Fiscal Year 2022-2023 Annual Report

for the



Final



Contents

Executive Summary	4
Monthly Operations Report Summary	5
Operations Summary	6
News, Events, and Other Business	7
Plant Performance	8
Plant Reliability	8
Plant Efficiency	12
Environmental, Health, and Safety	16
Environmental	16
Health	16
Safety	17
System Assessment and Status	18
Personnel	18
Training	19
Customer Service	20
Energy Generating Facility (EGF)	21
EGF Preventive and Predictive Maintenance	21
Repairs and Replacements	22
Information Technology System Program	28
Modifications and Improvements	29
Energy Distribution System (EDS)	34
EDS Preventive and Predictive Maintenance	34
Repairs and Replacements	35
DES Projects	38
Outstanding Issues and Recommendations	42
Sales and Marketing	43
Utilities and Fuel Procurement	44
Natural Gas and Propane	44
Electricity	46
Water & Sewer	47
Financial Report	48
Appendix 1 – Customer List	50
Appendix 2 – Consumption & Revenues	51



Appendix 3 – Customer Rate Reconciliation	52
Appendix 4 – CES Invoice Reconciliation (FEA)	64
Exhibit 1 – Performance Guarantee Calculation	73
Exhibit 2 – Information Technology System Program	75
Exhibit 3 – Constellation Assets	80
Exhibit 4 – Spare Parts Inventory	82



Executive Summary

On behalf of Constellation, I am pleased to present the twentieth "Annual Report" to the Metropolitan Government of Nashville and Davidson County, Tennessee (Metro). My tenure managing the Constellation Energy Solutions (CES) team and the business at the Metro Nashville District Energy System (MNDES) started in September of 2022. The MNDES is made up of two basic parts, the Energy Generation Facility (EGF) and the Energy Distribution System (EDS). This report summarizes activities related to the performance of the MNDES for the period July 1, 2022 through June 30, 2023.

CES's experienced work force continues to operate and maintain the MNDES in a manner that produces outstanding results. Both steam and chilled water availability and reliability were greater than 99%. The safety record was 100%, as there were no accidents in the past 12 months. CES's environmental record remains intact with zero excursions, violations, or fines. All data, records, reporting requirements, and submittals are kept up to date and in order.

CES remains committed to providing the best service possible to Metro, State, and private MNDES customers. I would like to thank the Metro and CES personnel for their continued dedication toward achieving these objectives.

Sincerely,

Mike Winters General Manager DE Asset Operations, a subsidiary of Constellation Energy Solutions, LLC Metro Nashville District Energy System



Monthly Operations Report Summary

Constellation Energy Solutions, LLC (CES) submits a written report to the Metro Nashville District Energy System (MNDES) team on or about the 10th day of each month to convey the operational activities of the prior month. These reports are broken up in to four major sections. The first item included in each report is the Summary. This section gives an overview of the entire report, addresses news, events, and other business activities. The next section is Operations, which includes plant reliability and efficiency data, environmental, health & safety, accidents, personnel, and employee training. The third section of the report lists and discusses all maintenance activities in and around the Energy Generation Facility (EGF). Items covered in this section include the building and grounds, warranty issues, preventive and predictive maintenance, and construction projects. The final section of these reports is about the Energy Distribution System (EDS). Items discussed in this section are customers, sales and marketing, system maintenance and repairs, and distribution system projects.



Operations Summary

The EGF continued to furnish reliable steam and chilled water service to the MNDES customers over the past twelve months. There was one scheduled total system chilled water outage this year and one scheduled steam outage. There was also an emergency outage due to a safety issue on the incoming 69kV power from Nashville Electric Service (NES) that was requested from NES on June 30, 2023.

Some MNDES customers requested service interruptions so they could make repairs in their respective buildings and some sections of the EDS were isolated to make steam and chilled water repairs. Apart from these, there have been no significant service interruptions.

The plant is staffed with an outstanding work force. There were zero reportable incidents and zero lost time accidents for the year. Training classes were conducted online due to COVID-19 protocols, as regular in person meetings were cancelled. Employees also received training related to plant systems, equipment, and corporate programs and requirements. For the nineteenth consecutive year, there were no environmental excursions or violations.

Maintenance activities were performed as scheduled in the EGF and in the EDS. A great deal of planning and coordination go into the project work both in the plant and in the distribution system. Communications with the MNDES customers are performed on a routine basis. Any customer issues that exist are dealt with courteously and expeditiously.



News, Events, and Other Business

Routine business activities such as the Monthly Operations Meeting and Natural Gas Purchasing conference calls were conducted as scheduled each month. Other news and events include the following:

- The MNDES Advisory Board Meetings were held in person and via Microsoft Teams the third Thursday of August 2022, November 2022, February 2023, and May 2023.
- CES issued a draft copy of the FY22 Annual Report to Metro on July 29, 2022.
- The Monthly CES/MNDES Operations Meeting and Monthly Report review was held, via conference call, August 17, 2022.
- MNDES Advisory Board was held, both virtual and in person, August 18, 2022.
- The open Electrician and Plant General Manager (GM) positions were filled. The GM began work on September 6, 2022, and the Electrician began September 26, 2022.
- The Monthly CES/MNDES Operations Meeting and Monthly Report review was held, via conference call, September 21, 2022.
- The Monthly CES/MNDES Operations Meeting and Monthly Report review was held, via conference call, October 19, 2022.
- The Monthly CES/MNDES Operations Meeting and Monthly Report review was held, via conference call, November 16, 2022.
- MNDES Advisory Board was held, both virtual and in person, November 17, 2022.
- The Monthly CES/MNDES Operations Meeting and Monthly Report review was held, via conference call, December 21, 2022.
- The Monthly CES/MNDES Operations Meeting and Monthly Report review was held, via conference call, January 18, 2023.
- Chilled Water outage was scheduled on January 4, 2023, to replace chilled water valves at the Plant and make repairs in the Distribution System.
- The Monthly CES/MNDES Operations Meeting and Monthly Report review was held, via conference call, February 15, 2023.
- MNDES Advisory Board was held, both virtual and in person, February 16, 2023.
- The Monthly CES/MNDES Operations Meeting and Monthly Report review was held, via conference call, March 15, 2023.
- The Monthly CES/MNDES Operations Meeting and Monthly Report review was held, via conference call on April 19, 2023.
- The Monthly CES/MNDES Operations Meeting and Monthly Report review was held, via conference call on May 17, 2023.
- MNDES Advisory Board was held, both virtual and in person, May 18, 2023.
- The Annual Customer Meeting was held on May 25,2023 at the Downtown Nashville Partnership.
- The Monthly CES/MNDES Operations Meeting and Monthly Report review was held, via conference call on June 21, 2023.



Plant Performance

Plant Reliability

The EGF continued to provide reliable service to the MNDES customers. Except for uncontrollable circumstances, the guarantees are to maintain 150 psig of export steam pressure leaving the EGF and deliver 43.3-degree F chilled water to each customer. The following items describe minor incidents, short in duration, when the EGF experienced an excursion outside parameters of the performance guarantees.

- On August 16, 2022, there was one reportable incident due to a scheduled steam outage to replace two valves on #1 Deaerator. This outage resulted in the steam pressure being below 150 psi for approximately 6 hours and 15 minutes. Due to the scheduled outage, the pressure was 0 psi. The outage was completed ahead of schedule.
- On September 18, 2022, there was one reportable incident with steam when a Boiler Feed Water Pump began cavitating causing #3 Boiler to trip off line. Two of the other BFWP's were put on line. After failing to re-light #3 Boiler, #1 Boiler was placed on line. This resulted in the steam pressure being below 150 psi for approximately 90 minutes with a low pressure of 138 psi.
- On November 29, 2022 at approximately 12:11 p.m. the Plant lost power momentarily which tripped all Plant equipment. The Chillers restarted and the chilled water temperatures were not above 43.3°F for more than 30 minutes. The Boilers were restarted immediately, however, the pressure dropped to a low of 75 psi and was below 150 psi for approximately 100 minutes. There was no indication of any failure on the electrical side at the Plant. CES's I & E Supervisor contacted NES and was informed that at 12:11 p.m.there was a fault at the Finn Street Substation
- On December 1, 2022 at approximately 3:08 a.m., the boiler pressure dropped to a low of 128.2 psi and was below 150 psi for approximately 45 minutes. #1 Boiler tripped due to a failed flame scanner, and #4 Boiler was started in its place.
- On December 15, 2022, at approximately 10:30 a.m.the plant lost pressure to the chilled water system and dropped down to approximately 70 psi. CES dispatched three crews to check for leaks in the system as well as the Customer Service Representative (CSR) calling customers. There were no leaks found in the tunnels, storm drains, or under the Woodland Street Bridge. The CSR was informed by the Bridgstone Arena Building Engineer that they were testing the ice machine condenser on city water. The normal procedure is for the MNDES valves to close during this process, but the valves did not perform as normal. This caused the MNDES chilled water to go directly to drain and caused a loss of pressure on the system. The chilled water temperature was above 43.3°F for approximately 36 minutes reaching a high temperature of 47.0 °F.



- On December 23, 2022 at approximately 5:15 a.m. #3 Boiler tripped and another boiler was started. The pressure dipped to a low of 111 psi and took until around 8:45 a.m. to recover. This was the morning of the unusually low temperatures which reached -1°F with wind chills exceeding -20°F. As the system had come back up to pressure, the plant experienced abnormal voltage imbalance from the utility, causing issues with MCCs, boiler feedwater pumps, and condensate pumps. This eventually caused all of the boilers to trip offline. CES Managers, Mechanics and Electricians were on site to troubleshoot the system. The Plant was brought back online slowly, overload relays adjusted, and the pumps were placed in manual control until the system settled out. The System reached a low of 12.6 psi at 10:26 a.m.and was back to normal operating pressure of 150 psi at 1 p.m.
- On January 1, 2023 at approximately 2:45 p.m. steam flow went from 40,000 pph to 68,000 pph suddenly which dropped the header pressure to a low of 108 psi. An additional boiler was started immediately. The pressure was below 150 psi for approximately 75 minutes.
- On January 4, 2023, there was a scheduled 24 hour chilled water outage to make repairs in the Energy Distribution System as well as the Energy Generating Facility (EGF). The chilled water system was above 43.3°F for approximately 1,464 minutes.
- On January 5, 2023, at approximately midnight.#2 Boiler tripped and was immediately restarted. The low pressure was 95.7 psi and the system was below 150 psi for approximately 45 minutes.
- On January 9, 2023, the steam system was below 150 psi for approximately 150 minutes while performing tune-ups on Boilers #2 and #4. The low pressure was 54.6 psi. The system pressure has to be lowered during this testing to prevent lifting the safety valves as the firing rate of the boilers are raised and lowered in 10 percent increments.
- On January 26, 2023, at approximately 11:00 a.m., #2 Boiler tripped and was immediately re-started. The low pressure was 134.7 psi and the system was below 150 psi for approximately 45 minutes. CES I&E personnel are investigating the cause of these nuisance trips on this Boiler.
- On January 31, 2023, at approximately 11:45 a.m., #3 Boiler tripped and was immediately re-started. The pressure was below 150 psi for approximately 45 minutes. The low pressure was 137.9 psi.
- In February 2023, Trane performed the Annual Preventive Maintenance on all 9 Chillers including Tube Cleaning on all 9 Condensers and 3 Evaporators. Eddy Current Testing was performed on Chillers 2, 3 and 9. During the PMs, water flow is required through some offline units which causes some spikes in temperatures. There were three instances which exceeded the 30 minute reportable threshhold. They are as follows:
 - 1. On February 6, 2023, the temperature exceeded the guarantee for approximately 118 minutes reaching a high of 47.2 °F.
 - 2. On February 7, 2023 beginning at 10:18 a.m., the temperature exceeded the guarantee for approximately 36 minutes reaching a high of 45.3 °F.
 - 3. On February 7, 2023 beginning at 2:22 p.m., the temperature exceeded the guarantee for approximately 36 minutes reaching a high of $45.8~^{\circ}F$.



- On February 21, 2023 the Music City Center (MCC) informed CES's Customer Service Representative (CSR) of a need to isolate their steam system to make some repairs. Once the MCC notified the Plant Control Room the system pressure was dropped momentarily to accommodate this load loss. The pressure was below 150 psi for approximately 30 minutes and reached a low of 145.4 psi.
- On February 22, 2023, the MCC restored steam service to their Building and the pressure was below 150 psi for approximately 30 minutes and reached a low of 132.5 psi.
- On March 3, 2023, #6 Chiller tripped on low differential oil pressure. This caused the temperature to rise to a high of 45.0 degrees and was above the reportable threshold for approximately 42 minutes.
- On March 11, 2023, #2 Boiler tripped during testing for the annual Boiler run inspection and was immediately restarted. The pressure dropped to a low of 143 psi and was below 150 psi for approxximately 45 minutes.
- On March 18, 2023, #2 Boiler tripped and was attempted to re-start. It was determined to be an issue with the flame scanner. Another boiler was placed in service. The pressure dropped to a low of 76 psi and the system pressure was below 150 psi for approximately 135 minutes.
- On April 4, 2023, while swapping boilers the steam pressure dropped to 143 psi for approximately 30 minutes.
- On April 19, 2023, #3 Boiler tripped which caused the steam pressure to drop to 115 psi for approximately 60 minutes. #2 Boiler was put into service. CES I & E personnel found a problem with the I to P converter on the Feedwater regulating valve. A new converter was installed and the Boiler was tested and worked properly.
- On May 19, 2023, #2 Boiler tripped which caused the steam pressure to drop to a low of 136 psi for approximately 60 minutes. #3 Boiler was put into service. CES I & E personnel found a problem with the Fire Eye Flame scanner. A new scanner was installed and the Boiler was tested and worked properly.
- On June 5, 2023, while removing #2 Deaerator from service to perform the Annual PM's, #2 Boiler tripped due to low water. The #1 Deaerator controls were slow to re-act was the cause and CES I & E personnel adjusted the controller. The Boiler was placed back in service. The steam was below the guarantee for approximately 90 minutes with a low pressure of 103 psi.
- On June 30, 2023, NES had an emergency outage that required the Plant to be shutdown for them to make repairs to the 69 kV line. The steam system was below the guarantee for approximately 195 minutes with a low pressure of 18 psi. The chilled water system was above the guarantee for approximately 294 minutes with a high temperature of 55.3 °F.



Constellation is required to report upsets that last longer than thirty minutes. The following table includes every minute the plant was outside the contractual service delivery parameters, whether reportable or not. Reliability does not include scheduled outages allowed per the Amended and Restated Management Agreement (ARMA).

	Downtime			
	Scheduled	Unscheduled	Availability	Reliability
Boilers	570 minutes	1465 minutes	99.61%	99.72%
Chillers	1758 minutes	298 minutes	99.61%	99.94%



Plant Efficiency

When the annual boiler inspections were completed at the end of July 2022, two boilers were placed in wet lay-up, one in stand-by, and one de-aerator tank was isolated due to the reduced steam demand during the summer months. One boiler and one de-aerator were left online. This equipment is rotated monthly. This is done to increase steam efficiency during the cooling season. Stand-by boilers were taken out of wet lay-up and was put back in service during the month of November 2022 in preparation for the heating season.

Constellation and Metro agreed upon the final version of the Metro MNDES annual reconciliation for FY23 on September 6, 2023. The annual reconciliation for this time consisted of a true-up for the FEA, propane, engineering, and insurance costs. For reference, the annual reconciliation is included in Appendix 4 of this report.

Constellation Energy's efficiency guarantees consist of five key conversion rates:

- 1. Electric-to-Steam (kWh per klb-sold)
- 2. Fuel-to-Steam (Dekatherm per klb-send-out)
- 3. Water-to-Steam (gallons)
- 4. Electric-to-Chilled Water (kWh per ton hr-sold)
- 5. Water-to-Chilled Water (gallon per ton hr-sold)

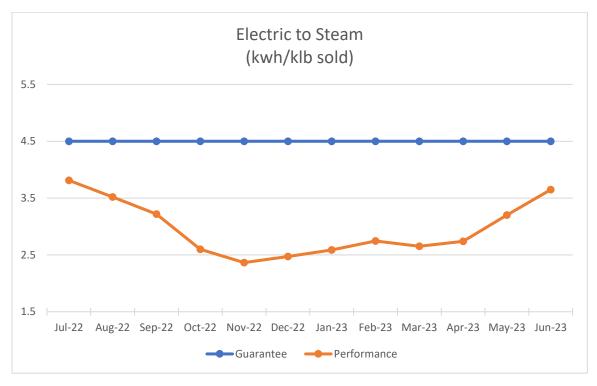
Efficiency for the fiscal year 2022-2023:

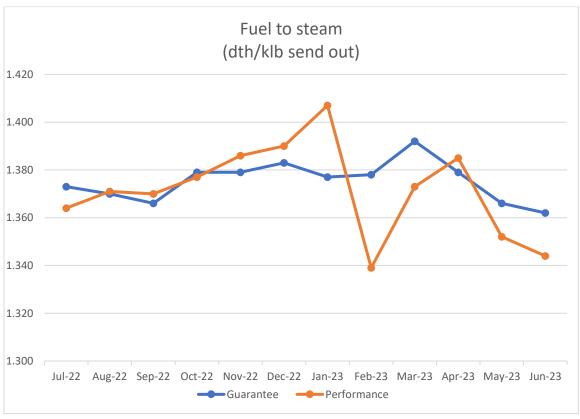
	Units	Guarantee	Actual Rate
Electric-to-Steam	kWh/klb-sold	4.500	2.831
Fuel-to-Steam	Dth/klb-sent out	1.377	1.375
Water-to-Steam	gallons	16,370,156	17,877,424
Electric-to-Chilled Water	kWh/ton hr-sold	0.930	0.882
Water-to-Chilled Water	gallons/ton hr-sold	2.000	2.0007

The guarantees instituted in July of 2020 are much tighter, as they were reduced by 25% or more from the original performance guarantees. As equipment ages, it generally becomes less efficient. CES continues to investigate ways to operate more efficiently to meet these commitments, implementing suggestions from the third-party engineering assessment that was finalized in December 2022.

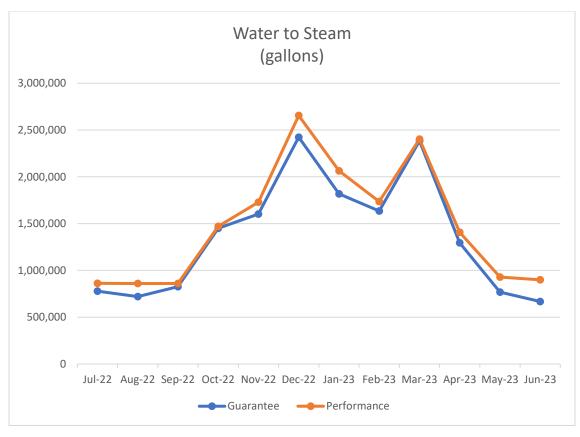


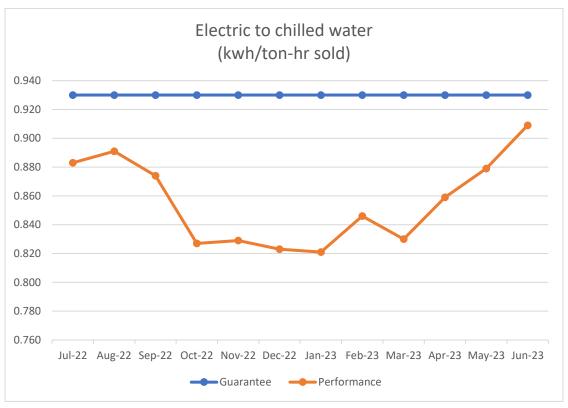
The following graphs represent the efficiency guarantee results from July 2022 through June 2023 on a monthly basis:



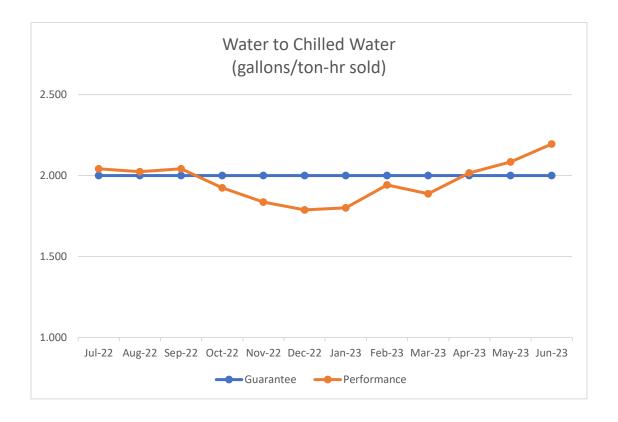












CES did not meet, nor did they exceed every single guarantee each month during the past year. When CES exceeds a performance guarantee, they are penalized 100% of the amount exceeded. When they beat the guaranteed value, they receive a 25% bonus, allowing the additional 75% to be returned to customers as a savings. CES received a net bonus of \$84,960.83 for FY23.



Environmental, Health, and Safety

Environmental

There have been no environmental violations since the plant began commercial operations in December 2003.

Storm water samples were collected, inspections conducted, and a report was generated quarterly. Storm Water Pollution Prevention Plan (SWPPP) and Spill Prevention Controls and Countermeasures (SPCC) training was conducted online.

Regulatory Compliance

Required reporting activities were submitted as follows:

- The Semi-Annual Emissions Monitoring Report for January-June 2022 was sent to the Metro Nashville Health Department on July 7, 2022.
- The Semi-Annual Monitoring Report for July-December 2022 was sent to the Metro Health Department on January 12, 2023.
- The Title V Certificate of Compliance for 2022 was sent to the EPA on January 13, 2023. A copy was also sent to the Metro Health Department the same day.
- The Tier II report was sent to the State Emergency Planning Committee, Davidson County LEPC and the Nashville Fire Department on January 23, 2023.
- The Air Permit Renewal Application was sent to the Metro Health Department on January 23, 2023.
- The Annual Greenhouse Gas Report was sent to the U.S. EPA on February 21, 2023.
- The Annual Emission Inventory Report for 2022 was sent to the Metro Health Department on March 16, 2023. The Annual Emission Fees were sent the same day.
- The Air Permit Renewal Application was approved, and a copy sent to CES on June 14, 2023.

Health

Things are beginning to get back to normal, but new variants of the COVID-19 Virus continue to present challenges. Several employees contracted the virus and had to be quarantined. This also resulted in additional cleaning and disinfecting of the facility. CES protocols, based on CDC guidelines, remain in effect. Conference calls, Microsoft Teams, Skype, etc. meetings are being utilized instead when possible.



Safety

CES plant personnel continue to conduct themselves in a safe manner. There were no reportable accidents in the past year. CES has operated 1,064 days without an accident.

Monthly safety meetings were coordinated and scheduled by CES's site Safety Officer. Training classes were conducted online due to the COVID-19 restrictions in place. Safety and accident reports are issued and posted each month.

The refrigerant alarm and gas monitors are checked weekly. Preventative maintenance and calibrations are performed monthly on the portable gas monitors used in the EDS. Fire extinguishers are also checked monthly.

Per OSHA, the NEC and NFPA 70E 1910 Subpart S, our arc flash Personal Protective Equipment was sent out for inspection and recertification as required.

Accident Report

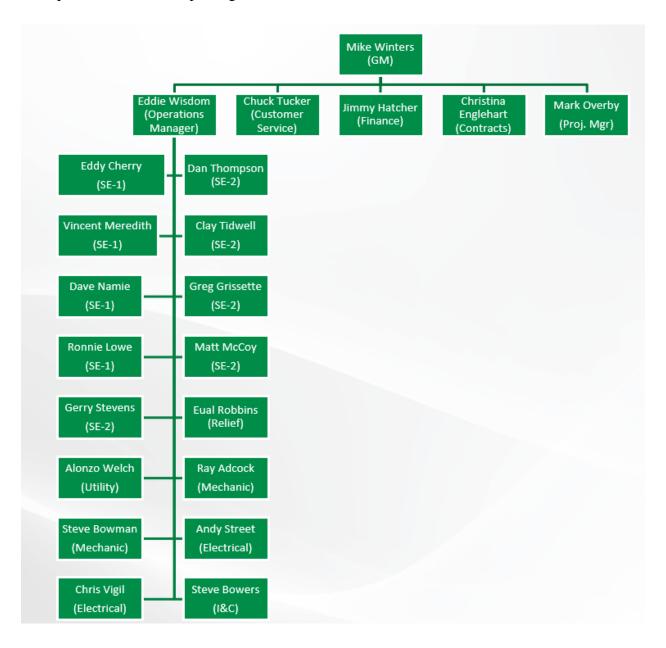
	Total	OSHA	Lost Time	Total
	Accidents	Reportable	Accidents	Lost Days
July 2022	0	0	0	0
August	0	0	0	0
September	0	0	0	0
October	0	0	0	0
November	0	0	0	0
December	0	0	0	0
January 2023	0	0	0	0
February	0	0	0	0
March	0	0	0	0
April	0	0	0	0
May	0	0	0	0
June	0	0	0	0
Total	0	0	0	0



System Assessment and Status Personnel

The plant is fully staffed with an exceptional work force of nineteen full time employees, two shared employees, and one remote part-time employee. CES prides itself on keeping employees engaged which results in a very low turnover rate.

CES's former Plant General Manager retired on June 30, 2022, and his replacement, Mr. Mike Winters, began work on September 6, 2022. A new electrician, Mr. Christopher Vigil began work on September 26, 2022, replacing a retired former electrician.





Training

To maintain and operate the facility safely, reliably, and efficiently a significant amount of employee training is required. The following demonstrates some of the training that was conducted throughout the year:

- Employees completed Constellation Retail Electric and Natural Gas compliance training.
- Corporate conference call information sessions, regarding COVID-19 pandemic and company updates, were conducted weekly.
- Employees completed corporate on-line security training, FERC Training, IT and Phishing Awareness Training.

Training classes were not held in person this year due to COVID-19 protocols. The following safety classes were completed by CES personnel online using the LMS (Learning Management System):

- Fire Safety
- Accident Investigation, Reporting & Record Keeping
- Tool & Equipment Safety
- Compressed Gas Cylinder Safety & Hot Work
- Confined Space Entry
- Storm Water Pollution Prevention Plan & Spill Prevention, Controls & Countermeasures
- Bloodborne Pathogens, Heat Stress & Cold Stress
- Steam Safety & Refrigerant Safety
- Lock Out/Tag Out (LOTO)
- Safe Work Practices
- Elevated Work & Vehicle Safety
- Personal Protective Equipment
- Chemical Safety & Hazard Communications



Customer Service

CES personnel routinely communicate with the customers each month through e-mails, phone calls or visits. When customers have heating or cooling issues inside their buildings, we assist them with troubleshooting and attempt to resolve their problems. When a service interruption is required, whether it is project related or an emergency, activities are coordinated closely with the customers to keep the impact to a minimum.

The annual MNDES Customer Meeting, which was held on May 25, 2023, and other meetings with customers were conducted throughout the year. These activities build relationships, help further a positive image of the MNDES in the community and promote existing building owners to assist us in our sales efforts.

CES's Customer Service Representative reviews each customer's meter readings monthly. For those who do not meet their contractual chilled water return temperature requirements, a Thermal-Inefficiency-Fuel-Surcharge (TIFS) is assessed. TIFS are added directly to customer invoices per their customer service agreement with Metro.

When a customer exceeds their contractual demand capacity multiple times, the meter data is sent to the MNDES Project Administrator for review and evaluation. The reason for the excursion is investigated and suggestions are made to keep it from occurring again. If a capacity adjustment is deemed appropriate, a letter is sent to the customer with an explanation of the adjustment and its duration.



Energy Generating Facility (EGF)

During normal operation, preventative, predictive, and routine maintenance items must be scheduled and completed. During the summer months the lawn is mowed weekly, and the landscape is routinely manicured. This includes trimming trees and shrubs, putting mulch in the beds, maintaining the irrigation system, and removing dead plants. The building and grounds are policed daily, and the lighting is maintained year-round. The carpeting is shampooed in the office areas and the tile floors are stripped, waxed, and sealed annually.

EGF Preventive and Predictive Maintenance

The following items were accomplished to increase equipment life, reliability, efficiency, and safety:

CES personnel perform daily equipment inspections, check bearing temperatures, oil levels, belt tensions, etc. In addition, preventative maintenance is performed on the following equipment monthly: HVAC units, cooling towers, condenser water pumps, chilled water pumps, boiler feed water pumps, condensate pumps, motors, instrument air compressors and driers. The roof surface is inspected and cleaned. The propane system is also test fired and leak checked monthly.

Annual pressure vessel inspections are scheduled to be completed during the cooling season. The inspections are conducted by F. M. Global. They are State Certified Boiler Inspectors, working as a subcontractor to our insurance carrier. These inspections are required in order to renew our operating permits. Boiler inspections consist of a visual examination of the mud drum, steam drum, economizer, tubes and fire box. #2 and #4 boilers and #2 de-aerator tank were inspected in July 2022. #1 and #3 boilers and #1 de-aerator tank were most recently inspected in June 2023. All of the boilers received a passing grade and their respective permits have been renewed. #2 and #4 boilers and #2 de-aerator are scheduled to be re-inspected in July 2023.

Boiler inspections were witnessed by our chemical vendor's representative and plant personnel. When units are offline for inspection, preventative maintenance is performed on the forced draft fans, low water cut out switches and other associated equipment.

Annual chiller inspections are scheduled and executed during the heating season as a good maintenance practice. These inspections include opening the condensers and cleaning the tubes, performing vibration analysis and taking oil sample analysis on each chiller. Eddy current testing was conducted on the evaporator and condenser on #2, #3 and #9 Chillers. Controls and purge units were also checked for proper operation.

As part of the Preventive and Predictive maintenance program CES had a contractor take alignment and vibration readings on all pumps, fans and motors. These readings are compared to the previous year's readings. All equipment readings were within acceptable limits.

Infrared testing was conducted on all electrical switchgear and starters. No problems were found during this testing.



The high-voltage switchgear preventive maintenance was scheduled and executed during the fall of 2022. Maintenance on transformers, vacuum breakers, relays, and load break switches was completed, and infrared inspections and oil sample analysis were also executed.

Annual maintenance costs for these activities: <u>\$ 175,343.77</u> (excludes salaried personnel & corporate overhead).

Repairs and Replacements

The following are routine maintenance items performed daily or weekly:

- Office Janitorial Services & equipment room clean up
- Pick up debris around exterior of EGF
- Mowed and landscaped lawn
- Checked & repaired plant computers & servers
- Repaired plant lighting and electrical
- Checked & adjusted packing on all pumps

From time-to-time repairs and replacements must be made. The following are examples of repairs that have been performed in the EGF in the past 12 months:

July 2022

- Repaired leak on #3 Softener
- Changed filters on #6A Chiller
- Control Room AC was not Working Properly
- Repaired chemical line leaks
- Replaced refrigerant filters on #5B Chiller
- Repaired Sprinkler System
- Changed cylinder on Transformer 1B
- #4 ChW Pump VFD failed
- #4 CWP motor failed
- Reset Switchgear 6B Meter
- M/H 18 Condensate Pump Project Review
- Investigated Chilled Water Makeup Meter
- #3 BFWP motor failed
- #3 Condensate Pump Motor failed
- Peabody Union Blast Monitoring
- Purchased new Pallet Jack



August 2022

- Purchased iMaint Customer Support Agreement
- Investigated Issues with Main Steam Meter
- Replaced evaporator actuator #5 Chiller
- Trane replaced Evaporator Temperature Sensor on #1 Chiller
- Trane replaced purge Solenoid Valve on 7B Chiller
- Trane troubleshot load issue on #9 Chiller
- Trane bled air out of #5 Chiller
- Trane replaced Purge Unit on 5B Chiller
- Trane replaced control panel on 9B Chiller
- Repaired Sprinkler System
- Repaired leak on #3 Boiler Pressure Transmitter
- Sent #4 CWP Motor out for repair
- Replaced 3" Gate and 3" Globe Valve on #1 DA
- Replaced belt on #16 Cooling Tower
- Replaced Chilled Water Makeup Meter
- Sent #3 BFWP Motor out for repair

September 2022

- Repaired leak on 31905 Chemical Line
- Adjusted belts #4, #7 and #15 Cooling Towers
- Investigated issues with Manlift (replaced battery)
- Replaced evaporator actuator #5 Chiller
- Cleaned Batteries in Switchgear #1
- Repaired Sprinkler System Backflow preventer
- Replaced drain line #4 BFWP
- Replaced ceiling tile in Restrooms
- Cleared Boiler Sample Water Cooler
- #4 CWP Motor Rewired
- Removed Portable Refrigerant Filters from Chillers 5B and 6A
- Repaired/Replaced locks, signage and access gates at Facility
- Replaced conductivity probe controller for #3 Boiler
- Repaired actuator on #4 Chiller Condenser Inlet Valve
- #3 BFWP Motor Rewired
- #3 Condensate Pump Motor Failed and was Replaced
- Peabody Union Blast Monitoring
- Checked Cooling Tower Basin Heaters
- Replaced #2 Chiller differential pressure switch



October 2022

- Repaired leak on 40215 Chemical Line
- Replaced Mini Split AC Unit in Control Room
- Repaired Refrigerant Alarm
- Repaired actuator on #7 Chiller
- Repaired Sprinkler System Backflow preventer
- #4 CWP Motor wire and check rotation
- Repaired/Replaced locks, signage and access gates at Facility
- Peabody Union Blast Monitoring
- Performed Winterization (curtains, heaters, heat trace, sprinklers, etc.)

November 2022

- Replaced Chilled Water Makeup Pump Controller
- Performed Switchgear Room Maintenance
- Repaired Cooling Tower Makeup Valve
- Repaired Cooling Tower Level Indicator Line
- Replaced 3 Building Heater Motors (2,5 and 7)
- Replaced Metro Flag
- Repaired #1 Deaerator Door
- Repaired #3 Softener Controls
- Repaired leak on #3 Boiler Blowdown Valve
- Repaired leak on 12900 Chemical Line
- Repaired Shop Air Tank Leak
- Removed Refrigerant from #6A Chiller
- Trane leak checked #6 Chiller
- Peabody Union Blast Monitoring
- Purchased Chiller Valves for Chiller's 1,4,5 and 9
- Repaired #1 Boiler Feedwater Valve



December 2022

- Repaired plant lighting and electrical
- Repaired Cooling Tower Makeup Valve
- Refurbished GE 750 Multilin Relay
- Investigated possible chilled water leak
- Repaired #3 BFWP differential pressure switch
- Prepared for Chilled Water Outage Items
- Repaired Roof Leak
- Checked for tube leak on #1 Boiler (None Found)
- Repaired water leaks
- Repaired Propane Vaporizer
- Completed Refrigerant removal from #6A Chiller
- Re-piped brine draw lines for Water Softeners
- Repaired #1 Boiler Flame Scanner
- Repaired Forklift and Genie Lift

January 2023

- Repaired plant lighting and electrical
- Installed electrical conduit and wiring for Skyspark water meter monitoring
- Water Softener UPS and Brine Draw piping replacement
- Repaired Cooling Tower Air Regulators
- Repaired Cooling Tower Level Indicator Piping
- Cleaned drains on Boiler/Chiller Level
- Replaced #2 DA Pressure Transmitter
- Chilled Water Outage Repairs
- Installed new Boiler Conductivity Controller on #2 Boiler
- Tuned Up Boilers #2 and #4
- Painted Offices, Hallways, Restrooms, Stairwell, etc.
- Replaced belts on Cooling Towers #2, #3 and #17
- Moved Refrigerant back into #6A Chiller
- Performed Annual Chiller Tube Cleaning



February 2023

- Repaired plant lighting and electrical
- Tested Vaporizer
- Troubleshot #2 Low Water Cut Out
- Repaired leak on #1 Boiler Economizer Tube
- Rebuilt #3 Boiler Blowdown Valve
- Cleaned drains on Boiler/Chiller Level
- Tested and reset #2 Boiler High Steam Pressure Alarm Switch
- Repaired #3 BFWP (Thrust Bearings and Oil seals on outboard end)
- Repaired #5 BFWP (Thrust Bearings and Oil seals on outboard end)
- Replaced coupling on #2 Condensate Pump
- Repaired Shop Air Compressor
- Troubleshot Door Controls
- Performed Chiller Actuator Modifications and Installation (Chillers 1,4, 5 and 9)
- Performed Eddy Current Testing on Chillers 2,3 and 9
- Completed Annual Chiller Tube Cleaning
- Repaired vacuum breaker on water line on Chiller Level

March 2023

- Fire Extinguisher inspection
- #5 Cooling Tower Fill Repair
- Annual Cooling Tower Cleaning
- Cooling Tower Drive Belt Changed
- Cooling tower motor Adjusted #14
- Removed Refrigerant from Chiller 6B
- Fixed Leaking/Valve Sealing Issue on New Side stream Filter Wet Tap (OT)



April 2023

- #2 Boiler Level Transmitter repair
- Replaced #1 Boiler Conductivity Probe
- #3 Boiler Feedwater Valve Repairs
- Replaced breaker on #18 Cooling Tower Fan Motor
- #6A Chiller Repairs with Trane Oil Transducer
- #7B Chiller Repairs Oil Regulator
- #9 Cooling Tower Hot Deck Cleaning
- #1 DA placed in service
- 40215 Chemical Pump Not pumping (Chemical Vendor Pump)
- Annual Sprinkler System Inspections
- Annual Backflow Preventer Inspections
- Annual Safety Valve Testing
- Replaced steam trap on #1 Boiler
- Replaced steam trap on #4 Boiler
- Replaced steam trap between #1 & #2 Boilers
- Replaced steam trap on PRV Station
- #4 CHWP VFD Replacement

May 2023

- Irrigation System Startup
- Replaced #2 Boiler Conductivity Probe
- #1 Boiler Conductivity Controller Replacement
- #1 CHWP Motor Wiring Repairs
- #1 Cooling Tower Breaker Repair
- #2 Boiler Fire Eye Replacement
- Repaired Cooling Water Makeup Line
- Removed and Replaced Plant Address Sign
- #4 CHWP VFD Replacement
- Installed Lighting around BFWPs
- Plant Camera Repairs
- Repaired Plant Gate



June 2023

- Repaired #2 Deaerator
- Repaired Exhaust Fan Motor on Switchgear 1
- #2 Boiler Conductivity Controller Replacement
- #1 CHWP Motor Wiring Repairs
- Installed new exhaust vents on CHWP VFD's
- Installed Lighting around BFWP's
- Replaced 5 Steam Traps in Boiler Area
- Annual Boiler Inspection #1 and #3
- Forklift/Genie Lift Repairs
- #8 A Chiller Filter Drier/Remove Refrigerant

Annual maintenance costs for these activities: \$640,835.95 (excludes salaried personnel & corporate overhead).

