,785,388	
GAS COST [1]				\$10,410,026		\$11,739,603	
TOTAL REVENUES				\$16,689,092		\$18,524,990	11.00%

[1] Gas Cost under Present Revenues reflects the authorized Cost of Gas from the Commission Final Decision in 3270-UR-122 for Test Year 2020.

**MADISON GAS AND ELECTRIC COMPANY
DOCKET 3270-UR-123
NATURAL GAS BILLING STATISTICS AND REVENUES
FOR THE YEAR JANUARY 1 - DECEMBER 31, 2021**

Type of Service	BILLING UNITS	NUMBER OF BILLING UNITS	PRESENT RATES	PRESENT REVENUES	2021 PROPOSED RATES	2021 PROPOSED REVENUES
LARGE COMMERCIAL AND INDUSTRIAL DISTRIBUTION GSD-3						
CUSTOMER CHARGE						
Firm Sales (FS-1)	Bills	204	\$26.5000 per bill per day	\$164,433	\$26.5000 per bill per day	\$164,433
Interruptible Sales (IS-1)	Bills	48	\$26.5000 per bill per day	\$38,690	\$26.5000 per bill per day	\$38,690
Interruptible Sales and Firm Sales Nomination - Firm	Bills	-	\$26.5000 per bill per day	\$0	\$26.5000 per bill per day	\$0
Interruptible Sales and Firm Sales Nomination - Interruptible	Bills	12	\$26.5000 per bill per day	\$9,673	\$26.5000 per bill per day	\$9,673
Daily Balancing Service (DBS-1)	Bills	532	\$26.5000 per bill per day	\$428,814	\$26.5000 per bill per day	\$428,814
	Days	365	\$806.04 per bill per month			
DAILY ADMINISTRATIVE FEES						
DBS-1 Administrative Charge	Bills	532	\$4.30 per bill per day	\$69,581	\$4.30 per bill per day	\$69,581
DBS-1 Telemetry Charge	Bills	532	\$1.50 per bill per day	\$24,273	\$1.50 per bill per day	\$24,273
Is-1 Interruptible Sales Telemetry Charge	Bills	48	\$1.50 per bill per day	\$2,190	\$1.50 per bill per day	\$2,190
Is-1 Interruptible Sales and Firm Sales Nomination - Interruptible Telemetry Charge	Bills	12	\$1.50 per bill per day	\$548	\$1.50 per bill per day	\$548
DISTRIBUTION SERVICE CHARGE						
Firm Sales (FS-1)	Therms	4,473,219	\$0.0789 per therm	\$352,937	\$0.0865 per therm	\$386,933
Interruptible Sales (IS-1)	Therms	1,672,808	\$0.0789 per therm	\$131,985	\$0.0865 per therm	\$144,698
Interruptible Sales and Firm Sales Nomination - Firm	Therms	213,525	\$0.0789 per therm	\$16,847	\$0.0865 per therm	\$18,470
Interruptible Sales and Firm Sales Nomination - Interruptible	Therms	545,078	\$0.0789 per therm	\$43,007	\$0.0865 per therm	\$47,149
Daily Balancing Service (DBS-1)	Therms	28,416,097	\$0.0789 per therm	\$2,242,030	\$0.0865 per therm	\$2,457,992
ADMINISTRATIVE CHARGE						
Firm Sales (FS-1)	Therms	4,473,219	\$0.0094 per therm	\$42,048	\$0.0094 per therm	\$42,048
Interruptible Sales (IS-1)	Therms	1,672,808	\$0.0094 per therm	\$15,724	\$0.0094 per therm	\$15,724
Interruptible Sales and Firm Sales Nomination - Firm	Therms	213,525	\$0.0094 per therm	\$2,007	\$0.0094 per therm	\$2,007
Interruptible Sales and Firm Sales Nomination - Interruptible	Therms	545,078	\$0.0094 per therm	\$5,124	\$0.0094 per therm	\$5,124
Daily Balancing Service (DBS-1)	Therms	28,416,097	\$0.0000 per therm	\$0	\$0.0000 per therm	\$0
Revenues - Firm Sales (FS-1)				\$559,418		\$593,414
Revenues - Interruptible Sales (IS-1)				\$188,589		\$201,302
Revenues - Interruptible Sales and Firm Sales Nomination - Firm				\$18,854		\$20,477
Revenues - Interruptible Sales and Firm Sales Nomination - Interruptible				\$58,352		\$62,494
Revenues - Daily Balancing Service (DBS-1)				\$2,764,698		\$2,980,660
Act 141 Fixed Charge				\$1,120		\$1,120
Act 141 Credit	Therms	16,950,617	(\$0.0141) per therm	(\$239,004)	(\$0.0141) per therm	(\$239,004)
TOTAL MARGIN		35,320,726		\$3,352,027		\$3,620,463
GAS COST [1]				\$2,330,147		\$2,398,516
TOTAL REVENUES				\$5,682,174		\$6,018,979
						5.93%

