

DES Advisory Board Meeting First Quarter FY20 November 21, 2019



## Agenda

- Call to Order
- 2. Review & Approval of Previous Meeting Minutes
- 3. Customer Sales
- 4. Review of DES Contractor Performance
- 5. Natural Gas Purchasing Update
- 6. FY20 Costs to Date
- 7. FY20 Budget
- 8. Marketing
- 9. DES RFP Status Update
- 10. Capital Projects Review & Status
- 11. Other Board Member Items
- 12. Adjourn



1. Call to Order

# 2. Review & Approval of Previous Meeting Minutes



#### 3. Customer Sales

## Summary Table 3: Customer Cost Comparison for the Previous 12 Months

		Steam - Rolling 12 Month			Chilled Water - Rolling 12 Month			
		Oct 2017 - Sept 2018	Oct 2018 - Sept 2019	% Diff.	Oct 2017 - Sept 2018	Oct 2018 - Sept 2019	% Diff.	
Private	Cost	\$ 1,428,765	\$ 1,526,221	6.82%	\$ 3,801,716	\$ 3,741,968	-1.57%	
	Usage (lbs or tonhrs)	97,793,958	101,532,569	3.82%	19,995,945	19,813,178	-0.91%	
State	Cost	\$ 1,812,248	\$ 1,841,975	1.64%	\$ 3,367,469	\$ 3,221,003	-4.35%	
	Usage (lbs or tonhrs)	119,542,528	115,253,370	-3.59%	14,196,589	12,932,819	-8.90%	
Metro	Cost	\$ 1,843,706	\$ 1,927,911	4.57%	\$ 5,112,675	\$ 5,004,052	-2.12%	
	Usage (lbs or tonhrs)	154,261,565	154,722,051	0.30%	28,435,474	28,775,581	1.20%	
Aggregate	Cost	\$ 5,084,718	\$ 5,296,108	4.16%	\$12,281,860	\$11,967,024	-2.56%	
	Usage (lbs or tonhrs)	371,598,051	371,507,990	-0.02%	62,628,008	61,521,578	-1.77%	
	Unit Cost	\$ 13.68	\$ 14.26	4.2%	\$ 0.196	\$ 0.195	-0.81%	

MFA not included in values shown



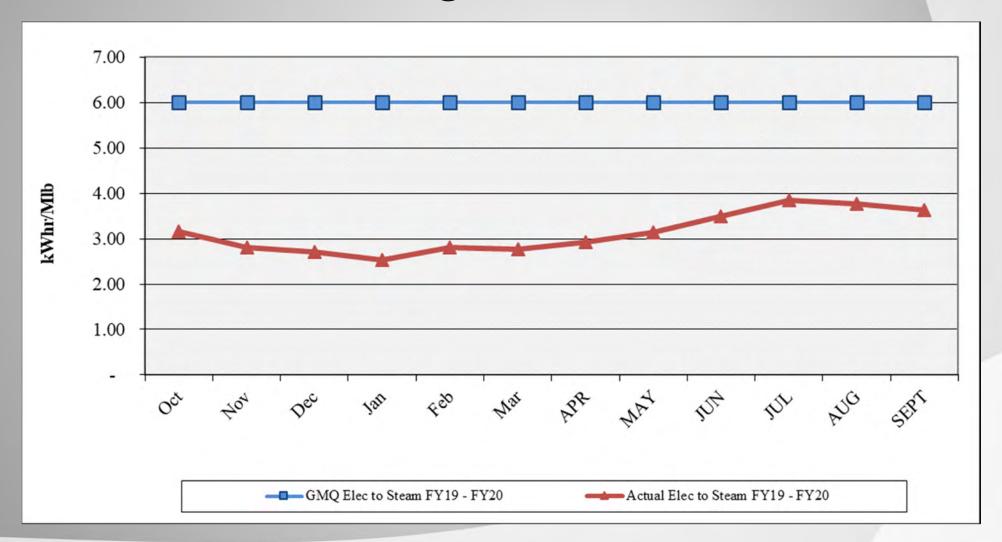
### 4. Review of DES Contractor Performance

Contractor (CNE) is in compliance with their contractual obligations for FY20 to date.