• Administrative functions include reports, purchase orders, material acquisition, office supplies, meetings, etc.

Annual costs for these items and activities: \$124,111.16 (excludes salaried personnel & corporate overhead).

Information Technology System Program

The Information Technology System Program is reviewed with Metro annually. The last review was conducted on September 1, 2022. Changes are included in the copy of the program located in Exhibit 2 of this report.



Modifications and Improvements

The following are improvements that were performed in and around the Energy Generation Facility and in the Energy Distribution System:



#1 Boiler Conductivity Controller Upgraded (new panel)





Vaporizer Rebuild

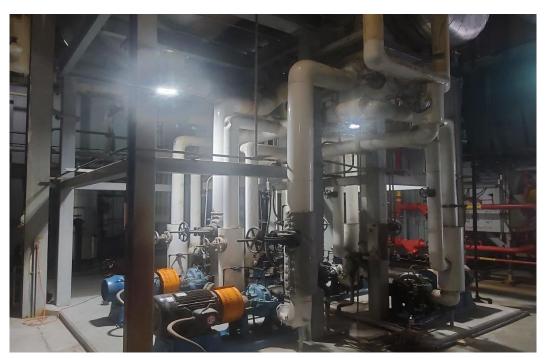


#4 Chilled Water Pump VFD



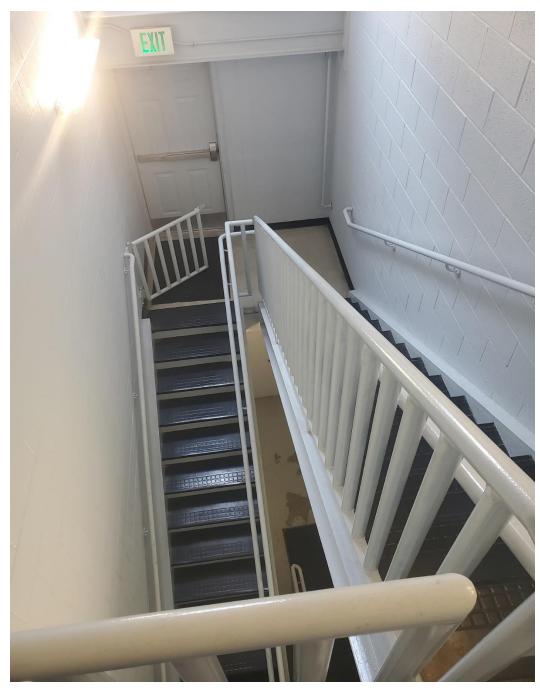


New Lighting at Side Stream Filter



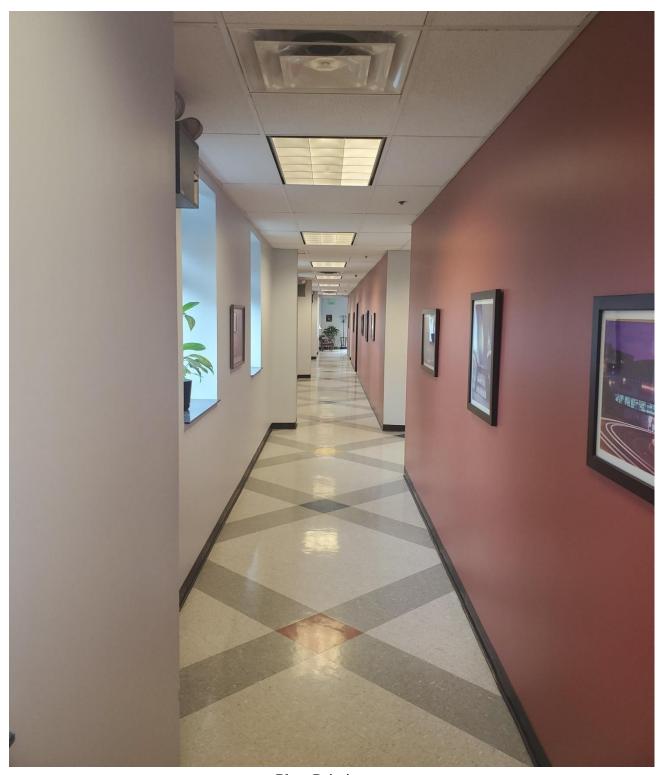
New Lighting at Boiler Feedwater Pumps





Plant Painting





Plant Painting



Energy Distribution System (EDS)

EDS Preventive and Predictive Maintenance

All the direct buried portions of the EDS are checked monthly by means of thermographic imaging. When a hot spot is detected, it indicates a possible piping leak or damaged insulation. Depending on the severity of the thermal temperature variance from the surrounding area, a determination is made whether to excavate the affected area.

CES maintenance personnel perform monthly inspections of EDS tunnels, as well as the State steam tunnel and the A. A. Birch (AAB) building tunnel. Monthly manhole inspections are also conducted. The condition of the structures, piping, supports, insulation, seals, lighting, and ventilation is documented. Any deficiencies noted are prioritized and scheduled for repair accordingly.

CES personnel have been very diligent in monitoring condensate return quality. When unacceptable levels of iron and hardness contamination are discovered, the condensate return is placed to drain either in the customers building or in the EDS tunnel. This water is not suitable for use in the boilers. Since CES has limited control over what the MNDES customers return, alternative remedies continue to be explored for this problem.

When the customer meter readings are taken for the preceding month, the readings are reviewed. If they vary 30% high or low, from their three-year average, Instrumentation personnel check the questionable metering devices for calibration as required in the customer buildings.

The air compressor in the Andrew Jackson Building mechanical room, which operates the Pressure Reducing Valve on the State steam loop, is inspected monthly and maintenance is performed as required. An alarm on this air compressor is tested on a regular basis. Sump pump alarms in Manhole D, Manhole 18 and in the AAB Tunnel are also tested periodically. Tempering Stations on the condensate return system in the Fairlane Hotel and in the Municipal Auditorium are inspected for proper operation monthly.

The chilled water loop is being treated with a biocide to kill localized bacteria at customer interfaces. Samples are being taken at several customer buildings periodically and tests indicate an improvement has been made. Bacteria levels remain below the acceptable limits. A new side stream filter was installed at the EGF in March 2023 and became operational in May 2023.



Repairs and Replacements

Some repairs can be made without disrupting service to the customers while others require sections of the system to be shut down. When possible, CES will hire an on-line leak repair contractor to facilitate steam leak repairs without interrupting service to the MNDES customers. Several expansion joints, valves and flanges were repaired throughout the system during the past year using this technique.

Most jobs performed in the EDS require off duty police officers to perform security and traffic control. The following are examples of the routine maintenance and emergency repairs that have been performed on the EDS in FY22-23.

July 2022

- Checked calibration on 6" RTD's for MCCC
- Performed setup on spare Cx Panel
- Assisted TEG with review of MNDES Service Lines in TN Tower Gold Lot
- Assisted Contractor with review of W-18 bracket repairs in State Tunnel
- Checked sump pumps & pumped out steaming manholes
- Replaced gasket on #2 Condensate Pump in M/H 18
- Replaced nipple on #3 Condensate Pump in M/H 18
- Removed tree limbs & debris from M/H N2
- Restored comms with Parkway Tower
- Investigated source of condensate hardness in State loop
- Assisted Siemens with review of M/H 18 Condensate Pump & VFD controls (DES-198)
- Assisted TEG with review of completed work in M/H 5 (DES-178)

August 2022

- Assisted TEG with review of grounding issue at James K. Polk Building
- Assisted TEG with review of W18 bracket repairs in State Tunnel
- Checked sump pumps & pumped out steaming manholes
- Assisted Insulation contractors with access to Manhole 5 for pre-bid
- Rewired motor on 7th Avenue Tunnel ventilation fan
- Repaired Coupon Station at Renaissance Hotel
- Picked up Manhole Frames and Lids from John Bouchard
- Assisted Contractor with Insulation Blanket Installation at Manholes 3 & 4



September 2022

- Assisted Contractor with review of grounding issue at James K. Polk Building
- Assisted TEG with review of Tunnel Projects, Manhole N1, etc.
- Checked sump pumps & pumped out steaming manholes
- Assisted Contractor with installation of steam trap at Manhole 13
- Repaired floats on sump pumps in Manhole B
- Repaired Coupon Station at Renaissance Hotel
- Cleaned State Tunnel and EDS Tunnel
- Assisted Contractor with Insulation Blanket Installation at Manholes 3 & 4
- Tunnel Electrical and Mechanical Walkthrough List Repairs
- Reviewed Project with Enecon (DES-180)
- Assisted Contractor with mechanical room access (DES-191)
- Assisted Contractor with Installation of Sparge Tube (DES-199)

October 2022

- MH 18 Sump Pump Check Valve Replacement
- MH B Sump Pump Will not shut off/ float adjustment
- Checked sump pumps & pumped out steaming manholes
- Renaissance Ballroom IP Connection Repairs
- Emergency Light Replacement at A.A. Birch Tunnel
- Tunnel Electrical and Mechanical Walkthrough List Repairs
- Purchased Steam Traps

November 2022

- Customer Building Meter Calibrations
- Calibrated RTD's
- MH B Sump Pump Will not shut off/ float adjustment
- Checked sump pumps & pumped out steaming manholes
- Replaced float on MH B Sump Pump
- Replaced MH 18 Sump Pump Check Valve

December 2022

- Customer Building Meter Calibrations
- Calibrated RTD's
- Replaced float on MH 9 Sump Pump
- Checked sump pumps & pumped out steaming manholes
- Replaced battery on Hydraulic Pump
- Replaced MH 18 Sump Pump Check Valve
- Removed damaged 7th Avenue Ventilation Fan



January 2023

- Customer Building Meter Calibrations
- Calibrated RTD's
- Checked sump pumps & pumped out steaming manholes
- Investigated War Memorial Building Future Metering Requirements
- Set up A.A. Birch Sump Pump Alarm Auto Dialer
- Investigated 7th Avenue Ventilation Fan Replacement Options

February 2023

- Customer Building Meter Calibrations
- Calibrated RTD's
- Checked sump pumps & pumped out steaming manholes
- Investigated War Memorial Water Infiltration
- Tunnel Electrical/Lighting Repairs
- Investigated 7th Avenue Ventilation Fan Replacement Options
- Repaired A.A. Birch Sump Pump

March 2023

- Customer Building Meter Calibrations
- Calibrated RTD's
- Checked sump pumps & pumped out steaming manholes
- Repair MH-9 Sump Pump Floats
- Ordered Material to replace manhole lid and frame (Qty.1)
- AA Birch Tunnel/MH-D2 Pumped
- Bridgestone Arena meter investigated.

April 2023

- Customer Building Meter Calibrations
- Calibrated RTD's
- Checked sump pumps & pumped out steaming manholes
- Manhole B2 Sump Pump Discharge Line Investigation
- Reviewed State Tunnel R&I work with TEG
- Installed Scaffold over service lines near 5th& Broad entrance to EDS Tunnel

May 2023

- Customer Building Meter Calibrations
- Calibrated RTD's
- Checked sump pumps & pumped out steaming manholes
- Cleaned out Manhole 18
- Replaced belt on Hydraulic Water Pump
- Tunnel Electrical/Lighting Repaired
- Replaced Block and bleed valves at Symphony & Municipal Auditorium



June 2023

- Checked sump pumps & pumped out steaming manholes
- Assisted with Project Work/Bids
- Andrew Jackson Air Compressor Repairs
- Tunnel Electrical/Lighting Repairs
- Switched Steam Meter from winter to summer- Bridgestone Arena
- Checked Condensate System for Source of Hardness
- Customer Building Meter Calibrations
- Calibrated RTD's

Annual maintenance costs for EDS activities: \$327,979.61 (excludes salaried personnel & corporate overhead).

DES Projects

Below is a brief description of the MNDES projects performed during FY22-23 in various stages of completion.

DES-177 Manhole B1 Ladder & Platform

A Pre-bid meeting was held on June 15, 2021, to review the Bid drawings and documents and visit the job site. Bids were received on June 25, 2021, from all 4 bidders. The project was awarded to S. M. Lawrence and the submittals were sent to TEG for review. Metro decided to cancel this project in March 2023.

DES-178 Manhole 5 Coatings and Repairs

The Coating portion of this work began on June 16,2022 and was completed on June 25, 2022. The insulation portion was bid on September 2, 2022, and a Change Order #1 for this part of the project was sent to TEG for review on November 8, 2022. The Change Order was approved on November 22, 2022. CES has issued the Purchase order to the Insulating Contractor and blankets are scheduled to be delivered the first week of June. Installation is expected to begin shortly following delivery.

DES-180 State Tunnel Pipe Support Repairs

The Phase 1 project to have Enecon clean and coat various pipe supports in the State Tunnel was sent to TEG for review and approval on September 23, 2022. The proposal for this project was approved by Metro on April 27, 2023. The project work began May 22, 2023 and was completed on June 6, 2023. A representative from TEG reviewed the work and punch list items were completed satisfactorily during the walkthrough. CES has invoiced Metro for this work.



DES-191 Manhole 20 Repairs

This project was awarded to TN Underground and excavation began on September 14, 2022. The re-routing of the conduit, installation, and core drilling of the new upper section of the vault was completed on September 19, 2022. The excavation was backfilled, and paving was completed on September 20, 2022. The mechanical tie ins took place the first week in January 2023. A meeting was held with TN Underground and their mechanical contractor to review the remainder of their work April 28, 2023.

DES-194 Manhole B4 Structural Steel and Insulation Repairs

A Pre-bid Meeting and walkthrough of the project was conducted on January 25, 2023, with Mechanical, Insulation and Coating Contractors. Bids were received on February 14, 2023. A proposal was sent to Metro on February 24, 2023 for review and approval. Metro approved on March 2, 2023 and the Contracts were finalized with the vendors on March 23, 2023. The coating portion of the project began on April 24, 2023 and was completed on April 28, 2023. TEG reviewed this portion on April 28, 2023, and the punch list items were completed while their representative was present. The Insulation Contractor began their portion of this project on May 15, 2023 and was completed on June 1, 2023 except for the blankets which were sent back to the manufacturer for modifications. These blankets are scheduled to be installed on July 12, 2023.

DES-196 Manhole 9 to Manhole 10 Condensate Line Replacement

A Pre-bid Meeting and walkthrough of this project was held on May 31, 2023. This project will include the replacement of a substantial portion of the condensate piping from Manhole 9 to Manhole 10 as well as additional small sections to the west of Manholes 10 and 11. The bids were received on June 27, 2023.

DES-198 M/H 18 Condensate Return Pump Replacement

The pumps for this project have been received. The VFD's were delivered in mid-October. TEG issued preliminary drawings for the controls on May 27, 2022. Siemens reviewed the control scheme and provided a quote for this portion of the project. Due to the late delivery of the VFD's and the heating season, a decision was initially made to delay this project. A Pre-bid Meeting was held on June 13, 2023 and bids were received on June 23, 2023. The contract is expected to be finalized with the Contractor the first week of July 2023.

DES-199 Manhole D3 Sparge Tube and Condensate Pipe Support Installation

The project to install a sparge tube and condensate line support was approved by Metro and installation began in early September 2022. A discrepancy was noted by TEG regarding the pipe support during the walkthrough in October 2022. The Contractor made the modifications to the pipe support that were requested in November 2022. This project has been completed.



DES-200 Chilled Water System Side Stream Filter

The piping for the side stream filter began in late January 2023. Materials were received the first week of March 2023 and the majority of the piping and electrical has been completed as of this report. The commissioning of the unit began on May 9, 2023 and was completed later that day. A representative from TEG reviewed the initial installation and issued a punch list. Punch list items have been completed except for the backwash meter which is expected to be installed in mid-July 2023.

DES-204 MNDES Building Sign Replacement

The Sign Contractor requested approval of the MNDES Signs on August 15, 2022. Metro gave approval on August 31, 2022. The Change Order for a larger sign on the Korean Veterans side of the building was approved. Sign installation began on November 28, 2022, with the installation of the Peabody Street and Hermitage Avenue facing signs completed the same day. The Korean Veterans facing sign was completed in early January 2023. This project has been completed.

DES-205 January 2023 Chilled Water Outage

The planned chilled water system outage was formally agreed to by all parties to address valves at 5th and Union as well as vent valves in MH-15. Due to the emergency nature of the leak at 5th and Union, MTI was contacted to dig the site and they excavated on December 27-28, 2022. This shutdown was completed on January 4, 2023, with the vent valves being removed and plugs installed in their place. One Corporation stop valve was removed and replaced with a plug and the other corporation valve was replaced with a functional corporation valve that was closed and plugged. Drain lines were removed the same day. Additional work, including mechanical joints and repairs to some concrete anchors was completed the week of February 8, 2023. The area was backfilled, and the binder and cold mix was installed the same week. Final milling and paving were completed on April 29, 2023. Striping in the crosswalk was completed in May 2023. CES has invoiced metro for this work.

DES-206 7th Avenue Fan Replacement

The 7th Avenue Fan broke apart during operation. After review, the best option was to replace the unit. The fan arrived on April 21, 2023, and the fabric expansion joint was delayed and arrived mid-June 2023. CES has been given approval to proceed with the replacement and once the traffic plan and excavation permits have been issued by Metro the work is anticipated to begin mid July 2023.

DES-207 Manhole N1 Insulation

The insulation contractor, Warren, has been issued a purchase order and has ordered material. Further discussion was had between the Contractor and TEG and revised drawings have been issued for the insulation. A meeting is scheduled for July 7, 2023 to review the project.



DES-208 2023 Steam Outage

CES's CSR is in the process of scheduling a Steam Outage late summer to make repairs to the steam system in the EDS and the Plant. As of this report the outage is to take place September 24- 25, 2023.

DES-209 Manhole B2 Sump Pump Line Excavation

CES personnel met with GPRS personnel on April 17, 2023, to investigate a potential blockage of the discharge line on the Manhole B2 Sump Pump. The investigation indicates a possible blockage approximately 23 feet into the discharge piping. Work is anticipated to begin in FY 2024.

EDS Emergency Repair Projects

DES-205 was initially classified as an Emergency Project (EMR23-001) see information on this project under the MNDES Projects section of this report.



Outstanding Issues and Recommendations

Each year CES meets with Metro representatives in their monthly meetings. As part of this, they discuss outstanding issues and project recommendations. Below is a list of those items.

Outstanding Issues

- State of Tennessee to complete repairs to their steam tunnel.
- Resolve issue regarding CES mark-up on MNDES project work.

Recommendations for FY 24

- Add expansion loops to steam and condensate lines in Broadway tunnel to allow access to tunnel from 5th & Broadway parking garage.
- Build a maintenance platform under the 7th Avenue Tunnel exhaust fan.
- Install safety decking around deaerators and above the boilers toward the cooling tower makeup valve in the EGF.
- Potential projects that should be considered:
 - Automated Oxygen Trim on Boilers
 - o Capacitor Bank on Electrical feed to plant



Sales and Marketing

Due to the amount of development taking place south of Broadway, the potential exists for system expansion. Metro actively markets the remaining capacity of the system.

The following table, furnished by Thermal Engineering Group, Inc. on March 6, 2023 indicates the remaining current system capacity.

System Capacity		
Diversity Factor	66.54%	72.29%
	Chilled Water (tons)	Steam (pph)
Installed capacity including redundant equipment	23,400	260,000
Installed capacity	20,800	195,000
Distribution losses	600	10,948
In-Plant losses (DA,etc.)	-	17,540
Max Allowable Customer Load	20,200	166,512
Maximum System Peaks	18,584	141,135
Net Undiversified Capacity Available for Sale	1,616	25,377
Net Diversified Capacity Available for Sale	2,429	35,105
Diversified Potential for Contract Capacities	34,328	352,798
Contract Capacity for Existing Customers	30,359	284,616
Potential Contract Capacity for Sale	3,969	68,182

Ongoing activities include the following:

- A Sales and Marketing Report is included in the Monthly Operations Report.
- CES participates in meetings and social events with business groups, engineers, and developers throughout the year. They also provide presentations and tours of the EGF to point out the positive attributes of the system.
- Metro is pursuing development opportunities on the East Bank of the Cumberland River which include Oracle and the surrounding developments.



Utilities and Fuel Procurement Natural Gas and Propane

During FY 2022-2023, CES provided proactive support to Metro in the areas of fuel procurement and risk management. Metro, in a collaborative effort with CES, Insight Sourcing Group and International FC Stone Financial Inc., made natural gas and propane procurement recommendations. Procurement decisions were made based upon a matrix of pricing and consumption factors including but not limited to then-current pricing conditions, future pricing conditions, technical and fundamental pricing trends, consumption variances as a function of incremental demand and conservation and budgetary considerations.

Natural gas supply was procured from Constellation NewEnergy-Gas Division, LLC ("CNEG") under the terms and conditions of an agreement between CES and CNEG for a service period extending through June 2025. The costs include the amount paid to CNEG for the cost of gas (including transportation to the Nashville city gate), Piedmont for the cost of transportation from the city gate to the plant, and the risk management fees, but it does not include the Fuel Efficiency Adjustment.

Following is a report of the natural gas and propane purchased in FY2022-2023.

Natural Gas				
Month	Quantity (DT)	J	Jnit Cost	Amount
July, 22	25,091.3	\$	6.2165	\$ 155,980.94
August	27,211.2	\$	7.1861	\$ 195,542.04
September	29,864.0	\$	7.3271	\$ 218,816.78
October	44,695.6	\$	6.1917	\$ 276,742.33
November	60,806.7	\$	5.9907	\$ 364,275.28
December	76,730.2	\$	6.1817	\$ 474,321.54
January, 23	69,983.7	\$	6.2317	\$ 436,114.67
February	54,769.4	\$	6.3137	\$ 345,796.01
March	57,939.4	\$	5.3763	\$ 311,501.30
April	41,451.6	\$	5.3847	\$ 223,205.32
May	32,692.9	\$	5.2358	\$ 171,174.46
June	27,012.3	\$	5.6278	\$ 152,019.90
Total	548,248.3	\$	6.0657	\$ 3,325,490.57



On November 18, 2022, 90,000 gallons of propane was purchased for placement in TARGA's storage facility in the event of a natural gas curtailment due to extreme winter temperatures. Since the plant did not have a natural gas curtailment, the propane was sold back to TARGA March 1, 2023. The net cost is not included in the table below.

The following is a report of propane used during the fiscal year:

Propane			
Month	Quantity (DT)	Unit Cost	Amount
July, 22	-	N/A	\$ -
August	-	N/A	\$ -
September	-	N/A	\$ -
October	-	N/A	\$ -
November	-	N/A	\$ -
December	-	N/A	\$ -
January, 23	33	\$ 9.8493	\$ 325.03
February	8	\$ 10.1571	\$ 81.26
March	-		\$ -
April	-		\$ -
May	-		\$ -
June	-	N/A	\$ -
Total	41	\$ 9.9095	\$ 406.29



Electricity

During FY 22-23, electricity was purchased each month based on the Nashville Electric Service rate schedule. Quantities reported in the Monthly Reports are taken from plant meters. The difference between the plant meter readings and billed quantities have been reconciled in Appendix 4 and Exhibit I of this report.

Electricity				
Month	Quantity (Kwh)	J	Jnit Cost	Amount
July, 22	8,807,568	\$	0.09512	837,766.64
August	8,057,952	\$	0.10543	849,548.67
September	6,094,844	\$	0.09827	598,913.55
October	3,808,000	\$	0.10309	392,576.99
November	3,175,004	\$	0.09898	314,277.33
December	2,734,144	\$	0.10510	287,364.82
January, 23	2,686,348	\$	0.10825	290,799.31
February	2,729,888	\$	0.11341	309,585.07
March	3,086,888	\$	0.09840	303,748.30
April	3,630,060	\$	0.09387	340,768.33
May	5,132,176	\$	0.08879	455,691.60
June	6,349,896	\$	0.09998	634,868.99
Total	56,292,768	\$	0.09976	\$ 5,615,909.60



Water & Sewer

The following table indicates the water purchased during FY22 -23 based on the Metro Water Services rate schedule. The quantities in this table are from the actual water bills. They differ from those reported in the Monthly Reports because the Water Department's billing cycle is not based on the calendar month.

Water & Sewer				
Month	Quantity (Kgal)	J	Jnit Cost	Amount
July, 22	19,151,044	\$	0.00668	\$ 128,001.47
August	21,507,244	\$	0.00669	\$ 143,983.70
September	18,191,360	\$	0.00671	\$ 122,070.24
October	13,792,372	\$	0.00671	\$ 92,522.77
November	8,782,268	\$	0.00674	\$ 59,181.02
December	8,274,376	\$	0.00675	\$ 55,827.31
January, 23	8,379,844	\$	0.00702	\$ 58,864.65
February	7,335,636	\$	0.00697	\$ 51,112.95
March	8,620,700	\$	0.00695	\$ 59,908.80
April	9,982,060	\$	0.00693	\$ 69,181.34
May	8,883,996	\$	0.00694	\$ 61,616.29
June	14,586,000	\$	0.00692	\$ 100,924.18
Total	147,486,900	\$	0.00680	\$ 1,003,194.72



Financial Report

The following is an explanation of the Appendices associated with this financial report.

Appendix 1 – Customer List

This chart lists the number of customers served by the District Energy System (MNDES). The customers are sorted according to three categories:

- Private Customers
- State of Tennessee Customers
- Metropolitan Nashville (Metro) Customers

Appendix 2 – Revenues

This chart summarizes the revenues charged per month by MNDES to each customer for FY22-23.

Appendix 3 – Customer Rate Reconciliation

Monthly Reconciliation charts from July 2022 to June 2023 are found in this appendix. The final chart is a Summary Reconciliation table for FY22-23. These tables detail the amount allocable to customers to the amount allocated to customers. The difference in the allocable amount and the amount allocated to customers is paid by Metro and is called the Metro Funding Amount (MFA).

- Capacity Charge Associated with each customer and their agreed upon contracted capacity amount for chilled water and steam services.
- **System Operator Charge** Includes the system operator's fee which is most of the operations and maintenance costs of the system.
- EDS Improvements Charge —FY22-23 for the annual repair and replacement fund.
- **Metro Incremental Administrative Charge** Per the customer service agreement, these charges are the "actual, reasonable and necessary" cost over and above current Metro operating costs to manage the MNDES system and operator.
- Pass Through Charges
 - Water Treatment & Chemicals actual costs of chemicals to treat water.
 - o **Engineering** The engineering costs required for any non-capital projects, customer related issues, meetings, etc.
 - o **Insurance** The cost to maintain all-risk property insurance and business insurance policies.
 - o **EDS Electricity** The cost of electricity for tunnel lights and safety equipment.
 - o **EDS Surcharge** Surcharge to private initial system customers only to cap their annual cost of any EDS repairs made by Metro
 - Water and Sewer Actual costs charged by Metro Water Services
- Energy Charges
 - o Electricity
 - Natural Gas
 - o **Propane**

Appendix 4 – CES Invoice Reconciliation (FEA)



Exhibit 1 – Performance Guarantee Calculation

Exhibit 2 – Information Technology System Program
Exhibit 3 – Constellation Asset List

Exhibit 4 – Spare Parts Inventory



${\sf Appendix}\ 1-{\sf Customer}\ {\sf List}$

	Metro	Nash	ville District Energy System C	ustoi	ners
Pri	vate	Sta	te	Me	tro
1	Bobby Hotel (fka Wells Fargo)	20	Andrew Jackson	34	A. A. Birch
2	Parkway Tower	21	Cordell Hull	35	Metro Courthouse
3	Sheraton Hotel	22	John Sevier	36	Municipal Auditorium
4	Hermitage Hotel	23	War Memorial	37	Downtown Detention Center (fka CJC)
5	501 Union Building	24	Library & Archives	38	Bridgestone Arena
6	4 th & Church Building	25	Supreme Court	39	Nissan Stadium
7	Fifth-Third Financial Center	26	State Capitol	40	Hume-Fogg High School
8	Renaissance Hotel	27	James K. Polk	41	Nashville Public Library
9	City Space (fka Ren. Office Tower)	28	Citizens Plaza	42	Music City Center
10	St. Mary's Catholic Church	29	Tennessee Tower		
11	Nashville City Center	30	Tennessee State University		
12	Wildhorse Saloon	31	Tennessee Performing Arts Center		
13	Ryman Auditorium	32	Legislative Plaza		
14	Schermerhorn Symphony Center	33	Rachael Jackson		
15	Viridian Residential Tower				
16	Hyatt Place Hotel				
17	Fairlane Hotel (fka 401 Union)				
18	5 th & Broadway (fka Nash Conv Ctr)				
19	Hyatt Centric Hotel				

^{*}fka = formally known as



Appendix 2 – Consumption & Revenues

Metro Nashville District Energy System Revenues Chilled Water and Steam Fiscal Year Ending June 30, 2023

Customer No.	Customer Name		July		August		September	October	November		December	January	February	March		April		May	June (including	True Up)	Total
2	A. A. Birch	\$	67,427.23	\$	68,118.86	\$	54,642.50	\$ 58,362.97	\$ 57,007.83	\$	58,235.15	\$ 60,529.09	\$ 61,213.52	\$ 55,223.89	\$	50,524.31	\$	53,807.80	\$ 60,2	261.07 \$	705,354.22
4	Metro Courthouse	\$	35,982.67	\$	36,277.16	\$	31,817.82	\$ 28,068.15	\$ 26,665.83	\$	28,278.98	\$ 26,898.42	\$ 27,029.39	\$ 25,133.73	\$	25,447.04	\$	27,957.17	\$ 31,7	212.33	350,768.69
7	Parkway Tower	\$	27,533.83	\$	28,400.81	\$	29,840.53	\$ 33,352.88	\$ 34,025.71	\$	37,152.42	\$ 34,885.18	\$ 35,198.83	\$ 32,363.28	\$	29,407.98	\$	24,464.89	\$ 25,5	582.96 \$	372,209.30
9	Bobby Hotel	\$	15,199.94	\$	15,959.82	\$	14,153.42	\$ 10,441.97	\$ 8,618.26	\$	8,320.23	\$ 7,484.53	\$ 7,703.20	\$ 7,873.63	\$	8,962.20	\$	10,305.65	\$ 17,6	632.25 \$	132,655.10
10	Fairlane Hotel	\$	12,494.95	\$	12,258.38	\$	10,790.24	\$ 9,239.06	\$ 9,640.68	\$	10,511.34	\$ 10,172.82	\$ 9,689.81	\$ 9,467.03	\$	9,072.93	\$	9,513.70	\$ 10,	562.23	123,413.17
11	Sheraton Hotel	\$	63,506.50	\$	64,795.45	\$	61,956.61	\$ 58,331.95	\$ 58,019.38	\$	61,109.71	\$ 54,822.58	\$ 52,092.85	\$ 50,589.50	\$	50,360.52	\$	51,478.62	5 58,8	873.49	685,937.16
12	Municipal Auditorium	\$	24,841.95	\$	25,449.80	\$	22,489.94	\$ 23,281.48	\$ 24,401.18	\$	27,802.97	\$ 28,152.76	\$ 24,814.68	\$ 24,391.67	\$	21,142.21	\$	21,432.88	\$ 25,2	235.44 \$	293,436.96
21	Hermitage Hotel	\$	28,713.07	\$	29,692.93	\$	25,315.91	\$ 21,015.31	\$ 21,088.53	\$	22,321.38	\$ 21,020.81	\$ 20,414.97	\$ 21,053.18	\$	20,680.70	\$	21,525.92	\$ 23,9	986.84 \$	276,829.55
24	Criminal Justice Center	\$	35,973.52	\$	41,544.40	\$	37,781.29	\$ 33,790.62	\$ 34,460.71	\$	35,659.86	\$ 34,325.83	\$ 35,175.54	\$ 34,714.91	\$	36,237.85	\$	45,076.00	\$ 52,6	666.88 \$	457,407.41
25	501 Union Building	\$	11,899.99	\$	11,464.13	\$	9,267.57	\$ 9,703.98	\$ 9,741.41	\$	10,102.48	\$ 9,369.45	\$ 9,375.79	\$ 9,199.54	\$	9,458.08	\$	9,950.17	\$ 11,8	852.57	121,385.16
28	4th & Church Building	\$	50,064.85	\$	49,449.72	\$	38,620.44	\$ 46,044.65	\$ 46,704.27	\$	52,518.46	\$ 45,099.56	\$ 42,304.85	\$ 41,779.60	\$	34,971.09	\$	32,244.17	\$ 36,	128.87	515,930.53
29	Fifth-Third Financial Center	\$	40,373.24	\$	41,241.30	\$	29,668.13	\$ 26,284.03	\$ 24,936.38	\$	23,895.50	\$ 23,910.15	\$ 25,011.99	\$ 24,546.31	\$	22,588.05	\$	30,683.75	33,	292.67	346,431.50
32	Renaissance Hotel	\$	105,526.60	\$	117,956.34	\$	116,593.39	\$ 94,304.51	\$ 91,187.74	\$	96,189.47	\$ 95,355.31	\$ 92,319.00	\$ 85,434.66	\$	82,183.70	\$	93,825.17	108,	532.17 \$	1,179,408.06
33	5th & Broadway	\$	85,665.46	\$	87,990.64	\$	69,492.15	\$ 50,781.79	\$ 45,348.60	\$	33,518.94	\$ 40,675.85	\$ 39,812.73	\$ 42,403.39	\$	49,393.98	\$	57,001.51	\$ 69,8	859.36	671,944.40
34	Renaissance Office Tower	\$	15,487.12	\$	15,688.87	\$	12,502.40	\$ 10,615.38	\$ 8,846.14	\$	8,775.77	\$ 8,853.18	\$ 10,141.28	\$ 9,302.82	\$	9,872.54	\$	11,372.97	\$ 13,4	402.29 \$	134,860.76
35	St. Mary's Catholic Church	\$	1,121.20	\$	1,121.20	\$	1,121.20	\$ 1,121.20	\$ 1,121.20	\$	1,121.20	\$ 1,121.20	\$ 1,121.20	\$ 1,121.20	\$	1,121.20	\$	1,121.20	\$ 1,5	121.20 \$	13,454.40
36	Nashville City Center	\$	41,039.44	\$	41,594.90	\$	28,951.96	\$ 24,806.15	\$ 21,536.39	\$	20,723.53	\$ 21,886.24	\$ 21,114.40	\$ 20,791.34	\$	23,668.61	\$	27,779.00	\$ 33,	131.48 \$	327,023.44
38	Wildhorse Saloon	\$	17,793.30	\$	17,930.94	\$	17,528.48	\$ 12,749.00	\$ 13,848.44	\$	11,415.87	\$ 9,597.19	\$ 9,846.66	\$ 10,262.55	\$	11,262.66	\$	11,043.83	5 12,4	460.63	155,739.55
39	Ryman Auditorium	\$	21,935.25	\$	22,621.14	\$	22,148.87	\$ 19,994.51	\$ 18,413.34	\$	19,816.83	\$ 18,728.50	\$ 19,472.60	\$ 18,638.53	\$	18,426.40	\$	18,471.60	\$ 20,9	930.84 \$	239,598.41
40	Bridgestone Arena	\$	156,001.63	\$	171,211.77	\$	150,039.80	\$ 110,590.51	\$ 107,846.93	\$	116,308.16	\$ 123,267.88	\$ 96,497.43	\$ 89,585.89	\$	97,032.20	\$	87,085.95	\$ 96,2	289.95	1,401,758.10
41	Nissan Stadium	\$	79,095.24	\$	82,614.90	\$	65,022.57	\$ 44,662.27	\$ 36,884.15	\$	32,431.90	\$ 32,222.29	\$ 31,114.70	\$ 34,577.46	\$	42,094.25	\$	51,182.52	\$ 63,6	667.57	595,569.82
43	Hume-Fogg High School	\$	19,256.42	\$	20,459.75	\$	12,242.09	\$ 8,796.56	\$ 10,955.50	\$	11,947.06	\$ 12,780.35	\$ 15,098.26	\$ 13,185.24	\$	8,570.86	\$	9,907.70	\$ 10,2	219.93	153,419.72
44	Schermerhorn Symphony Center	\$	42,202.44	\$	43,401.53	\$	39,437.28	\$ 34,069.83	\$ 31,393.43	\$	35,094.81	\$ 32,342.51	\$ 31,491.78	\$ 33,050.24	\$	29,624.69	\$	33,237.59	5 41,5	591.07	426,937.20
45	Nashville Public Library	\$	34,752.55	\$	37,290.91	\$	37,006.64	\$ 37,517.37	\$ 37,825.28	\$	36,813.97	\$ 37,473.85	\$ 35,961.33	\$ 33,311.15	\$	32,598.95	\$	31,504.13	\$ 32,6	685.40 \$	424,741.53
49	Viridian Residential Tower	\$	25,470.61	\$	24,848.89	\$	22,665.56	\$ 19,323.44	\$ 17,870.20	\$	17,037.57	\$ 17,031.97	\$ 17,321.21	\$ 17,529.13	\$	18,011.84	\$	19,423.58	\$ 21,9	963.39	238,497.39
50	Music City Center	\$	294,706.18	\$	288,285.34	\$	255,598.96	\$ 237,447.39	\$ 228,018.99	\$	252,178.60	\$ 233,214.13	\$ 228,863.39	\$ 237,382.71	\$	223,241.29	\$	220,723.43	\$ 251,9	507.52	2,951,167.93
51	Hyatt Place Hotel	\$	26,674.81	\$	27,814.09	\$	24,896.61	\$ 21,685.33	\$ 20,696.09	\$	22,092.50	\$ 22,003.57	\$ 22,470.09	\$ 23,388.31	\$	23,565.76	\$	23,532.01	\$ 22,4	484.57	281,303.74
52	Hyatt Centric	\$	15,033.62	\$	13,624.66	\$	11,637.43	\$ 9,941.92	\$ 8,541.94	\$	7,531.17	\$ 7,898.01	\$ 8,938.74	\$ 8,674.77	\$	8,721.79	\$	10,945.68	\$ 12,8	849.82	124,339.55
S1	State Government of TN	\$	520,757.91	\$	545,639.63	\$	485,437.06	\$ 467,397.88	\$ 483,643.74	\$	519,584.06	\$ 506,196.78	\$ 474,094.95	\$ 462,031.99	\$	430,352.27	\$	437,655.91	491,5	580.92	5,824,373.10
	Grand Totals	\$:	1,916,531.52	\$ 1	1,984,748.26	\$:	1,738,666.85	\$ 1,563,722.09	\$ 1,539,288.27	\$ 1	1,618,489.89	\$ 1,577,319.99	\$ 1,505,705.17	\$ 1,477,007.65	\$ 1	,428,595.95	\$ 1	1,484,254.50	1,691,9	565.71 \$	19,525,895.85