[1] Gas Cost under Present Revenues reflects the authorized Cost of Gas from the Commission Final Decision in 3270-UR-122 for Test Year 2020.

MADISON GAS AND ELECTRIC COMPANY
DOCKET 3270-UR-123
NATURAL GAS BILLING STATISTICS AND REVENUES
FOR THE YEAR JANUARY 1 - DECEMBER 31, 2021

Type of Service	BILLING UNITS	NUMBER OF BILLING UNITS	PRESENT RATES	PRESENT REVENUES	2021 PROPOSED RATES	2021 PROPOSED REVENUES
LARGE COMMERCIAL AND INDUSTRIAL DEMAND-BASED DISTRIBUTION GSD-3D						
CUSTOMER CHARGE						
Firm Sales (FS-1)	Bills	-	\$26.5000 per bill per day	\$0	\$26.5000 per bill per day	\$0
Interruptible Sales (IS-1)	Bills	-	\$26.5000 per bill per day	\$0	\$26.5000 per bill per day	\$0
Interruptible Sales and Firm Sales Nomination - Firm	Bills	-	\$26.5000 per bill per day	\$0	\$26.5000 per bill per day	\$0
Interruptible Sales and Firm Sales Nomination - Interruptible	Bills	-	\$26.5000 per bill per day	\$0	\$26.5000 per bill per day	\$0
Daily Balancing Service (DBS-1)	Bills	-	\$26.5000 per bill per day	\$0	\$26.5000 per bill per day	\$0
	Days	-	\$0.00 per bill per month			
DAILY ADMINISTRATIVE FEES						
DBS-1 Administrative Charge	Bills	-	\$4.30 per bill per day	\$0	\$4.30 per bill per day	\$0
DBS-1 Telemetering Charge	Bills	-	\$1.50 per bill per day	\$0	\$1.50 per bill per day	\$0
Is-1 Interruptible Sales Telemetering Charge	Bills	-	\$1.50 per bill per day	\$0	\$1.50 per bill per day	\$0
Is-1 Interruptible Sales and Firm Sales Nomination - Interruptible Telemetering Charge	Bills	-	\$1.50 per bill per day	\$0	\$1.50 per bill per day	\$0
DISTRIBUTION SERVICE CHARGE						
Firm Sales (FS-1)	Therms	-	\$0.0385 per therm	\$0	\$0.0422 per therm	\$0
Interruptible Sales (IS-1)	Therms	-	\$0.0385 per therm	\$0	\$0.0422 per therm	\$0
Interruptible Sales and Firm Sales Nomination - Firm	Therms	-	\$0.0385 per therm	\$0	\$0.0422 per therm	\$0
Interruptible Sales and Firm Sales Nomination - Interruptible	Therms	-	\$0.0385 per therm	\$0	\$0.0422 per therm	\$0
Daily Balancing Service (DBS-1)	Therms	-	\$0.0385 per therm	\$0	\$0.0422 per therm	\$0
DEMAND-BASED BILLING DETERMINANT						
Firm Sales (FS-1)	Therms	-	\$0.0148 per therm	\$0	\$0.0148 per therm	\$0
Interruptible Sales (IS-1)	Therms	-	\$0.0148 per therm	\$0	\$0.0148 per therm	\$0
Interruptible Sales and Firm Sales Nomination - Firm	Therms	-	\$0.0148 per therm	\$0	\$0.0148 per therm	\$0
Interruptible Sales and Firm Sales Nomination - Interruptible	Therms	-	\$0.0148 per therm	\$0	\$0.0148 per therm	\$0
Daily Balancing Service (DBS-1)	Therms	-	\$0.0148 per therm	\$0	\$0.0148 per therm	\$0
ADMINISTRATIVE CHARGE						
Firm Sales (FS-1)	Therms	-	\$0.0094 per therm	\$0	\$0.0094 per therm	\$0
Interruptible Sales (IS-1)	Therms	-	\$0.0094 per therm	\$0	\$0.0094 per therm	\$0
Interruptible Sales and Firm Sales Nomination - Firm	Therms	-	\$0.0094 per therm	\$0	\$0.0094 per therm	\$0
Interruptible Sales and Firm Sales Nomination - Interruptible	Therms	-	\$0.0094 per therm	\$0	\$0.0094 per therm	\$0
Daily Balancing Service (DBS-1)	Therms	-	\$0.0000 per therm	\$0	\$0.0000 per therm	\$0
Revenues - Firm Sales (FS-1)				\$0		\$0
Revenues - Interruptible Sales (IS-1)				\$0		\$0
Revenues - Interruptible Sales and Firm Sales Nomination - Firm				\$0		\$0
Revenues - Interruptible Sales and Firm Sales Nomination - Interruptible				\$0		\$0
Revenues - Daily Balancing Service (DBS-1)				\$0		\$0
Act 141 Fixed Charge				\$0		\$0
Act 141 Credit	Therms	-	(\$0.0141) per therm	\$0	(\$0.0141) per therm	\$0
TOTAL MARGIN		-		\$0		\$0
GAS COST				\$0		\$0
TOTAL REVENUES				\$0		\$0
						0.00%