- Excellent Performance No Improvement Necessary
- Satisfactory Performance Some Improvement Could Be Made
- Poor Performance Much Improvement Necessary

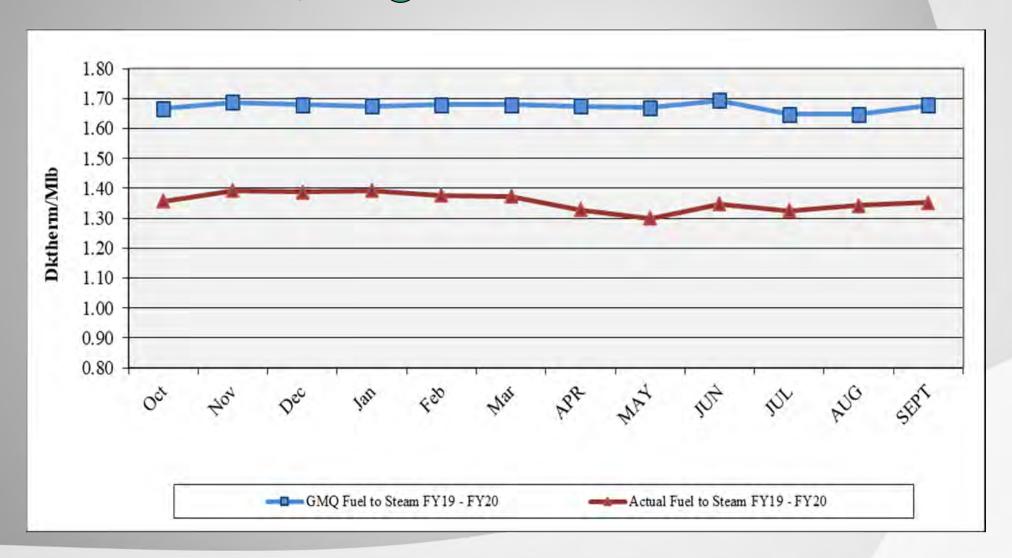


# Performance Measurement FY20: Steam Electric Conversion



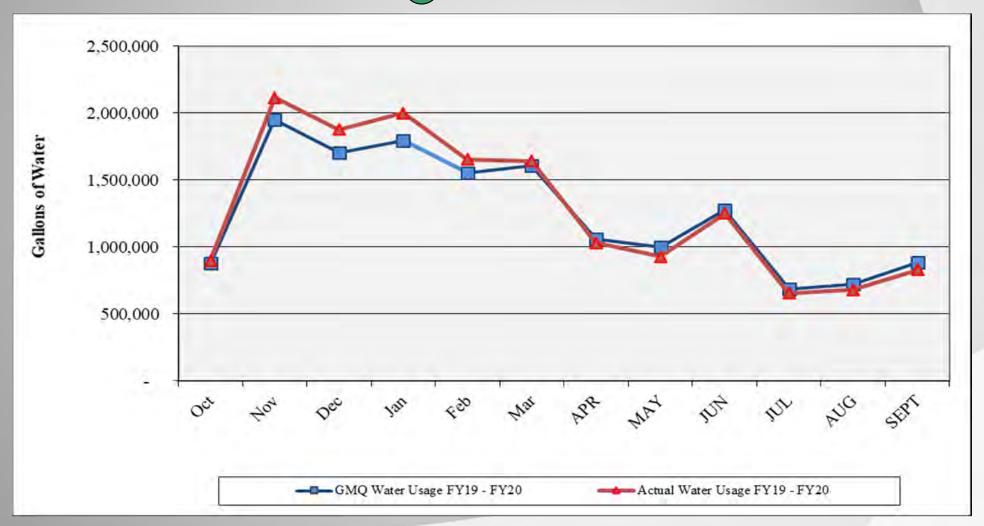


# Performance Measurement FY20: Steam Plant Efficiency



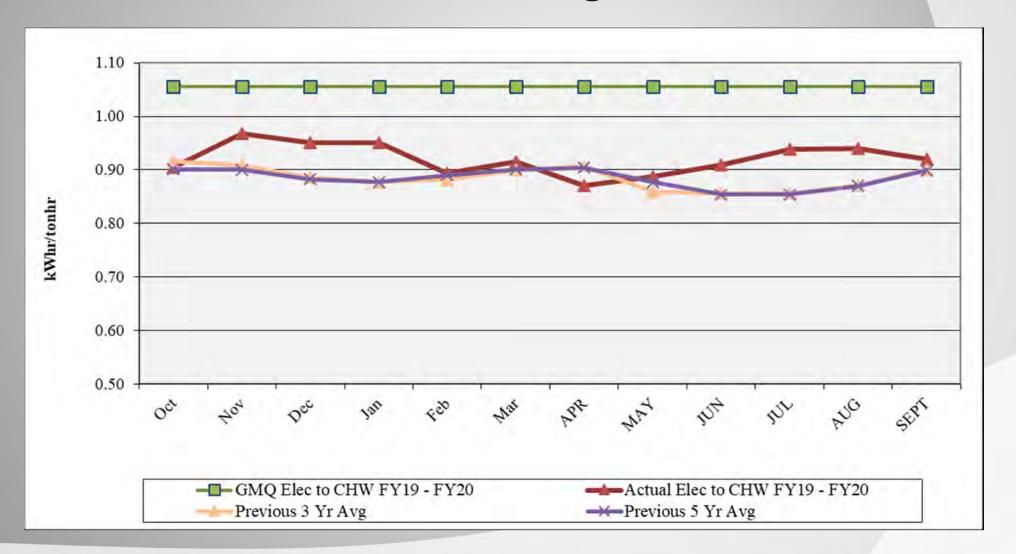


# Performance Measurement FY20: Steam Water Conversion



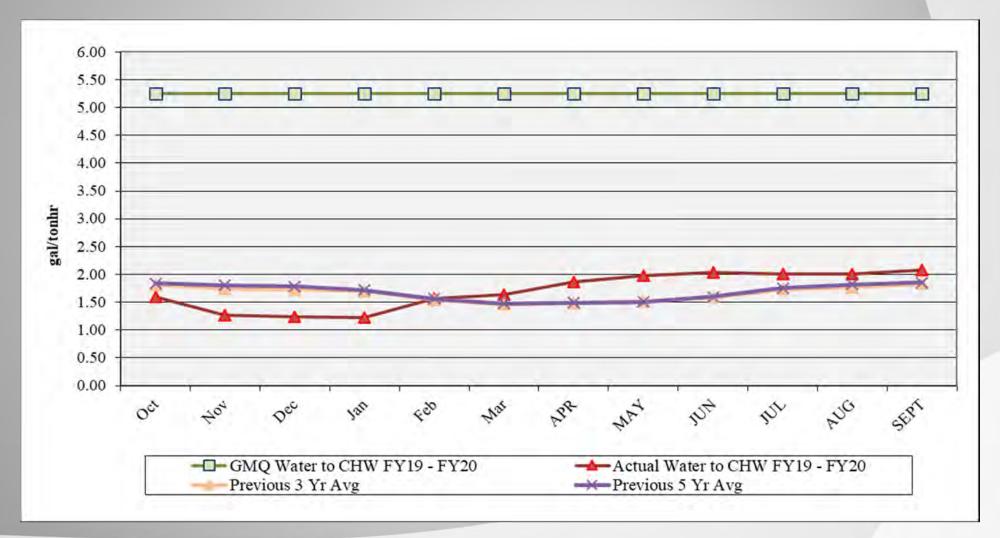


# Performance Measurement FY20: CHW Electric Conversion





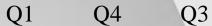
# Performance Measurement FY20: CHW Water Conversion





#### Water Treatment

- Steam and Condensate
  - Corrosion
  - ❖ Iron
  - Hardness
  - Chlorine/Sulfite
- Condensing Water
  - Conductivity
  - Biologicals
- Chilled Water
  - Hardness
  - Corrosion
  - \* EGF and Customer Biologicals Good
  - Deposits











### EGF Walkthrough

- ✓ Equipment Maintenance
- ✓ Operations
- ✓ Electrical
- ✓ Housekeeping
- ✓ Building Structure
- Building Exterior and Grounds

Q1 Q4 Q3















### EDS Walkthrough

Q1 Q4 Q3

✓ Vault/Tunnel Housekeeping

- ✓ Maintenance Items
  - ✓ Insulation Repair/Replacement

✓ Water Infiltration

✓ Corrosion of Structural Metal Components

✓ Safety Items



### 5. Natural Gas Purchasing

- Natural Gas Purchasing Review
  - ❖ Table 5: FY20 Gas Spending & Budget Comparison
  - ❖ Figure 5: Actual and Projected Gas Cost Comparison