Appendix 3 – Customer Rate Reconciliation

Metro Nashville District Energy System Revenues Chilled Water and Steam Fiscal Year Ending June 30, 2023

Customer Number	Customer Name	Capacity	Operating		EDS Improvement	Metro Incremental	Water And Sewer	Chemical Treatment		Engineering	Insurance	EDS Electricity	EDS Maint Costs Alloc	TIFS	Electricity	Natural Gas	Propane	Total
2	A. A. Birch	\$ 116,286.72	\$ 175,583.8		9,505.44	22,459.44	33,765.99	\$ 7,091.78		1,989.67 \$	1,294.83	3,195.21	\$ -	\$ 12,851.56	\$ 205,048.13		\$ 17.49	
4	Metro Courthouse	\$ 55,050.00	\$ 81,933.3		4,435.44	5 10,480.30	5 18,894.22	\$ 4,038.49		935.18 \$	605.65	1,491.01	\$ -	\$ 1,438.80	\$ 106,212.13			
7	Parkway Tower	\$ 50,187.36	\$ 79,481.6	4 \$	4,302.72	10,166.79	21,218.26	\$ 4,744.83	\$	879.91 \$	581.65	1,446.38	\$ 9,255.12	\$ 258.92			\$ 11.05	\$ 372,209.30
9	Bobby Hotel	\$ 18,498.72	\$ 28,809.8		1,559.64	3,685.13	7,732.81	\$ 1,386.29		321.57 \$	211.39	524.28	\$ 3,324.00	\$ 786.56				
10	Fairlane Hotel	\$ 19,186.92	\$ 29,687.7		1,607.16		6,517.07		•	332.36 \$	218.06		\$ 4,050.00	\$ 1,935.29	\$ 37,549.91			
11	Sheraton Hotel	\$ 105,896.76	\$ 159,659.4) \$	8,643.24	20,422.46	31,723.69	\$ 7,426.37		1,810.56 \$	1,177.68	2,905.42	\$ 16,052.04	\$ 5,761.18	\$ 173,072.33		\$ 17.39	
12	Municipal Auditorium	\$ 53,141.88	\$ 84,834.4	В \$	4,592.52	10,851.50	5 10,648.92		\$	935.62 \$	620.05	1,543.78	\$ -	\$ 1,013.50			\$ 10.43	
21	Hermitage Hotel	\$ 51,150.00	\$ 74,867.5	2 \$	4,053.00	9,576.47	12,508.86	\$ 2,496.98	\$	861.71 \$	554.97	1,362.42	\$ 3,612.96	\$ 4,773.97	\$ 73,453.81	\$ 37,552.24	\$ 4.64	\$ 276,829.55
24	Criminal Justice Center	\$ 86,490.36	\$ 123,101.2		6,664.20	15,746.20	16,329.98	*		1,437.07 \$	916.86	2,240.16	\$ -	\$ 890.97	\$ 91,234.22		\$ 10.96	
25	501 Union Building	\$ 20,167.20	\$ 30,179.5	2 \$	1,633.80	3,860.43	5,400.14			343.61 \$	222.89	549.21	\$ 3,036.96	\$ -	\$ 37,455.56		\$ 2.26	
28	4th & Church Building	\$ 277,366.44	\$ -	\$	- 9	- :	23,194.96			1,127.66 \$	740.68	-	\$ -	\$ 793.21	\$ 133,726.01		\$ 11.48	
29	Fifth-Third Financial Center	\$ 61,632.00	\$ 111,660.7	2 \$	6,044.88	14,282.83	13,328.93	\$ 1,974.03	\$ 1	1,161.21 \$	800.94	2,031.96	\$ 10,266.96	\$ 9,574.42	\$ 113,672.62	\$ -	\$ -	\$ 346,431.50
32	Renaissance Hotel	\$ 159,767.88	\$ 235,784.2	В \$	12,764.40	30,159.81	70,209.38	\$ 15,580.96	\$ 2	2,702.43 \$	1,745.37	4,290.73	\$ 19,086.96	\$ 1,745.95	\$ 343,828.85	\$ 281,707.91	\$ 33.15	\$ 1,179,408.06
33	5th & Broadway	\$ 70,909.32	\$ 128,468.6	4 \$	6,954.72	16,432.73	\$ 59,005.25	\$ 9,035.26	\$ 1	1,336.00 \$	921.50	2,337.84	\$ -	\$ 16,913.88	\$ 359,629.26	\$ -	\$ -	\$ 671,944.40
34	Renaissance Office Tower	\$ 15,068.28	\$ 27,299.6	4 \$	1,477.92	3,491.98	\$ 11,470.33	\$ 1,801.96	\$	283.89 \$	195.82	496.79	\$ 2,966.04	\$ 723.79	\$ 69,584.32	\$ -	\$ -	\$ 134,860.76
35	St. Mary's Catholic Church	\$ 13,020.36	\$ -	\$	- 5	5 - !	\$ -	\$ -	\$	- \$	- :	-	\$ 434.04	\$ -	\$ -	\$ -	\$ -	\$ 13,454.40
36	Nashville City Center	\$ 50,227.44	\$ 90,998.6	4 \$	4,926.24	11,639.87	\$ 17,670.65	\$ 2,629.73	\$	946.35 \$	652.73	1,655.96	\$ 9,833.04	\$ 906.21	\$ 134,936.58	\$ -	\$ -	\$ 327,023.44
38	Wildhorse Saloon	\$ 18,697.92	\$ 29,806.4	4 \$	1,613.52	3,812.60	9,713.28	\$ 1,973.01	\$	329.03 \$	217.90	542.40	\$ 2,384.88	\$ 2,849.44	\$ 53,455.61	\$ 30,341.44	\$ 2.08	\$ 155,739.55
39	Ryman Auditorium	\$ 19,290.24	\$ 31,260.9	5 \$	1,692.36	3,998.65	17,645.16	\$ 3,918.12	\$	342.24 \$	227.95	568.88	\$ 2,312.88	\$ 573.22	\$ 92,879.76	\$ 64,881.20	\$ 6.79	\$ 239,598.41
40	Bridgestone Arena	\$ 207,742.68	\$ 337,541.6	4 \$	18,273.24	43,175.85	\$ 89,213.55	\$ 16,877.32	\$ 3	3,691.44 \$	2,460.31	6,142.46	\$ -	\$ 449.98	\$ 490,296.28	\$ 185,873.58	\$ 19.77	\$ 1,401,758.10
41	Nissan Stadium	\$ 88,636.56	\$ 160,585.8	\$ 0	8,693.52	20,541.01	40,915.69	\$ 5,909.54	\$ 1	1,670.07 \$	1,151.88	2,922.28	\$ -	\$ 1,121.52	\$ 263,421.95	\$ -	\$ -	\$ 595,569.82
43	Hume-Fogg High School	\$ 29,518.92	\$ 45,850.5	5 \$	2,482.20	5,864.78	4,789.33	\$ 1,112.33	\$	512.47 \$	336.58	834.37	\$ -	\$ 4,822.46	\$ 32,287.22	\$ 25,005.08	\$ 3.42	\$ 153,419.72
44	Schermerhorn Symphony Center	\$ 202,150.68	\$ -	\$	- 9	\$ -	\$ 18,432.17	\$ 4,385.11	\$	806.47 \$	532.64	-	\$ -	\$ -	\$ 114,514.14	\$ 86,108.46	\$ 7.53	\$ 426,937.20
45	Nashville Public Library	\$ 91,647.72	\$ -	\$	- 9	5 - !	\$ 37,773.40	\$ 7,602.89	\$ 1	1,277.38 \$	833.98	; -	\$ -	\$ 26.73	\$ 195,972.67	\$ 89,594.58	\$ 12.18	\$ 424,741.53
49	Viridian Residential Tower	\$ 164,602.68	\$ -	\$	- 9	\$ -	\$ 8,138.89	\$ 1,193.28	\$	570.00 \$	393.17	-	\$ -	\$ 15,102.28	\$ 48,497.09	\$ -	\$ -	\$ 238,497.39
50	Music City Center	\$ 930,813.36	\$ 122,949.0	\$ 0	- 5	79,785.62	\$ 159,333.60	\$ 36,696.35	\$ 9	9,304.62 \$	6,150.78	-	\$ -	\$ 3,280.41	\$ 902,069.07	\$ 700,710.50	\$ 74.62	\$ 2,951,167.93
51	Hyatt Place Hotel	\$ 146,510.88	\$ -	\$	- 9	5 -	5 10,318.44	\$ 2,768.79	\$	653.01 \$	415.00		\$ -	\$ 2,324.69	\$ 54,629.67	\$ 63,677.40	\$ 5.86	\$ 281,303.74
52	Hyatt Centric	\$ 61,140.00	\$ -	\$	- 9	\$ -	7,875.18	\$ 1,195.28	\$	283.89 \$	195.82	; -	\$ -	\$ 3,907.86	\$ 49,741.52	\$ -	\$ -	\$ 124,339.55
S1	State Government of TN	\$ 1,639,133.76	\$ 1,393,343.5	2 \$	- 5	\$ -	\$ 232,911.46	\$ 54,986.25	\$	- \$	9,175.44	22,628.27	\$ -	\$ 63,342.49	\$ 1,296,132.56	\$ 1,112,576.30	\$ 143.05	\$ 5,824,373.10
1	Grand Totals	\$ 4,823,933.04	\$ 3,583,688.5	2 \$	111,920.16	344,231.83	\$ 996,679.59	\$ 210,712.43	\$ 36	6,845.42 \$	33,552.52	60,250.07	\$ 86,615.88	\$ 158,169.29	\$ 5,704,933.11	\$ 3,373,958.65	\$ 405.34	\$ 19,525,895.85
1	Rate Calculation Totals	\$ 5,719,551.12	\$ 4,922,088.4	В \$	184,376.04	431,898.04	996,985.80	\$ 210,827.76	\$ 36	6,562.00 \$	33,584.28	61,977.36	\$ 86,615.88	\$ 158,169.29	\$ 5,705,870.76	\$ 3,378,375.41	\$ 406.29	\$ 21,927,288.51
	Deviation	\$ (895,618.08)	\$ (1,338,399.9)	5) \$	(72,455.88)	(87,666.21)	\$ (306.21)	\$ (115.33)) \$	283.42 \$	(31.76)	(1,727.29)	\$ -	\$ -	\$ (937.65)	\$ (4,416.76)	\$ (0.95)	\$ (2,401,392.66)



Metro Nashville District Energy System Revenues Chilled Water and Steam July, 2022

Customer Number	Customer Name	Capacity	Operating	EDS Improvement		Metro Incremental	Water And Sewer		Chemical Treatment	Engineering	Insurance	EDS	EDS Maint Costs Alloc	пг	Electricity		Natural Gas	Propane	Total
2	A. A. Birch	\$ 9,690.56	\$ 14,631.99	792.12	\$	1,962.83	\$ 4,69	4.24	\$ 614.49	\$ 340.13	\$ -	\$ 410.09	\$ -	\$ 276.22	\$ 31,65	5.04	\$ 2,359.52	\$ -	\$ 67,427.23
4	Metro Courthouse	\$ 4,587.50	\$ 6,827.78	369.62	\$	915.92	\$ 2,43	8.84	\$ 368.53	\$ 159.86	\$ -	\$ 191.36	\$ -	\$ 12.90	\$ 16,42	4.43	\$ 3,685.93	\$	\$ 35,982.67
7	Parkway Tower	\$ 4,182.28	\$ 6,623.47	358.56	\$	888.52	\$ 1,73	9.72	\$ 210.22	\$ 150.42	\$ -	\$ 185.63	\$ 771.26	\$ -	\$ 12,42	3.75	\$ -	\$	\$ 27,533.83
9	Bobby Hotel	\$ 1,541.56	\$ 2,400.82	129.97	\$	322.06	\$ 1,17	9.95	\$ 170.13	\$ 54.97	\$ -	\$ 67.29	\$ 277.00	\$ -	\$ 7,68	0.73	\$ 1,375.46	\$	\$ 15,199.94
10	Fairlane Hotel	\$ 1,598.91	\$ 2,473.98	133.9	\$	331.87	\$ 91	1.26	\$ 113.34	\$ 56.82	\$ -	\$ 69.34	\$ 337.50	\$ 87.73	\$ 6,21	8.90	\$ 161.37	\$	\$ 12,494.95
11	Sheraton Hotel	\$ 8,824.73	\$ 13,304.95	720.27	\$	1,784.81	\$ 4,13	5.59	\$ 607.98	\$ 309.51	\$ -	\$ 372.89	\$ 1,337.67	\$ -	\$ 26,70	3.22	\$ 5,404.88	\$	\$ 63,506.50
12	Municipal Auditorium	\$ 4,428.49	\$ 7,069.54	382.7	\$	948.36	\$ 1,33	6.66	\$ 161.52	\$ 159.94	\$ -	\$ 198.13	\$ -	\$ -	\$ 10,15	6.60	\$ -	\$ -	\$ 24,841.95
21	Hermitage Hotel	\$ 4,262.50	\$ 6,238.96	337.79	\$	836.93	\$ 1,90	4.54	\$ 254.94	\$ 147.30	\$ -	\$ 174.85	\$ 301.08	\$ 282.45	\$ 12,73	3.50	\$ 1,238.27	\$ -	\$ 28,713.07
24	Criminal Justice Center	\$ 7,207.53	\$ 10,258.44	5 555.35	\$	1,376.13	\$ 1,68	9.45	\$ 272.36	\$ 245.65	\$ -	\$ 287.51	\$ -	\$ -	\$ 10,67	4.79	\$ 3,406.31	\$ -	\$ 35,973.52
25	501 Union Building	\$ 1,680.60	\$ 2,514.96	136.19	\$	337.38	\$ 78	5.55	\$ 98.49	\$ 58.73	\$ -	\$ 70.49	\$ 253.08	\$ -	\$ 5,78	6.52	\$ 178.04	\$ -	\$ 11,899.99
28	4th & Church Building	\$ 23,113.87	\$ - \$	5 -	\$	-	\$ 3,34	4.46	\$ 404.13	\$ 192.77	\$ -	\$ -	\$ -	\$ -	\$ 23,00	9.62	\$ -	\$ -	\$ 50,064.85
29	Fifth-Third Financial Center	\$ 5,136.00	\$ 9,305.06	5 503.74	\$	1,248.24	\$ 2,24	2.96	\$ 271.03	\$ 198.50	\$ -	\$ 260.79	\$ 855.58	\$ 332.14	\$ 20,01	9.20	\$ -	\$ -	\$ 40,373.24
32	Renaissance Hotel	\$ 13,313.99	\$ 19,648.69	1,063.70	\$	2,635.80	\$ 9,56	7.96	\$ 1,372.23	\$ 461.97	\$ -	\$ 550.69	\$ 1,590.58	\$ -	\$ 44,53	2.27	\$ 10,788.72	\$ -	\$ 105,526.60
33	5th & Broadway	\$ 5,909.11	\$ 10,705.72	5 579.56	\$	1,436.13	\$ 8,22	9.73	\$ 994.44	\$ 228.38	\$ -	\$ 300.04	\$ -	\$ 764.28	\$ 56,51	8.07	\$ -	\$ -	\$ 85,665.46
34	Renaissance Office Tower	\$ 1,255.69	\$ 2,274.97	123.16	\$	305.18	\$ 1,34	0.60	\$ 161.99	\$ 48.53	\$ -	\$ 63.76	\$ 247.17	\$ 24.71	\$ 9,64	1.36	\$ -	\$ -	\$ 15,487.12
35	St. Mary's Catholic Church	\$ 1,085.03	\$ - \$	5 -	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -	\$ 36.17	\$ -	\$	- 5	\$ -	\$ -	\$ 1,121.20
36	Nashville City Center	\$ 4,185.62	\$ 7,583.22	\$ 410.52	\$	1,017.26	\$ 2,82	0.78	\$ 340.85	\$ 161.77	\$ -	\$ 212.53	\$ 819.42	\$ -	\$ 23,48	7.47	\$ -	\$ -	\$ 41,039.44
38	Wildhorse Saloon	\$ 1,558.16	\$ 2,483.87	\$ 134.46	\$	333.20	\$ 1,33	4.09	\$ 218.32	\$ 56.24	\$ -	\$ 69.62	\$ 198.74	\$ 136.66	\$ 8,41	8.03	\$ 2,851.91	\$ -	\$ 17,793.30
39	Ryman Auditorium	\$ 1,607.52	\$ 2,605.08	141.0	\$	349.46	\$ 1,87	5.18	\$ 279.75	\$ 58.51	\$ -	\$ 73.01	\$ 192.74	\$ -	\$ 12,09	8.75	\$ 2,654.22	\$ -	\$ 21,935.25
40	Bridgestone Arena	\$ 17,311.89	\$ 28,128.47	1,522.77	, \$	3,773.33	\$ 11,47	0.97	\$ 1,753.33	\$ 631.03	\$ -	\$ 788.35	\$ -	\$ -	\$ 72,28	6.43	\$ 18,335.06	\$ -	\$ 156,001.63
41	Nissan Stadium	\$ 7,386.38	\$ 13,382.15	5 724.46	\$	1,795.17	\$ 7,19	4.26	\$ 869.32	\$ 285.48	\$ -	\$ 375.05	\$ -	\$ 20.77	\$ 47,06	2.20	\$ -	\$ -	\$ 79,095.24
43	Hume-Fogg High School	\$ 2,459.91	\$ 3,820.88	206.89	\$	512.55	\$ 80	0.22	\$ 193.27	\$ 87.60	\$ -	\$ 107.09	\$ -	\$ 303.22	\$ 5,94	2.82	\$ 4,822.01	\$ -	\$ 19,256.42
44	Schermerhorn Symphony Center	\$ 16,845.89	\$ - \$	\$ -	\$	-	\$ 2,02	3.29	\$ 374.30	\$ 137.86	\$ -	\$ -	\$ -	\$ -	\$ 16,33	9.84	\$ 6,481.26	\$ -	\$ 42,202.44
45	Nashville Public Library	\$ 7,637.31	\$ - \$	\$ -	\$	-	\$ 3,38	3.06	\$ 421.71	\$ 218.36	\$ -	\$ -	\$ -	\$ -	\$ 22,44	7.25	\$ 644.86	\$ -	\$ 34,752.55
49	Viridian Residential Tower	\$ 13,716.89	\$ - \$	\$ -	\$	-	\$ 1,34	8.73	\$ 162.97	\$ 97.44	\$ -	\$ -	\$ -	\$ 905.31	\$ 9,23	9.27	\$ -	\$ -	\$ 25,470.61
50	Music City Center	\$ 77,567.78	\$ 10,245.75	\$ -	\$	6,972.82	\$ 18,54	5.58	\$ 3,062.59	\$ 1,590.57	\$ -	\$ -	\$ -	\$ -	\$ 135,69	8.36	\$ 41,022.73	\$ -	\$ 294,706.18
51	Hyatt Place Hotel	\$ 12,209.24	\$ - \$	\$ -	\$	-	\$ 1,26	6.68	\$ 245.05	\$ 111.63	\$ -	\$ -	\$ -	\$ 49.25	\$ 8,20	0.29	\$ 4,592.67	\$ -	\$ 26,674.81
52	Hyatt Centric	\$ 5,095.00	\$ - \$	5 -	\$		\$ 1,14	3.55	\$ 138.18	\$ 48.53	\$ -	\$ -	\$ -	\$ 336.27	\$ 8,27	2.09	\$ -	\$ -	\$ 15,033.62
51	State Government of TN	\$ 136,594.48	\$ 116,111.96 \$	\$ -	\$	-	\$ 27,27	4.93	\$ 4,221.82	\$ -	\$ -	\$ 2,904.20	\$ -	\$ 2,317.82	\$ 185,09	6.98	\$ 46,235.72	\$ -	\$ 520,757.91
	Grand Totals	\$ 401,994.42	\$ 298,640.71	9,326.68	\$	30,083.95	\$ 126,02	2.83	\$ 18,357.28	\$ 6,298.50	\$ -	\$ 7,732.71	\$ 7,217.99	\$ 5,849.73	\$ 848,76	7.78	\$ 156,238.94	\$	\$ 1,916,531.52
	Rate Calculation Totals	\$ 476,629.26	\$ 410,174.04	\$ 15,364.67	\$	38,072.92	\$ 126,05	1.29	\$ 18,360.79	\$ 6,250.00	\$ -	\$ 7,954.34	\$ 7,217.99	\$ 5,849.73	\$ 848,88	8.52	\$ 156,238.93	\$ -	\$ 2,117,052.48
1	Deviation:	\$ (74,634.84)	\$ (111,533.33) \$	(6,037.99) \$	(7,988.97)	\$ (2	8.46)	\$ (3.51)	\$ 48.50	\$ -	\$ (221.63)	\$ -	\$ -	\$ (12	0.74) \$	\$ 0.01	\$ -	\$ (200,520.96)



Metro Nashville District Energy System Revenues Chilled Water and Steam August, 2022

Customer Number	Customer Name	Capacity	Operating	EDS Improvement	Metro Incremental	Water And Sewer	Chemical Treatment	Engineering	Insurance	EDS Electricity	EDS Maint Costs Alloc	TFS	Electricity	Natural Gas	Propane	Total
2	A. A. Birch	9,690.56	14,631.99	792.12	1,962.63	5,024.39	631.44	340.13	0	371.8	9 0	479.75	30,916.20	3,277.56	0	\$ 68,118.86
4	Metro Courthouse	4,587.50	6,827.78	369.62	915.92	2,626.13	363.39	159.56	0	173.5	4 0	6.45	15,956.59	4,290.35	0 !	\$ 36,277.16
7	Parkway Tower	4,152.25	6,623.47	355.56	888.52	2,010.03	242.13	150.42	0	165.3	4 771.26	0	12,504.69	501.11	0	\$ 28,400.81
9	Bobby Hotel	1,541.56	2,400.52	129.97	322.05	1,309.51	175.04	54.97	0	61.0	2 277	0	5,024.05	1,663.51	0 !	\$ 15,959.82
10	Fairlane Hotel	1,595.91	2,473.98	133.93	331.87	979.86	117.6	56.82	0	62.8	337.5	108.99	5,845.54	210.5	0	\$ 12,258.38
11	Sheraton Hotel	5,524.73	13,304.95	720.27	1,784.81	4,627.86	629.28	309.51	0	335.10	5 1,337.67	65.77	26,149.08	6,703.36	0 :	\$ 64,795.45
12	Municipal Auditorium	4,428.49	7,069.54	382.71	945.35	1,543.16	181.08	159.94	0	179.6	5 0	0	10,543.75	13.09	0	\$ 25,449.80
21	Hermitage Hotel	4,262.50	6,238.96	337.75	836.93	2,051.45	274.53	147.3	0	158.5	7 301.08	304.6	12,391.29	2,357.97	0 :	\$ 29,692.93
24	Criminal Justice Center	7,207.53	10,255.44	555.35	1,376.13	2,052.30	332.55	245.65	0	260.7	3 0	332.09	11,517.53	7,105.10	0	\$ 41,544.40
25	501 Union Building	1,680.60	2,514.95	136.15	337.35	791.86	95.67	58.73	0	63.93	2 253.05	0	5,312.46	219.32	0 :	\$ 11,464.13
28	4th & Church Building	23,113.57	0	0	0	3,619.36	424.32	192.77	0		0	0	22,099.40	0	0	\$ 49,449.72
29	Fifth-Third Financial Center	5,136.00	9,305.06	503.74	1,245.24	2,422.15	253.97	195.5	0	236.	055.50	462.11	20,559.42	0	0 !	\$ 41,241.30
	Renaissance Hotel	13,313.99	19,648.69	1,063.70	2,635.80	10,132.66	1,326.58	461.97	0	499.3	9 1,590.58	0	56,564.92	10,718.06	0	
33	5th & Broadway	5,909.11	10,705.72	579.56	1,435.13	9,254.52	1,084.97	228.38	0	272.	1 0	897.2	57,622.95	0	0	
	Renaissance Office Tower	1,255.69	2,274.97	123.16	305.18	1,466.24	171.9	48.53	0	57.8	2 247.17	14.12	9,724.09	0	0	
	St. Mary's Catholic Church	1,085.03	0	0	0	0	0	0	0		36.17	0	0	0	0 !	,
36	Nashville City Center	4,185.62	7,583.22	410.52	1,017.26	3,145.29	369.09	161.77	0	192.7	4 519.42	129.46	23,577.51	0	0	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Wildhorse Saloon	1,556.16	2,483.87	134.46	333.2	1,498.30	219.37	56.24	0	63.1	3 198.74	168.64	7,838.19	3,375.64	0 !	
39	Ryman Auditorium	1,607.52		141.03	349.46	2,121.95	291.87	58.51	0					3,331.31	0	,
40	Bridgestone Arena	17,311.59	28,128.47	1,522.77	3,773.33	13,544.92	1,924.80	631.03	0	714.9	2 0	0	80,043.12	23,316.52	0	
	Nissan Stadium	7,386.38		724.46	1,795.17	8,301.67	973.26	285.48		540.11				0	0	
	Hume-Fogg High School	2,459.91		206.85	512.55	975.76	176.57	87.6		97.1	1 0			4,775.31	0 !	
	Schermerhorn Symphony Center	16,845.89		0	0	2,353.93	390.46	137.56				-		5,575.33	0	
	Nashville Public Library	7,637.31		0	0	4,091.85	496.55	218.36				_		1,301.80	0 !	
	Viridian Residential Tower	13,716.59		0	0	1,405.74	105.16	97.44	0			1,012.11		0	0	
	Music City Center	77,567.78		0	6,972.82		3,113.60	1,590.57	0			-	,	49,215.03	0 !	
	Hyatt Place Hotel	12,209.24		0	0	1,405.57	235.4	111.63	0					5,457.76	0	
	Hyatt Centric	5,095.00		0	0	1,094.38	128.3	48.53	0					0	0	25,024.00
51	State Government of TN	136,594.48		0	0	31,205.90	4,421.52	0				-,		55,979.34	0	
	Grand Totals	401,994.42		9,326.68	30,083.95	142,552.79	19,240.40	6,298.50		1,012.4				195,396.32	0 :	7 2,504,740.20
	Rate Calculation Totals	476,629.26		15,364.67	38,072.92	142,586.74	19,244.32	6,250.00		7,213.5				195,396.32	0	-,,
	Deviation	-74,634.84	-111,533.33	-6,037.99	-7,988.97	-33.95	-3.92	48.5	0	-201.0	5 0	0	-129.33	0	0	\$ (200,514.88)



Metro Nashville District Energy System Revenues Chilled Water and Steam

September, 2022

Customer Number Customer Name		Capacity	Operating	0	Improveme nt	Metro Incremental	Water And Sewer	Chemical Treatment	Engineering		Insurance		EDS Electricity	EDS Maint Costs Alloc	TIFS	Electricity		Natural Gas		Propane		Total
2 A. A. Birch	\$	9,690.56 \$	14,631.99	\$	792.12 \$	1,962.83 \$	3,623.93	\$ 545.92	\$ 340.1	3 \$		\$	337.79	-	\$ 988.58	\$ 18,	39.84	\$ 3,188.81	\$	-	\$	54,642.50
4 Metro Courthouse	\$	4,587.50 \$	6,827.78	\$	369.62 \$	915.92 \$	2,228.15	\$ 384.93	\$ 159.8	6 \$		\$	157.62		\$ 12.90	\$ 11,	47.26	\$ 5,026.28	\$	-	\$	31,817.82
7 Parkway Tower	\$	4,182.28 \$	6,623.47	\$	358.56 \$	888.52 \$	2,120.98	\$ 346.28	\$ 150.4	2 \$	-	\$	152.90	771.26	\$ -	\$ 10,	14.00	\$ 3,531.86	\$	-	\$	29,840.53
9 Bobby Hotel	\$	1,541.56 \$	2,400.82	\$	129.97 \$	322.06 \$	1,218.39	\$ 194.97	\$ 54.9	7 \$	-	\$	55.42	277.00	\$ -	\$ 6,	74.80	\$ 1,783.46	\$	-	\$	14,153.42
10 Fairlane Hotel	\$	1,598.91 \$	2,473.98	\$	133.93 \$	331.87 \$	823.35	\$ 120.30	\$ 56.8	32 \$	-	\$	57.11	337.50	\$ 132.92	\$ 4,2	31.26	\$ 492.29	\$	-	\$	10,790.24
11 Sheraton Hotel	\$	8,824.73 \$	13,304.95	\$	720.27 \$	1,784.81 \$	4,027.53	\$ 713.93	\$ 309.5	1 \$	-	\$	307.15	1,337.67	\$ 355.14	\$ 20,0	56.70	\$ 10,214.22	\$	-	\$	61,956.61
12 Municipal Auditorium	\$	4,428.49 \$	7,069.54	\$	382.71 \$	948.36 \$	1,460.62	\$ 199.37	\$ 159.9	94 \$	-	\$	163.20	-	\$ 99.69	\$ 7,5	78.02	\$ -	\$	-	\$	22,489.94
21 Hermitage Hotel	\$	4,262.50 \$	6,238.96	\$	337.75 \$	836.93 \$	1,656.10	\$ 264.53	\$ 147.3	80 \$	-	\$	144.03	301.08	\$ 337.83	\$ 8,3	95.59	\$ 2,393.31	\$		\$	25,315.91
24 Criminal Justice Center	\$	7,207.53 \$	10,258.44	\$	555.35 \$	1,376.13 \$	1,658.21	\$ 353.10	\$ 245.6	5 \$	-	\$	236.82		\$ 48.60	\$ 7,5	955.41	\$ 7,886.05	\$	-	\$	37,781.29
25 501 Union Building	\$	1,680.60 \$	2,514.96	\$	136.15 \$	337.38 \$	602.91	\$ 89.45	\$ 58.7	3 \$	-	\$	58.06	253.08	\$ -	\$ 3,0	91.54	\$ 444.71	\$		\$	9,267.57
28 4th & Church Building	\$	23,113.87 \$	-	\$	- \$	- \$	2,421.26	\$ 330.50	\$ 192.7	77 \$	-	\$	- 1	-	\$ -	\$ 12,5	62.04	\$ -	\$	-	\$	38,620.44
29 Fifth-Third Financial Center	\$	5,136.00 \$	9,305.06	\$	503.74 \$	1,248.24 \$	1,824.89	\$ 249.10	\$ 198.9	0 \$		\$	214.81	855.58	\$ 664.29	\$ 9,	67.92	\$ -	\$		\$	29,668.13
32 Renaissance Hotel	\$	13,313.99 \$	19,648.69	\$	1,063.70 \$	2,635.80 \$	9,087.61	\$ 1,583.78	\$ 461.9	7 \$	-	\$	453.60	1,590.58	\$ -	\$ 45,3	94.05	\$ 21,359.62	\$	-	\$	116,593.39
33 5th & Broadway	\$	5,909.11 \$	10,705.72	\$	579.56 \$	1,436.13 \$	7,790.53	\$ 1,063.40	\$ 228.3	8 \$	-	\$	247.14	-	\$ 1,113.19	\$ 40,4	18.99	\$ -	\$	-	\$	69,492.15
34 Renaissance Office Tower	\$	1,255.69 \$	2,274.97	\$	123.16 \$	305.18 \$	1,288.48	\$ 175.88	\$ 48.5	3 \$	-	\$	52.52	247.17	\$ 45.90	\$ 6,0	84.92	\$ -	\$		\$	12,502.40
35 St. Mary's Catholic Church	\$	1,085.03 \$	-	\$	- \$	- \$		\$ -	\$ -	\$		\$	- 9	36.17	\$ -	\$		\$ -	\$		\$	1,121.20
36 Nashville City Center	Ś	4,185.62 \$	7,583.22	Ś	410.52 \$	1,017.26 \$	2,308.26	\$ 315.08	\$ 161.7	77 \$	-	Ś	175.06	819.42	\$ -	\$ 11,5	75.75	\$ -	\$		\$	28,951.96
38 Wildhorse Saloon	\$	1,558.16 \$	2,483.87	\$	134.46 \$	333.20 \$	1,397.10	\$ 254.06	\$ 56.2	4 \$		\$	57.34	198.74	\$ 188.99	\$ 6,5	24.68	\$ 3,941.64	\$		\$	17,528.48
39 Ryman Auditorium	\$	1,607.52 \$	2,605.08	Ś	141.03 \$	349.46 \$	1,931.83	\$ 348.19	\$ 58.5	1 \$	-	Ś	60.14	192.74	5 6.37	\$ 9,5	90.92	\$ 5,257.08	\$		Ś	22,148.87
40 Bridgestone Arena	\$	17,311.89 \$	28,128.47	\$	1,522.77 \$	3,773.33 \$	12,323.14	\$ 2,027.73	\$ 631.0	3 \$	-	\$	649.35		\$ -	\$ 62,	68.91	\$ 21,503.18	\$	-	\$	150,039.80
41 Nissan Stadium	\$	7,386.38 \$	13,382.15	\$	724.46 \$	1,795.17 \$	6,501.35	\$ 887.43	\$ 285.4	8 \$	-	Ś	308.93	-	\$ 20.77	\$ 33,	30.45	\$ -	\$		\$	65,022.57
43 Hume-Fogg High School	\$	2,459.91 \$	3,820.88	\$	206.85 \$	512.55 \$	571.18	\$ 96.55	\$ 87.6	50 \$		\$	88.21		\$ 373.83	\$ 2,5	868.48	\$ 1,156.05	\$		\$	12,242.09
44 Schermerhorn Symphony Center	\$	16,845.89 \$	-	\$	- \$	- \$	2,349.31	\$ 451.39	\$ 137.8	86 \$	-	\$	- 1	-	\$ -	\$ 11,	20.73	\$ 8,132.10	\$		\$	39,437.28
45 Nashville Public Library	\$	7,637.31 \$		\$	- \$	- \$	3,911.26	\$ 609.84	\$ 218.3	6 \$	-	\$	- (\$ -	\$ 19,5	04.28	\$ 4,725.59	\$	-	\$	37,006.64
49 Viridian Residential Tower	Ś	13,716.89 \$		Ś	- \$	- Ś	1,210.78	\$ 165.27	\$ 97.4	14 \$		Ś	-	-	1,193.37	\$ 6,	81.81	\$ -	Ś		\$	22,665.56
50 Music City Center	Ś	77,567.78 \$	10,245.75	\$	- \$	6,972.82 \$	18,220.94	\$ 3,244.06	\$ 1,590.9	7 \$		Ś	- 1	-	s -	\$ 90,0	66.24	\$ 47,090.80	\$		Ś	255,598.96
51 Hyatt Place Hotel	Ś	12,209.24 \$		Ś	- \$	- S	1,278.70	\$ 249.07	\$ 111.6	3 \$		Ś	-	-	5 157.61	\$ 6,	53.28	\$ 4,637.08	Ś		s	24,896,61
52 Hyatt Centric	\$	5,095.00 \$		\$	- \$	- \$	979.22	\$ 133.66	\$ 48.5	3 \$		\$	- 1		\$ 300.60	\$ 5,0	80.42	\$ -	\$		\$	11,637.43
S1 State Government of TN	\$	136,594.48 \$	116,111.96	\$	- S	- S	25,950.39	\$ 4,593.04	\$ -	\$		\$	2,392.15		5,151.90	\$ 129.	66.29	\$ 65,376.85	\$	-	\$	485,437.06
Grand Totals	\$	401,994.42 \$	298,640.71	\$	9,326.68 \$	30,083.95 \$	120,766.40	\$ 19,990.81	\$ 6,298.5	50 \$		\$	6,369.35	7,217.99	\$ 11,192.48	\$ 608.0	44.58	\$ 218,140.98	\$		\$	1,738,666.85
Rate Calculation Totals	\$	476,629.26 \$	410,174.04	\$	15,364.67 \$	38,072.92 \$	120,797.81	\$ 19,995.74	\$ 6,250.0	00 \$		\$	6,551.88		11,192.48	\$ 608.8	804.54	\$ 218,179.32	\$		\$	1,939,230.65
Deviation	\$	(74,634.84) \$	(111,533.33	\$	(6,037.99) \$	(7,988.97) \$	(31.41)	\$ (4.93)	\$ 48.5	0 \$		\$	(182.53)		\$ -	\$ (59.96)	\$ (38.34)	\$	-	\$	(200,563.80)