MADISON GAS AND ELECTRIC COMPANY
DOCKET 3270-UR-123
NATURAL GAS BILLING STATISTICS AND REVENUES
FOR THE YEAR JANUARY 1 - DECEMBER 31, 2021

Type of Service	BILLING UNITS	NUMBER OF BILLING UNITS	PRESENT RATES	PRESENT REVENUES	2021 PROPOSED RATES	2021 PROPOSED REVENUES
INTERRUPTIBLE GENERATION DISTRIBUTION SERVICE IGD-1						
CUSTOMER CHARGE						
Interruptible Generation with IS-2 Sales	Bills	72	\$150.0000 per bill per day	\$328,500	\$150.0000 per bill per day	\$328,500
Interruptible Generation with Daily Balancing Service	Bills	24	\$150.0000 per bill per day	\$109,500	\$150.0000 per bill per day	\$109,500
Interruptible Generation with LS-1 Sales	Bills	-	\$150.0000 per bill per day	\$0	\$150.0000 per bill per day	\$0
	Days	365	\$4,562.50 per bill per month		per bill per month	
DAILY ADMINISTRATIVE FEES						
IS-2 Interruptible Generation Administrative Charge	Bills	72	\$50.00 per bill per day	\$109,500	\$50.00 per bill per day	\$109,500
IS-2 Interruptible Generation Telemetering Charge	Bills	72	\$1.50 per bill per day	\$3,285	\$1.50 per bill per day	\$3,285
DBS-1 Administrative Charge	Bills	24	\$4.30 per bill per day	\$3,139	\$4.30 per bill per day	\$3,139
DBS-1 Telemetering Charge	Bills	24	\$1.50 per bill per day	\$1,095	\$1.50 per bill per day	\$1,095
LS-1 Interruptible Generation Administrative Charge	Bills	-	\$80.00 per bill per day	\$0	\$80.00 per bill per day	\$0
LS-1 Interruptible Generation Telemetering Charge	Bills	-	\$1.50 per bill per day	\$0	\$1.50 per bill per day	\$0
DISTRIBUTION SERVICE CHARGE						
Interruptible Generation with IS-2 Sales	Therms	813,595	\$0.0338 per therm	\$27,500	0.0377 per therm	\$30,673
Interruptible Generation with Daily Balancing Service	Therms	37,792,641	\$0.0338 per therm	\$1,277,391	0.0377 per therm	\$1,424,783
Interruptible Generation with LS-1 Sales	Therms	-	\$0.0338 per therm	\$0	0.0377 per therm	\$0
Revenues - Interruptible Generation with IS-2 Sales				\$468,785		\$471,958
Revenues - Interruptible Generation with Daily Balancing Service				\$1,391,125		\$1,538,517
Revenues - Interruptible Generation with LS-1 Sales				\$0		\$0
Act 141 Fixed Charge				\$9,269		\$9,269
TOTAL MARGIN		38,606,236		\$1,869,179		\$2,019,744
GAS COST [1]				\$234,053		\$220,917
TOTAL REVENUES				\$2,103,232		\$2,240,661
						6.53%