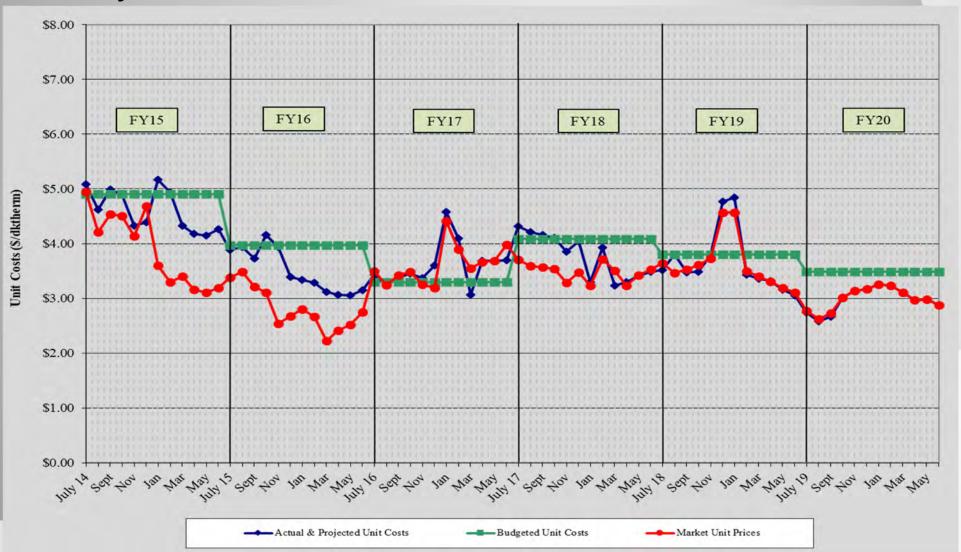
# Table 5: FY20 Gas Spending & Budget Comparison

	Actual FY20 To date (Sept 30)	Budget FY20	Percent Difference
Steam Sendout (Mlbs)	63,453	64,776	-2.0%
Fuel Use (Dth) (includes propane)	85,012	94,119	-9.7%
Plant Eff (Dth/Mlb)	1.340	1.453	-7.8%
Total Gas Cost (includes propane)	\$226,158	\$327,534	-31.0%
Unit Cost of Fuel (\$/Dth)	\$2.660	\$3.480	-23.6%

Excludes consultant fees and FEA and budget contingency; Includes transportation and actual propane costs and usages



# Figure 5. Actual and Projected Gas Cost Comparison History





#### 6. FY20 Costs to Date

Item		FY20 Budget		Y20 Actual to date	Percent of FY20 Budget
FOC's	\$	4,601,600	\$	1,157,626	25.16%
Pass Throughs					
Non-Energy	\$	934,300	\$	389,830	41.72%
Water/Sewer	\$	714,000	\$	189,467	26.54%
Fuel Base Fuel Contingency		2,202,900	\$	243,745	11.06%
		879,800	\$	-	0.00%
Electricity	\$	5,977,200	\$	1,843,401	30.84%
ORF Deposit	\$	-	\$	-	
Debt Service	\$	5,079,200	\$	1,514,436	29.82%
Total Expenses		20,389,000	\$	5,338,506	26.18%
<b>Total Revenues</b>		19,070,500	\$	4,823,220	25.29%
Metro Funding		1,318,500	\$	515,286	39.08%



## 7. FY20 Budget

Item					Percent
		FY19 Budget		Y20 Budget	Change From
					FY19 Budget
FOC's	\$	4,804,000	\$	4,601,600	-4.21%
Pass Throughs					
Non-Energy	\$	1,180,500	\$	934,300	-20.86%
Water/Sewer	\$	751,900	\$	714,000	-5.04%
Natural Gas Base	\$	2,173,300	\$	2,575,700	18.52%
Natural Gas Contingency	\$	816,400	\$	507,000	-37.90%
Electricity	\$	5,646,100	\$	5,977,200	5.86%
ORF Deposit	\$	_	\$	-	
Debt Service	\$	5,420,200	\$	5,079,200	-6.29%
Total Expenses	\$	20,792,400	\$	20,389,000	-1.94%
Total Revenues		19,152,100	\$	19,070,500	-0.43%
Metro Funding	\$	1,640,300	\$	1,318,500	-19.62%