Metro Nashville District Energy System Revenues Chilled Water and Steam October, 2022

Number Number Customer Name	Capacity	Operating	EDS mprovement	Metro	потетнетка	Water And Sewer	Chemical Treatment		Engineering		nsurance		EDS Electricity	EDS Maint Costs Alloc	IIS			Electrony	Natural Gas		Propane		Fotal
2 A. A. Birch	\$ 9,690.56	\$ 14,631.99	\$ 792.12	\$ 1	962.83	\$ 2,973.32	\$ 520.36	\$	340.13	\$	-	\$	342.89	\$ -	\$ 1,	221.19	\$ 1	4,004.57	\$ 11,883.01	\$	-	5	58,362.97
4 Metro Courthouse	\$ 4,587.50	\$ 6,827.78	\$ 369.62	\$	915.92	\$ 1,784.77	\$ 291.38	\$	159.86	\$		\$	160.01	\$ -	\$	45.16	\$	7,566.88	\$ 5,359.27	5		5	28,068.15
7 Parkway Tower	\$ 4,182.28	\$ 6,623.47	\$ 358.56	\$	888.52	\$ 2,480.21	\$ 412.61	\$	150.42	\$		\$	155.22	\$ 771.26	\$		\$	9,232.96	\$ 8,097.37	\$		5	33,352.88
9 Bobby Hotel	\$ 1,541.56	\$ 2,400.82	\$ 129.97	\$	322.06	\$ 688.61	\$ 104.85	\$	54.97	\$		\$	56.26	\$ 277.00	\$	44.72	\$	3,393.97	\$ 1,427.18	\$		5	10,441.97
10 Fairlane Hotel	\$ 1,598.91	\$ 2,473.98	\$ 133.93	\$	331.87	\$ 561.84	\$ 82.20	\$	56.82	\$		\$	57.98	\$ 337.50	\$	175.45	\$	2,547.91	\$ 880.67	\$		5	9,239.06
11 Sheraton Hotel	\$ 8,824.73	\$ 13,304.95	\$ 720.27	\$ 1	784.81	\$ 3,208.81	\$ 573.86	\$	309.51	\$		\$	311.80	\$ 1,337.67	\$	802.36	\$ 1	3,288.81	\$ 13,864.37	\$		5	58,331.95
12 Municipal Auditorium	\$ 4,428.49	\$ 7,069.54	\$ 382.71	\$	948.36	\$ 896.19	\$ 163.59	\$	159.94	\$		\$	165.67	\$ -	\$	149.53	\$	4,764.73	\$ 4,152.73	\$		5	23,281.48
21 Hermitage Hotel	\$ 4,262.50	\$ 6,238.96	\$ 337.75	\$	836.93	\$ 997.80	\$ 160.17	\$	147.30	\$		\$	146.21	\$ 301.08	\$	409.83	\$	4,411.78	\$ 2,765.00	\$		5	21,015.31
24 Criminal Justice Center	\$ 7,207.53	\$ 10,258.44	\$ 555.35	\$ 1	376.13	\$ 1,087.46	\$ 235.62	\$	245.65	\$		\$	240.41	\$ -	\$	-	\$	4,404.11	\$ 8,179.92	\$		5	33,790.62
25 501 Union Building	\$ 1,680.60	\$ 2,514.96	\$ 136.15	\$	337.38	\$ 454.64	\$ 77.29	\$	58.73	\$		\$	58.94	\$ 253.08	\$	-	\$	2,507.64	\$ 1,624.57	\$		\$	9,703.98
28 4th & Church Building	\$ 23,113.87	\$ -	\$ -	\$	-	\$ 2,505.58	\$ 429.18	\$ \$	192.77	\$		\$	-	\$ -	\$	-	\$ 1	0,577.52	\$ 9,225.73	\$		5	46,044.65
29 Fifth-Third Financial Center	\$ 5,136.00	\$ 9,305.06	\$ 503.74	\$ 1	,248.24	\$ 873.15	\$ 111.57	\$	198.50	\$	-	\$	218.06	\$ 855.58	\$	996.43	\$	6,837.70	\$ -	\$		\$	26,284.03
32 Renaissance Hotel	\$ 13,313.99	\$ 19,648.69	\$ 1,063.70	\$ 2	,635.80	\$ 6,532.06	\$ 1,100.57	\$	461.97	\$		\$	460.46	\$ 1,590.58	\$	305.99	\$ 2	4,690.13	\$ 22,500.57	\$		5	94,304.51
33 5th & Broadway	\$ 5,909.11	\$ 10,705.72	\$ 579.56	\$ 1	436.13	\$ 4,984.46	\$ 636.92	\$	228.38	\$	-	\$	250.88	\$ -	\$ 1,	495.33	\$ 2	4,555.30	\$ -	\$	-	\$	50,781.79
34 Renaissance Office Tower	\$ 1,255.69	\$ 2,274.97	\$ 123.16	\$	305.18	\$ 1,107.21	\$ 141.48	\$ \$	48.53	\$	-	\$	53.31	\$ 247.17	\$	81.21	\$	4,977.47	\$ -	\$	-	\$	10,615.38
35 St. Mary's Catholic Church	\$ 1,085.03	\$ -	\$ -	\$	-	\$ -	\$ -	\$		\$	-	\$	-	\$ 36.17	\$		\$	-	\$ -	\$		\$	1,121.20
36 Nashville City Center	\$ 4,185.62	\$ 7,583.22	\$ 410.52	\$ 1	,017.26	\$ 1,388.29	\$ 177.40	\$	161.77	\$	-	\$	177.71	\$ 819.42	\$	-	\$	8,884.94	\$ -	\$	-	\$	24,806.15
38 Wildhorse Saloon	\$ 1,558.16	\$ 2,483.87	\$ 134.46	\$	333.20	\$ 1,011.52	\$ 163.92	\$	56.24	\$		\$	58.20	\$ 198.74	\$	238.42	\$	3,578.74	\$ 2,933.53	\$		5	12,749.00
39 Ryman Auditorium	\$ 1,607.52	\$ 2,605.08	\$ 141.03	\$	349.46	\$ 1,778.96	\$ 298.78	\$	58.51	\$	-	\$	61.05	\$ 192.74	\$	57.32	\$	6,796.76	\$ 6,047.30	\$	-	\$	19,994.51
40 Bridgestone Arena	\$ 17,311.89	\$ 28,128.47	\$ 1,522.77	\$ 3	,773.33	\$ 9,409.83	\$ 1,326.06	\$	631.03	\$		\$	659.18	\$ -	\$	34.61	\$ 3	7,328.25	\$ 10,465.09	\$	-	\$	110,590.51
41 Nissan Stadium	\$ 7,386.38	\$ 13,382.15	\$ 724.46	\$ 1	795.17	\$ 3,058.17	\$ 390.77	\$	285.48	\$	-	\$	313.61	\$ -	\$	41.54	\$ 1	7,284.54	\$ -	\$	-	\$	44,662.27
43 Hume-Fogg High School	\$ 2,459.91	\$ 3,820.88	\$ 206.85	\$	512.55	\$ 162.53	\$ 20.77	\$	87.60	\$		\$	89.54	\$ -	\$	502.60	\$	933.33	\$ -	\$	-	\$	8,796.56
44 Schermerhorn Symphony Center	\$ 16,845.89	\$ -	\$ -	\$	-	\$ 1,593.39	\$ 271.37	\$	137.86	\$	-	\$	-	\$ -	\$	-	\$	9,486.94	\$ 5,734.38	\$ \$	-	\$	34,069.83
45 Nashville Public Library	\$ 7,637.31	\$ - 1	\$ -	\$	-	\$ 4,151.63	\$ 641.02	\$	218.36	\$		\$		\$ -	\$	-	\$ 1	5,515.68	\$ 9,353.37	\$	-	\$	37,517.37
49 Viridian Residential Tower	\$ 13,716.89	\$ -	\$ -	\$	-	\$ 719.81	\$ 91.98	\$	97.44	\$	-	\$	-	\$ -	\$ 1,	357.97	\$	3,339.35	\$ -	\$	-	\$	19,323.44
50 Music City Center	\$ 77,567.78	\$ 10,245.75	\$ -	\$ 6	,972.82	\$ 15,506.65	\$ 2,655.55	\$	1,590.57	\$		\$		\$ -	\$	-	\$ 6	5,863.95	\$ 57,044.32	\$		\$	237,447.39
51 Hyatt Place Hotel	\$ 12,209.24	\$ -	\$ -	\$	-	\$ 977.72	\$ 175.57	\$	111.63	\$	-	\$	- :	\$ -	\$	295.51		3,630.94	\$ 4,284.72	\$	-	Ş	21,685.33
52 Hyatt Centric	\$ 5,095.00	\$ -	\$ -	\$	-	\$ 713.88	\$ 91.22	\$	48.53	\$	-	\$	-	\$ -	\$	315.89	\$	3,677.40	\$ -	\$	-	5	9,941.92
S1 State Government of TN	\$ 136,594.48	\$ 116,111.96	\$ -	\$	-	\$ 21,138.03	\$ 3,773.64	\$	-	\$	-	\$	2,428.39	\$ -	\$ 5,	122.23	\$ 9	1,460.69	\$ 90,768.46	\$	-	\$	467,397.88
Grand Totals	\$ 401,994.42	\$ 298,640.71	\$ 9,326.68	\$ 30	,083.95	\$ 92,746.52	\$ 15,119.70	\$	6,298.50	\$		\$	6,465.78	\$ 7,217.99	\$ 13,	593.29	\$ 40	5,542.99	\$ 276,591.56	\$		\$	1,563,722.09
Rate Calculation Totals	\$ 476,629.26	\$ 410,174.04	\$ 15,364.67	\$ 38	072.92	\$ 92,776.49	\$ 15,126.58	\$	6,250.00	\$	-	\$	6,651.13	\$ 7,217.99	\$ 13,	593.29	\$ 40	5,612.69	\$ 276,842.99	\$	-	\$	1,764,412.01
Deviation	\$ (74,634.84)	\$ (111,533.33)	\$ (6,037.99)	\$ (7	.988.97)	\$ (29.97)	\$ (6.88	3) \$	48.50	Ś	-	Ś	(185.35)	\$ -	\$	-	\$	(69.70)	\$ (251.39) \$	-	Ś	(200,689.92



Metro Nashville District Energy System Revenues Chilled Water and Steam November, 2022

Number Number Customer	Capacity	Operating		EDS	Metro Incremental		Water And Sewer	Chemical Treatment		Engineering	Insurance		EDS Electricity	EDS Maint Costs Alloc		TIFS	Electricity	Natural Gas		Propane	Total
2 A. A. Birch	\$ 9,690.56 \$	14,63	1.99 \$	792.12	\$ 1,96	2.83 \$	1,864.17	5 595.7	4 \$	340.13	\$ -		300.63	\$	- 5	1,381.11	\$ 11,311.45	\$ 14,	37.10	\$ -	\$ 57,007.83
4 Metro Courthouse	\$ 4,587.50 \$	6,82	7.78 \$	369.62	\$ 91	5.92 \$	1,067.24	318.8	1 \$	159.86	\$ -	5	140.29	\$	- 5	148.40	\$ 5,762.61	\$ 6,	67.80	\$ -	\$ 26,665.83
7 Parkway Tower	\$ 4,182.28 \$	6,62	3.47 \$	358.56	\$ 88	8.52 \$	1,700.06	508.6	8 \$	150.42	\$ -		136.09	\$ 77	1.26	-	\$ 8,497.10	\$ 10,	09.27	\$ -	\$ 34,025.71
9 Bobby Hotel	\$ 1,541.56 \$	2,40	0.82 \$	129.97	\$ 32	2.06 \$	309.20	88.1	5 \$	54.97	\$ -	5	49.33	\$ 27	7.00	102.60	\$ 1,823.93	\$ 1,	18.67	\$ -	\$ 8,618.26
10 Fairlane Hotel	\$ 1,598.91 \$	2,47	3.98 \$	133.93	\$ 33	1.87 \$	338.12	103.3	4 \$	56.82	\$ -		50.83	\$ 33	7.50	194.06	\$ 1,823.33	\$ 2,	97.99	\$ -	\$ 9,640.68
11 Sheraton Hotel	\$ 8,824.73 \$	13,30	4.95 \$	720.27	\$ 1,78	4.81 \$	2,028.56	672.4	2 \$	309.51	\$ -		273.37	\$ 1,33	7.67	907.58	\$ 10,600.45	\$ 17,	255.06	\$ -	\$ 58,019.38
12 Municipal Auditorium	\$ 4,428.49 \$	7,06	9.54 \$	382.71	\$ 94	8.36 \$	597.21	223.6	\$ 0	159.94	\$ -	9	145.25	\$	- 5	215.99	\$ 3,162.78	\$ 7,	67.31	\$ -	\$ 24,401.18
21 Hermitage Hotel	\$ 4,262.50 \$	6,23	8.96 \$	337.75	\$ 83	6.93 \$	601.22	186.6	1 \$	147.30	\$ -	9	128.19	\$ 30	1.08	437.52	\$ 3,476.49	\$ 4,	33.95	\$ -	\$ 21,088.53
24 Criminal Justice Center	\$ 7,207.53 \$	10,25	8.44 \$	555.35	\$ 1,37	6.13 \$	693.78	282.4	5 \$	245.65	\$ -	9	210.77	\$	- \$	-	\$ 3,659.14	\$ 9,	71.46	\$ -	\$ 34,460.71
25 501 Union Building	\$ 1,680.60 \$	2,51	4.96 \$	136.15	\$ 33	7.38 \$	262.94	86.1	2 \$	58.73	\$ -	5	51.68	\$ 25	3.08	-	\$ 2,203.89	\$ 2,	55.88	\$ -	\$ 9,741.41
28 4th & Church Building	\$ 23,113.87 \$		- \$	-	\$	- \$	1,618.40	5 515.3	5 \$	192.77	\$ -		-	\$	- 5	-	\$ 9,134.27	\$ 12,	29.61	\$ -	\$ 46,704.27
29 Fifth-Third Financial Center	\$ 5,136.00 \$	9,30	5.06 \$	503.74	\$ 1,24	8.24 \$	494.10	109.5	7 \$	198.50	\$ -		191.19	\$ 85	5.58	1,039.76	\$ 5,854.64	\$	-	\$ -	\$ 24,936.38
32 Renaissance Hotel	\$ 13,313.99 \$	19,64	8.69 \$	1,063.70	\$ 2,63	5.80 \$	3,749.40	1,193.0	1 \$	461.97	\$ -		403.71	\$ 1,59	0.58	359.99	\$ 18,736.88	\$ 28,	30.02	\$ -	\$ 91,187.74
33 5th & Broadway	\$ 5,909.11 \$	10,70	5.72 \$	579.56	\$ 1,43	6.13 \$	3,088.08	684.8	1 \$	228.38	\$ -		219.97	\$	- 5	1,595.02	\$ 20,901.82	\$	-	\$ -	\$ 45,348.60
34 Renaissance Office Tower	\$ 1,255.69 \$	2,27	4.97 \$	123.16	\$ 30	5.18 \$	686.18	5 152.1	7 \$	48.53	\$ -		46.74	\$ 24	7.17	77.67	\$ 3,628.68	\$	-	\$ -	\$ 8,846.14
35 St. Mary's Catholic Church	\$ 1,085.03 \$		- \$	-	\$	- \$	- :	5 -	\$	-	\$ -		-	\$ 3	5.17	-	\$ -	\$	-	\$ -	\$ 1,121.20
36 Nashville City Center	\$ 4,185.62 \$	7,58	3.22 \$	410.52	\$ 1,01	7.26 \$	755.34	167.5	\$ 0	161.77	\$ -		155.81	\$ 81	9.42	-	\$ 6,279.93	\$	-	\$ -	\$ 21,536.39
38 Wildhorse Saloon	\$ 1,558.16 \$	2,48	3.87 \$	134.46	\$ 33	3.20 \$	701.59	208.9	3 \$	56.24	\$ -		51.03	\$ 19	B.74 \$	238.42	\$ 3,747.93	\$ 4,	135.87	\$ -	\$ 13,848.44
39 Ryman Auditorium	\$ 1,607.52 \$	2,60	5.08 \$	141.03	\$ 34	9.46 \$	1,102.54	324.9	4 \$	58.51	\$ -		53.53	\$ 19	2.74	70.06	\$ 5,671.41	\$ 6,	236.52	\$ -	\$ 18,413.34
40 Bridgestone Arena	\$ 17,311.89 \$	28,12	8.47 \$	1,522.77	\$ 3,77	3.33 \$	6,272.81	1,612.7	7 \$	631.03	\$ -		577.94	\$	- 5	103.84	\$ 30,722.63	\$ 17,	89.45	\$ -	\$ 107,846.93
41 Nissan Stadium	\$ 7,386.38 \$	13,38	2.15 \$	724.46	\$ 1,79	5.17 \$	1,465.49	324.9	9 \$	285.48	\$ -	9	274.96	\$	- 5	332.30	\$ 10,912.77	\$	-	\$ -	\$ 36,884.15
43 Hume-Fogg High School	\$ 2,459.91 \$	3,82	0.88 \$	206.85	\$ 51	2.55 \$	222.05	71.8	в \$	87.60	\$ -		78.50	\$	- 5	436.14	\$ 1,303.86	\$ 1,	55.28	\$ -	\$ 10,955.50
44 Schermerhorn Symphony Center	\$ 16,845.89 \$		- \$	-	\$	- \$	1,022.91	313.1	5 \$	137.86	\$ -		-	\$	- 5	-	\$ 6,381.31	\$ 6,	92.30	\$ -	\$ 31,393.43
45 Nashville Public Library	\$ 7,637.31 \$		- \$	-	\$	- \$	2,860.72	791.2	\$ 0	218.36	\$ -		-	\$	- 5	-	\$ 14,159.95	\$ 12,	157.74	\$ -	\$ 37,825.28
49 Viridian Residential Tower	\$ 13,716.89 \$		- \$	-	\$	- \$	364.46	\$ 80.8	2 \$	97.44	\$ -		-	\$	- 5	1,412.84	\$ 2,197.75	\$	-	\$ -	\$ 17,870.20
50 Music City Center	\$ 77,567.78 \$	10,24	5.75 \$	-	\$ 6,97	2.82 \$	9,465.46	2,996.6	В \$	1,590.57	\$ -		-	\$	- 5	-	\$ 49,588.22	\$ 69,	91.71	\$ -	\$ 228,018.99
51 Hyatt Place Hotel	\$ 12,209.24 \$		- \$	-	\$	- \$	529.34	175.3	7 \$	111.63	\$ -		-	\$	- 5	374.31	\$ 2,800.17	\$ 4,	196.03	\$ -	\$ 20,696.09
52 Hyatt Centric	\$ 5,095.00 \$		- \$	-	\$	- \$	382.12	84.7	4 \$	48.53	\$ -		-	\$	- 5	402.50	\$ 2,529.05	\$		\$	\$ 8,541.94
S! State Government of TN	\$ 136,594.48 \$	116,11	1.96 \$	-	\$	- \$	15,013.30	4,931.6	7 \$	-	\$ -		2,129.09	\$	- 5	6,110.92	\$ 78,527.38	\$ 124,	224.94	\$ -	\$ 483,643.74
Grand Totals	\$ 401,994.42 \$	298,64	0.71 \$	9,326.68	\$ 30,08	3.95 \$	59,256.79	17,805.5	2 \$	6,298.50	\$ -		5,668.90	\$ 7,21	7.99 \$	15,941.03	\$ 325,399.82	\$ 361,	53.96	\$	\$ 1,539,288.27
Rate Calculation Totals	\$ 476,629.26 \$	410,17	4.04 \$	15,364.67	\$ 38,07	2.92 \$	59,273.08	17,815.7	5 \$	6,250.00	\$ -		5,831.48	\$ 7,21	7.99	15,941.03	\$ 325,439.47	\$ 362,	72.54	\$ -	\$ 1,740,182.23
Deviation	\$ (74,634.84) \$	(111,53	3.33) \$	(6,037.99)	\$ (7,98	8.97) \$	(16.29)	(10.2	3) \$	48.50	\$ -		(162.58)	\$	- 5	-	\$ (39.65)	\$ (18.58)	\$	\$ (200,893.96)



Metro Nashville District Energy System Revenues Chilled Water and Steam December, 2022

Customer	Customer Name	Capacity	Operating	EDS Improvement	Metro Incremental	Water And Sewer	Chemical Treatment	Engineering		Insurance		EDS Electricity	FDS Maint	Costs Alloc	TIFS	Electricity		Natural Gas	Propage	2	Total
2	A. A. Birch	\$ 9,690.56	\$ 14,631.99 \$	792.12	\$ 1,962.83	\$ 1,717.97	\$ 599.48	\$ 34	10.13	,	-	\$ 202.41	\$	-	\$ 1,482.87	\$ 10,129.34	\$	16,685.45	\$	-	\$ 58,235.15
4	Metro Courthouse	\$ 4,587.50	\$ 6,827.78 \$	369.62	\$ 915.92	\$ 1,033.34	\$ 344.21	\$ 19	9.86	;	-	\$ 94.45	\$	- (\$ 193.56	\$ 5,252.18	\$	8,500.56	\$	-	\$ 28,278.98
7	Parkway Tower	\$ 4,182.28	\$ 6,623.47 \$	358.56	\$ 888.52	\$ 1,754.53	\$ 575.28	\$ 19	0.42	;	-	\$ 91.63	\$	771.26	\$ 22.85	\$ 8,159.36	\$	13,574.26	\$	-	\$ 37,152.42
9	Bobby Hotel	\$ 1,541.56	\$ 2,400.82 \$	129.97	\$ 322.06	\$ 233.93	\$ 76.22	\$!	4.97	;	-	\$ 33.21	\$	277.00	\$ 131.53	\$ 1,353.88	\$	1,765.08	\$	-	\$ 8,320.23
10	Fairlane Hotel	\$ 1,598.91	\$ 2,473.98 \$	133.93	\$ 331.87	\$ 305.10	\$ 110.16	\$!	6.82	5	-	\$ 34.23	\$	337.50	\$ 210.01	\$ 1,609.48	\$	3,309.35	\$	-	\$ 10,511.34
11	Sheraton Hotel	\$ 8,824.73	\$ 13,304.95 \$	720.27	\$ 1,784.81	\$ 1,860.25	\$ 683.52	\$ 30	9.51	,	-	\$ 184.05	\$	1,337.67	\$ 1,012.81	\$ 9,793.81	\$	21,293.33	\$	-	\$ 61,109.71
12	Municipal Auditorium	\$ 4,428.49	\$ 7,069.54 \$	382.71	\$ 948.36	\$ 497.45	\$ 244.44	\$ 15	9.94	,	-	\$ 97.80	\$	-	\$ -	\$ 2,496.87	\$	11,477.37	\$	-	\$ 27,802.97
21	Hermitage Hotel	\$ 4,262.50	\$ 6,238.96 \$	337.75	\$ 836.93	\$ 539.94	\$ 196.67	\$ 14	17.30	;	-	\$ 86.31	\$	301.08	\$ 448.60	\$ 2,906.59	\$	6,018.75	\$	-	\$ 22,321.38
24	Criminal Justice Center	\$ 7,207.53	\$ 10,258.44 \$	555.35	\$ 1,376.13	\$ 608.87	\$ 276.20	\$ 24	15.65	;	-	\$ 141.91	\$	- :	\$ 16.20	\$ 3,081.77	\$	11,891.81	\$	-	\$ 35,659.86
25	501 Union Building	\$ 1,680.60	\$ 2,514.96 \$	136.15	\$ 337.38	\$ 233.82	\$ 87.52	\$!	8.73	;	-	\$ 34.79	\$	253.08	\$ -	\$ 1,938.86	\$	2,826.59	\$	-	\$ 10,102.48
28	4th & Church Building	\$ 23,113.87	\$ - \$	-	\$ -	\$ 1,728.82	\$ 617.44	\$ 19	92.77	;	-	\$ -	\$	- (\$ -	\$ 8,744.62	\$	18,120.94	\$	-	\$ 52,518.46
29	Fifth-Third Financial Center	\$ 5,136.00	\$ 9,305.06 \$	503.74	\$ 1,248.24	\$ 417.39	\$ 102.43	\$ 19	98.50	;	-	\$ 128.72	\$	855.58	\$ 1,054.20	\$ 4,945.64	\$	-	\$	-	\$ 23,895.50
32	Renaissance Hotel	\$ 13,313.99	\$ 19,648.69 \$	1,063.70	\$ 2,635.80	\$ 3,280.62	\$ 1,191.40	\$ 46	51.97	5	-	\$ 271.81	\$	1,590.58	\$ 359.99	\$ 16,133.15	\$	36,237.77	\$	-	\$ 96,189.47
33	5th & Broadway	\$ 5,909.11	\$ 10,705.72 \$	579.56	\$ 1,436.13	\$ 2,688.53	\$ 659.77	\$ 27	28.38	;	-	\$ 148.10	\$	-	\$ 1,661.48	\$ 9,502.16	\$	-	\$	-	\$ 33,518.94
34	Renaissance Office Tower	\$ 1,255.69	\$ 2,274.97 \$	123.16	\$ 305.18	\$ 623.98	\$ 153.13	\$ 4	18.53	;	-	\$ 31.47	\$	247.17	\$ 81.21	\$ 3,631.28	\$	-	\$	-	\$ 8,775.77
35	St. Mary's Catholic Church	\$ 1,085.03	\$ - \$	-	\$	\$ - :	\$ -	\$	- 5	;	-	\$ -	\$	36.17	\$ -	\$ -	\$	-	\$	-	\$ 1,121.20
36	Nashville City Center	\$ 4,185.62	\$ 7,583.22 \$	410.52	\$ 1,017.26	\$ 656.55	\$ 161.12	\$ 16	51.77	;	-	\$ 104.90	\$	819.42	\$ 341.30	\$ 5,281.85	\$	-	\$	-	\$ 20,723.53
38	Wildhorse Saloon	\$ 1,558.16	\$ 2,483.87 \$	134.46	\$ 333.20	\$ 427.79	\$ 140.36	\$!	6.24	5	-	\$ 34.36	\$	198.74	\$ 261.68	\$ 2,468.56	\$	3,318.45	\$	-	\$ 11,415.87
39	Ryman Auditorium	\$ 1,607.52	\$ 2,605.08 \$	141.03	\$ 349.46	\$ 1,082.35	\$ 349.27	\$!	8.51	5	-	\$ 36.04	\$	192.74	\$ 79.61	\$ 5,467.99	\$	7,847.23	\$	-	\$ 19,816.83
40	Bridgestone Arena	\$ 17,311.89	\$ 28,128.47 \$	1,522.77	\$ 3,773.33	\$ 5,782.49	\$ 1,619.72	\$ 6	31.03	;	-	\$ 389.11	\$	- 9	\$ 173.07	\$ 38,152.11	\$	18,824.17	\$	-	\$ 116,308.16
41	Nissan Stadium	\$ 7,386.38	\$ 13,382.15 \$	724.46	\$ 1,795.17	\$ 721.83	\$ 177.14	\$ 28	35.48	;	-	\$ 185.12	\$	- (\$ 228.45	\$ 7,545.72	\$	-	\$	-	\$ 32,431.90
43	Hume-Fogg High School	\$ 2,459.91	\$ 3,820.88 \$	206.85	\$ 512.55	\$ 217.93	\$ 81.07	\$ 1	37.60	,	-	\$ 52.85	\$	- (\$ 465.22	\$ 1,453.90	\$	2,588.30	\$	-	\$ 11,947.06
44	Schermerhorn Symphony Center	\$ 16,845.89	\$ - \$	-	\$	\$ 1,198.08	\$ 401.71	\$ 13	37.86	5	-	\$ -	\$	- (\$ -	\$ 6,409.08	\$	10,102.19	\$	-	\$ 35,094.81
45	Nashville Public Library	\$ 7,637.31	\$ - \$	-	\$	\$ 2,517.05	\$ 754.96	\$ 2:	18.36	;	-	\$ -	\$	- :	\$ 16.04	\$ 12,794.35	\$	12,875.90	\$	-	\$ 36,813.97
49	Viridian Residential Tower	\$ 13,716.89	\$ - \$	-	\$	\$ 225.33	\$ 55.30	\$ 9	97.44	;	-	\$ -	\$	- :	\$ 1,591.16	\$ 1,351.45	\$	-	\$	-	\$ 17,037.57
50	Music City Center	\$ 77,567.78	\$ 10,245.75 \$	-	\$ 6,972.82	\$ 9,180.41	\$ 3,252.42	\$ 1,59	90.57	;	-	\$ -	\$	- :	\$ 42.33	\$ 49,570.86	\$	93,755.66	\$	-	\$ 252,178.60
51	Hyatt Place Hotel	\$ 12,209.24	\$ - \$	-	\$	\$ 516.46	\$ 190.93	\$ 1:	11.63	;	-	\$ -	\$		\$ 408.79	\$ 2,634.31	\$	6,021.14	\$	-	\$ 22,092.50
52	Hyatt Centric	\$ 5,095.00	\$ - \$	-	\$	\$ 269.89	\$ 66.23	\$	18.53	5	-	\$ -	\$	-	\$ 438.17	\$ 1,613.35	\$	-	\$	-	\$ 7,531.17
S1	State Government of TN	\$ 136,594.48	\$ 116,111.96 \$	-	\$	\$ 15,210.28	\$ 5,481.21	\$	- 5	5	-	\$ 1,433.42	\$		\$ 6,395.29	\$ 74,340.45	\$ 1	64,016.97	\$	-	\$ 519,584.06
	Grand Totals	\$ 401,994.42	\$ 298,640.71 \$	9,326.68	\$ 30,083.95	\$ 55,530.98	\$ 18,649.31	\$ 6,25	98.50	;	-	\$ 3,816.69	\$	7,217.99	\$ 17,116.42	\$ 298,762.97	\$ 4	71,051.27	\$	-	\$ 1,618,489.89
	Rate Calculation Totals	\$ 476,629.26	\$ 410,174.04 \$	15,364.67	\$ 38,072.92	\$ 55,555.90	\$ 18,665.08	\$ 6,25	0.00	;	-	\$ 3,926.18	\$	7,217.99	\$ 17,116.42	\$ 298,811.63	\$ 4	71,935.40	\$	-	\$ 1,819,719.49
1	Deviation	\$ (74,634.84)	\$ (111,533.33) \$	(6,037.99)	\$ (7,988.97)	\$ (24.92)	\$ (15.77)	\$ 4	18.50	;	-	\$ (109.49)	\$	- 9	\$ -	\$ (48.66)	\$	(884.13)	\$	-	\$ (201,229.60)



Metro Nashville District Energy System Revenues Chilled Water and Steam January, 2023

Customer	Customer Nam e	Capacity	Operating	EDS Improvement		Metro Incremental	Water And Sewer		Chemical Treatment	Engineering		Insurance		EDS Electricity	EDS Maint Costs Alloc	TIFS		Electricity	Natural Gas	Propane			Total
2	A. A. Birch	\$ 9,690.56	\$ 14,631.99	792.12	\$	1,962.83	\$ 1,983.58	\$	596.91	\$ 340.13	\$			\$ 183.68 \$	-	\$ 1,497.4	1 \$	10,611.20	\$ 18,224.80	\$	13.88	\$	60,529.09
4	Metro Courthouse	\$ 4,587.50	\$ 6,827.78	369.62	\$	915.92	\$ 1,093.68	\$	294.07	\$ 159.86	5 \$		-	\$ 85.71 \$	-	\$ 193.5	6 \$	4,987.07	\$ 7,378.03	\$	5.62	\$	26,898.42
7	Parkway Tower	\$ 4,182.28	\$ 6,623.47	358.56	\$	888.52	\$ 1,760.99	\$	467.78	\$ 150.43	2 \$		-	\$ 83.15	771.26	\$ 129.4	6 \$	8,017.00	\$ 11,443.58	\$	8.71	\$	34,885.18
9	Bobby Hotel	\$ 1,541.56	\$ 2,400.82	129.97	\$	322.06	\$ 174.69	\$	48.41	\$ 54.97	7 \$		-	\$ 30.14	277.00	\$ 160.4	7 \$	1,055.64	\$ 1,287.82	\$	0.98	\$	7,484.53
10	Fairlane Hotel	\$ 1,598.91	\$ 2,473.98	133.93	\$	331.87	\$ 355.76	\$	104.60	\$ 56.82	2 \$		-	\$ 31.05 \$	337.50	\$ 202.0	4 \$	1,462.96	\$ 3,081.05	\$	2.35	\$	10,172.82
11	Sheraton Hotel	\$ 8,824.73	\$ 13,304.95	720.27	\$	1,784.81	\$ 1,606.74	\$	529.19	\$ 309.5	L \$		-	\$ 167.02	1,337.67	\$ 131.5	3 \$	7,848.16	\$ 18,244.11	\$	13.89	\$	54,822.58
12	Municipal Auditorium	\$ 4,428.49	\$ 7,069.54	382.71	\$	948.36	\$ 512.64	\$	238.85	\$ 159.94	\$ \$		-	\$ 88.75	-	\$ -	\$	3,159.26	\$ 11,155.72	\$	8.50	\$	28,152.76
21	Hermitage Hotel	\$ 4,262.50	\$ 6,238.96	337.75	\$	836.93	\$ 518.54	\$	156.85	\$ 147.30	\$		-	\$ 78.32	301.08	\$ 509.5	2 \$	2,802.80	\$ 4,826.58	\$	3.68	\$	21,020.81
24	Criminal Justice Center	\$ 7,207.53	\$ 10,258.44	555.35	\$	1,376.13	\$ 633.75	\$	260.21	\$ 245.69	\$		-	\$ 128.78	-	\$ -	\$	2,532.39	\$ 11,119.13	\$	8.47	\$	34,325.83
25	501 Union Building	\$ 1,680.60	\$ 2,514.96	136.15	\$	337.38	\$ 245.05	\$	74.97	\$ 58.7	\$		-	\$ 31.57	253.08	\$ -	\$	1,689.91	\$ 2,345.26	\$	1.79	\$	9,369.45
28	4th & Church Building	\$ 23,113.87	\$ - 5	-	\$	-	\$ 1,453.51	\$	422.97	\$ 192.7	7 \$		-	\$ - \$	-	\$ -	\$	7,651.73	\$ 12,255.38	\$	9.33	\$	45,099.56
29	Fifth-Third Financial Center	\$ 5,136.00	\$ 9,305.06	5 503.74	\$	1,248.24	\$ 438.90	\$	79.16	\$ 198.50	\$ (-	\$ 116.81	855.58	\$ 1,039.7	6 \$	4,988.40	\$	\$	-	\$	23,910.15
32	Renaissance Hotel	\$ 13,313.99	\$ 19,648.69	1,063.70	\$	2,635.80	\$ 3,612.99	\$	1,101.66	\$ 461.9	7 \$		-	\$ 246.66 \$	1,590.58	\$ 575.9	8 \$	16,781.78	\$ 34,295.39	\$	26.12	\$	95,355.31
33	5th & Broadway	\$ 5,909.11	\$ 10,705.72	5 579.56	\$	1,436.13	\$ 2,557.74	\$	461.33	\$ 228.3	\$		-	\$ 134.39	-	\$ 1,860.8	6 \$	16,802.63	\$ -	\$	-	\$	40,675.85
34	Renaissance Office Tower	\$ 1,255.69	\$ 2,274.97	123.16	\$	305.18	\$ 714.41	\$	128.85	\$ 48.5	\$		-	\$ 28.56	247.17	\$ 102.3	9 \$	3,624.27	\$ -	\$	-	\$	8,853.18
35	St. Mary's Catholic Church	\$ 1,085.03	\$ - 9		-	-	•	-	-	\$ -	-		-	\$ - \$	36.17		\$	-	\$ -	\$	-	\$	1,121.20
36	Nashville City Center	\$ 4,185.62	\$ 7,583.22	410.52	\$	1,017.26	\$ 763.69	\$	137.74	\$ 161.7	7 \$		-	\$ 95.19	819.42	\$ 176.5	3 \$	6,535.28	\$ -	\$	-	\$	21,886.24
38	Wildhorse Saloon	\$ 1,558.16	\$ 2,483.87	134.46	\$	333.20	\$ 341.31	\$	89.55	\$ 56.24	\$ \$		-	\$ 31.18 \$	198.74	\$ 296.5	7 \$	1,939.30	\$ 2,132.99	\$	1.62	\$	9,597.19
39	Ryman Auditorium	\$ 1,607.52	\$ 2,605.08	5 141.03	\$	349.46	\$ 1,103.78	\$	291.16	\$ 58.5	1 \$		-	\$ 32.70 \$	192.74	\$ 98.7	2 \$	5,225.09	\$ 7,017.37	\$	5.34	\$	18,728.50
40	Bridgestone Arena	\$ 17,311.89	\$ 28,128.47	1,522.77	\$	3,773.33	\$ 7,145.92	\$	1,564.73	\$ 631.0	3 \$		-	\$ 353.10 \$	-	\$ 138.4	6 \$	41,658.38	\$ 21,023.79	\$	16.01	\$	123,267.88
41	Nissan Stadium	\$ 7,386.38	\$ 13,382.15	724.46	\$	1,795.17	\$ 750.60	\$	135.38	\$ 285.48	\$		-	\$ 167.99 \$	-	\$ 166.1	5 \$	7,428.53	\$ -	\$	-	\$	32,222.29
43	Hume-Fogg High School	\$ 2,459.91	\$ 3,820.88	206.85	\$	512.55	\$ 363.59	\$	110.48	\$ 87.60	\$		-	\$ 47.97	-	\$ 419.5	2 \$	1,327.08	\$ 3,421.31	\$	2.61	\$	12,780.35
	Schermerhorn Symphony Center	\$ 16,845.89	\$ - 9	-	\$		\$ 1,127.65		305.96				-	\$ - \$	-	\$ -	\$	6,102.18	7,817.02	\$	5.95		32,342.51
45	Nashville Public Library	\$ 7,637.31	\$ - 5	-	\$	-	\$ 3,009.48		710.18	•			-	\$ - \$	-	\$ 10.6		13,122.75	12,755.37	\$	9.71	\$	37,473.85
	Viridian Residential Tower	\$ 13,716.89	\$ - 5	-	\$		\$ 239.39		43.18				-	\$ - \$	-	\$ 1,591.1		1,343.91		\$	-	\$	17,031.97
	Music City Center	\$ 77,567.78	\$ 10,245.75	-	\$	6,972.82	\$ 9,215.79		2,685.57	\$ 1,590.5			-	\$ - \$	-	\$ 1,121.6		45,763.79	77,990.98	\$	59.39	\$	233,214.13
51	Hyatt Place Hotel	\$ 12,209.24	\$ - 5	-	\$	-	\$ 586.21		183.19				-	\$ - \$	-	\$ 300.4		2,705.83	5,902.54	\$	4.49	\$	22,003.57
52	Hyatt Centric	\$ 5,095.00	\$ - 5	-	\$	-	\$ 351.75	\$	63.44	\$ 48.5	\$		-	\$ - \$	-	\$ 422.8	9 \$	1,916.40	\$ -	\$	-	\$	7,898.01
51	State Government of TN	\$ 136,594.48	\$ 116,111.96	5 -	\$		\$ 15,788.89		4,842.94		\$		-	\$ 1,300.81 \$	-	\$ 6,419.4		72,968.27	152,054.20	•	115.81	\$	506,196.78
	Grand Totals	\$ 401,994.42	\$ 298,640.71	9,326.68	\$	30,083.95	\$ 58,451.02	\$	16,129.31	,			-	\$ 3,463.53	7,217.99	\$ 17,565.2		302,051.99	\$ 425,772.42	\$	324.25	\$ 1	1,577,319.99
1	Rate Calculation Totals	\$ 476,629.26	\$ 410,174.04	15,364.67	\$	38,072.92	\$ 58,479.67	\$	16,147.92	\$ 6,250.00	\$ 0		-	\$ 3,562.79	7,217.99	\$ 17,565.2	2 \$	302,110.27	\$ 426,808.35	\$	325.03	\$ 1	1,778,708.13
	Deviation	\$ (74,634.84)	\$ (111,533.33) \$	(6,037.99)	\$	(7,988.97)	\$ (28.65) \$	(18.61)	\$ 48.50	\$ (-	\$ (99.26) \$	-	\$ -	\$	(58.28)	\$ (1,035.93)	\$	(0.78)	\$	(201,388.14)