[1] Gas Cost under Present Revenues reflects the authorized Cost of Gas from the Commission Final Decision in 3270-UR-122 for Test Year 2020.

**MADISON GAS AND ELECTRIC COMPANY
DOCKET 3270-UR-123
NATURAL GAS BILLING STATISTICS AND REVENUES
FOR THE YEAR JANUARY 1 - DECEMBER 31, 2021**

Type of Service	BILLING UNITS	NUMBER OF BILLING UNITS	PRESENT RATES	PRESENT REVENUES	2021 PROPOSED RATES	2021 PROPOSED REVENUES	
STEAM AND POWER GENERATION GAS DISTRIBUTION SP-1							
CUSTOMER CHARGE	Bills Days	12 365	\$2,500.00 per bill per day \$76,041.67 per bill per month	\$912,500	\$2,500.00 per bill per day per bill per month	\$912,500	
DAILY ADMINISTRATIVE FEES							
Administrative Charge	Bills	12	\$80.00 per bill per day	\$29,200	\$80.00 per bill per day	\$29,200	
Telemetry Charge	Bills	12	\$1.50 per bill per day	\$548	\$1.50 per bill per day	\$548	
DISTRIBUTION SERVICE CHARGE							
Large Annual Use Gas Sales (LS-1)	Therms	21,257,397	\$0.0369 per therm	\$784,398	\$0.0434 per therm	\$922,571	
Act 141 Fixed Charge				\$8,112		\$8,112	
TOTAL MARGIN		21,257,397		\$1,734,758		\$1,872,931	
GAS COST [1]				\$8,394,040		\$6,276,892	
TOTAL REVENUES				\$10,128,798		\$8,149,823	-19.54%

[1] Gas Cost under Present Revenues reflects the authorized Cost of Gas from the Commission Final Decision in 3270-UR-122 for Test Year 2020.

**MADISON GAS AND ELECTRIC COMPANY
DOCKET 3270-UR-123
NATURAL GAS BILLING STATISTICS AND REVENUES
FOR THE YEAR JANUARY 1 - DECEMBER 31, 2021**

