

DES Advisory Board Meeting Fourth Quarter FY21 August 19, 2021





- Call to Order
- 2. New Board Member Acknowledgements
- 3. Review & Approval of Previous Meeting Minutes
- Customer Sales
- 5. nCOVID-19 Response
- 6. Review of DES Contractor Performance
- 7. Natural Gas Purchasing Update
- 8. FY20 Costs to Date
- 9. FY22 Budget
- 10. Marketing
- 11. Capital Projects Review & Status
- 12. Other Board Member Items
- 13. Adjourn



- 1. Call to Order
- 2. New Private ISC and New Private Board Members:

Bill McKnight with Hyatt Centric Chris Proctor with 5th + Broadway

3. 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			
		July 2019 - June 2020	July 2020 - June 2021	% Diff.	July 2019 - June 2020	July 2020 - June 2021	% Diff.	
Private	Cost	\$ 1,251,018	\$ 1,275,565	1.96%	\$ 3,686,779	\$ 3,671,600	-0.41%	
	Usage (lbs or tonhrs)	88,886,252	82,674,621	-6.99%	18,065,561	17,532,286	-2.95%	
State	Cost	\$ 1,603,878	\$ 1,765,493	10.08%	\$ 3,213,799	\$ 3,236,233	0.70%	
	Usage (lbs or tonhrs)	105,776,927	113,128,646	6.95%	12,299,713	13,019,176	5.85%	
Metro	Cost	\$ 1,618,588	\$ 1,598,304	-1.25%	\$ 4,781,375	\$ 4,198,317	-12.19%	
	Usage (lbs or tonhrs)	151,563,519	130,528,829	-13.88%	26,473,982	20,985,842	-20.73%	
Aggregate	Cost	\$ 4,473,484	\$ 4,639,362	3.71%	\$11,681,953	\$11,106,149	-4.93%	
	Usage (lbs or tonhrs)	346,226,698	326,332,096	-5.75%	56,839,256	51,537,304	-9.33%	
	Unit Cost	\$ 12.92	\$ 14.22	10.0%	\$ 0.206	\$ 0.215	4.85%	



Figure 3A. Historic Chilled Water Sales

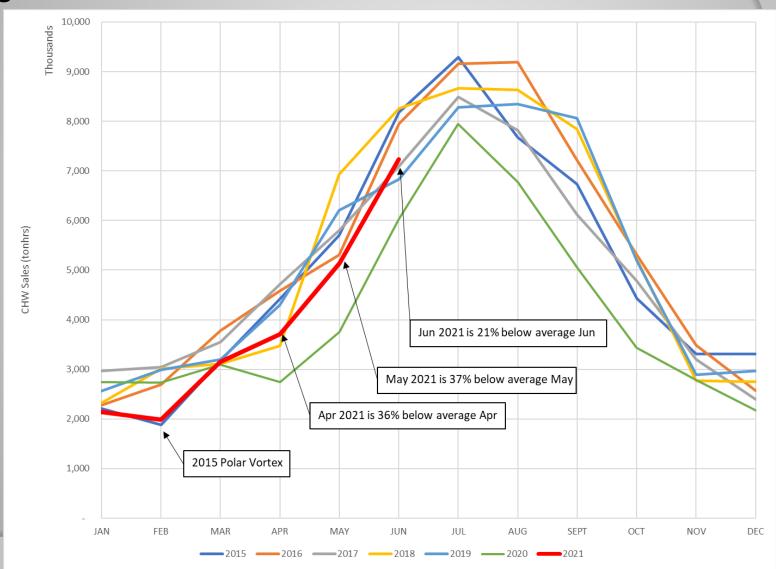
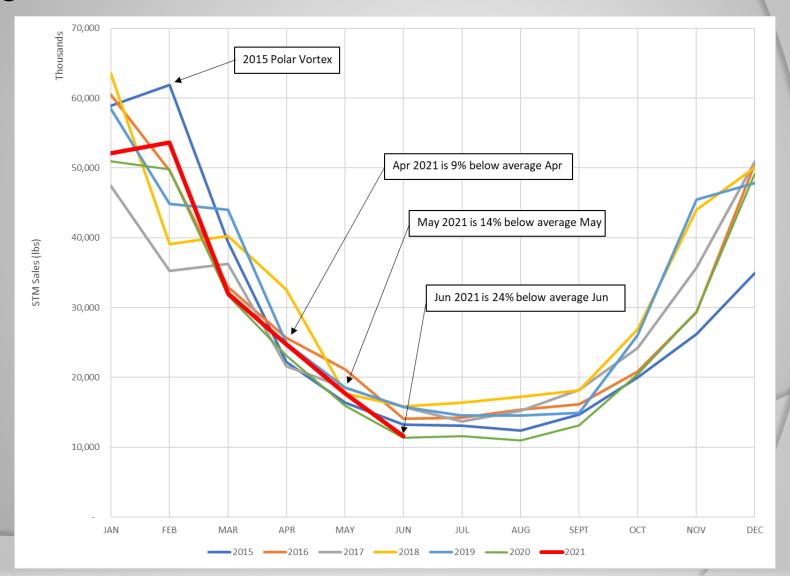