Metro Nashville District Energy System Revenues Chilled Water and Steam

February, 2023

Customer Number	Customer Name	Capacity	Operating	6	EDS	Metro Incremental	Water And Sewer	Chemical	Treatment	Engineering		Insuranoe		EDS Electricity		EDS Maint Costs Alloc	TIFS	Electricity		Natural Gas	Propane		-	l otal
2	A. A. Birch	\$ 9,690.56 \$	14,631.99	\$	792.12 \$	1,962.83	\$ 1,971.28	\$	618.58	\$ 340.	13 \$		-	\$ 197.75	\$	-	\$ 1,279.34	\$ 14,256.71	\$	15,468.62	\$	3.61	6	1,213.52
4	Metro Courthouse	\$ 4,587.50 \$	6,827.78		369.62 \$	915.92	1,010.33		288.90		86 \$		-	\$ 92.28	\$	-	+	\$ 6,377.52	\$	6,282.07	\$	1.47		7,029.39
7	Parkway Tower	\$ 4,182.28 \$	6,623.47		358.56 \$	888.52	1,584.71	•	455.95		42 \$		-	\$ 89.51		771.26		10,028.63	\$	10,017.49	\$	2.34		5,198.83
9	Bobby Hotel	\$ 1,541.56 \$	2,400.82	\$	129.97 \$	322.06	\$ 233.13	\$	59.60	\$ 54.	97 \$		-	\$ 32.45	\$	277.00	\$ 134.16	\$ 1,480.28	\$	1,036.96	\$	0.24	5	7,703.20
10	Fairlane Hotel	\$ 1,598.91 \$	2,473.98	\$	133.93 \$	331.87	\$ 305.30	\$	93.46	\$ 56.	82 \$		-	\$ 33.44	\$	337.50	\$ 194.06	\$ 1,871.09	\$	2,258.92	\$	0.53	5	9,689.81
11	Sheraton Hotel	\$ 8,824.73 \$	13,304.95	\$	720.27 \$	1,784.81	\$ 1,303.34	\$	490.59	\$ 309.	51 \$		-	\$ 179.81	\$	1,337.67	\$ 894.43	\$ 7,938.84	\$	15,000.40	\$	3.50	5 5	2,092.85
12	Municipal Auditorium	\$ 4,428.49 \$	7,069.54	\$	382.71 \$	948.36	\$ 434.55	\$	219.41	\$ 159.	94 \$		-	\$ 95.54	\$	-	\$ 49.84	\$ 2,757.22	\$	8,267.15	\$	1.93	5 2	4,814.68
21	Hermitage Hotel	\$ 4,262.50 \$	6,238.96	\$	337.75 \$	836.93	\$ 488.68	\$	158.50	\$ 147.	30 \$		-	\$ 84.32	\$	301.08	\$ 454.14	\$ 2,967.91	\$	4,135.94	\$	0.96	5 2	0,414.97
24	Criminal Justice Center	\$ 7,207.53 \$	10,258.44	\$	555.35 \$	1,376.13	\$ 629.65	\$	295.45	\$ 245.	65 \$		-	\$ 138.64	\$	-	\$ -	\$ 3,801.08	\$	10,665.13	\$	2.49	3	5,175.54
25	501 Union Building	\$ 1,680.60 \$	2,514.96	\$	136.15 \$	337.38	\$ 262.34	\$	81.73	\$ 58.	73 \$		-	\$ 33.99	\$	253.08	\$ -	\$ 1,992.67	\$	2,023.69	\$	0.47	5	9,375.79
28	4th & Church Building	\$ 23,113.87 \$	-	\$	- \$	-	\$ 1,156.60	\$	365.06	\$ 192.	77 \$		-	\$ -	\$	-	\$ -	\$ 8,274.93	\$	9,199.47	\$	2.15	5 4	2,304.85
29	Fifth-Third Financial Center	\$ 5,136.00 \$	9,305.06	\$	503.74 \$	1,248.24	\$ 529.67	\$	95.15	\$ 198.	50 \$		-	\$ 125.76	\$	855.58	\$ 953.11	\$ 6,061.18	\$	-	\$	- 5	5 2	5,011.99
32	Renaissance Hotel	\$ 13,313.99 \$	19,648.69	\$	1,063.70 \$	2,635.80	\$ 3,389.83	\$	1,123.84	\$ 461.	97 \$		-	\$ 265.55	\$	1,590.58	\$ 72.00	\$ 18,630.05	\$	30,115.97	\$	7.03	\$ 9	2,319.00
33	5th & Broadway	\$ 5,909.11 \$	10,705.72	\$	579.56 \$	1,436.13	\$ 2,503.52	\$	449.74	\$ 228.	38 \$		-	\$ 144.69	\$	-	\$ 1,811.02	\$ 16,044.86	\$	-	\$	- 5	\$ 3	9,812.73
34	Renaissance Office Tower	\$ 1,255.69 \$	2,274.97	\$	123.16 \$	305.18	\$ 669.43	\$	120.26	\$ 48.	53 \$		-	\$ 30.75	\$	247.17	\$ 95.33	\$ 4,970.81	\$	- :	\$	- \$	5 1	0,141.28
35	St. Mary's Catholic Church	\$ 1,085.03 \$	-	\$	- \$	-	\$ -	\$	-	\$.	\$		-	\$ -	\$	36.17	\$ -	\$ -	\$	-	\$	- 5	\$	1,121.20
36	Nashville City Center	\$ 4,185.62 \$	7,583.22	\$	410.52 \$	1,017.26	\$ 660.31	\$	118.62	\$ 161.	77 \$		-	\$ 102.49	\$	819.42	\$ 129.46	\$ 5,925.71	\$	-	\$	- 5	\$ 2	1,114.40
38	Wildhorse Saloon	\$ 1,558.16 \$	2,483.87	\$	134.46 \$	333.20	\$ 355.35	\$	97.54	\$ 56.	24 \$		-	\$ 33.57	\$	198.74	\$ 282.04	\$ 2,341.59	\$	1,971.44	\$	0.46	\$	9,846.66
39	Ryman Auditorium	\$ 1,607.52 \$	2,605.08	\$	141.03 \$	349.46	\$ 1,106.36	\$	305.38	\$ 58.	51 \$		-	\$ 35.21	\$	192.74	\$ 95.54	\$ 6,737.80	\$	6,236.52	\$	1.45	\$ 1	9,472.60
40	Bridgestone Arena	\$ 17,311.89 \$	28,128.47	\$	1,522.77 \$	3,773.33	\$ 4,448.37	\$	1,074.60	\$ 631.	03 \$		-	\$ 380.16	\$	-	\$ -	\$ 23,110.05	\$	16,113.00	\$	3.76	9	6,497.43
41	Nissan Stadium	\$ 7,386.38 \$	13,382.15	\$	724.46 \$	1,795.17	\$ 1,097.47	\$	197.15	\$ 285.	48 \$		-	\$ 180.86	\$	-	\$ 41.54	\$ 6,024.04	\$	- :	\$	- 5	3	1,114.70
43	Hume-Fogg High School	\$ 2,459.91 \$	3,820.88	\$	206.85 \$	512.55	\$ 417.44	\$	134.02	\$ 87.	60 \$		-	\$ 51.64	\$	-	\$ 365.53	\$ 3,588.70	\$	3,452.33	\$	0.81	5 1	5,098.26
44	Schermerhorn Symphony Center	\$ 16,845.89 \$	-	\$	- \$	-	\$ 975.38	\$	290.93	\$ 137.	86 \$		-	\$ -	\$	-	\$ -	\$ 6,471.93	\$	6,768.21	\$	1.58	3	1,491.78
45	Nashville Public Library	\$ 7,637.31 \$	-	\$	- \$	-	\$ 2,419.03	\$	615.64	\$ 218.	36 \$		-	\$ -	\$	-	\$ -	\$ 14,476.57	\$	10,591.95	\$	2.47	\$ 3	5,961.33
49	Viridian Residential Tower	\$ 13,716.89 \$	-	\$	- \$	-	\$ 238.97	\$	42.93	\$ 97.	44 \$			\$ -	\$	-	\$ 1,536.29	\$ 1,688.69	\$	-	\$	- 5	5 1	7,321.21
50	Music City Center	\$ 77,567.78 \$	10,245.75	\$	- \$	6,972.82	\$ 8,630.75	\$	2,666.26	\$ 1,590.	57 \$		-	\$ -	\$	-	\$ -	\$ 55,909.78	\$	65,264.45	\$	15.23	5 22	8,863.39
51	Hyatt Place Hotel	\$ 12,209.24 \$	-	\$	- \$	-	\$ 534.80	\$	196.41	\$ 111.	63 \$		-	\$ -	\$	-	\$ 132.98	\$ 3,414.96	\$	5,868.70	\$	1.37	5 2	2,470.09
52	Hyatt Centric	\$ 5,095.00 \$		\$	- \$	-	\$ 355.81	\$	63.92	\$ 48.	53 \$		-	\$ -	\$	-	\$ 387.22	\$ 2,988.26	\$	-	\$	- 5	\$	8,938.74
51	State Government of TN	\$ 136,594.48 \$	116,111.96	\$	- \$	-	\$ 13,143.99	\$	4,357.32	\$.	\$		-	\$ 1,400.48	\$	-	\$ 7,278.31	\$ 78,427.15	\$ 1	16,754.02	\$	27.24	5 47	4,094.95
	Grand Totals	\$ 401,994.42 \$	298,640.71	\$	9,326.68 \$	30,083.95	\$ 50,856.39	\$ 1	15,076.94	\$ 6,298	50 \$		-	\$ 3,728.89	\$	7,217.99	\$ 16,348.17	\$ 318,559.01	\$ 3	47,492.43	\$	81.09	1,50	5,705.17
	Rate Calculation Totals	\$ 476,629.26 \$	410,174.04	\$	15,364.67 \$	38,072.92	\$ 50,877.57	\$ 1	15,094.63	\$ 6,250.	00 \$		-	\$ 3,835.74	\$	7,217.99	\$ 16,348.17	\$ 318,610.29	\$ 3	48,313.84	\$	81.26	1,70	6,870.38
	Deviation	\$ (74,634.84) \$	(111,533.33)	\$	(6,037.99) \$	(7,988.97)	\$ (21.18)	\$	(17.69)	\$ 48.	50 \$		-	\$ (106.85) \$	-	\$ -	\$ (51.28)	\$	(821.41)	\$	(0.17)	5 (20	1,165.21)



Metro Nashville District Energy System Revenues Chilled Water and Steam March, 2023

Customer	Customer Name	Capacity		Operating	EDS Improveme nt	Metro	Incremental	Water And Sewer		Chemical Treatment	Engineering		Politance		EDS	Electricity	EDS Maint Costs Alloc	TIFS	Electricity	Natural Gae		Propane	Total
2	A. A. Birch	\$ 9,690.56	\$	14,631.99 \$	792.12	\$	1,962.83	\$ 2,105.5	56 \$	621.36	\$ 340	.13 \$		-	\$	192.67	-	\$ 1,279.34	\$ 11,475.09	\$ 17	2,132.24	\$ -	\$ 55,223.89
4	Metro Courthouse	\$ 4,587.50	\$	6,827.78 \$	369.62	\$	915.92	\$ 1,111.	36 \$	306.88	\$ 159	.86 \$		-	\$	89.91	-	\$ 116.14	\$ 5,302.02	\$!	5,346.74	\$ -	\$ 25,133.73
7	Parkway Tower	\$ 4,182.28	\$	6,623.47 \$	358.56	\$	888.52	\$ 1,744.9	96 \$	488.13	\$ 150	.42 \$		-	\$	87.21	771.26	\$ 45.69	\$ 8,312.82	\$ 8	8,709.96	\$ -	\$ 32,363.28
9	Bobby Hotel	\$ 1,541.56	\$	2,400.82 \$	129.97	\$	322.06	\$ 309.1	12 \$	71.72	\$ 54	.97 \$		-	\$	31.61	277.00	\$ 134.16	\$ 1,797.04	\$	803.60	\$ -	\$ 7,873.63
10	Fairlane Hotel	\$ 1,598.91	\$	2,473.98 \$	133.93	\$	331.87	\$ 373.8	37 \$	105.76	\$ 56	.82 \$		-	\$	32.58	337.50	\$ 194.06	\$ 1,902.31	\$:	1,925.44	\$ -	\$ 9,467.03
11	Sheraton Hotel	\$ 8,824.73	\$	13,304.95 \$	720.27	\$	1,784.81	\$ 1,681.7	21 \$	567.46	\$ 309	.51 \$			\$	175.20	1,337.67	\$ 894.43	\$ 7,726.85	\$ 1	3,262.41	\$ -	\$ 50,589.50
12	Municipal Auditorium	\$ 4,428.49	\$	7,069.54 \$	382.71	\$	948.36	\$ 686.7	78 \$	269.90	\$ 159	.94 \$		-	\$	93.09	-	\$ 49.84	\$ 2,975.53	\$	7,327.49	\$ -	\$ 24,391.67
21	Hermitage Hotel	\$ 4,262.50	\$	6,238.96 \$	337.75	\$	836.93	\$ 638.7	72 \$	192.04	\$ 147	.30 \$		-	\$	82.15	301.08	\$ 454.14	\$ 3,703.42	\$	3,858.19	\$ -	\$ 21,053.18
24	Criminal Justice Center	\$ 7,207.53	\$	10,258.44 \$	555.35	\$	1,376.13	\$ 793.2	26 \$	346.56	\$ 245	.65 \$		-	\$	135.08	-	\$ -	\$ 3,588.66	\$ 10	0,208.25	\$ -	\$ 34,714.91
25	501 Union Building	\$ 1,680.60	\$	2,514.96 \$	136.15	\$	337.38	\$ 301.1	19 \$	89.91	\$ 58	.73 \$		-	\$	33.12	253.08	\$ -	\$ 2,007.42	\$:	1,787.00	\$ -	\$ 9,199.54
28	4th & Church Building	\$ 23,113.87	\$	- \$	-	\$	-	\$ 1,499.9	98 \$	451.59	\$ 192	.77 \$		-	\$	- 5	-	\$ -	\$ 7,430.81	\$ 9	9,090.58	\$ -	\$ 41,779.60
29	Fifth-Third Financial Center	\$ 5,136.00	\$	9,305.06 \$	503.74	\$	1,248.24	\$ 581.5	53 \$	104.77	\$ 198	.50 \$			\$	122.53	855.58	\$ 953.11	\$ 5,537.25	\$	-	\$ -	\$ 24,546.31
32	Renaissance Hotel	\$ 13,313.99	\$	19,648.69 \$	1,063.70	\$	2,635.80	\$ 3,473.1	10 \$	1,149.22	\$ 461	.97 \$		-	\$	258.73	1,590.58	\$ 72.00	\$ 15,525.13	\$ 26	6,241.75	\$ -	\$ 85,434.66
33	5th & Broadway	\$ 5,909.11	\$	10,705.72 \$	579.56	\$	1,436.13	\$ 2,872.9	93 \$	517.59	\$ 228	.38 \$		-	\$	140.98		\$ 1,811.02	\$ 18,201.97	\$	-	\$ -	\$ 42,403.39
34	Renaissance Office Tower	\$ 1,255.69	\$	2,274.97 \$	123.16	\$	305.18	\$ 741.4	17 \$	133.58	\$ 48	.53 \$		-	\$	29.96	247.17	\$ 95.33	\$ 4,047.78	\$	-	\$ -	\$ 9,302.82
35	St. Mary's Catholic Church	\$ 1,085.03	\$	- \$		T	-		\$	-		- \$		-	\$	- \$		\$ -	\$ -	\$	-	\$ -	\$ 1,121.20
36	Nashville City Center	\$ 4,185.62	\$	7,583.22 \$	410.52	\$	1,017.26	\$ 823.7	79 \$	148.41	\$ 161	.77 \$		-	\$	99.86	819.42	\$ 129.46	\$ 5,412.01	\$	-	\$ -	\$ 20,791.34
38	Wildhorse Saloon	\$ 1,558.16	\$	2,483.87 \$	134.46	\$	333.20	\$ 477.9	99 \$	123.36	\$ 56	.24 \$		-	\$	32.71	198.74	\$ 282.04	\$ 2,714.86	\$:	1,866.92	\$ -	\$ 10,262.55
39	Ryman Auditorium	\$ 1,607.52	\$	2,605.08 \$	141.03	\$	349.46	\$ 1,271.9	99 \$	346.76	\$ 58	.51 \$		-	\$	34.30	192.74	\$ 95.54	\$ 6,040.42	\$!	5,895.18	\$ -	\$ 18,638.53
40	Bridgestone Arena	\$ 17,311.89	\$	28,128.47 \$	1,522.77	\$	3,773.33	\$ 5,576.4	40 \$	1,230.38	\$ 631	.03 \$		-	\$	370.40	-	\$ -	\$ 19,725.73	\$ 1	1,315.49	\$ -	\$ 89,585.89
41	Nissan Stadium	\$ 7,386.38	\$	13,382.15 \$	724.46	\$	1,795.17	\$ 1,177.0	9 \$	212.07	\$ 285	.48 \$		-	\$	176.22	-	\$ 41.54	\$ 9,396.90	\$	-	\$ -	\$ 34,577.46
43	Hume-Fogg High School	\$ 2,459.91	\$	3,820.88 \$	206.85	\$	512.55	\$ 394.5		122.64		.60 \$		-	\$	50.31	-	\$ 365.53	\$ 2,579.97	T .	2,584.44	\$ -	\$ 13,185.24
44	Schermerhorn Symphony Center	\$ 16,845.89	\$	- \$	-	\$	-	\$ 1,398.4		395.26		.86 \$		-	\$	- 9	-	\$ -	\$ 7,089.03		7,183.71	\$ -	\$ 33,050.24
45	Nashville Public Library	\$ 7,637.31	\$	- \$	-	\$	-	\$ 2,704.8	39 \$	672.66		.36 \$		-	\$	- 5	-	\$ -	\$ 12,787.05		9,290.88	\$ -	\$ 33,311.15
49	Viridian Residential Tower	\$ 13,716.89	\$	- \$	-	\$	-	\$ 316.7	71 \$	57.06	\$ 97	.44 \$		-	\$	- \$	-	\$ 1,536.29	\$ 1,804.74		-	\$ -	\$ 17,529.13
50	Music City Center	\$ 77,567.78	\$	10,245.75 \$	-	\$	6,972.82	\$ 10,201.	34 \$	3,080.81	\$ 1,590	.57 \$		-	\$	- 5	-	\$ -	\$ 65,419.00	\$ 67	2,304.64	\$ -	\$ 237,382.71
51	Hyatt Place Hotel	\$ 12,209.24	\$	- \$	-	\$	-	\$ 740.6	58 \$	265.22		.63 \$		-	\$	- 5	-	\$ 132.98	\$ 3,322.74		6,605.82	\$ -	\$ 23,388.31
52	Hyatt Centric	\$ 5,095.00	\$	- \$	-	\$	-	\$ 434.6	55 \$	78.31	\$ 48	.53 \$		-	\$	- 5	-	\$ 387.22	\$ 2,631.06	\$	-	\$ -	\$ 8,674.77
51	State Government of TN	\$ 136,594.48		116,111.96 \$	-	\$	-	\$ 15,776.1		4,925.13		- \$		-		1,364.46	-	\$ 7,278.31	\$ 75,572.11		4,409.38	\$ -	\$ 462,031.99
	Grand Totals	\$ 401,994.42	\$	298,640.71 \$	9,326.68	\$	30,083.95	\$ 60,209.7	78 \$	17,074.54	\$ 6,298	.50 \$		-	\$	3,633.08	7,217.99	\$ 16,348.17	\$ 314,029.72	\$ 317	2,150.11	\$ -	\$ 1,477,007.65
1	Rate Calculation Totals	\$ 476,629.26	\$	410,174.04 \$	15,364.67	\$	38,072.92	\$ 60,232.4	15 \$	17,088.18	\$ 6,250	.00 \$		-	\$	3,737.36	7,217.99	\$ 16,348.17	\$ 314,070.75	\$ 317	2,635.72	\$ -	\$ 1,677,821.51
	Deviation	\$ (74,634.84)	\$ ((111,533.33) \$	(6,037.99)	\$	(7,988.97)	\$ (22.6	57) \$	(13.64)	\$ 48	.50 \$		-	\$	(104.28) \$	-	\$ -	\$ (41.03)	\$	(485.61)	\$ -	\$ (200,813.86)



Metro Nashville District Energy System Revenues Chilled Water and Steam April, 2023

Customer Number	Customer Name	Capacity	Operating	FDS		Metro Incremental		Water And Sewer	Chemical Treatment	Engineering			Insurance	EDS Electricity	EDS Maint Costs Alloc		TIFS	Electricity		Natural Gas	Propane	Total
2	A. A. Birch	\$ 9,690.56	\$ 14,631.99	\$	792.12	\$ 1,9	2.83	\$ 2,073.94	\$ 549.51	\$ 34	0.13 \$	5	-	\$ 195.04	\$ -	\$	1,148.50	\$ 12,030.07	\$	7,109.62	\$ -	\$ 50,524.31
4	Metro Courthouse	\$ 4,587.50	\$ 6,827.78	\$	369.62	\$ 9	5.92	1,322.78	\$ 340.75	\$ 15	9.86 \$	5	-	\$ 91.02	\$ -	\$	141.95	\$ 6,479.96	\$	4,209.90	\$ -	\$ 25,447.04
7	Parkway Tower	\$ 4,182.28	\$ 6,623.47	\$	358.56	\$ 8	8.52	1,794.20	\$ 491.49	\$ 15	0.42 \$	5	-	\$ 88.29	\$ 771.	26 \$	-	\$ 7,371.65	\$	6,687.84	\$ -	\$ 29,407.98
9	Bobby Hotel	\$ 1,541.56	\$ 2,400.82	\$	129.97	\$ 3.	2.06	\$ 489.24	\$ 104.65	\$ 5	4.97 \$	5	-	\$ 32.00	\$ 277.	00 \$	73.66	\$ 2,692.40	\$	843.87	\$ -	\$ 8,962.20
10	Fairlane Hotel	\$ 1,598.91	\$ 2,473.98	\$	133.93	\$ 3	1.87	\$ 439.08	\$ 102.33	\$ 5	6.82 \$	5	-	\$ 32.97	\$ 337.	50 \$	172.79	\$ 2,355.01	\$	1,037.74	\$ -	\$ 9,072.93
11	Sheraton Hotel	\$ 8,824.73	\$ 13,304.95	\$	720.27	\$ 1,7	4.81	\$ 2,072.59	\$ 656.83	\$ 30	9.51 \$	5	-	\$ 177.35	\$ 1,337.	57 \$	539.29	\$ 9,934.80	\$ 1	0,697.72	\$ -	\$ 50,360.52
12	Municipal Auditorium	\$ 4,428.49	\$ 7,069.54	\$	382.71	\$ 9	8.36	\$ 757.50	\$ 188.38	\$ 15	9.94 \$	5	-	\$ 94.23	\$ -	\$	199.38	\$ 4,727.98	\$	2,185.70	\$ -	\$ 21,142.21
21	Hermitage Hotel	\$ 4,262.50	\$ 6,238.96	\$	337.75	\$ 8	6.93	\$ 852.49	\$ 209.97	\$ 14	7.30 \$	5	-	\$ 83.17	\$ 301.	08 \$	409.83	\$ 4,609.16	\$	2,391.56	\$ -	\$ 20,680.70
24	Criminal Justice Center	\$ 7,207.53	\$ 10,258.44	\$	555.35	\$ 1,3	6.13	\$ 1,419.09	\$ 490.64	\$ 24	5.65 \$	5	-	\$ 136.74	\$ -	\$	-	\$ 5,858.17	\$	8,690.11	\$ -	\$ 36,237.85
25	501 Union Building	\$ 1,680.60	\$ 2,514.96	\$	136.15	\$ 3	7.38	\$ 393.31	\$ 102.81	\$ 5	8.73 \$	5	-	\$ 33.52	\$ 253.	08 \$	-	\$ 2,645.71	\$	1,301.83	\$ -	\$ 9,458.08
28	4th & Church Building	\$ 23,113.87	\$ - 9	\$	-	\$	- 5	1,279.02	\$ 291.98	\$ 19	2.77 \$	5	-	\$ - :	\$ -	\$	106.78	\$ 7,167.40	\$	2,819.27	\$ -	\$ 34,971.09
29	Fifth-Third Financial Center	\$ 5,136.00	\$ 9,305.06	\$	503.74	\$ 1,2	8.24	\$ 834.84	\$ 135.43	\$ 19	8.50 \$	5	-	\$ 124.03	\$ 855.	58 \$	866.46	\$ 3,380.17	\$	-	\$ -	\$ 22,588.05
32	Renaissance Hotel	\$ 13,313.99	\$ 19,648.69	\$	1,063.70	\$ 2,6	5.80	4,737.45	\$ 1,391.40	\$ 46	1.97 \$	5	-	\$ 261.91	\$ 1,590.	58 \$	-	\$ 16,294.28	\$ 2	0,783.93	\$ -	\$ 82,183.70
33	5th & Broadway	\$ 5,909.11	\$ 10,705.72	\$	579.56	\$ 1,4	6.13	4,007.62	\$ 650.11	\$ 22	8.38 \$	5	-	\$ 142.71	\$ -	\$	1,628.25	\$ 24,106.39	\$	-	\$ -	\$ 49,393.98
34	Renaissance Office Tower	\$ 1,255.69	\$ 2,274.97	\$	123.16	\$ 3	5.18	\$ 869.51	\$ 141.05	\$ 4	8.53 \$	5	-	\$ 30.32	\$ 247.	17 \$	49.43	\$ 4,527.53	\$	-	\$ -	\$ 9,872.54
35	St. Mary's Catholic Church	\$ 1,085.03	\$ - 9	\$		\$	- 9	\$ -	\$ -	\$	- \$	5	-	\$ - 9	\$ 36.	17 \$	-	\$ -	\$	-	\$ -	\$ 1,121.20
36	Nashville City Center	\$ 4,185.62	\$ 7,583.22	\$	410.52	\$ 1,0	7.26	1,042.56	\$ 169.12	\$ 16	1.77 \$	5	-	\$ 101.08	\$ 819.	42 \$	-	\$ 8,178.04	\$	-	\$ -	\$ 23,668.61
38	Wildhorse Saloon	\$ 1,558.16	\$ 2,483.87	\$	134.46	\$ 3	3.20	641.41	\$ 162.82	\$ 5	6.24 \$	5	-	\$ 33.11	\$ 198.	74 \$	258.78	\$ 3,440.74	\$	1,961.13	\$ -	\$ 11,262.66
39	Ryman Auditorium	\$ 1,607.52	\$ 2,605.08	\$	141.03	\$ 3	9.46	1,429.58	\$ 383.83	\$ 5	8.51 \$	5	-	\$ 34.72	\$ 192.	74 \$	50.95	\$ 6,503.64	\$	5,069.34	\$ -	\$ 18,426.40
40	Bridgestone Arena	\$ 17,311.89	\$ 28,128.47	\$	1,522.77	\$ 3,7	3.33	\$ 4,768.67	\$ 1,073.40	\$ 63	1.03 \$	5	-	\$ 374.94	\$ -	\$	-	\$ 29,443.31	\$ 1	0,004.39	\$ -	\$ 97,032.20
41	Nissan Stadium	\$ 7,386.38	\$ 13,382.15	\$	724.46	\$ 1,7	5.17	2,307.51	\$ 374.32	\$ 28	5.48 \$	5	-	\$ 178.38	\$ -	\$	41.54	\$ 15,618.86	\$	-	\$ -	\$ 42,094.25
43	Hume-Fogg High School	\$ 2,459.91	\$ 3,820.88	\$	206.85	\$ 5	2.55	\$ 164.03	\$ 26.61	\$ 8	7.60 \$	5	-	\$ 50.94	\$ -	\$	473.52	\$ 767.97	\$	-	\$ -	\$ 8,570.86
44	Schermerhorn Symphony Center	\$ 16,845.89	\$ - 5	\$		\$	- 5	1,374.88	\$ 381.66	\$ 13	7.86 \$	5	-	\$ - :	\$ -	\$	-	\$ 5,591.44	\$	5,292.96	\$ -	\$ 29,624.69
45	Nashville Public Library	\$ 7,637.31	\$ - 5	\$		\$	- 5	3,078.83	\$ 723.78	\$ 21	8.36 \$	5	-	\$ - :	\$ -	\$	-	\$ 13,455.27	\$	7,485.40	\$ -	\$ 32,598.95
49	Viridian Residential Tower	\$ 13,716.89	\$ - 5	\$		\$	- 5	\$ 472.45	\$ 76.64	\$ 9	7.44 \$;	-	\$ - :	\$ -	\$	1,289.39	\$ 2,359.03	\$	-	\$ -	\$ 18,011.84
50	Music City Center	\$ 77,567.78	\$ 10,245.75	\$		\$ 6,9	2.82	\$ 12,073.81	\$ 3,410.29	\$ 1,59	0.57 \$	5		\$ - !	\$ -	\$	1,432.09	\$ 61,510.01	\$ 4	18,438.17	\$ -	\$ 223,241.29
51	Hyatt Place Hotel	\$ 12,209.24	\$ - 9	\$		\$	- 5	\$ 862.72	\$ 331.65	\$ 11	1.63 \$	5		\$ - 1	\$ -	\$	147.76	\$ 3,506.59	\$	6,396.17	\$ -	\$ 23,565.76
52	Hyatt Centric	\$ 5,095.00	\$ - 9	\$		\$	- 5	5 521.37	\$ 84.58	\$ 4	8.53 \$;		\$ - :	\$ -	\$	320.98	\$ 2,651.33	\$		\$	\$ 8,721.79
S1	State Government of TN	\$ 136,594.48	\$ 116,111.96	\$		\$	- 9	16,348.55	\$ 4,708.20	\$	- \$	5		\$ 1,381.24	\$ -	\$	5,319.63	\$ 81,280.75	\$ 6	8,607.46	\$	\$ 430,352.27
	Grand Totals	\$ 401,994.42	\$ 298,640.71	\$	9,326.68	\$ 30,0	3.95	68,429.03	\$ 17,754.23	\$ 6,29	8.50 \$	5		\$ 3,677.71	\$ 7,217.	99 \$	14,670.96	\$ 348,487.66	\$ 22	2,014.11	\$ -	\$ 1,428,595.95
	Rate Calculation Totals	\$ 476,629.26	\$ 410,174.04	\$	15,364.67	\$ 38,0	2.92	68,451.39	\$ 17,764.43	\$ 6,25	0.00 \$	5		\$ 3,783.21	\$ 7,217.	99 \$	14,670.96	\$ 348,544.12	\$ 22	2,236.07	\$ -	\$ 1,629,159.06
I	Deviation	\$ (74,634.84)	\$ (111,533.33)	\$	(6,037.99)	\$ (7,9	8.97) \$	(22.36)	\$ (10.20)	\$ 4	8.50 \$	5		\$ (105.50)	\$ -	\$	-	\$ (56.46)	\$	(221.96)	\$ -	\$ (200,563.11)



Metro Nashville District Energy System Revenues Chilled Water and Steam May, 2023