Type of Service	BILLING UNITS	NUMBER OF BILLING UNITS	PRESENT RATES	PRESENT REVENUES	2021 PROPOSED RATES	2021 PROPOSED REVENUES
SEASONAL USE DISTRIBUTION SUDS-1						
CUSTOMER CHARGE						
	Interruptible Sales (IS-1)	Bills	840	\$1.50 per bill per day	\$38,325	\$1.50 per bill per day \$38,325
	Daily Balancing Service (DBS-1)	Bills	60	\$1.50 per bill per day	\$2,738	\$1.50 per bill per day \$2,738
		Days	365	per bill per month		per bill per month
DAILY ADMINISTRATIVE FEES						
	DBS-1 Administrative Charge	Bills	60	\$4.30 per bill per day	\$7,848	\$4.30 per bill per day \$7,848
	DBS-1 Telemetering Charge	Bills	60	\$1.50 per bill per day	\$2,738	\$1.50 per bill per day \$2,738
	IS-1 Interruptible Sales Administrative Charge	Bills	-	\$50.00 per bill per day	\$0	\$50.00 per bill per day \$0
	IS-1 Interruptible Sales Telemetering Charge	Bills	-	\$1.50 per bill per day	\$0	\$1.50 per bill per day \$0
DISTRIBUTION SERVICE CHARGE						
	IS-1 Interruptible Sales (first 2,000) therms	Therms	82,093	\$0.1242 per therm	\$10,196	
	IS-1 Interruptible Sales (next 18,000) therms	Therms	336,614	\$0.1140 per therm	\$38,374	
	IS-1 Interruptible Sales (all therms > 20,000 therms)	Therms	2,871,423	\$0.1071 per therm	\$307,529	
	DBS-1 Daily Balancing (first 2,000) therms	Therms	29,364	\$0.1242 per therm	\$3,647	
	DBS-1 Daily Balancing (next 18,000) therms	Therms	224,916	\$0.1140 per therm	\$25,640	
	DBS-1 Daily Balancing (all therms > 20,000 therms)	Therms	297,560	\$0.1071 per therm	\$31,869	
	Is-1 On-Peak	Therms	48,432	\$0.5000 per therm	\$24,216	\$0.1000 per therm \$4,843
	DBS On-Peak	Therms	24,794	\$0.5000 per therm	\$12,397	\$0.1000 per therm \$2,479
	IS-1 Interruptible Sales (first 5,000) therms	Therms	129,921			\$0.1544 per therm \$20,060
	IS-1 Interruptible Sales (all therms > 5,000 therms)	Therms	3,160,209			\$0.1394 per therm \$440,533
	DBS-1 Daily Balancing (first 5,000) therms	Therms	31,373			\$0.1544 per therm \$4,844
	DBS-1 Daily Balancing (all therms > 5,000 therms)	Therms	520,467			\$0.1394 per therm \$72,553
ADMINISTRATIVE CHARGE						
	Interruptible Sales (IS-1)	Therms	3,290,130	\$0.0144 per therm	\$47,378	per therm
	Daily Balancing Service (DBS-1)	Therms	551,840	\$0.0000 per therm	\$0	per therm
Revenues - Interruptible Sales (IS-1)				\$466,018		\$503,761
Revenues - Daily Balancing Service (DBS-1)				\$86,877		\$93,200
Act 141 Fixed Charge				\$67		\$67
	Act 141 Credit	Therms	265,993	(\$0.0141) per therm	(\$3,751)	(\$0.0141) per therm (\$3,751)
TOTAL MARGIN			3,841,970		\$549,211	\$593,277
GAS COST [1]					\$784,064	\$951,897
TOTAL REVENUES					\$1,333,275	\$1,545,174 15.89%

[1] Gas Cost under Present Revenues reflects the authorized Cost of Gas from the Commission Final Decision in 3270-UR-122 for Test Year 2020.

MADISON GAS AND ELECTRIC COMPANY
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NATURAL GAS COST OF GAS REVENUES AND BASE RATES
FOR THE YEAR JANUARY 1 - DECEMBER 31, 2021

All Territories

	FS-1	IS-1	IS-2 , LS-1	DBS-1	Total
Annual D-1	\$ 11,730,492	\$ -	\$ -	\$ -	\$ 11,730,492
Seasonal D-1	\$ 7,340,155	\$ -	\$ -	\$ -	\$ 7,340,155
Balancing Costs	\$ 2,042,678	\$ 67,033	\$ -	\$ -	\$ 2,109,711
Interruptible Market Reservation - IMR	\$ -	\$ 82,833	\$ -	\$ -	\$ 82,833
75% IMR			\$ 70,932		\$ 70,932
LS-1 Reservation Costs	\$ -	\$ -	\$ 430,700	\$ -	\$ 430,700
<u>Commodity Cost of Gas</u>	<u>\$ 53,883,324</u>	<u>\$ 1,718,762</u>	<u>\$ 5,996,177</u>	<u>\$ -</u>	<u>\$ 61,598,264</u>
Total by Supply/Balancing Option	\$ 74,996,649	\$ 1,868,628	\$ 6,497,809	\$ -	\$ 83,363,086
Relevant Volumes	197,057,893	6,458,714	22,070,992	75,198,694	300,786,293
Total for Sales Classes:	\$ 83,363,086				
Base Rates - Cost of Gas	<u>Annual D-1</u> \$0.0596	<u>Seasonal D-1</u> \$0.0513	<u>Balancing</u> \$0.0104	<u>LS-1 Reservation</u> \$0.0236	<u>Commodity</u> \$0.2734