Figure 3B. Historic Steam Sales





4. nCOVID-19 Response

- Late fees re-activated May 2021
- Two customers opted for deferral last summer and are making their payments
- There are no customers currently in arrears more than 30 days
- CNE continues to limit access to EGF to essential personnel only
- Tele-meetings and job-site meetings still occurring



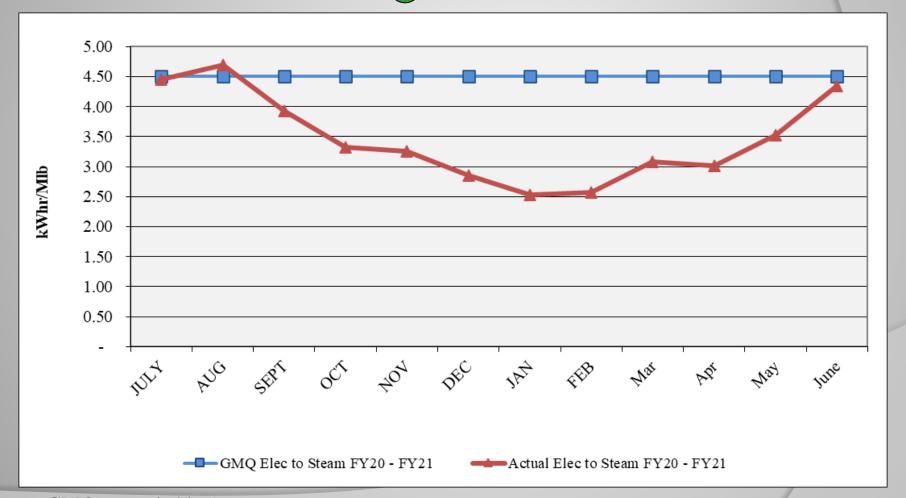
5. Review of DES Contractor Performance

Contractor (CNE) has failed to meet the new performance guarantees for twelve consecutive months in FY21.