Customer Number	Customer Name	Capacity		Operating	EDS Improveme nt	Metro Incremental	Water And Sewer		Chemical Treatment	Engineering			nsuranoe	EDS Electricity	EDS Maint Costs Alloc	TIFS	Electricity		Natural Gas	Propane	Total
2	A. A. Birch	\$ 9,690.56	\$	14,631.99	\$ 792.12	\$ 1,962.83	\$ 2,020.1	3 \$	731.80	\$ 34	0.13 \$	5	-	\$ 223.19	\$ -	\$ 944.97	\$ 17,201.80	\$	5,268.28	\$ -	\$ 53,807.80
4	Metro Courthouse	\$ 4,587.50	\$	6,827.78	\$ 369.62	\$ 915.92	\$ 1,187.5	0 \$	462.21	\$ 15	9.86 \$;	-	\$ 104.14	\$ -	\$ 354.86	\$ 8,945.68	\$	4,042.10	\$ -	\$ 27,957.17
7	Parkway Tower	\$ 4,182.28	\$	6,623.47	\$ 358.56	\$ 888.52	\$ 959.7	2 \$	360.24	\$ 150	0.42 \$	5	-	\$ 101.04	\$ 771.26	\$ 15.23	\$ 7,180.10	\$	2,874.05	\$ -	\$ 24,464.89
9	Bobby Hotel	\$ 1,541.56	\$	2,400.82	\$ 129.97	\$ 322.06	\$ 527.0	9 \$	166.56	\$ 5	4.97 \$;		\$ 36.63	\$ 277.00	\$ 5.26	\$ 4,188.79	\$	654.94	\$ -	\$ 10,305.65
10	Fairlane Hotel	\$ 1,598.91	\$	2,473.98	\$ 133.93	\$ 331.87	\$ 405.7	5 \$	131.27	\$ 5	6.82 \$	5	-	\$ 37.74	\$ 337.50	\$ 143.55	\$ 3,267.68	\$	594.70	\$ -	\$ 9,513.70
11	Sheraton Hotel	\$ 8,824.73	\$	13,304.95	\$ 720.27	\$ 1,784.81	\$ 1,863.9	5 \$	802.65	\$ 30	9.51 \$,	-	\$ 202.95	\$ 1,337.67	\$ 157.84	\$ 13,547.79	\$	8,621.50	\$ -	\$ 51,478.62
12	Municipal Auditorium	\$ 4,428.49	\$	7,069.54	\$ 382.71	\$ 948.36	\$ 677.9	7 \$	185.94	\$ 15	9.94 \$,	-	\$ 107.84	\$ -	\$ 207.69	\$ 7,257.07	\$	7.33	\$ -	\$ 21,432.88
21	Hermitage Hotel	\$ 4,262.50	\$	6,238.96	\$ 337.75	\$ 836.93	\$ 796.9	1 \$	273.13	\$ 14	7.30 \$;	-	\$ 95.16	\$ 301.08	\$ 371.06	\$ 6,243.29	\$	1,622.25	\$ -	\$ 21,525.92
24	Criminal Justice Center	\$ 7,207.53	\$	10,258.44	\$ 555.35	\$ 1,376.13	\$ 1,845.5	2 \$	792.13	\$ 24	5.65 \$	5	-	\$ 156.48	\$ -	\$ 202.49	\$ 13,976.30	\$	8,459.98	\$ -	\$ 45,076.00
25	501 Union Building	\$ 1,680.60	\$	2,514.96	\$ 136.15	\$ 337.38	\$ 374.4	0 \$	140.38	\$ 5	8.73 \$;	-	\$ 38.36	\$ 253.08	\$ -	\$ 3,299.64	\$	1,116.49	\$ -	\$ 9,950.17
28	4th & Church Building	\$ 23,113.87	\$	- 9	\$ -	\$ -	\$ 860.9	7 \$	235.80	\$ 193	2.77 \$;	-	\$ -	\$ -	\$ 427.11	\$ 7,413.65	\$	-	\$ -	\$ 32,244.17
29	Fifth-Third Financial Center	\$ 5,136.00	\$	9,305.06	\$ 503.74	\$ 1,248.24	\$ 919.8	7 \$	251.94	\$ 19	8.50 \$;	-	\$ 141.93	\$ 855.58	\$ 678.73	\$ 11,444.16	\$	-	\$ -	\$ 30,683.75
32	Renaissance Hotel	\$ 13,313.99	\$	19,648.69	\$ 1,063.70	\$ 2,635.80	\$ 4,532.7	3 \$	1,880.35	\$ 46	1.97 \$;	-	\$ 299.71	\$ 1,590.58	\$ -	\$ 29,542.93	\$	18,854.72	\$ -	\$ 93,825.17
33	5th & Broadway	\$ 5,909.11	\$	10,705.72	\$ 579.56	\$ 1,436.13	\$ 4,116.7	4 \$	1,127.50	\$ 22	8.38 \$	5	-	\$ 163.30	\$ -	\$ 1,246.11	\$ 31,488.96	\$	-	\$ -	\$ 57,001.51
34	Renaissance Office Tower	\$ 1,255.69	\$	2,274.97	\$ 123.16	\$ 305.18	\$ 711.0	12 \$	194.74	\$ 4	8.53 \$	5	-	\$ 34.70	\$ 247.17	\$ 38.84	\$ 6,138.97	\$	-	\$ -	\$ 11,372.97
35	St. Mary's Catholic Church	\$ 1,085.03	\$	- 9	\$ -	\$ -	\$ -	\$	-	\$	- \$	5	-	\$ -	\$ 36.17	\$ -	\$ -	\$	-	\$ -	\$ 1,121.20
36	Nashville City Center	\$ 4,185.62	\$	7,583.22	\$ 410.52	\$ 1,017.26	\$ 1,086.3	4 \$	297.53	\$ 16	1.77 \$;	-	\$ 115.67	\$ 819.42	\$ -	\$ 12,101.65	\$	-	\$ -	\$ 27,779.00
38	Wildhorse Saloon	\$ 1,558.16	\$	2,483.87	\$ 134.46	\$ 333.20	\$ 576.6	1 \$	193.57	\$ 5	6.24 \$,	-	\$ 37.89	\$ 198.74	\$ 244.24	\$ 4,174.96	\$	1,051.89	\$ -	\$ 11,043.83
39	Ryman Auditorium	\$ 1,607.52	\$	2,605.08	\$ 141.03	\$ 349.46	\$ 1,097.3	12 \$	443.27	\$ 5	8.51 \$;	-	\$ 39.74	\$ 192.74	\$ 19.11	\$ 7,705.67	\$	4,212.15	\$ -	\$ 18,471.60
40	Bridgestone Arena	\$ 17,311.89	\$	28,128.47	\$ 1,522.77	\$ 3,773.33	\$ 3,034.4	18 \$	983.17	\$ 63	1.03 \$	5	-	\$ 429.06	\$ -	\$ -	\$ 26,783.77	\$	4,487.98	\$ -	\$ 87,085.95
41	Nissan Stadium	\$ 7,386.38	\$	13,382.15	\$ 724.46	\$ 1,795.17	\$ 2,981.5	7 \$	816.60	\$ 28	5.48 \$	5	-	\$ 204.12	\$ -	\$ 41.54	\$ 23,565.05	\$	-	\$ -	\$ 51,182.52
43	Hume-Fogg High School	\$ 2,459.91	\$	3,820.88	\$ 206.85	\$ 512.55	\$ 170.0	1 \$	46.56	\$ 8	7.60 \$	5	-	\$ 58.28	\$ -	\$ 427.83	\$ 2,117.23	\$	-	\$ -	\$ 9,907.70
44	Schermerhorn Symphony Center	\$ 16,845.89	\$	- 9	\$ -	\$ -	\$ 1,105.7	8 \$	493.17	\$ 13	7.86 \$	5	-	\$ -	\$ -	\$ -	\$ 9,038.34	\$	5,616.55	\$ -	\$ 33,237.59
45	Nashville Public Library	\$ 7,637.31	\$	- 9	\$ -	\$ -	\$ 2,255.7	0 \$	798.82	\$ 21	8.36 \$,	-	\$ -	\$ -	\$ -	\$ 15,251.81	\$	5,342.13	\$ -	\$ 31,504.13
49	Viridian Residential Tower	\$ 13,716.89	\$	- 9	\$ -	\$ -	\$ 514.0	9 \$	140.80	\$ 9	7.44 \$;	-	\$ -	\$ -	\$ 1,001.33	\$ 3,953.03	\$	-	\$ -	\$ 19,423.58
50	Music City Center	\$ 77,567.78	\$	10,245.75	\$ -	\$ 6,972.82	\$ 9,833.7	1 \$	3,995.63	\$ 1,59	0.57 \$,		\$ -	\$ -	\$ -	\$ 72,083.91	\$	38,433.26	\$ -	\$ 220,723.43
51	Hyatt Place Hotel	\$ 12,209.24	\$	- 9	\$ -	\$ -	\$ 647.1	9 \$	371.68	\$ 11	1.63 \$;		\$ -	\$ -	\$ 108.35	\$ 4,346.42	\$	5,737.50	\$ -	\$ 23,532.01
52	Hyatt Centric	\$ 5,095.00	\$	- 9	\$ -	\$ -	\$ 554.6	7 \$	151.91	\$ 4	8.53 \$	5	-	\$ -	\$ -	\$ 208.90	\$ 4,886.67	\$	-	\$	\$ 10,945.68
51	State Government of TN	\$ 136,594.48	\$	116,111.96	\$ -	\$ -	\$ 13,334.6	1 \$	5,500.54	\$	- \$;	-	\$ 1,580.60	\$ -	\$ 4,558.67	\$ 105,426.42	\$	54,548.63	\$ -	\$ 437,655.91
	Grand Totals	\$ 401,994.42	\$	298,640.71	\$ 9,326.68	\$ 30,083.95	\$ 58,991.9	5 \$	21,969.89	\$ 6,29	8.50 \$;	-	\$ 4,208.53	\$ 7,217.99	\$ 11,403.71	\$ 462,571.74	\$:	171,546.43	\$	\$ 1,484,254.50
	Rate Calculation Totals	\$ 476,629.26	\$	410,174.04	\$ 15,364.67	\$ 38,072.92	\$ 59,008.5	0 \$	21,976.81	\$ 6,25	0.00 \$;		\$ 4,329.17	\$ 7,217.99	\$ 11,403.71	\$ 462,645.80	\$:	171,618.20	\$ -	\$ 1,684,691.07
	Deviation	\$ (74,634.84)	\$ ((111,533.33)	\$ (6,037.99)	\$ (7,988.97)	\$ (16.5	5) \$	(6.92)	\$ 4	8.50 \$	5	-	\$ (120.64)	\$ -	\$ -	\$ (74.06)	\$	(71.77)	\$ -	\$ (200,436.57)



Metro Nashville District Energy System Revenues Chilled Water and Steam June, 2023

Customer	Customer Name	Capacity	Operating	EDS Improveme nt		Metro Incremental	Water And Sewer	Chemical Treatment		Engineering	Insuranoe	EDS Electricity	EDS Maint Costs Alloc	TIFS	Electricity		Natural Gas	Propane	Total
2 /	A. A. Birch	\$ 9,690.56	\$ 14,631.99	792.1	2 \$	1,962.83	\$ 3,429.36	\$ 466.19	\$	340.13	\$ -	\$ 237.18	\$ -	\$ 872.28	\$ 23,786.94	\$	4,286.40	\$ -	\$ 60,495.98
4	Metro Courthouse	\$ 4,587.50	\$ 6,827.78	369.6	2 \$	915.92	\$ 1,831.35	\$ 274.43	\$	159.86	\$ -	\$ 110.68	\$ -	\$ 96.78	\$ 12,495.49	\$	3,546.49	\$ -	\$ 31,215.90
7	Parkway Tower	\$ 4,182.28	\$ 6,623.47	358.5	6 \$	888.52	\$ 1,395.30	\$ 186.04	\$	150.42	\$ -	\$ 107.37	\$ 771.26	\$ -	\$ 9,020.98	\$	1,564.73	\$ -	\$ 25,248.93
9	Bobby Hotel	\$ 1,541.56	\$ 2,400.82	129.9	7 \$	322.06	\$ 992.24	\$ 125.99	\$	54.97	\$ -	\$ 38.92	\$ 277.00	\$ -	\$ 11,117.97	\$	800.77	\$ -	\$ 17,802.27
10	Fairlane Hotel	\$ 1,598.91	\$ 2,473.98	133.9	3 \$	331.87	\$ 661.85	\$ 78.24	\$	56.82	\$ -	\$ 40.11	\$ 337.50	\$ 119.63	\$ 4,584.10	\$	247.75	\$ -	\$ 10,664.69
11	Sheraton Hotel	\$ 8,824.73	\$ 13,304.95	720.2	7 \$	1,784.81	\$ 3,050.85	\$ 498.66	\$	309.51	\$ -	\$ 215.67	\$ 1,337.67	\$ -	\$ 20,280.91	\$	7,956.24	\$ -	\$ 58,284.27
12	Municipal Auditorium	\$ 4,428.49	\$ 7,069.54	382.7	1 \$	948.36	\$ 1,162.56	\$ 128.87	\$	159.94	\$ -	\$ 114.60	\$ -	\$ 41.54	\$ 10,808.48	\$	13.53	\$ -	\$ 25,258.62
21	Hermitage Hotel	\$ 4,262.50	\$ 6,238.96	337.7	5 \$	836.93	\$ 1,326.17	\$ 169.01	\$	147.30	\$ -	\$ 101.14	\$ 301.08	\$ 354.45	\$ 9,136.87	\$	1,100.85	\$ -	\$ 24,313.01
24	Criminal Justice Center	\$ 7,207.53	\$ 10,258.44	555.	5 \$	1,376.13	\$ 3,086.70	\$ 509.59	\$	245.65	\$	\$ 166.29	\$ -	\$ 291.59	\$ 20,302.82	\$	8,299.71	\$ -	\$ 52,299.80
25	501 Union Building	\$ 1,680.60	\$ 2,514.96	136.1	5 \$	337.38	\$ 646.09	\$ 92.85	\$	58.73	\$	\$ 40.77	\$ 253.08	\$ -	\$ 5,119.94	\$	1,055.40	\$ -	\$ 11,935.95
28	4th & Church Building	\$ 23,113.87	\$ -	-	\$	-	\$ 1,514.66	\$ 167.55	\$	192.77	\$	\$ -	\$ -	\$ 259.32	\$ 10,248.41	\$		\$ -	\$ 35,496.58
29	Fifth-Third Financial Center	\$ 5,136.00	\$ 9,305.06	5 503.7	4 \$	1,248.24	\$ 1,626.39	\$ 179.91	\$	198.50	\$	\$ 150.83	\$ 855.58	\$ 534.32	\$ 14,909.95	\$		\$ -	\$ 34,648.52
32	Renaissance Hotel	\$ 13,313.99	\$ 19,648.69	1,063.7	0 \$	2,635.80	\$ 7,530.88	\$ 1,166.92	\$	461.97	\$ -	\$ 318.51	\$ 1,590.58	\$ -	\$ 42,796.02	\$:	16,479.55	\$ -	\$ 107,006.61
33	5th & Broadway	\$ 5,909.11	\$ 10,705.72	5 579.5	6 \$	1,436.13	\$ 6,370.26	\$ 704.68	\$	228.38	\$	\$ 173.54	\$ -	\$ 1,030.12	\$ 45,059.82	\$		\$ -	\$ 72,197.32
34	Renaissance Office Tower	\$ 1,255.69	\$ 2,274.97	123.1	6 \$	305.18	\$ 1,147.44	\$ 126.93	\$	48.53	\$ -	\$ 36.88	\$ 247.17	\$ 17.65	\$ 8,295.02	\$	-	\$ -	\$ 13,878.62
35	St. Mary's Catholic Church	\$ 1,085.03	\$ - 1	-	\$		\$ - 1	\$ -	\$		\$ -	\$ -	\$ 36.17	\$ -	\$	\$		\$	\$ 1,121.20
36	Nashville City Center	\$ 4,185.62	\$ 7,583.22	410.5	2 \$	1,017.26	\$ 2,054.52	\$ 227.27	\$	161.77	\$	\$ 122.92	\$ 819.42	\$ -	\$ 17,774.10	\$		\$ -	\$ 34,356.62
38	Wildhorse Saloon	\$ 1,558.16	\$ 2,483.87	134.4	6 \$	333.20	\$ 868.36	\$ 101.21	\$	56.24	\$	\$ 40.26	\$ 198.74	\$ 252.96	\$ 6,117.25	\$	254.10	\$	\$ 12,398.81
39	Ryman Auditorium	\$ 1,607.52	\$ 2,605.08	5 141.0	3 \$	349.46	\$ 1,596.58	\$ 254.92	\$	58.51	\$ -	\$ 42.23	\$ 192.74	\$ -	\$ 9,635.99	\$	3,865.45	\$ -	\$ 20,349.51
40	Bridgestone Arena	\$ 17,311.89	\$ 28,128.47	1,522.	7 \$	3,773.33	\$ 4,379.64	\$ 686.63	\$	631.03	\$	\$ 455.95	\$ -	\$ -	\$ 31,150.74	\$	9,978.30	\$ -	\$ 98,018.75
41	Nissan Stadium	\$ 7,386.38	\$ 13,382.15	724.4	6 \$	1,795.17	\$ 4,981.99	\$ 551.11	\$	285.48	\$ -	\$ 216.92	\$ -	\$ 62.31	\$ 36,620.93	\$		\$ -	\$ 66,006.90
43	Hume-Fogg High School	\$ 2,459.91	\$ 3,820.88	206.8	5 \$	512.55	\$ 288.45	\$ 31.91	\$	87.60	\$ -	\$ 61.93	\$ -	\$ 386.30	\$ 2,486.08	\$		\$ -	\$ 10,342.46
44	Schermerhorn Symphony Center	\$ 16,845.89	\$ -	-	\$	-	\$ 1,729.23	\$ 315.74	\$	137.86	\$	\$ -	\$ -	\$ -	\$ 15,482.67	\$	6,143.30	\$ -	\$ 40,654.69
45	Nashville Public Library	\$ 7,637.31	\$ - (\$		\$ 3,068.07	\$ 366.53	\$	218.36	\$	\$	\$ -	\$	\$ 19,486.73	\$	1,339.54	\$ -	\$ 32,116.54
49	Viridian Residential Tower	\$ 13,716.89	\$ 	-	\$		\$ 1,004.95	\$ 111.17	\$	97.44	\$ -	\$ -	\$ -	\$ 644.69	\$ 6,739.60	\$		\$ -	\$ 22,314.74
50	Music City Center	\$ 77,567.78	\$ 10,245.75	-	\$	6,972.82	\$ 16,028.15	\$ 2,532.89	\$	1,590.57	\$	\$ -	\$ -	\$ 684.30	\$ 95,575.01	\$ 3	37,507.91	\$ -	\$ 248,705.18
51	Hyatt Place Hotel	\$ 12,209.24	\$ - 9		\$		\$ 891.90	\$ 149.25	\$	111.63	\$ -	\$	\$ -	\$ 83.73	\$ 5,806.86	\$	2,497.03	\$	\$ 21,749.64
52	Hyatt Centric	\$ 5,095.00	\$ -	-	\$	-	\$ 1,001.48	\$ 110.79	\$	48.53	\$	\$ -	\$ -	\$ 127.38	\$ 6,710.47	\$		\$ -	\$ 13,093.65
51	State Government of TN	\$ 136,594.48	\$ 116,111.96		\$	-	\$ 20,842.59	\$ 3,229.22	\$	-	\$	\$ 1,679.71	\$ -	\$ 4,191.81	\$ 137,128.49	\$ 4	15,592.15	\$	\$ 465,370.41
	Grand Totals	\$ 401,994.42	\$ 298,640.71	9,326.6	8 \$	30,083.95	\$ 94,508.01	\$ 13,544.50	\$	6,298.50	\$	\$ 4,472.41	\$ 7,217.99	\$ 10,051.16	\$ 638,678.64	\$ 19	52,529.20	\$ -	\$ 1,667,346.17
	Rate Calculation Totals	\$ 476,629.26	\$ 410,174.04	15,364.6	7 \$	38,072.92	\$ 94,535.65	\$ 13,547.53	\$	6,250.00	\$	\$ 4,600.54	\$ 7,217.99	\$ 10,051.16	\$ 638,773.74	\$ 15	52,529.22	\$	\$ 1,867,746.72
1	Deviation	\$ (74,634.84)	\$ (111,533.33)	(6,037.9	9) \$	(7,988.97)	\$ (27.64)	\$ (3.03) \$	48.50	\$	\$ (128.13)	\$ -	\$	\$ (95.10)	\$	(0.02)	\$	\$ (200,400.55)

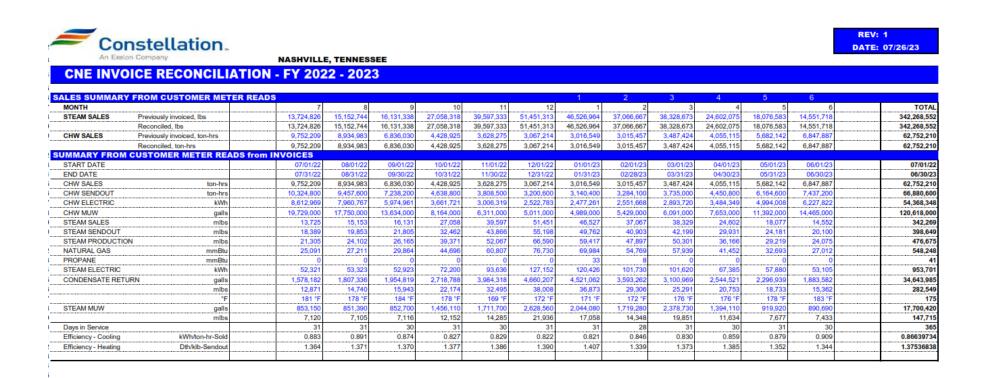


Metro Nashville District Energy System Revenues Chilled Water and Steam Fiscal Year 22 - 23 True Up

Oustomer Number Customer Name	Capacity	Operating	EDS Improveme nt	Metro Incremental	Water And Sewer	Chemical Treatment	Engineering	Insurance		EDS Electricity	EDS Maint Costs Alloc	TIFS	Electricity	Natural Gas		Propane	Total
2 A. A. Birch	\$ -	\$ -	\$ -	\$ (1,094.52) \$	284.12	\$ -	\$ (2,091.89)	\$ 1,294.83	\$	-	\$ -	\$ -	\$ (870.12)	\$ 2,242	.67 \$	-	\$ (234.91)
4 Metro Courthouse	\$ -	\$ -	\$ -	\$ (510.74) \$	158.75	\$ -	\$ (983.14)	\$ 605.65	\$	-	\$ -	\$ -	\$ (485.56)	\$ 1,211	47 \$	-	\$ (3.57)
7 Parkway Tower	\$ -	\$ -	\$	\$ (495.45) \$	172.85	\$ -	\$ (925.13)	\$ 581.65	\$	-	\$ -	\$ -	\$ (531.76)	\$ 1,531	87 \$	-	\$ 334.03
9 Bobby Hotel	\$ -	\$ -	\$ -	\$ (179.59) \$	67.71	\$ -	\$ (338.07)	\$ 211.39	\$	-	\$ -	\$ -	\$ (203.62)	\$ 272	16 \$	-	\$ (170.02)
10 Fairlane Hotel	\$ -	\$ -	\$ -	\$ (185.06) \$	55.93	\$ -	\$ (349.48)	\$ 218.06	\$	-	\$ -	\$ -	\$ (169.66)	\$ 327	75 \$	-	\$ (102.46)
11 Sheraton Hotel	\$ -	\$ -	\$ -	\$ (995.26) \$	256.41	\$ -	\$ (1,903.56)	\$ 1,177.68	\$	-	\$ -	\$ -	\$ (797.09)	\$ 2,851	.04 \$	-	\$ 589.22
12 Municipal Auditorium	\$ -	\$ -	\$ -	\$ (528.82) \$	85.63	\$ -	\$ (983.66)	\$ 620.05	\$	-	\$ -	\$ -	\$ (267.60)	\$ 1,051	22 \$	-	\$ (23.18)
21 Hermitage Hotel	\$ -	\$ -	\$	\$ (466.69) \$	106.70	\$ -	\$ (905.89)	\$ 554.97	\$	-	\$ -	\$ -	\$ (324.88)	\$ 709	.62 \$	-	\$ (326.17)
24 Criminal Justice Center	\$ -	\$ -	\$	\$ (767.36) \$	131.94	\$ -	\$ (1,510.73)	\$ 916.86	\$	-	\$ -	\$ -	\$ (417.95)	\$ 2,014	32 \$	-	\$ 367.08
25 501 Union Building	\$ -	\$ -	\$ -	\$ (188.13) \$	46.04	\$ -	\$ (361.15)	\$ 222.89	\$	-	\$ -	\$ -	\$ (140.64)	\$ 337	61 \$	-	\$ (83.38)
28 4th & Church Building	\$ -	\$ -	\$ -	\$ - \$	192.34	\$ -	\$ (1,185.58)	\$ 740.68	\$	-	\$ -	\$ -	\$ (588.39)	\$ 1,473	24 \$	-	\$ 632.29
29 Fifth-Third Financial Center	\$ -	\$ -	\$ -	\$ (696.05) \$	123.06	\$ -	\$ (1,220.79)	\$ 800.94	\$	-	\$ -	\$ -	\$ (363.01)	\$. \$	-	\$ (1,355.85)
32 Renaissance Hotel	\$ -	\$ -	\$	\$ (1,469.79) \$	582.09	\$ -	\$ (2,841.21)	\$ 1,745.37	\$	-	\$ -	\$ -	\$ (1,792.74)	\$ 5,301	84 \$	-	\$ 1,525.56
33 5th & Broadway	\$ -	\$ -	\$ -	\$ (800.83) \$	540.59	\$ -	\$ (1,404.56)	\$ 921.50	\$	-	\$ -	\$ -	\$ (1,594.66)	\$. \$	-	\$ (2,337.96)
34 Renaissance Office Tower	\$ -	\$ -	\$ -	\$ (170.18) \$	104.36	\$ -	\$ (298.47)	\$ 195.82	\$	-	\$ -	\$ -	\$ (307.86)	\$. \$	-	\$ (476.33)
35 St. Mary's Catholic Church	\$ -	\$ -	\$	\$ - \$	-	\$ -	\$ -	\$ -	\$	-	\$ -	\$ -	\$ -	\$. \$	-	\$ -
36 Nashville City Center	\$ -	\$ -	\$ -	\$ (567.25) \$	161.93	\$ -	\$ (994.89)	\$ 652.73	\$	-	\$ -	\$ -	\$ (477.66)	\$. \$	-	\$ (1,225.14)
38 Wildhorse Saloon	\$ -	\$ -	\$	\$ (185.80) \$	81.86	\$ -	\$ (345.85)	\$ 217.90	\$	-	\$ -	\$ -	\$ (249.22)	\$ 542	93 \$	-	\$ 61.82
39 Ryman Auditorium	\$ -	\$ -	\$	\$ (194.87) \$	146.74	\$ -	\$ (359.88)	\$ 227.95	\$	-	\$ -	\$ -	\$ (450.14)	\$ 1,211	53 \$	-	\$ 581.33
40 Bridgestone Arena	\$ -	\$ -	\$	\$ (2,104.11) \$	755.91	\$ -	\$ (3,880.92)	\$ 2,460.31	\$	-	\$ -	\$ -	\$ (2,277.15)	\$ 3,317	16 \$	-	\$ (1,728.80)
41 Nissan Stadium	\$ -	\$ -	\$ -	\$ (1,001.03) \$	376.69	\$ -	\$ (1,755.69)	\$ 1,151.88	\$	-	\$ -	\$ -	\$ (1,111.18)	\$. \$	-	\$ (2,339.33)
43 Hume-Fogg High School	\$ -	\$ -	\$ -	\$ (285.82) \$	38.58	\$ -	\$ (538.73)	\$ 336.58	\$	-	\$ -	\$ -	\$ (120.19)	\$ 447	.05 \$	-	\$ (122.53)
44 Schermerhorn Symphony Cente	\$ -	\$ -	\$	\$ - \$	149.85	\$ -	\$ (847.85)	\$ 532.64	\$	-	\$ -	\$ -	\$ (464.41)	\$ 1,566	15 \$	-	\$ 936.38
45 Nashville Public Library	\$ -	\$ -	\$ -	\$ - \$	321.83	\$ -	\$ (1,342.94)	\$ 833.98	\$	-	\$ -	\$ -	\$ (974.06)	\$ 1,730	.05 \$	-	\$ 568.86
49 Viridian Residential Tower	\$ -	\$ -	\$ -	\$ - \$	74.48	\$ -	\$ (599.28)	\$ 393.17	\$	-	\$ -	\$ -	\$ (219.72)	\$. \$	-	\$ (351.35)
50 Music City Center	\$ -	\$ -	\$	\$ (3,888.22) \$	1,303.99	\$ -	\$ (9,782.22)	\$ 6,150.78	\$	-	\$ -	\$ -	\$ (4,032.83)	\$ 13,050	84 \$	-	\$ 2,802.34
51 Hyatt Place Hotel	\$ -	\$ -	\$ -	\$ - \$	80.47	\$ -	\$ (686.55)	\$ 415.00	\$	-	\$ -	\$ -	\$ (254.21)	\$ 1,180	22 \$	-	\$ 734.93
52 Hyatt Centric	\$ -	\$ -	\$	\$ - \$	72.41	\$ -	\$ (298.47)	\$ 195.82	\$	-	\$ -	\$ -	\$ (213.59)	\$. \$	-	\$ (243.83)
S1 State Government of TN	\$ -	\$ -	\$ -	\$ - \$	1,883.84	\$ -	\$ -	\$ 9,175.44	\$	-	\$ -	\$ -	\$ (5,856.95)	\$ 21,008	18 \$	-	\$ 26,210.51
Grand Totals	\$ -	\$ -	\$ -	\$ (16,775.57) \$	8,357.10	\$ -	\$ (38,736.58)	\$ 33,552.52	\$	-	\$ -	\$ -	\$ (25,556.85)	\$ 63,378	92 \$	-	\$ 24,219.54
Rate Calculation Totals	\$ -	\$ -	\$ -	\$ (24,977.00) \$	8,359.26	\$ -	\$ (38,438.00)	\$ 33,584.28	\$	-	\$ -	\$ -	\$ (25,563.45)	\$ 63,466	55 \$	-	\$ 16,431.64
Deviation	\$ -	\$ -	\$	\$ 8,201.43	(2.16)	\$ -	\$ (298.58)	\$ (31.76)) \$	-	\$ -	\$ -	\$ 6.60	\$ (87.	63) \$	-	\$ 7,787.90



Appendix 4 – CES Invoice Reconciliation (FEA)





								42					-		
Manth of Service			7		,	10	11	12	1	2	3	4	5	6	TO
ELECTRIC SERVICE (HES)															
Sorvico Datos	From		/ 2022	7/31/2022	8/31/2022	9/30/2022	10/31/2022	11/30/2022	12/31/2022	1/31/2023	2/28/2023	3/31/2023	4/30/2023	5/31/2023	6/3
	To kW		/2022	8/31/2022	9/30/2022	10/31/2022	11/30/2022	12/31/2022	1/31/2023	2/28/2023	3/31/2023	4/30/2023	5/31/2023	6/30/2023	6/3
PEAK Domand		······	072	15,456	14,280	10,304	7,728	7,728	7,672	7,952	8,008	10,136	12,152	15,960	16
Sorvico Poriad Uro	kWh		7,568	8,057,952	6,094,844	3,808,000	3,175,004	2,734,144	2,686,348	2,729,888	3,086,888	3,630,060	5,132,176 \$ 455,691,60	6,349,896	56,2
Sorvico Poriad Chargo			,766.64	\$ 849,548.67	\$ 598,913.55	\$ 392,576.99	\$ 314,277.33	\$ 287,364.82	\$ 290,799.31	\$ 309,585.07	\$ 303,748.30 \$ 0.098400	\$ 340,768.33	\$ 455,691.60	\$ 634,868.99	\$ 5,6
Avorago Chargo	\$/kWh	1 \$ 0	.095100	\$ 0.105400	\$ 0.098300	\$ 0.103100	\$ 0.099000	\$ 0.105100	\$ 0.108300	\$ 0.113400	\$ 0.098400	\$ 0.093900	\$ 0.088800	\$ 0.100000	\$
HATURAL GAS SERVICE	-	214	2022	8/1/2022	9/1/2022	401412022	441412022	11/1/2022	1/1/2023	2000000	3/1/2023	4/1/2023	5/1/2023	6/1/2023	7/*
Sorvico Datos	From		2022 /2022	8/31/2022	9/30/2022	10/1/2022	11/1/2022	12/31/2022	1/31/2023	2/1/2023	3/31/2023	4/30/2023	5/31/2023	6/30/2023	6/3
JTILITY LDC INVOICE DATA	Start		,293	632,729	658,190	686,094	727,843	784,921	857,023	922,804	974,308	1,028,585	1,067,340	1,097,920	673
JILITEDO INVOICEDATA	Ending			658,190		727,843	784,921	857,023	922,804	974,308	1,028,585	1,067,340	1,097,920	1,123,329	
JTILITY METER Multiplior	Enainq		729	10	686,094	10	10	10	10	10	1,020,505	1,061,340	10	1,123,329	
EATFACTOR			071	1.069	1.070	1.071	1.065	1.064	1.064	1.063	1.067	1.070	1.069	1.063	
Service Period Ure	CCF		,360	254,610	279,040	417,490	570,780	721,020	657,810	515,040	542,770	387,550	305,800	254,090	5,1
	Dth	25,0	91.3	27,211.2	29,864.0	44,695.6	60,806.7	76,730.2	69,983.7	54,769.4	57,939.4	41,451.6	32,692.9	27,012.3	548
Service Period Charges	-			AZ 351 44	A/ 35* **				A/ 35* **	AZ 352 22	A4 354 44			A/ 35:	-
CONSULTANTS			6,251.46	\$6,251.46	\$6,251.46	\$6,251.46	\$6,251.46	\$6,251.46	\$6,251.46	\$6,251.46	\$6,251.46	\$6,251.46	\$6,251.46	\$6,251.46	75,
NASHVILLELDC			,725.37	\$ 18,637.87	\$ 19,779.75	\$ 26,163.91	\$ 31,190.98	\$ 39,952.99	\$ 37,049.01	\$ 30,500.12	\$ 30,683.31	\$ 24,767.56	\$ 20,989.54	\$ 18,545.28	315
CNEG		 	2,004.11	\$ 170,652.71	\$ 192,785.57	\$ 244,326.96	\$ 326,832.84	\$ 428,117.09	\$ 392,814.20	\$ 309,044.43	\$ 274,566.53	\$ 192,186.30	\$ 143,933.46	\$ 127,223.16	2,93
TOTAL	\$	\$ 155	,980.94	\$195,542.04	\$ 218,816.78	\$ 276,742.33	\$ 364,275.28	\$ 474,321.54	\$ 436,114.67	\$ 345,796.01	\$ 311,501.30	\$ 223,205.32	\$ 171,174.46	\$ 152,019.90	\$ 3,3
Avorago Chargo	\$/Dth	\$	6.2165	\$ 7.1861	\$ 7.3271	\$ 6.1917	\$ 5.9907	\$ 6.1817	\$ 6.2317	\$ 6.3137	\$ 5,3763	\$ 5.3847	\$ 5.2358	\$ 5.6278	\$
WATER SERVICE (DOMESTI															
Sorvico Datos	From		72022	7/31/2022	8/31/2022	9/30/2022	10/31/2022	11/30/2022	12/31/2022	1/31/2023	2/28/2023	3/31/2023	4/30/2023	5/31/2023	643
	To	7/31	/2022	8/31/2022	9/30/2022	10/31/2022	11/30/2022	12/31/2022	1/31/2023	2/28/2023	3/31/2023	4/30/2023	5/31/2023	6/30/2023	6/3
ITILITY CEPS INVOICE DATA ENTR															
DOMESTIC	Start														
	Ending														
PLANTMETER #1	Start						<u> </u>	<u> </u>					<u> </u>		
	Ending														
PLANT METER #2	Start														
	Ending														
Sarvica Pariod Ura															
DOMESTIC	CCF		15	48	58	25	13	15	250	21	21	17	12	20	
PLANT METER #1	CCF	25	603	28,753	24,320	18,439	11,741	11,062	11,203	9,807	11,525	13,345	11,877	19,500	19
PLANTMETER #2	CCF														
TOTAL	CCF	25	618	28,801	24,378	18,464	11,754	11,077	11,453	9,828	11,546	13,362	11,889	19,520	19
PLANTONLY	CCF	25	603	28,753	24,320	18,439	11,741	11,062	11,203	9,807	11,525	13,345	11,877	19,500	19
	GALLONS	19,15	1,044	21,507,244	18,191,360	13,792,372	8,782,268	8,274,376	8,379,844	7,335,636	8,620,700	9,982,060	8,883,996	14,586,000	147,
Sorvico Poriad Chargos															
DOMESTIC	WATER\$	*	84.86	\$ 182.21	\$ 211.71	\$ 114.36	\$ 78.96	\$ 84.86	\$ 778.11	\$ 105.66	\$ 105.66	\$ 93.50	\$ 78.30	\$ 102.62	\$
	SEWER\$	\$	230.35	\$ 436.93	\$ 499.53	\$ 292.95	\$ 217.83	\$ 230.35	\$ 1,701.45	\$ 276.00	\$ 276.00	\$ 250.20	\$ 217.95	\$ 269.55	\$
PLANT	WATER\$	\$ 75	,713.03	\$ 85,005.53	\$ 71,928.18	\$ 54,579.23	\$ 34,820.13	\$ 32,817.08	\$ 33,233.03	\$ 30,002.98	\$ 35,225.70	\$ 40,758.50	\$ 36,295.78	\$ 59,469.70	\$ 5
	SEWER\$	\$ 40	,064.00	\$ 44,996.88	\$ 38,060.80	\$ 28,852.34	\$ 18,373.10	\$ 17,308.90	\$ 17,528.00	\$ 15,808.95	\$ 18,582.45	\$ 21,517.20	\$ 19,150.05	\$ 31,443.75	\$ 3
STATEFEE@	10%	\$ 11	,909.23	\$ 13,362.15	\$ 11,370.02	\$ 8,683.89	\$ 5,691.00	\$ 5,386.12	\$ 5,624.06	\$ 4,919.36	\$ 5,718.99	\$ 6,561.94	\$ 5,874.21	\$ 9,638.56	\$
TOTAL	·····		,001.47	\$ 143,983.70	\$ 122,070.24	\$ 92,522.77	\$ 59,181.02	\$ 55,827.31	\$ 58,864.65	\$ 51,112.95	\$ 59,908.80	\$ 69,181.34	\$ 61,616.29	\$ 100,924.18	\$ 1,0
PLANT, WATER ONLY	\$	\$ 75	,713.03	\$ 85,005.53	\$ 71,928.18	\$ 54,579.23	\$ 34,820.13	\$ 32,817.08	\$ 33,233.03	\$ 30,002.98	\$ 35,225.70	\$ 40,758.50	\$ 36,295.78	\$ 59,469.70	\$ 5
Avorago Chargo	\$/kGall	\$	3.9535	\$ 3.9524	\$ 3.9540	\$ 3.9572	\$ 3.9648	\$ 3,9661	\$ 3.9658	\$ 4.0900	\$ 4.0862	\$ 4.0832	\$ 4.0855	\$ 4.0772	\$
				•					•			•			·
ONTHLT FEAT							•					•		•	
Sorvico Datos	Fram		2022	8/1/2022	9/1/2022	10/1/2022	11/1/2022	12/1/2022	1/1/2023	2/1/2023	3/1/2023	4/1/2023	5/1/2023	6/1/2023	7/:
	To		/2022	8/31/2022	9/30/2022	10/31/2022	11/30/2022	12/31/2022	1/31/2023	2/28/2023	3/31/2023	4/30/2023	5/31/2023	6/30/2023	6/3
STEAM ELECTRIC	- '9		4.51	\$391.69	\$483.24	\$1,277.69	\$2,092.36	\$2,742.98	\$2,408.59	\$1,844.22	\$1,743.40	\$1,017.03	\$520.88	\$309.60	\$15
	·····-		7.99			\$1,277.69				\$1,844.22	\$1,743.40		\$520.88 \$443.74	\$309.60 \$509.32	
FUEL GAS				-\$143.72	-\$637.46	_	-\$2,102.74	-\$2,386.14	-\$9,306.32			-\$969.25	_		-\$10
WATER			30.85	-\$549.41	-\$137.19	-\$79.28	-\$497.74	-\$916.15	-\$980.14	-\$414.21	-\$75.36	-\$465.02	-\$657.78	-\$944.09	-\$6
CHW ELECTRIC			97.37	\$9,182.03	\$9,407.75	\$11,758.01	\$9,069.78	\$8,703.83	\$8,902.37	\$7,181.00	\$8,579.05	\$6,758.76	\$6,433.32	\$3,595.15	\$100
FUEL GAS	L		.00	\$0.00	\$0.00	\$0.00 \$333.00	\$0.00 \$589.80	\$0.00 \$644.74	\$0.00 \$595,16	\$0.00 \$178.83	\$0.00 \$399.01	\$0.00 -\$264.93	\$0.00 -\$1,950.01	\$0.00 -\$5,444,44	-\$8
WATER			19.33	-\$847.55	-\$1,135.24										