#### 8. Marketing

#### **New and Potential Customers**

- Hyatt Centric (3<sup>rd</sup> Ave and Molloy)
  - CSA has been executed
  - 255-ton contract capacity; no steam
  - Service during construction Spring 2020; April 2021 opening
- Service to Lot K
  - Site directly to the east of EGF
  - Early stages of communication
  - Potential ~1,000 ton and ~15,000 pph



#### Marketing (con't)

- Service to New KVB Hotels
  - Two hotels with retail space; discussions favorable
  - Site is between 1<sup>st</sup> Ave S, 2<sup>nd</sup> Ave S, KVB and Peabody St
  - Potential ~1,400 tons and ~20,000 pph

#### Four Seasons

- Site is on 1<sup>st</sup> Ave S between Demonbreun and Shelby Sts
- Potential ~1,100 tons and ~10,000 pph

#### Peabody St Hotel

- Early stages of communications
- Potential 2,000 to 3,000 tons



#### 9. DES RFP Status Update

**DES-139** 

- Pursuant to Metro's Award to Engie, Engie is continuing with their due diligence efforts
- Constellation appeal update
- Engie has completed the task of obtaining customer consents for the sale
- Engie developing plan to address TN Utilities Commission regulation
- Engie and Metro negotiating purchase contract



### 10. Capital Expenditure Update

	Spent to End of FY19	FY20 Spending	Balance to Date (09/30/19)
R&I Projects	\$3,675,354	\$77,234	\$58,380
49109-2010 Bond	\$2,596,698	\$1,227	\$7,991
49107-DES Infrastructure Fund	\$8,497,779	\$0	\$2,221
49116-DES Infrastructure Fund	\$822,320	\$245,011	\$692,670
Total	\$15,592,151	\$323,472	\$761,262



#### **Active Capital Projects**

- DES 133.1: Broadway Tunnel Damage Recovery: ongoing
- DES 135: CHW Leak at 5<sup>th</sup> & Union: ongoing; leak repaired at 5<sup>th</sup>/Union with positive impact at JK Polk; leak in 3<sup>rd</sup> Ave N beside CJC excavated w/o finding leak location; hydrant leak in same area
- DES 152: MH A & M Coating Repairs postponed until FY20; anticipate bidding in 2<sup>nd</sup> or 3<sup>rd</sup> Qtr FY20
- DES 153: MH L Repairs additional repairs may be added to scope; to be bid 2<sup>nd</sup> or 3<sup>rd</sup> Qtr FY20
- DES 154: Manhole K Repairs postponed until FY20; will review priority relative to other projects



#### Active Capital Projects - continued

- DES 157: MH 9 Repairs bid in 1<sup>st</sup> Qtr FY20; construction inprogress
- DES 159: MH B2 Repairs bid in 1<sup>st</sup> Qtr FY20; construction inprogress
- DES 160: 5<sup>th</sup> + Broadway Service Connection connections for service completed; awaiting install of instruments
- DES 161: MH S6 Insulation postponed until FY20; anticipate bidding during 2<sup>nd</sup> or 3<sup>rd</sup> Qtr FY20



#### Active Capital Projects - continued

- DES 162: Hyatt Centric Service wet-taps complete; pipe install in progress
- DES 163: MDHA Parcel K Service negotiations with new customer in early stages
- DES 168: DES Service to 1<sup>st</sup> and KVB Hotels negotiations with new customer in early stages
- DES 169: MH 20 Repairs pipe supports corroded, require replacement; to be bid 2<sup>nd</sup> Qtr FY20



Capital Projects in Close-out/Closed

DES158 Manhole 18A Repairs



#### 11. Other Board Member Items

### 12. Adjourn

- > Advisory Board Meeting Schedule
- > FY20 2<sup>nd</sup> Quarter Meeting February 20, 2020
- ➤ FY20 3<sup>rd</sup> Quarter Meeting May 21, 2020
- > FY20 4<sup>th</sup> Quarter Meeting August 20, 2020
- ➤ FY21 1<sup>st</sup> Quarter Meeting November 19, 2020