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

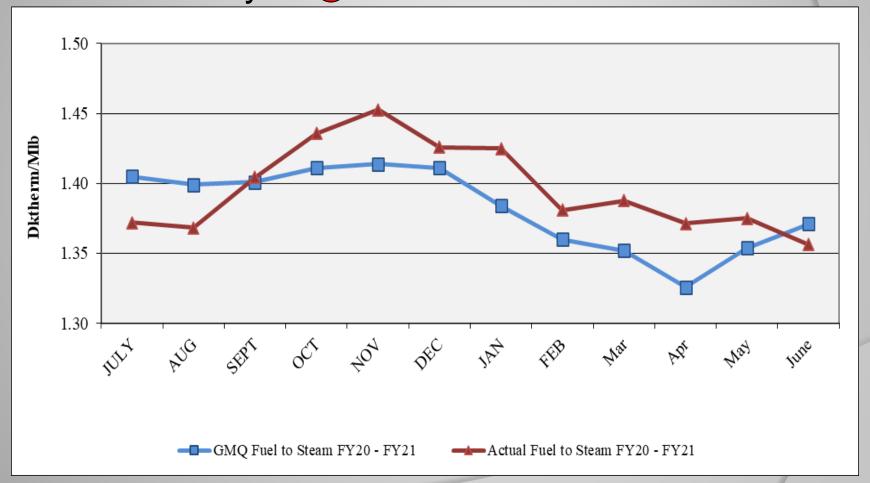


Performance Measurement FY21: Steam Electric Conversion





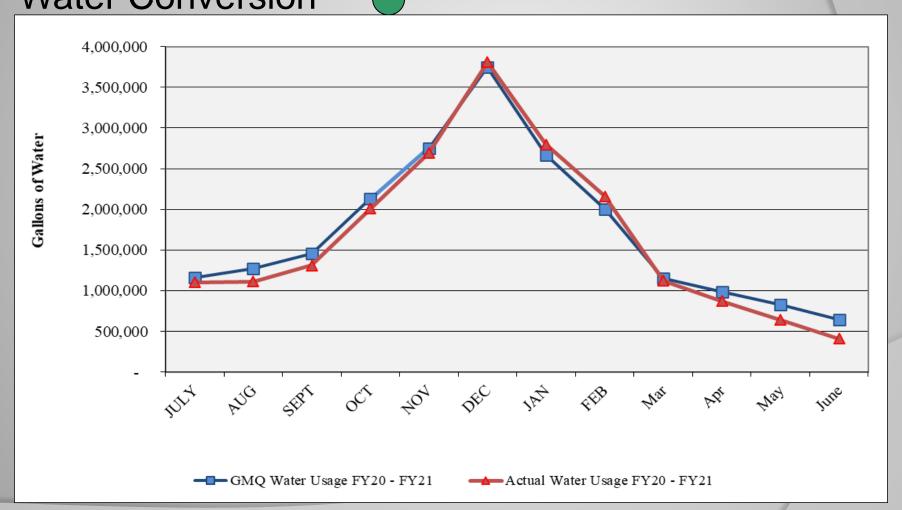
Performance Measurement FY21: Steam Plant Efficiency



GMQ exceeded in Sept, Oct, Nov, Dec, Jan, Feb, Mar, Apr and May. Actuals higher than historic.



Performance Measurement FY21: Steam Water Conversion



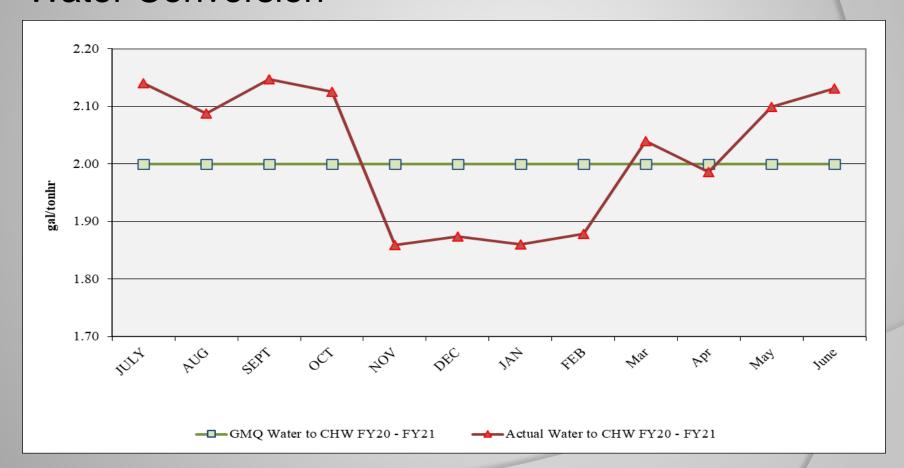


Performance Measurement FY21: CHW Electric Conversion





Performance Measurement FY21: CHW Water Conversion





Water Treatment

Q4FY21 Q3FY21 Q2FY21 Q1FY21

Steam and Condensate









- Corrosion
- ❖ Iron
- Hardness; dumping condensate
- Chlorine/Sulfite
- Condensing Water



- Biologicals
- Chilled Water



- Corrosion
- EGF and Customer Biologicals Good
- Deposits
- Chem-Aqua is CNE's New Specialist



















EGF Walkthrough

Q4FY21 Q3FY21 Q2FY21 Q1FY21

- ✓ Equipment Maintenance
- **+ + + + +**

✓ Operations

✓ Electrical

✓ Housekeeping

✓ Building Structure

+

✓ Building Exterior and Grounds



EDS Walkthrough

Q4FY21 Q3FY21 Q2FY21 Q1FY21

✓ Vault/Tunnel Housekeeping - - + -+

- ✓ Maintenance Items
 - ✓ Piping

- NR NR NR

✓ Insulation R/R

✓ Water Infiltration

✓ Corrosion of Structural

- Metal Components
- ✓ Safety Items

NR – not reported previously



6. Natural Gas Purchasing

- Natural Gas Purchasing Review
 - Table 6: FY21 Gas Spending & Budget Comparison
 - Figure 6: Actual and Projected Fuel Cost Comparison