					_		
SUMMARY	ELECTRIC FEA	FUEL GAS FEA	VATER FEA	System TOTAL] [Include FEA	
STEAMSYSTEM	\$14,141.33	\$1,208.59	(\$6,028.02)	\$9,321.90		in INVOICE	
CHILLED WATER SYSTEM	\$75,819.83	\$0.00	(\$180.90)	\$75,638.93		(YESANO)	
TOTAL	\$89,961.16	\$1,208.59	(\$6,208.92)	\$84,960.83		YES	
ELECTRICITY-TO-STEAM CONVERSI							
CONTRACTUAL GUARANTEE	4.500	kWh per mlb sold		YBONUS CALCU		PENALTY	BONUS
Metering Inaccuracy Buffer	0%		RATE VARIA		kWh per mlb sold	0.000	1.656587
GUARANTEED MAX QUANTITY	4.500000	kWh per mlb sold	STEAM SOLE)	342,268.552 mlb		
CEPS FUEL EFFICIENCY ADJUSTM	4.500000	kWh per mlb sold	VARIANCE in	kWh = BATE YARIA	NCE x STEAM SOLD	0	566,997
CEPS ACTUAL CONVERSION RATE	2.843413	kWh per mlb sold	AVERAGE EL	ECTRIC PRICE	\$0.0997637kWh		
			CEPS PENAL	TY/BONUS		\$0.00	\$14,141.33
			NOTE: Pe	nalty at 100% of varia	nce and Bonus at 25% o	of variance	
FUEL GAS-TO-STEAM CONVERSION							
CONTRACTUAL GUARANTEE (vari	es by Condensate Re	eturn, see below)	CNE PENALTY	YBONUS CALCU	LATION	PENALTY	BONUS
Given Condensate Return at	71%	of Send-out	RATE VARIA	VCE	Dth. per mlb sold	0.000	0.002
	175 F	avg. Temp.	STEAM SEN)-OUT	398,649 mlb		
GUARANTEED MAX QUANTITY	1.377000	Dth.per mlb sold	VARIANCE in	Dth. = RATE VARIA	NCE x STEAM SOLD	0	797
CEPS FUEL EFFICIENCY ADJUSTM	1.377000	Dth.per mlb sold	AVERAGE FU	EL PRICE	\$6.06570 / Dth.		••••••
CEPS ACTUAL CONVERSION RATE	1.375000	Dth.per mlb sold	CEPS PENAL		iii	\$0.00	\$1,208.59
			NOTE: Pe	nalty at 100% of varia	nce and Bonus at 25% o	of variance	
WATER-TO-STEAM CONVERSION							
CONTRACTUAL GUARANTEE (vari	es by Plant Send-out	, see below))	CNE PENALTY	YBONUS CALCU	LATION	PENALTY	BONUS
PLANT LOSSES	15%		VARIANCE in	gallons = GMQ - CE	S ACTUAL USE	-1,507,268	0
VOLUMETRIC CONVERSION	7.4805	gallons per cft	AVERAGE V.	ATER PRICE	\$3.9993 / kGall		
CONDENSATE RETURN SPEC. VOI	8.15585	gall per lb	CEPS PENAL	TY/BONUS 📠	i i	-\$6,028.02	\$0.00
GUARANTEED MAX QUANTITY	16,370,156	gallons	Average i	rater pice excludes se	wer.		
CEPS ACTUAL USE	17,877,424	gallons /					
			NOTE: Pe	nalty at 100% of varia	nce and Bonus at 25% o	of variance	
ELECTRICITY-TO-CHILLED WATER C	ONVERSION						
CONTRACTUAL GUARANTEE	0.930	kWh per ton-hr sold	CNE PENALTY	BONUS CALCU	LATION	PENALTY	BONUS
Metering Inaccuracy Buffer	0%		BATE VARIA		kWh per ton-hr sold	0.000	0.04844448
	0.93000000	kWh per ton-hr sold	CHILLED WA		62,752,210 ton-hrs		
GHARANTEED MAX DHANTITY	0.93000000	kWh per ton-hr sold		kWh = BATE VARIA		0	3,039,998
GUARANTEED MAX QUANTITY CEPS FUEL FEEICIENCY ADJUSTM							
CEPS FUEL EFFICIENCY ADJUSTM			AVERAGE FL		\$0.0997637kWh		
	0.88155552	kWh per ton-hr sold		ECTRIC PRICE	\$0.0997637kWh	\$0.00	\$75,819,83
CEPS FUEL EFFICIENCY ADJUSTM			CEPS PENAL	ECTRIC PRICE TY / BONUS		\$0.00	\$75,819.83
CEPS FUEL EFFICIENCY ADJUSTIV CEPS ACTUAL CONVERSION RATE	0.88155552		CEPS PENAL	ECTRIC PRICE TY / BONUS	\$0.099763 ł k Wh noe and Bonus at 25% o		\$75,819.83
CEPS FUEL EFFICIENCY ADJUSTIV CEPS ACTUAL CONVERSION RATE	0.88155552		CEPS PENAL <i>MOTE: Pa</i>	ECTRIC PRICE TY / BONUS	nce and Bonus at 25% o		\$75,819.83 BONUS
CEPS FUEL EFFICIENCY ADJUSTM CEPS ACTUAL CONVERSION RATI WATER-TO-CHILLED WATER CONVE CONTRACTUAL GUARANTEE	0.88155552 RSION 2.000	kWh per ton-hr sold	CEPS PENAL NOTE: P	ECTRIC PRICE TY / BONUS mally at 100% of varia '/BONUS CALCU	nce and Bonus at 25% o	PENALTY	
CEPS FUEL EFFICIENCY ADJUSTM CEPS ACTUAL CONVERSION RATI WATER-TO-CHILLED WATER CONVE CONTRACTUAL GUARANTEE Metering Inacouracy Buffer	0.88155552 RSION 2.000 0×	kWh per ton-hr sold	CEPS PENAL NOTE: Po CNE PENALTY RATE VARIA	ECTRIC PRICE TY / BONUS mally at 190% of varia YBONUS CALCU NCE	nce and Bonus at 25% of LATION gall per ton-hr sold	of variance	BONUS
CEPS FUEL EFFICIENCY ADJUSTM CEPS ACTUAL CONVERSION RATI WATER-TO-CHILLED WATER CONVE CONTRACTUAL GUARANTEE Metering Inacouracy Buffer GUARANTEED MAX QUANTITY	0.88155552 PSION 2.000 0× 2.000000	kWh per ton-hr sold gall per ton-hr sold gall per ton-hr sold	CEPS PENAL NOTE: PA CNE PENALTY RATE VARIA CHILLED VA	ECTRIC PRICE TY / BONUS nally at IMMs of varia TBONUS CALCU NCE TER SOLD	nce and Bonus at 28% of LATION gall per ton-hr sold 62,752,210 ton-hrs	PENALTY -0.000721	BONUS 0.000
CEPS FUEL EFFICIENCY ADJUSTM CEPS ACTUAL CONVERSION RATI WATER-TO-CHILLED WATER CONVE CONTRACTUAL GUARANTEE Metering Inaccuracy Buffer GUARANTEED MAX QUANTITY CEPS FUEL EFFICIENCY ADJUSTM	0.88155552 PSION 2.000 0% 2.000000 2.000000	gall per ton-hr sold gall per ton-hr sold gall per ton-hr sold gall per ton-hr sold	CEPS PENAL NOTE: PE CNE PENALTY RATE VARIA CHILLED VA VARIANCE IN	ECTRIC PRICE TY / BONUS nally at 100% of varia '/BONUS CALCUI NCE TER SOLD gallons = RATE VAF	nce and Bonus at 25% of LATION gall per ton-hr sold 62,752,210 ton-hrs NANCE x CHW SOLD	PENALTY	BONUS
CEPS FUEL EFFICIENCY ADJUSTM CEPS ACTUAL CONVERSION RATI WATER-TO-CHILLED WATER CONVE CONTRACTUAL GUARANTEE Metering Inacouracy Buffer GUARANTEED MAX QUANTITY	0.88155552 PSION 2.000 0× 2.000000	kWh per ton-hr sold gall per ton-hr sold gall per ton-hr sold	CEPS PENAL NOTE: PA CNE PENALTY RATE VARIA CHILLED VA	ECTRIC PRICE TY / BONUS nally at 100% of varia '/BONUS CALCU NGE TER SOLD gallons = RATE VAR	nce and Bonus at 28% of LATION gall per ton-hr sold 62,752,210 ton-hrs	PENALTY -0.000721	BONUS 0.000

TEAM SYSTE	М				CHILLED VAT	ER SYSTEM		
	CALCULATED	RECONCILED	VARIANCE			CALCULATED	RECONCILED	VARIANO
ELECTRIC	\$15,056.19	\$14,141.33	(\$914.86)		ELECTRIC	\$100,468.42	\$75,819.83	(\$24,648.5
FUEL GAS	(\$10,581.71)	\$1,208.59	\$11,790.30		FUEL GAS	\$0.00	\$0.00	\$0.00
VATER	(\$6,047.22)	(\$6,028.02)	\$19.20		VATER	(\$8,520.96)	(\$180.90)	\$8,340.00
TOTAL	(\$1,572.74)	\$9,321.90	\$10,894.64		TOTAL	\$91,947.46	\$75,638.93	(\$16,308.
COMPARISO	N AMOUNT CO	LLECTED BY N	METRO VS 97-	13 CAP				
COMPARISO		OLLECTED BY N	METRO VS 97-	13 CAP EA RECONCILEI	METRO OVES	USTOMER OVE	3	
COMPARISO			METRO VS 97-		METRO OVES	USTOMER OVE	S	
COMPARISO ELECTRIC	FEA COLLECT	ED BY METRO		EA RECONCILEI			3	
	FEA COLLECT STEAM	ED BY METRO CHILLED VATER	TOTAL	EA RECONCILEI	CNE.	METRO	3	
ELECTRIC	FEA COLLECT STEAM \$15,056.19	ED BY METRO CHILLED WATER \$100,468.42	TOTAL \$115,524.61	CNE \$89,961.16	CNE * (\$25,563.45)	METRO (\$25,563,45)	5	



Month			7	8	9	10	11	12	1	2	3	4	5	6	TOTAL
DATE OF REA	DINGS	From	7/1/2022	8/1/2022	9/1/2022	10/1/2022	11/1/2022	12/1/2022	1/1/2023	2/1/2023	3/1/2023	4/1/2023	5/1/2023	6/1/2023	7/1/2022
coincides with	Customer Dates)	To	7/31/2022	8/31/2022	9/30/2022	10/31/2022	11/30/2022	12/31/2022	1/31/2023	2/28/2023	3/31/2023	4/30/2023	5/31/2023	6/30/2023	6/30/2023
ELECTRIC N	IETERS														
SVG-2A		Start Reading	57,527.40	59,248.80	60,436.42	61,460.48	62,397.59	63,252.99	64,090.24	64,422.18	64,702.46	65,533.65	66,927.89	67,170.00	
		End Reading	59,248.80	60,436.42	61,460.48	62,397.59	63,252.99	64,090.24	64,422.18	64,702.46	65,533.65	66,927.89	67,170.00	67,268.31	
F	eriod Use in units =	1,000 x kWh	1,721,400	1,187,620	1,024,060	937,110	855,400	837,250	331,940	280,280	831,190	1,394,240	242,110	98,310	9,740
SVG-2B		Start Reading	123,980.84	125,433.91	127,069.63	128,001.82	128,800.56	129,286.27	129,800.76	130,655.11	131,290.92	131,628.13	131,903.85	133,318.69	
		End Reading	125,433.9	127,069.63	128,001.82	128,800.56	129,286.27	129,800.76	130,655.11	131,290.92	131,628.13	131,903.85	133,318.69	135,458.49	
F	eriod Use in units =	1,000 x kWh	1,453,070	1,635,720	932,190	798,740	485,710	514,490	854,350	635,810	337,210	275,720	1,414,840	2,139,800	11,477,
SVG-3A		Start Reading	97,454.80	99,621.89	101,171.73	102,583.17	102,817.57	102,948.94	102,971.99	103,601.06	103,860.17	104,404.31	105,410.29	106,715.67	
		End Reading	99,621.89	101,171.73	102,583.17	102,817.57	102,948.94	102,971.99	103,601.06	103,860.17	104,404.31	105,410.29	106,715.67	108,700.57	
F	eriod Use in units =	1,000 x kWh	2,167,090	1,549,840	1,411,440	234,400	131,370	23,050	629,070	259,110	544,140	1,005,980	1,305,380	1,984,900	11,245,
SVG-3B		Start Reading	2,055.09	3,701.63	5,633.26	6,899.59	7,757.89	8,575.00	9,120.45	9,196,23	9,991,21	10,502.92	10,529.20	11,471,49	
		End Reading	3,701.63		6,899,59	7,757.89	8,575,00	9,120,45	9,196,23	9,991,21	10,502.92	10,529,20	11,471,49	12,103,56	
F	eriod Use in units =	1.000 x kWh	1,646,540		1,266,330	858,300	817.110	545,450	75,780	794,980	511.710	26,280	942,290	632,070	10.048.
SVG-4A		Start Reading	25,907,512.00	26,424,606.00	26,954,704.00	27,343,360.00	27,532,181.00	27,692,285.00	27,775,614.00	27,928,544.00	28,067,360.00	28,344,444.00	28,660,967.00	28,981,675.00	
		End Reading	26,424,606.00	26,954,704.00	27,343,360.00	27,532,181.00	27,692,285.00	27,775,614.00	27,928,544.00	28,067,360.00	28,344,444.00	28,660,967.00	28,981,675.00	29,229,277.00	
F	eriod Use in units =	1xkWh	517,094	530,098	388,656	188,821	160,104	83,329	152,930	138,816	277.084	316,523	320,708	247,602	3,321
SVG-4B		Start Reading	10,482,384.00	10,681,729.00	10,896,785.00	11,098,111.00	11,273,839.00	11,426,606.00	11,587,148.00	11,687,397.00	11,781,760.00	11,781,760.00	11,791,936.00	11,907,437.00	
		End Reading	10,681,729.00	10,896,785.00	11,098,111.00	11,273,839.00	11,426,606.00	11,587,148.00	11,687,397.00	11,781,760.00	11,781,760.00	11,791,936.00	11,907,437.00	12,237,658.00	
F	eriod Use in units =	1xkWh	199.34	215.056	201.326	175.728	152.767	160.542	100.249	94,363		10.176	115.501	330,221	1.755.
SVG-5A		Start Reading	15,734,401.00	15,919,497.00	16,139,541.00	16,318,037.00	16,479,566.00	16,504,740.00	16,560,633.00	16,740,020.00	16,766,090.00	16,826,673.00	16,978,277.00	17,122,931.00	
		End Reading	15,919,497.00	16,139,541,00	16,318,037,00	16,479,566.00	16,504,740.00	16,560,633.00	16,740,020.00	16,766,090,00	16,826,673.00	16,978,277,00	17.122.931.00	17.132.628.00	
F	eriod Use in units =	1xkWh	185.096	220,044	178,496	161,529	25,174	55,893	179.387	26,070	60,583	151,604	144,654	9,697	1,398
SVG-5B		Start Reading	209,538.00	464,841.00	644,947.00	795,467.00	861,886,00	1,051,455.00	1,191,474.00	1,191,474.00	1,350,346.00	1,492,388.00	1,561,672.00	1,731,445.00	
		End Reading	464,841,00	644,947,00	795,467.00	861,886.00	1,051,455.00	1,191,474.00	1,191,474.00	1,350,346,00	1,492,388.00	1,561,672,00	1,731,445,00	2,091,552.00	
F	eriod Use in units =	1xkWh	255.300	180,106	150.520	66,419	189,569	140,019	0	158,872	142.042	69,284	169,773	360,107	1.882
MCC-1		Start Reading	1,962,321.00	2,207,741.00	2,444,955.00	2,633,949.00	2,727,921.00	2,799,077.00	2,865,969,00	2.912.052.00	2,967,415.00	3.042.666.00	3,145,969.00	3,304,343.00	
		End Reading	2,207,741.00	2,444,955.00	2,633,949.00	2,727,921.00	2,799,077.00	2,865,969.00	2,912,052.00	2,967,415.00	3,042,666.00	3,145,969.00	3,304,343.00	3,508,256.00	
	eriod Use in units =	1xkWh	245,420	237,214	188,994	93,972	71,156	66,892	46,083	55,363	75,251	103,303	158,374	203,913	1,545.
MCC-2		Start Reading	287,316.30	25,066.47	60,638.28	58,472.61	73,242.81	56,402.00	16,334.90	88,058,50	63,108,30	43,792.80	39,984.40	80,665.50	1,010,
1-100 E		End Reading	325,066.4	260,638.28	258,472.61	73,242.81	156,402,00	116,334,90	88.058.50	163,108,30	143,792.80	139,984.40	180,665,50	262,577.50	
F	eriod Use in units =	1xkWh	37,750	235,572	197.834	14,770	83,159	59.933	71.724	75.050	80.685	96.192	140.681	181.912	1,275
MCC-3		Start Reading	32,693,8	50,555,96	51,310,82	51,777,14	56,872,60	89,137,40	17,183,90	45,921,60	89,015,20	49,722,20	72,023,30	96,894.80	1,210
1-100-0		End Reading	50,555.96	51,310.82	51,777.14	56,872.60	89,137.40	117.183.90	45,921.60	89,015,20	149,722.20	72,023.30	96,894.80	121,974.40	
	eriod Use in units =	1xkWh	17.862		466	5.095	32.265	28.047	28.738	43,094	60.707	22,301	24.872	25.080	289
MCC-4		Start Reading	44,134.6	77,494.64	29,810.71	81,959.11	46,554.80	6,854,30	4,173.80	94,150.10	51,489.80	91,228.80	35,642.20	68,194.60	203
1-100-7		End Reading	77,494.64	129,810,71	23,810.71	146,554,80	106,854,30	104,173,80	94,173,80	151,489,80	91,228,80	135.642.20	68,194,60	95,886,80	
	eriod Use in units =	1xkWh	33,360		52,148	64,596	60,300	97.320	94,150.10 89.976	57,340	39,739	44.413	32,552	27.692	651
NOTES:	erioù ose in units :	iskwn	33,361	52,316	52,148	64,036	60,300	87,320	88,876	57,340	38,738	44,413	32,002	27,682	601
NUTES:															



T_6120: Propane Gas Ava	ilable for Use	13,950.00	13,950.00	13,950.00	13,950.00	13,950.00	13,950.00	13,950.00	13,590.00	13,500.00	13,500.00	13,500.00	13,500.00	
End	ding Inventory	13,950.00	13,950.00	13,950.00	13,950.00	13,950.00	13,950.00	13,590.00	13,500.00	13,500.00	13,500.00	13,500.00	13,500.00	
Period Use in units =	Gallons	0.00	0.00	0.00	0.00	0.00	0.00	360.00	90.00	0.00	0.00	0.00	0.00	
Period Use in units = Ga	allons Per DT	10.989	10.989	10.989	10.989	10.989	10.989	10.989	10.989	10.989	10.989	10.989	10.989	
IQY_3000: Stm Sendout	Start Reading	1,490,705	1,509,094	806,819	828,624	861,086	904,952	960,150	1,009,912	1,050,815	1,093,014	1,122,945	1,147,126	
	End Reading	1,509,094	1,528,947	828,624	861,086	904,952	960,150	1,009,912	1,050,815	1,093,014	1,122,945	1,147,126	1,167,226	
Period Use in units =	1xMLB	18,389	19,853	21,805	32,462	43,866	55,198	49,762	40,903	42,199	29,931	24,181	20,100	398,
	Start Reading	187,315	290,563	385,139	457,521	503,909	541,994	574,000	605,404	638,245	675,595	720,103	781,749	
	End Reading	290,563	385,139	457,521	503,909	541,994	574,000	605,404	638,245	675,595	720,103	781,749	856,121	
Period Use in units =	1x TON-HRS	10,324,800	9,457,600	7,238,200	4,638,800	3,808,500	3,200,600	3,140,400	3,284,100	3,735,000	4,450,800	6,164,600	7,437,200	66,880,
	Start Reading	29,511,704	31,089,886	32,897,222	34,852,041	37,570,829	41,555,147	46,215,354	50,736,416	54,329,678	57,430,647	59,975,168	62,272,107	
	End Reading	31,089,886	32,897,222	34,852,041	37,570,829	41,555,147	46,215,354	50,736,416	54,329,678	57,430,647	59,975,168	62,272,107	64,155,689	
Period Use in units =	1x GALL	1,578,182	1,807,336	1,954,819	2,718,788	3,984,318	4,660,207	4,521,062	3,593,262	3,100,969	2,544,521	2,296,939	1,883,582	34,643,
/Q_8100: Cond. Return	Start Reading	67,985	69,900	72,056	74,481	77,727	82,169	87,505	92,612	96,709	100,358	103,351	106,092	
	End Reading	69,900	72,056	74,481	77,727	82,169	87,505	92,612	96,709	100,358	103,351	106,092	108,408	
Period Use in units =	1xmmBtu	1,915	2,156	2,425	3,246	4,442	5,336	5,107	4,097	3,649	2,993	2,741	2,316	40,
ondensate Return Temp		181 °F	178 F	184 F	178 F	169 F	172 F	171 F	172 F	176 F	176 F	178 F	183 °F	17
T_4500: MUV, Stm.	Start Reading	5,429,800	6,282,950	7,134,340	7,987,040	9,443,150	1,154,850	3,783,410	5,827,490	7,546,770	9,925,500	1,319,610	2,239,530	
	End Reading	6,282,950	7,134,340	7,987,040	9,443,150	11,154,850	3,783,410	5,827,490	7,546,770	9,925,500	11,319,610	2,239,530	3,130,220	
Period Use in units =	1x GALL	853,150	851,390	852,700	1,456,110	1,711,700	2,628,560	2,044,080	1,719,280	2,378,730	1,394,110	919,920	890,690	17,700,
T_4200: MUV, CV.	Start Reading	69,255,000	88,984,000	6,734,000	20,368,000	28,532,000	34,843,000	39,854,000	44,843,000	50,272,000	56,363,000	64,016,000	75,408,000	
	End Reading	88,984,000	106,734,000	20,368,000	28,532,000	34,843,000	39,854,000	44,843,000	50,272,000	56,363,000	64,016,000	75,408,000	89,873,000	
Period Use in units =	1x GALL	19,729,000	17,750,000	13,634,000	8,164,000	6,311,000	5,011,000	4,989,000	5,429,000	6,091,000	7,653,000	11,392,000	14,465,000	120,618
T_4100: MUV, CHV.	Start Reading	38,385,600	38,573,971	280,080	607,669	965,087	315,119	787,119	609,814	35,691	530,535	54,278	506,617	
	End Reading	38,573,971	38,905,693	607,669	965,087	1,315,119	787,119	1,609,814	1,035,691	530,535	1,054,278	506,617	1,071,876	
	1x GALL	188,371	331,722	327,589	357,418	350,032	472,000	442,458	425,877	494,844	523,743	452,339	565,259	
Excess	s of Daily Cap	0	0	0	0	0	0	380,237	0	0	0	0	0	
Period Use in units =	1x GALL	188,371	331,722	327,589	357,418	350,032	472,000	442,458	425,877	494,844	523,743	452,339	565,259	4,931
PLANT VATER Start Read	ing in 10 x seft	0	0	0	0	0	0	0	0	0	0	0	0	
TILITY METER Start Read	ing in 10 x soft	0	0	0	0	0	0	0	0	0	0	0	0	
Period Use in units =	1xSCFT	0	0	0	0	0	0	0	0	0	0	0	0	
	Start Reading	225,314	253,332	27,867,700	29,853,000	31,195,500	32,316,800	33,418,900	34,485,400	35,510,100	36,733,500	38,023,100	39,743,400	
TILITY METER	End Reading	253,332	278,677	29,853,000	31,195,500	32,316,800	33,418,900	34,485,400	35,510,100	36,733,500	38,023,100	39,743,400	41,883,700	I
Period Use in units =	1xSCFT	28,018	25,345	1,985,300	1,342,500	1,121,300	1,102,100	1,066,500	1,024,700	1,223,400	1,289,600	1,720,300	2,140,300	14,069,
* DOMESTIC VATER	Start Reading	67.0	109.0	170.0	198.0	210.0	224.0	446.0	493.0	512.0	531.0	552.0	572.0	
TILITY METER	End Reading	109.0	170.0	198.0	210.0	224.0	446.0	493.0	512.0	531.0	552.0	572.0	594.0	
Period Use in units =	1xSCFT	42	61	28	12	14	222	47	19	19	21	20	22	



PERFORMANCE CALCUI		7	8	9	10	11	12	13	14	15	16	17	18	TOTAL
ELECTRIC-to-STEAM CONV	EDEION	-		3	10		IZ	13	17	19	10	"	16	TOTAL
Emainutilitu	EHSIUN kWh	8.807.	568 8,057,95	2 6,094,844	3,808,000	3,175,004	2,734,144	2,686,348	2,729,888	3,086,888	3,630,060	5,132,176	6.349.896	56,292,76
	kWh													
Echw,metered		8,428			3,529,789	2,971,519	2,486,848	2,441,513	2,518,714	2,859,894	3,449,302	4,954,311	6,188,532	53,691,276
Esteam,metered	kWh	51,	222 53,07		69,691	92,565	125,367	118,714	100,434	100,446	66,714	57,424		941,034
Esteam,unmetered	kWh		540.	0 884.0	3,816.0	3,234.0	5,591.0	5,574.0	4,074.0	4,118.0	2,096.0	1,348.0	902.0	32,177
CAPACITY TEST ADJU			0	0 0	0		0	0	0	0	0	0	0	
Esteam,total	kWh		222 53,6		73,507	95,799	130,958	124,288	104,508	104,564	68,810	58,772	53,674	973,21
Customer Steam, Sn+e	lbs	13,724,			27,058,318	39,597,333	51,451,313	46,526,964	37,066,667	38,328,673	24,602,075	18,076,583	14,551,718	342,268,552
nelec, actual	kVh/klb	3.	732 3.53	8 3.316	2.717	2.419	2.545	2.671	2.819	2.728	2.797	3.251	3.688	2.843413
FUEL GAS-to-STEAM CONV								<u> </u>						
Metered Plant Steam Send-out	lbs	18,389	000 19,853,00	0 21,805,000	32,462,000	43,866,000	55,198,000	49,762,000	40,903,000	42,199,000	29,931,000	24,181,000	20,100,000	398,649,000
CAPACITY TEST AD.			0	0 0	0	0	0	0	0	0	0	0	0	
ADJUSTED Plant Steam SO	lbs	18,389			32,462,000	43,866,000	55,198,000	49,762,000	40,903,000	42,199,000	29,931,000	24,181,000	20,100,000	398,649,000
Natural Gas use, NG	Dth	25,0	91.3 27,211.	2 29,864.0	44,695.6	60,806.7	76,730.2	69,983.7	54,769.4	57,939.4	41,451.6	32,692.9	27,012.3	548,248.3
Propane Gas use, P	gallon		0	0 0	0	0	0	360	90	0	0	0	0	450
	Dth		0	0 0	0	0	0	33	8	0	0	0	0	4
CAPACITY TEST ADJ	JSTMENT, Dth		0.0 0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(
TOTAL FUEL GAS USE	Dth	25,0	91.3 27,211.	29,864.0	44,695.6	60,806.7	76,730.2	70,016.7	54,777.6	57,939.4	41,451.6	32,692.9	27,012.3	548,289.5
nhhv,actual	Dth/klb	1.3	64 1.37	1.370	1.377	1.386	1.390	1.407	1.339	1.373	1.385	1.352	1.344	1.3750
Condensate Return, CR	gallon	1,578	182 1,807,33	6 1,954,819	2,718,788	3,984,318	4,660,207	4,521,062	3,593,262	3,100,969	2,544,521	2,296,939	1,883,582	34,643,98
	% of SO	70.	0% 74.25	73.12%	68.31%	74.08%	68.86%	74.10%	0.00%	0.00%	0.00%	0.00%	0.00%	70.885
Condensate Return Energy	mmBtu	1	915 2,15	6 2,425	3,246	4,442	5,336	5,107	4,097	3,649	2,993	2,741	2,316	40,42
Condensate Return Temperature	avg	19	1 F 178 1	F 184 F	178 F	169 F	172 F	171 ·F	172 F	176 F	176 F	178 F	183 F	175 1
nhhv,guarantee	Dth/klb												GUARANTEED MAX RATE	1.377000
													CES FEA RATE	1.377000
VATER-to-STEAM CONVER	SION													
Metered Steam Makeup, MW	Gallons	853	150 851,39	0 852,700	1,456,110	1,711,700	2,628,560	2,044,080	1,719,280	2,378,730	1,394,110	919,920	890,690	17,700,42
CAPACITY TEST ADJUST	MENT, Gallons		0	0 0	0	0	0	0	0	0	0	0	0	
ADJUSTED Steam Makeup, MW	Gallons	853	150 851,39	0 852,700	1,456,110	1,711,700	2,628,560	2,044,080	1,719,280	2,378,730	1,394,110	919,920	890,690	17,700,42
Actual Steam Makeup, nwater	Gallons	861	682 859,90	4 861,227	1,470,671	1,728,817	2,654,846	2,064,521	1,736,473	2,402,517	1,408,051	929,119	899,597	17,877,42
Guarantee Steam Makeup, nguar.	Gallons	777	996 720.89	8 826,530	1,450,636	1,603,276	2,423,850	1.817.374	1,635,198	2,384,075	1,294,164	768,116	668,043	16,370,15
ELECTRICITY-to-CHY CON	/ERSION													
Emainutility	kWh	8,807	568 8,057,95	2 6,094,844	3,808,000	3,175,004	2,734,144	2,686,348	2,729,888	3,086,888	3,630,060	5,132,176	6,349,896	56,292,76
CAPACITY TEST ADJU			ol	ol o	0	0	0	0	0	0	0	0	1 0	
Echw.metered	kWh	8,428	108 7,922,90	0 5,939,846	3,529,789	2.971.519	2,486,848	2,441,513	2,518,714	2,859,894	3,449,302	4,954,311	6,188,532	53,691,27
Esteam.total	kWh		222 53,6		73,507	95,799	130,958	124,288	104.508	104.564	68,810	58,772		973,21
Echwunmetered	kWh	328			204,704	107,686	116.338	120,547	106,666	122,430	111.948	119.093	107.690	1,628,28
Echw.total	kWh	8,756			3,734,493	3,079,205	2,603,186	2,562,060	2,625,380	2,982,324	3,561,250	5,073,404		55,319,55
	Ton-hrs	9,752			4,428,925	3,628,275	3,067,214	3,016,549	3,015,457	3,487,424	4,055,115	5,682,142	6,847,887	62,752,21
Customer CHW_CHWs+e	kWh/ton-hr		898 0,89		0.843	0,849	0,849	0,849	0,871	0.855	0,878	0,893	0.919	0.881556
Customer CHW, CHWs+e	~ = (OIII-III	0.	0.00	0.004	0.040	0.040	0.040	0.040	0.011	0.000	0.010	0.000	0.010	3.001330
nelec, actual									5.054.077	0.505.044	0.470.740	# 044 000		125,549,65
nelec, actual CV-to-CHV CONVERSION	Gallone	10 017	371 18 001 79	2 13 961 500	9 521 410	6.661.022	5 493 0001							
nelec, actual CV-to-CHV CONVERSION Cond Water Makeup incl loss , CM		19,917 9,752			8,521,418 4,428,925	6,661,032 3,629,275	5,483,000 3,067,214	5,431,458 3,016,549	5,854,877	6,585,844 3 497 424	8,176,743 4,055,115	11,844,339 5,692,142	15,030,259 6 947 997	
nelec, actual CV-to-CHV CONVERSION Cond Water Makeup incl loss , CM Customer CHV, CHVs+e	Gallons Ton-hrs	19,917 9,752, 2.0	209 8,934,98	3 6,836,030	8,521,418 4,428,925 1,9240	6,661,032 3,628,275 1,8359	5,483,000 3,067,214 1,7876	5,431,458 3,016,549 1,8006	3,015,457 1,9416	3,487,424 1,8885	4,055,115 2,0164	5,682,142 2,0845	6,847,887	62,752,21 2.00072



VATER METER CHECKS		9		9	10	11	12		2	3	4	5	c	тот
			0 507.044						 .			.	4 500 000	
Utility Meters - Utility Dates	gallons	19,151,044	21,507,244	18,191,360	13,792,372	8,782,268	8,274,376	8,379,844	7,335,636	8,620,700	9,982,060	8,883,996	14,586,000	147,486,
Utility Meters - Customer Dates	gallons	209,575	189,581	14,850,044	10,041,900	8,387,324	8,243,708	7,977,420	7,664,756	9,151,032	9,646,208	12,867,844	16,009,444	105,238,
variance (line 184-line 183)	gallons	-18,941,469	-21,317,663 -99%	-3,341,316 -18%	-3,750,472	-394,944	-30,668	-402,424 -5%	329,120	530,332 6%	-335,852 -3%	3,983,848 45%	1,423,444	-42,248,0
	DTAL (line 183)	-99%	-99%	-18%	-27%	-4%	0%	-9%	4%	6%	-3%	40%	10%	-28.6
Plant Meters			201700		057.440	050.000	470.000	440.450	405.077		F00.740	450.000	FOF OFO	4 004
CHV CV	gallons	188,371	331,722	327,589	357,418	350,032	472,000	442,458 4,989,000	425,877 5,429,000	494,844	523,743 7,653,000	452,339 11,392,000	565,259 14,465,000	4,931,0 120,618,0
STEAM	gallons	19,729,000 853,150	17,750,000 851,390	13,634,000 852,700	8,164,000 1,456,110	6,311,000 1,711,700	5,011,000 2,628,560	4,989,000 2,044,080	1,719,280	6,091,000 2,378,730	1,394,110	919,920	890,690	17,700.
TOTAL	gallons gallons						8,111,560							
		20,770,521 20,560,946	18,933,112	14,814,289 -35,755	9,977,528	8,372,732		7,475,538	7,574,157	8,964,574 -186,458	9,570,853 -75,355	12,764,259	15,920,949 -88,495	143,250,
variance (line 191-line 184)	gallons DTAL (line 184)	20,360,346	18,743,531 87%	-30,700	-64,372 0%	-14,592 0%	-132,148 -2%	-501,882 -6%	-90,599 -1%	-106,400	-70,300	-103,585 -1%	-00,430	38,011, 25.
7. OF 11	DTAL (line lo4)	107%	01%	0%	0%	0%	-27.	-6%	-124	-27.	-1%	-124	-17.	23.1
CV MUV CHECK		7	8	9	10	11	12	1	2	3	4	5	6	тот
CHW Send-out	ton-hrs	10,324,800	9,457,600	7,238,200	4,638,800	3,808,500	3,200,600	3,140,400	3,284,100	3,735,000	4,450,800	6,164,600	7,437,200	66,880,
CV MUV Rate	gall/ton-hr	1.911	1,877	1.884	1.760	1,657	1,566	1.589	1,653	1,631	1,719	1.848	1,945	1.
	gamtonin													
FINAL MAKEUP VATER RES	ULTS	7	8	9	10	11	12	1	2	3	4	5	6	TOI
CHV	gallons	188,371	331,722	327,589	357,418	350,032	472,000	442,458	425,877	494,844	523,743	452,339	565,259	4,931,
CW	gallons	19,729,000	17,750,000	13,634,000	8,164,000	6,311,000	5,011,000	4,989,000	5,429,000	6,091,000	7,653,000	11,392,000	14,465,000	120,618,
STEAM	gallons	853,150	851,390	852,700	1,456,110	1,711,700	2,628,560	2,044,080	1,719,280	2,378,730	1,394,110	919,920	890,690	17,700,
TOTAL	gallons	20,770,521	18,933,112	14,814,289	9,977,528	8,372,732	8,111,560	7,475,538	7,574,157	8,964,574	9,570,853	12,764,259	15,920,949	143,250,
variance	gallons	20,560,946	18,743,531	-35,755	-64,372	-14,592	-132,148	-501,882	-90,599	-186,458	-75,355	-103,585	-88,495	38,011,
	OTAL (line 184)	107%	87%	0%	0%	0%	-2%	-6%	1/4	0%	-1%	-1%	-1%	2
STEAM PLANT MASS BALA	NCE CK	7	8	9	10	11	12	1	2	3	4	5	6	тот
STEAM SENDOUT	klbs	18,389	19,853	21,805	32,462	43,866	55,198	49,762	40,903	42,199	29,931	24,181	20,100	398,
STEAM PRODUCTION	klbs	21,305	24,102	26,165	39,371	52,067	66,590	59,417	47.897	50,301	36,166	29,219	24,075	476,
		-2,916	-4,249	-4,360	-6,909	-8,201	-11,392	-9,655	-6,994	-8,102	-6,235	-5,038	-3,975	
CALC'D LOSSES													<u> </u>	
BLOVDOVN 4%	klbs	852	964	1,047	1,575	2,083	2,664	2,377	1,916	2,012	1,447	1,169	963	19,
DEA VENT 0.50%	klbs	107	121	131	197	260	333	297	1,916 239	252	181	146	120	2,
TOTAL CALC'D LOSSES	klbs	959	1,085	1,177	1,772	2,343	2,997	2,674	2,155	2,012 252 2,264	1,627	1,315	1,083	21,
CONDENSATE RETURN	gallons	1,578,182	1,807,336	1,954,819	2,718,788	3,984,318	4,660,207 38,008	4,521,062	3,593,262	3,100,969	2,544,521 20,753	2,296,939 18,733 7,677	1,883,582	34,643,
8.15585	klbs klbs	12,871	14,740	15,943	22,174	32,495		36,873	29,306	25,291	20,753	18,733	15,362	282
STEAM MUV 8.3453	klbs	7,120	7,105	7,116	12,152	14,285	21,936	17,058	14,348	19,851	11,634	7,677	1,883,582 15,362 7,433	147
TOTAL LEAVING PLANT	klhe	19,348	20,938	22,982	34,234	46,209	58,195	52,436	42 0E0	44.400	21 550	25.490	21102	420
TOTAL ENTERING PLANT	klbs klbs	19,991	21,845	23,059	34,326	46,780	59,944	53,932	43,050 43,054	45 14 2	37,000	25,496 26,410	21,183 22,795	430
OVERAGE / SHORTFALL		643	908	77	92	571		1496	75,037 596	680	92,301	915	1,612	10
S.E. MOLT OF OF THE ALL	klbs	3.3%	4.3%	0.3%	0.3%	1.2%	1,750 3.0%	1,496 2.9%	43,058 43,654 596 1.4%	44,463 45,142 680 1.5%	31,558 32,387 829 2.6%	3.6%	1,612 7.6%	2.4
FINAL CONDENSATE RETUR	N CALCULATION:	s			J.37.			2.07			2.074			
RECALC'D TOTAL ENTERING	klbs		21,566	23,672	35,261	47,595	59,940	54,009	44,350	45,796 25,945	32,505	26.261	21,819	
RECALC'D COND. RETURN	klbs	19,928 12,808	14,461	23,672 16,556	23,109	33,311	38,004	36,950	30,002	25,945	32,505 20,871	26,261 18,584	14,386	
	gallons	1,570,451	1,773,036	2,029,937	2,833,430	4,084,263	4,659,755	4,530,537	3,678,612	3,181,177	2,559,017	2,278,576	1,763,863	



Exhibit 1 – Performance Guarantee Calculation

T (cr,avg): Average Condensate Return Temperature =

EXHIBIT 1 - CALCUL	ATION DETAIL FOR PLANT PERFORM	IANCE PER APPEND	IX 19
ELECTRICITY-TO-S1	EAM CONVERSION		
(1) E (MainUtility) = total e	lectric use per main utilitymeters		56.292.768 kWh
	netered electric use for steam plant		941.034 kWh
MCC		289,282	,
MCO	-4	651,752	
(3) E (CHW,metered) = m	etered electric use for chilled water plant		53,691,276 kWh
	R-2A	9,740,910	
SWG	R-2B	11,477,650	
SWG	R-3A	11,245,770	
SWG	R-3B	10.048.470	
SWG	R-4A	3,321,765	
SWG	R-4B	1,755,274	
SWG	R-5A	1,398,227	
SWG	R-5B	1,882,014	
MCC	-1	1,545,935	
MCC	-2	1,275,261	
(4) Esteam,unmetered = u	in-metered electric use for steam plant = [(2) / (1)] x [((1) - (2) - (3)]	27,758 kWh*
	metered electric use for chilled water plant = (1) - (2) - (1,632,700 kWh *
			000 700 1145 4
(6) Esteam,total = total ele	ectric use for steam plant = (2) + (4)		968,792 kWh *
* * * * * * * * * * * * * * * * * * * *	ectric use for steam plant = (2) + (4) s, metered + unmetered		342,268,552 bs
* * * * * * * * * * * * * * * * * * * *			
(7) Customer Steam Sale		1]=	
(7) Customer Steam Sale	s, metered + unmetered	1]=	342,268,552 bs
(7) Customer Steam Sale n (elec): Actual Steam	s, metered + unmetered]=	342,268,552 bs
(7) Customer Steam Sale n (elec): Actual Steam	s, metered + unmetered Plant E lectric Conversion = (6) / [(7) x 0.001]=	342,268,552 lbs
(7) Customer Steam Sale n (elec): Actual Steam NATURAL GAS-TO-S	s, metered + unmetered Plant E lectric Conversion = (6) / [(7) x 0.001]=	342,268,552 bs 2.831 kWh/klb
(7) Customer Steam Sale n (elec): Actual Steam NATURAL GAS-TO-S	s, metered + unmetered Plant E lectric Conversion = (6) / [(7) x 0.001 STEAM CONVERSION s Use per main utility meters]=	342,268,552 lbs
(7) Customer Steam Sale n (elec): Actual Steam NATURAL GAS-TO-S (8) NG = Total Natural Ga (9) P = Total Propane Gas	s, metered + unmetered Plant E lectric Conversion = (6) / [(7) x 0.001 STEAM CONVERSION s Use per main utility meters]=	342,268,552 bs 2.831 kWh/klb 548,248.3 Dth
(7) Customer Steam Sale n (elec): Actual Steam NATURAL GAS-TO-S (8) NG = Total Natural Ga (9) P = Total Propane Gas (10) HHV = Higher Heating	s, metered + unmetered Plant E lectric Conversion = (6) / [(7) x 0.001 STEAM CONVERSION S Use per main utility meters Value of Propane]=	342,268,552 bs 2.831 kWh/klb 548,248.3 Dth 41 Dth 1.002052 Btu/scft
(7) Customer Steam Sale n (elec): Actual Steam NATURAL GAS-TO-S (8) NG = Total Natural Ga (9) P = Total Propane Gas (10) HHV = Higher Heating (11) SO = Plant Steam Ser	s, metered + unmetered Plant E lectric Conversion = (6) / [(7) x 0.001 TEAM CONVERSION S Use per main utility meters Value of Propane d Out		342,268,552 bs 2.831 kWh/klb 548,248.3 Dth 41 Dth
(7) Customer Steam Sale n (elec): Actual Steam NATURAL GAS-TO-S (8) NG = Total Natural Ga (9) P = Total Propane Gas (10) HHV = Higher Heating (11) SO = Plant Steam Ser	s, metered + unmetered Plant E lectric Conversion = (6) / [(7) x 0.001 TEAM CONVERSION s Use per main utility meters Value of Propane d Out r Reading at the beginning, n-1	1,490,705 1,889,354	342,268,552 bs 2.831 kWh/klb 548,248.3 Dth 41 Dth 1.002052 Btu/scft
(7) Customer Steam Sale n (elec): Actual Steam NATURAL GAS-TO-S (8) NG = Total Natural Ga (9) P = Total Propane Gas (10) HHV = Higher Heating (11) SO = Plant Steam Sen	s, metered + unmetered Plant E lectric Conversion = (6) / [(7) x 0.001 TEAM CONVERSION S Use per main utility meters Value of Propane d Out	1,490,705	342,268,552 bs 2.831 kWh/klb 548,248.3 Dth 41 Dth 1.002052 Btu/scft
(7) Customer Steam Sale n (elec): Actual Steam NATURAL GAS-TO-S (8) NG = Total Natural Ga (9) P = Total Propane Gas (10) HHV = Higher Heating (11) SO = Plant Steam Sen	s, metered + unmetered Plant E lectric Conversion = (6) / [(7) x 0.001 TEAM CONVERSION s Use per main utility meters Value of Propane d Out r Reading at the beginning, n-1 r Reading at the end, n (Adjusted for meter reset)	1,490,705 1,889,354	342,268,552 bs 2.831 kWh/klb 548,248.3 Dth 41 Dth 1.002052 Btu/scft
(7) Customer Steam Sale n (elec): Actual Steam NATURAL GAS-TO-S (8) NG = Total Natural Ga (9) P = Total Propane Gas (10) HHV = Higher Heating (11) SO = Plant Steam Sen Mete Mete Uhits	s, metered + unmetered Plant E lectric Conversion = (6) / [(7) x 0.001 TEAM CONVERSION s Use per main utility meters Value of Propane d Out r Reading at the beginning, n-1 r Reading at the end, n (Adjusted for meter reset) of Measure	1,490,705 1,889,354 1 x SCFT	342,268,552 bs 2.831 kWh/klb 548,248.3 Dth 41 Dth 1.002052 Btu/scft 398,649,000 bs
(7) Customer Steam Sale n (elec): Actual Steam NATURAL GAS-TO-S (8) NG = Total Natural Ga (9) P = Total Propane Gas (10) HHV = Higher Heating (11) SO = Plant Steam Sen Mete Mete Lhits	s, metered + unmetered Plant E lectric Conversion = (6) / [(7) x 0.001 TEAM CONVERSION s Use per main utility meters Value of Propane d Out r Reading at the beginning, n-1 r Reading at the end, n (Adjusted for meter reset)	1,490,705 1,889,354 1 x SCFT	342,268,552 bs 2.831 kWh/klb 548,248.3 Dth 41 Dth 1.002052 Btu/scft
(7) Customer Steam Sale n (elec): Actual Steam NATURAL GAS-TO-S (8) NG = Total Natural Ga (9) P = Total Propane Gas (10) HHV = Higher Heating (11) SO = Plant Steam Sen Mete Mete Uhits n (HHV): Actual Plant E	Plant E lectric Conversion = (6) / [(7) x 0.001 TEAM CONVERSION S Use per main utility meters Value of Propane d Out r Reading at the beginning, n-1 r Reading at the end, n (Adjusted for meter reset) of Measure fficiency = [(8) + (9) x (10)] / [(11) x 0.001)	1,490,705 1,889,354 1 x SCFT	342,268,552 bs 2.831 kWh/klb 548,248.3 Dth 41 Dth 1.002052 Btu/sctt 398,649,000 bs
(7) Customer Steam Sale n (elec): Actual Steam NATURAL GAS-TO-S (8) NG = Total Natural Ga (9) P = Total Propane Gas (10) HHV = Higher Heating (11) SO = Plant Steam Sen Mete Mete Uhits n (HHV): Actual Plant E	Plant E lectric Conversion = (6) / [(7) x 0.001 TEAM CONVERSION S Use per main utility meters Value of Propane d Out r Reading at the beginning, n-1 r Reading at the end, n (Adjusted for meter reset) of Measure fficiency = [(8) + (9) x (10)] / [(11) x 0.001) urn per plant meter	1,490,705 1,889,354 1 x SCFT	342,268,552 bs 2.831 kWh/klb 548,248.3 Dth 41 Dth 1.002052 Btu/soft 398,649,000 bs
(7) Customer Steam Sale n (elec): Actual Steam NATURAL GAS-TO-S (8) NG = Total Natural Ga (9) P = Total Propane Gas (10) HHV = Higher Heating (11) SO = Plant Steam Sen Mete Mete Units n (HHV): Actual Plant E	Plant E lectric Conversion = (6) / [(7) x 0.001 TEAM CONVERSION S Use per main utility meters Value of Propane d Out r Reading at the beginning, n-1 r Reading at the end, n (Adjusted for meter reset) of Measure fficiency = [(8) + (9) x (10)] / [(11) x 0.001)	1,490,705 1,889,354 1 x SCFT	342,268,552 bs 2.831 kWh/klb 548,248.3 Dth 41 Dth 1.002052 Btu/sctt 398,649,000 bs
(7) Customer Steam Sale n (elec): Actual Steam NATURAL GAS-TO-S (8) NG = Total Natural Ga (9) P = Total Propane Gas (10) HHV = Higher Heating (11) SO = Plant Steam Sen Mete Mete Units n (HHV): Actual Plant E	Plant E lectric Conversion = (6) / [(7) x 0.001 TEAM CONVERSION S Use per main utility meters Value of Propane d Out r Reading at the beginning, n-1 r Reading at the end, n (Adjusted form eter reset) of Measure fficiency = [(8) + (9) x (10)] / [(11) x 0.001) urn per plant meter r Reading at the beginning, n-1	1,490,705 1,889,354 1 x SCFT] =	342,268,552 bs 2.831 kWh/klb 548,248.3 Dth 41 Dth 1.002052 Btu/sctt 398,649,000 bs
(7) Customer Steam Sale n (elec): Actual Steam NATURAL GAS-TO-S (8) NG = Total Natural Ga (9) P = Total Propane Gas (10) HHV = Higher Heating (11) SO = Plant Steam Sen Mete Mete Units n (HHV): Actual Plant E	Plant E lectric Conversion = (6) / [(7) x 0.001 TEAM CONVERSION S Use per main utility meters Value of Propane d Out r Reading at the beginning, n-1 r Reading at the end, n (Adjusted form eter reset) of Measure fficiency = [(8) + (9) x (10)] / [(11) x 0.001) urn per plant meter r Reading at the beginning, n-1 r Reading at the end, n	1,490,705 1,889,354 1 x SCFT] = 29,511,704 64,155,689	342,268,552 bs 2.831 kWh/klb 548,248.3 Dth 41 Dth 1.002052 Btu/sctt 398,649,000 bs
(7) Customer Steam Sale n (elec): Actual Steam NATURAL GAS-TO-S (8) NG = Total Natural Ga (9) P = Total Propane Gas (10) HHV = Higher Heating (11) SO = Plant Steam Sen Mete Mete Mete Mete Mete Mete Mete M	Plant E lectric Conversion = (6) / [(7) x 0.001 TEAM CONVERSION s Use per main utility meters Value of Propane d Out r Reading at the beginning, n-1 r Reading at the end, n (Adjusted form eter reset) of Measure fficiency = [(8) + (9) x (10)] / [(11) x 0.001) urn per plant meter r Reading at the beginning, n-1 r Reading at the beginning, n-1 r Reading at the beginning, n-1 r Reading at the end, n of Measure n energy	1,490,705 1,889,354 1 x SCFT] = 29,511,704 64,155,689	342,268,552 bs 2.831 kWh/klb 548,248.3 Dth 41 Dth 1.002052 Btu/scft 398,649,000 bs 1.375 Dth/klb 34,843,985 gallons =
(7) Customer Steam Sale n (elec): Actual Steam NATURAL GAS-TO-S (8) NG = Total Natural Ga (9) P = Total Propane Gas (10) HHV = Higher Heating (11) SO = Plant Steam Sen Mete Mete (12) CR = Condensate Ret Mete Mete Units (13) H = Condensate Retur Mete	Plant E lectric Conversion = (6) / [(7) x 0.001 TEAM CONVERSION s Use per main utility meters Value of Propane d Out r Reading at the beginning, n-1 r Reading at the end, n (Adjusted form eter reset) of Measure fficiency = [(8) + (9) x (10)] / [(11) x 0.001) urn per plant meter r Reading at the end, n r of Measure in energy r Reading at the end, n	1,490,705 1,889,354 1 x SCFT] = 29,511,704 64,755,689 1 x SCFT	342,268,552 bs 2.831 kWh/klb 548,248.3 Dth 41 Dth 1.002052 Btu/scft 398,649,000 bs 1.375 Dth/klb 34,843,985 gallons **
(7) Customer Steam Sale n (elec): Actual Steam NATURAL GAS-TO-S (8) NG = Total Natural Ga (9) P = Total Propane Gai (10) HHV = Higher Heating (11) SO = Plant Steam Sen Mete Mete Mete Mete Mete Mete Mete M	Plant E lectric Conversion = (6) / [(7) x 0.001 TEAM CONVERSION s Use per main utility meters Value of Propane d Out r Reading at the beginning, n-1 r Reading at the end, n (Adjusted form eter reset) of Measure fficiency = [(8) + (9) x (10)] / [(11) x 0.001) urn per plant meter r Reading at the beginning, n-1 r Reading at the beginning, n-1 r Reading at the beginning, n-1 r Reading at the end, n of Measure n energy	1,490,705 1,889,354 1 x SCFT] = 29,511,704 64,155,689 1 x SCFT	342,268,552 bs 2.831 kWh/klb 548,248.3 Dth 41 Dth 1.002052 Btu/scft 398,649,000 bs 1.375 Dth/klb 34,843,985 gallons **

175 °F



NATER-TO-STEAM CONVERSION		
14) MW = Steam system makeup water plant meter		17,700,420 gallons
Meter Reading at the beginning, n-1	5,429,800	
Meter Reading at the end, n	3,130,220	
Units of Measure	1 x SCFT	
(water): Actual steam plant water use = (14) * 1.01 =		17,877,424 gallons
G (water): Guaranteed steam plant water use = [(11)/8.15585 - (12) =		16,370,156 gallons
(,, 2
ELECTRICITY-TO-CHILLED WATER CONVERSION		
5) E (chw,total) = Total CHW Electric use = (3) + (5) =		55,323,976 kWh*
(6) Customer CHW Sales, metered + unmetered		62,752,210 tonhrs
(elec): Actual chilled water plant electric conversion = (15) / (16) =		0.882 kw/ton
CONDENSER WATER-TO-CHILLED WATER CONVERSION		
7) CM = water makeup		125,549,652 gallons **
Meter Reading at the beginning, n-1	69,255,000	
Meter Reading at the end, n	89,873,000	
Units of Measure	1 x GALL	
Cooling Tower Makeup		120,618,000
Meter Reading at the beginning, n-1	38,385,600	
Meter Reading at the end, n	1,071,876	
Units of Measure	Excess of Daily Cap	
EDS ChW Makeup		4,931,652
		2.001 gal/ton-h

NOTES: * - There is a 15,886 kWh variance from the FEA due to rounding errors resulting from monthly vs. annual summation.

^{** -} Estimated due to incorrect totalization resulting from "low flow cut-off".



Exhibit 2 – Information Technology System Program

Networks

The Operating System for the Metro Nashville District Energy System (DES) Energy Generation Facility (EGF) was provided and installed by Siemens Building Technologies. This System has recently been upgraded from Apogee Insight to Desigo CC. This software controls all the equipment and machinery in the plant.

Metro had a T-1, fiber optic, line installed to the EGF so that Metro representatives could access the Metro.gov network from the Metro office.

Constellation Energy Solutions, LLC (CES) installed an Administrative Computer Network to be used for non-operating office functions, such as, the Computerized Maintenance Management System data base (CMMS), e-mail, reporting, accounting, customer billing, etc. The following addresses equipment, programs, and scheduled activities to support this network.

Hardware

The computer equipment in the EGF belongs to Metro. CES is obligated to provide equipment which meets or exceeds industry standards. The following table shows equipment acquired by CES for the Nashville DES:

Equipment

Plant Server

Dell PowerEdge T330/1 x Xeon e3-1200 v6 3.00 GHz Processor/64 GB RAM/RAID 5 Configuration/DVD drive

Siemens Server

Dell Precision 5820/duel Xeon W-2223 3.6 GHz Processor/16 GB RAM/RAID 5 Configuration/DVD drive

Firewall

Sonicwall TZ 400

Desktop Computers

Dell OptiPlex 7080 small frame with Intel Core i7-10700 Processor, 16 GB Ram, 2.90 GHz , x64 based processor, 1 TB HD

Monitors

Dell Professional E2420HS 24" Ultra Sharp LCD Flat Panel

Laptop Computers

Dell Vostro 15 5501, with Intel i7-1065G7, 15.6 HD Display, 1.50GHz, x64 based processor, 16 GB Ram, 500 GB Hard Drive

Docking Stations

Dell D6000 Universal Docking Station

Ultra slim, wireless, keyboard & mouse



Per industry standards, computer hardware should be replaced every three to five years. This equipment was most recently replaced in 2020, the Metro computer in 2023. The Siemens server was replaced in 2020. The CES server was replaced with a solid-state Dell T330 in 2018. An equipment inventory is located on page 77 of this document.

CES has a performance contract with Metro to operate and manage the Nashville DES. Except for a designated workstation in the Metro office, CES will have exclusive use of and responsibility for this equipment in the same way CES has exclusive rights to boilers, chillers, pumps, etc., as defined in the ARMA.

Software

Each server has the following software installed:

Operating System	Microsoft 8 R2 Server/Microsoft Server 2016 Standard	
Data base	Microsoft SQL 2008	
AntiVirus	Malwarebytes	

Each computer has the following software installed:

Operating System	Windows10 Professional	
Microsoft Office Professional 2019	Word, Excel, Power Point, Outlook, One Note, Office Publisher	
AntiVirus	Malwarebytes	

Additional software installed on specific machines includes:

- Adobe Acrobat Professional 2019 General Manager, Operations Manager, Administrative Operations Representative and I&C Technician.
- I-Maint Control Room, Plant Operations Manager, Maintenance Office, Electrical Office and Metro office.

Connectivity

	Metro	Constellation
Internet Connection	Fiber optic	Comcast Cable

CES accesses customer meter data through the internet. The State has granted CES access to their building meters through a VPN at no cost. Metro building meters are accessed through the fiber optic line Metro installed to the EGF.



Metro Access to Data

A Lenovo desktop computer, furnished by CES, is located in the Metro office at the EGF. The purpose of this computer is to give Metro administrative access to plant data. CES personnel check to make sure the required data files are transferred from the CES Administrative server to the Metro workstation periodically. These include: a copy of the Siemens data base, the I-Maint CMMS data base, customer billing system data and customer meter data.

Data Backup and Storage

CES's Administrative Server is backed up continuously. The offsite, online repository used by CES is Carbonite.

The Siemens SQL database is also backed up to Carbonite. Other trend data is manually backed up on two external drives every Monday, the last day of the month and when any changes or updates are made.

Metro, at their own expense, back up data from the computer in the Metro Office to Carbonite. This is maintained by Metro's Project Administrator.

If issues cause data not to transfer, CES will assist a Metro Representative with troubleshooting. CES personnel check to see if there have been any software security updates and make corrections to reestablish connectivity. Metro checks their backup at least once per month. From time to time, Metro has to purge old data or purchase additional storage space.

Support and Service

Administrative System

CES has contracted with a third-party vendor, Vertical IT Solutions, LLC, for ITS service and support. These services include:

- 1. Installation and setup of new workstations and servers. Fully test and verify set up.
- 2. Provide information technology consulting, support, and maintenance services to maintain the IT infrastructure at the Energy Generation Facility. This includes Server and desktop hardware support, troubleshooting, repairing or replacement of system components, and peripherals.
- 3. Hardware support will include and may not be limited to memory upgrades, hard disk replacement, network card replacement, system board replacement and hardware accessories installation.
- 4. Software support includes installation, configuration, and troubleshooting of the supported applications. This will also include monthly patches, anti-virus and security upgrades.



5. Response time for critical system and system-down issues will be within 4 hours and non-critical system tasks will be resolved within 24 hours. An on-site equipment inspection will be performed at least once per month.

Operating System

The Siemens Desigo CC control system had a one-year warranty beginning in January 2021. Constellation Energy will continue to have Siemens repair, replace, and maintain their proprietary equipment when the warranty expires. Services will include annual software updates, annual network maintenance, annual preventative maintenance to modular panels, routine backups, diagnostics and operator coaching.

Cyber Security

Access to the server room is behind a key card monitored, locked door.

There is no outside connectivity to the Siemens server. Building automation is segregated on a separate network. There is no WiFi or Bluetooth on the Siemens network.

The administrative network server is behind a Sonicwall TZ400 firewall. There is no wireless access to the network inside the firewall. Remote access requires a VPN. All network traffic is monitored by Malwarebytes software. Sonicwall and Malwarebytes firmware is kept up to date.

CES employees receive Cyber Security Awareness training and Phishing training.

Program Review

The Information Technology Services Program is reviewed with Project Administrator and Metro annually and updated as required. This document incorporates all changes that were made to the program.



Hardware Inventory

There are two servers, four laptops and ten desktop workstations. Below is a detailed list of what is included at each workstation and where each is located (Equipment descriptions are in the Hardware section of this program above).

Office Location	Computer	ID Number	Monitor	Keyboard & Mouse
Data Room	2-Servers	CPKGM83 (Siemens) 8P8RMN2 (CES)	2-24" Flat Panels	1-each
Metro Office	1-Desktop	MJ0JERFT	1-24" Flat Panel	1-each
General Manager	1-Laptop with Docking Station	5R20763	1-24" Flat Panel	1-each
Operations Manager	1-Laptop with Docking Station	1K20763	1-24" Flat Panel	1-each
Finance & Administration Representative	1-Laptop with Docking Station	D7PRO43	1-24" Flat Panel	1-each
Customer Service Representative	1-Desktop	GBX7673	1-24" Flat Panel	1-each
Electrical Office	1-Desktop	GBX1J63	1-24" Flat Panel	1-each
Instrumentation & Controls Technician	1-Laptop	2MTZ663	N/A	N/A
Maintenance Office	1-Desktop	GBWYH63	1-24" Flat Panel	1-each
Operations Office	1 - Desktop 1-Docking Station	GBWZH63 N/A	2-24" Flat Panels	1-each
Reception Area	1-Docking Station	N/A	1-24" Flat Panel	1-each
Control Room	3 Desktops	GBX9673 GHJXH63 GBX0J63	8-24" Flat Panels	1-each
Control Room (Security)	1 Desktop	BYPC8M2	1-23" Flat Panel 1-42" Flat Panel	1-each



Exhibit 3 – Constellation Assets

- 2011 GMC Canyon Crew Cab Pickup Truck
- 2015 Chevrolet 3500 Crew Cab Flatbed Pickup Truck
- 2016 Ford F-150 Crew Cab Pickup Truck
- Ecom Combustion Analyzer
- Fluke Multi-meter
- Fluke Insulation Tester (megger)
- Greenlee Circuit Analyzer
- Fluke Clamp Meter
- Fluke 87 Multi-meter
- Salisbury Audio/Visual Voltage Detector
- Quad Tech Decade Resistor
- Fluke 719 Pro Pressure Calibrator
- Piecal Thermocouple Tester
- Altek loop Calibrator
- Fluke 45 Dual Display Multi-meter
- Hart Scientific Temperature Bath
- Miller Bobcat 225 Welding Machine
- Miller Bobcat 250 Welding Machine
- Hytorc Hydraulic Torque Wrench System
- Milwaukee Electric Mag-base drill press
- Ryobi portable pressure washer
- Miller Filtair 130 Welding Fume Extractor
- Miller CST 280 Welding Machine
- Goodway RAM-4 Tube Cleaning Machine
- Goodway Cooling Tower Vacuum System
- Vestil 2,000 lb. Capacity Aluminum A Frame
- Vestil 4,000 lb. Capacity Aluminum A Frame
- Vestil 8,000 lb. Capacity Steel A Frame
- 2,000 lb. Capacity Electric Chain Hoist
- 1,000 lb. Capacity Electric Chain Hoist
- 3 Bucks of scaffolding with braces, safety pins, handrails, walk boards and kick plates
- Hyster Model S50XM Lift Truck
- Buffalo Vaneaxial Exhaust Fan
- Generac XG 10000E Generator
- H&H Pump Com Hydraulic Powered Dewatering Pump (Green Machine)
- Trane 3,400 lb. Refrigerant Recovery Tank



- Service First Refrigerant Recovery Machine
- Distribution Truck hand tools, cones, pry bars, hoses, pumps, etc.
- Zoll AED & cabinet
- Epson Video Projector
- 3-OKI printers
- 2-HP printers
- 1-Brother Printer
- 27" JVC TV
- JVC VCR/DVR
- Honda self-propelled Push Mower
- Echo Weedeater
- Echo backpack blower
- 3 Kerosene torpedo heaters
- 40 cal/cm² rated high voltage suit with hood and fan
- 1 pair 10 kV gloves
- 1 pair 20 kV gloves
- Arc protection face shield
- 20 kV mat
- Hot stick
- Voltage detector (Glow stick)
- Remote switch operator (Chicken switch)
- Ricoh Copier (Leased)
- General Manager's HP Laptop SN#EXPCT7978



Exhibit 4 – Spare Parts Inventory

Quantity Description Location 4 4 inch 150# Buttweld Valves Connex 5 ATS 2 inch TP2W-121 300°F 150 psi 8 inch travel Connex 1 ATS 3 inch TP2W-121 300°F 150 psi 4 inch travel Connex 1 ATS 18 inch TP2W-131 500°F 300 psi 12 inch Travel Chiller Alley 1 Re-wound Toshiba 350HP CWP Motor Chiller Alley 1 Trane Chiller Seal Ring Maintenance Shop Trane Chiller Vane Actuator Maintenance Shop 1 1 Trane Motor Changeout Gasket Kit Maintenance Shop 1 Trane Heater Element Maintenance Shop 1 Trane Vane Operator Assembly Maintenance Shop 1 Trane Chiller Oil Regulator Valve Maintenance Shop 12 Trane Chiller Oil Filters Maintenance Shop 1 Lot Goulds Pumps Misc. Gaskets, o-rings, etc Maintenance Shop 1 Shaft Sleeve-CWP Maintenance Shop Various Misc Pipe Fittings from 1/4 to 1 1/2 Maintenance Shop Various Misc Bolts, Nuts and washers from 1/4 to 1 inch Maintenance Shop Various Misc Plate and flat bar Maintenance Shop Various Misc Pipe from 3/8 to 3 inch Maintenance Shop 2 Shaft Sleeves- BFWP Maintenance Shop 1 175# Boiler Safety Valve Mezzanine 1 185# Boiler Safety Valve Mezzanine Mezzanine 1 35# Deaerator Safety Valve 60 HP Cooling Tower Fan Motor Mezzanine 1 1 Cooling Tower Fan Shaft Mezzanine 2 **Cooling Tower Belts** Mezzanine 1 Weil 460V Sump Pump Mezzanine 1 Weil 208V Sump Pump Mezzanine 6 Maintenance Office Temperature Sensors- Trane Maintenance Office 5 Wiring Harnesses-Trane 5 Maintenance Office Solenoid Valves-Trane Chiller Purge Unit-Trane Mezzanine 1 6 Air Compressor Filters Maintenance Office 2 Differential Gauges- Air Compressor Maintenance Office 2 Pressure Switch- Air Compressor **I&E Lab** Main Electrical Room 6 Weksler Thermometer 30/240F Main Electrical Room 6 Weksler Thermometer 0/120F 2 Weksler Thermometer 50/550F Main Electrical Room 10 Trerice Thermometer 0/100F Main Electrical Room



Quantity	Description	Location
4	Trerice Thermometer 50/550F	Main Electrical Room
1	Siemens Control Valve 1" 274-03131	Main Electrical Room
1	Siemens Control Valve 2" 274-03134	Main Electrical Room
11	Brass Temperature Wells (assorted lengths)	Main Electrical Room
3	Stainless Temperature Wells (assorted lengths)	Main Electrical Room
2	Trerice Steam Pressure Gauge 0-300 psi	Main Electrical Room
4	Trerice CHW Pressure Gauge 0-300 psi	Main Electrical Room
4	Steam Pressure Pigtails	Main Electrical Room
8	Yokogawa Steam & CHW Converter Cables	Main Electrical Room
1	Yokogawa Pressure Transmitter 0-200 psi	Main Electrical Room
1	Yokogawa Pressure Transmitter 0-290 psi	Main Electrical Room
1	Yokogawa Meter Transmitter (Head)	Main Electrical Room
1	Yokogawa Temperature Transmitter	Main Electrical Room
1	DP Transmitter for Manhole 18	Main Electrical Room
2	Yokogawa Steam Flow Converter	Main Electrical Room
2	Yokogawa Mag Flow Converter	Main Electrical Room
6	Yokogawa Transmitter Mounting Brackets	Main Electrical Room
1	Yokogawa 6 inch MV Steam Flow Meter	Main Electrical Room
1	Yokogawa 10 inch Mag Flow Meter	Main Electrical Room
1	Yokogawa ADMAG AXF Flow Meter	Main Electrical Room
1	Yokogawa 2 inch MV Steam Flow Meter	Main Electrical Room
2	Maxon Gas Valves for Boilers	Main Electrical Room
3	Hubbell Replacement High Bay Lenses	Main Electrical Room
1	Siemens Load Center 12-24 120/208 VAC MLO Panel	Main Electrical Room
1	ABZ028 Valve Actuator	Main Electrical Room
1	ABZ015 Valve Actuator	Main Electrical Room
1	100 ft of SOOW 6/4 Cable for Temporary Boiler	Main Electrical Room
4	DAMAR 400 watt Metal Halide Ballasts	Main Electrical Room
4	DAMAR 175 watt Metal Halide Ballasts	Main Electrical Room
5	DAMAR Compact Flourescent Ballasts	Main Electrical Room
5	DAMAR Compact Flourescent Bulbs	Main Electrical Room
4	DAMAR 400 watt Metal Halide Bulbs	Main Electrical Room
5	DAMAR 175 watt Metal Halide Bulbs	Main Electrical Room
2	Tunnel Light Fixtures	I&E Lab
18	F32T8 Lamps	Main Electrical Room
13	F96T8 Lamps	Main Electrical Room
16	F25T8 Lamps	Main Electrical Room
4	27 watt LED Lamps	Main Electrical Room
3	18 watt LED Lamps	Main Electrical Room
2	5 watt LED Lamps	Main Electrical Room



Quantity Description Location

Quantity	Description	Location
Various	Miscellaneous Electrical Wire sizes and amounts	Main Electrical Room
	Miscellaneous Instrumentation Wire sizes and	
Various	amounts	Main Electrical Room
2	Johnson Controls Pressure Switches	Main Electrical Room
1	Coilhouse 27FC4-M Air Pressure Regulator	Main Electrical Room
6	Pressure Gauge 0-30 psi	I&E Lab
12	Pressure Gauge 0-100 psi	I&E Lab
7	Pressure Gauge 0-160 psi	I&E Lab
17	Pressure Gauge 0-300 psi	I&E Lab
6	Pressure Gauge 0-600 psi	I&E Lab
2	Siemens AEM Micro Server	I&E Lab
2	Mercoid Switches	I&E Lab
Various	Misc. Electrical Switches	I&E Lab
Various	Misc. Electrical Relays	I&E Lab
Various	Misc. Electrical Connectors	I&E Lab
3	United Electric DP Switches	I&E Lab
Quantity	Description	Location
1	Fire-eye Boiler Flame Scanner	I&E Lab
2	Power Supply for Chiller Starters	I&E Lab
1	Power Supply for CX/GX Panels	I&E Lab
1	Boiler Gas Valve Rebuild Kit	I&E Lab
1	Walchem Conductivity Controller & Probe	Main Electrical Room
1	Chiller Flow Switch IFM	I&E Lab
Various	Misc. Breakers	I&E Lab
1	Flow Meter for Water Softeners	I&E Lab
1	Netbiter Temp Data Collection at Customer Bldgs.	I&E Lab
Various	Misc. Fire Alarm Parts	I&E Lab
18	Glass Fuse Holders	I&E Lab
5	Misc. Control Transformers	I&E Lab
3	E-Stop pushbuttons	I&E Lab
Various	Misc. Tunnel Radio Parts	I&E Lab
1	GE 850 Multilin Relay	I&E Lab
1	WEG Propane Pump Motor	Mezzanine
1	Cooling Tower Basin Heater	I&E Lab
8	Gallons - Distilled Water	I&E Office