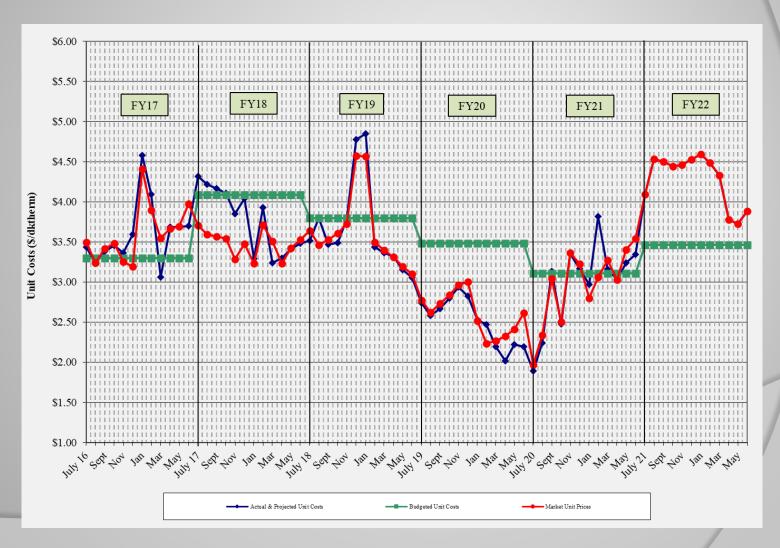
Table 6: FY21 Gas Spending & Budget Comparison

	Actual FY21 To June 30	Budget FY21	Percent Difference
Steam Sendout (Mlbs)	396,827	415,203	-4.4%
Fuel Use (Dth) (includes propane)	556,238	602,875	-7.7%
Plant Eff (Dth/Mlb)	1.402	1.452	-3.4%
Total Gas Cost (includes propane)	\$1,721,469	\$1,873,103	-8.1%
Unit Cost of Fuel (\$/Dth)	\$3.095	\$3.107	-0.4%

Excludes consultant fees and FEA and budget contingency; Includes transportation and actual propane costs and usages except unused pre-purchased propane



Figure 6. Actual and Projected Fuel Cost Comparison





7. FY21 Costs to Date

Item	F	Y21 Budget	FY21 Actual to date		Percent of FY21 Budget	
FOC's Pass Throughs	\$	3,776,800	\$	3,776,811	100.00%	
Administrative Costs	•	393,900	\$	325,985	82.76%	
Chemicals		260,700	\$	245,778	94.28%	
R&I Fund Transfers	\$	291,900	\$	291,900	100.00%	
Water/Sewer	\$	624,000	\$	826,755	132.49%	
Fuel Base	\$	2,001,900	\$	1,762,145	88.02%	
Fuel Contingency	\$	431,900	\$	-	0.00%	
Electricity	\$	6,130,100	\$	4,131,585	67.40%	
ORF Deposit	\$	-	\$	-		
Debt Service	\$	5,098,000	\$	4,983,816	97.76%	
Total Expenses		19,009,200	\$	16,344,775	85.98%	
Total Revenues	\$	18,378,500	\$	15,810,397	86.03%	
Metro Funding	\$	630,700	\$	630,700	100.00%	

Actual Costs and Revenues to Date include FY20 True-up Items.



8. FY22 Budget

Item		FY21 Budget		Y22 Budget	Percent of FY21 Budget
FOC's Pass Throughs	\$	3,776,800	\$	3,890,100	3.00%
Administrative Costs	\$	393,900	\$	459,600	16.68%
Chemicals	\$	260,700	\$	232,200	-10.93%
R&I Fund Transfers	\$	291,900	\$	294,800	0.99%
Water/Sewer	\$	624,000	\$	751,500	20.43%
Fuel Base	\$	2,001,900	\$	2,115,186	5.66%
Fuel Contingency	\$	431,900	\$	516,814	19.66%
Electricity	\$	6,130,100	\$	6,329,500	3.25%
ORF Deposit	\$	-	\$	-	
Debt Service	\$	5,098,000	\$	5,083,200	-0.29%
Total Expenses	\$	19,009,200	\$	19,672,900	3.49%
Total Revenues		18,378,500	\$	19,042,200	3.61%
Metro Funding	\$	630,700	\$	630,700	0.00%



9. Marketing

Remaining Capacity for Sale (approximate)

- 2,429 tons of chilled water
- 24,622 pph of steam

Potential Customers

- Service to Lot K (Peabody Union)
 - Site directly to the east of EGF
 - Active negotiations for chilled water service
 - Anticipated 550-ton capacity
 - Gaither Street



Marketing (con't)

- Peabody St Hotel
 - Potential 2,000 to 3,000 tons
- New Development North of KVB
 - Potential ~1,100 tons and ~15,000 pph
- Union Street Hotel
 - Ongoing renovation of existing building on Union St
 - Developer waiting on financing approval
 - Potential 100 tons and no steam
- Molloy St Development
 - Early stages of discussions



10. Capital Expenditure Update

	Spent to End of FY20	FY21 Spending	Balance to Date (07/31/21)
R&I Projects	\$3,887,279	\$383,360	\$47,950
49109-2010 Bond	\$2,600,602	\$5,314	\$0
49107-DES Infrastructure Fund	\$8,499,961	\$39	\$0
49116-DES Infrastructure Fund	\$1,568,389	\$1,144,726	\$2,583,689
Total	\$16,556,231	\$1,533,439	\$2,631,639



Active Capital Projects – General & Marketing

- DES 133.1: Broadway Tunnel Damage Recovery ongoing
- DES 139: Options Review ongoing
- DES 163: Peabody Union ongoing



Active Capital Projects – Corrosion Repair/Prevention

- DES 152: MHs A, B & M anticipate completion 1st Qtr FY22
- DES 161: MH S6 Insulation existing corroded anchor to be replaced; piping to be insulated; drawing issued; anticipate completion late 1st Qtr FY22/early 2nd Qtr FY22
- DES 172: Viridian Service Line Support Repairs anticipate completion 1st Qtr FY22
- DES 174: 7th Avenue Tunnel Pipe Support Repairs anticipate completion 1st Qtr FY22
- DES 188: 4th & Church Bldg Access Tunnel Repairs tunnel metal liner plates and piping supports corroded; anticipate bidding project during 1st Qtr FY22 and construction to start during 2nd Qtr FY22



Active Capital Projects – Repairs/Modifications

- DES 177: MH B1 Platform & Ladder bids rec'd; verbal award; anticipate construction late 1st Qtr FY22/early 2nd Qtr FY22
- DES 182: MH B10 Exp Jt Replacement construction in 4th Qtr FY21; awaiting insulation repairs; anticipate 1st Qtr FY22 completion
- DES 185: 5th Ave N Exploratory Excavation piping repairs complete; concrete repairs to be completed during 1st Qtr FY22
- DES 186: Printers Alley Exploratory Excavation work complete except final mill & pave; anticipate completion during 1st Qtr FY22



Active Capital Projects – Repairs/Modifications

- DES 187: Exploratory Excavation at MH 22B (Metro Public Library) water flowing through steam casing into MH 22B; excavated and found buried steam & condensate pre-insulated piping in need of repair; awaiting purchase/delivery of replacement piping; anticipate completion during 2nd Qtr FY22
- DES 190: MH 2 Spare Tube & Trap Modifications trap piping corroded & leaking due to low positioning in manhole; re-designed spare tube and trap piping to elevate position in manhole; construction began during 4th Qtr FY21; anticipate completion during 1st Qtr FY22.



Capital Projects – Anticipated Construction in FY22

- DES 143: MH N1 and N2 Insulation piping insulation to be installed/added
- DES 154: MH K Repairs corrosion/concrete repairs; awaiting results of sealing MH N2
- DES 178: MH 5 Repairs corrosion/concrete/insulation repairs
- DES 179: MH 11 Repairs corrosion/concrete/insulation repairs
- DES 180: State Tunnel Pipe Support Repair corrosion repairs
- DES 189: MH 4 Structural Steel & Insulation Repair



Capital Projects - Closed/In Close-out

- DES 153: MH L Repairs
- DES 168: DES Service to 1st and KVB Hotels
- DES 171: Broadway Tunnel Pipe Support & Safety Repairs
- DES 173: MH B3 Repairs
- DES 181: CHW & CND Leak in 3rd Ave N
- DES 183: Hermitage Hotel Svc Line Modifications
- DES 184: 7th Ave N Steam Leak Repair



11. Other Board Member Items

12. Adjourn

- > Advisory Board Meeting Schedule
- FY22 1st Quarter Meeting November 18, 2021
- > FY22 2nd Quarter Meeting February 17, 2022
- > FY22 3rd Quarter Meeting May 19, 2022
- > FY22 4th Quarter Meeting August 20, 2022