

Semi-Annual DES Customer Meeting Autumn 2009 (FY10)

Presented to Metro DES Customers

October 15, 2009



Agenda

- 1. Welcome!
- 2. Comparison of Customer Annual Costs
- 3. Annual True-up FY09
- 4. Approved FY10 Budget
- 5. Natural Gas Trends
- 6. CEPS Scorecard
- 7. Capital Projects Review
- 8. New Convention Center and Hotel
- 9. Questions and Answers
- 10. Adjourn



1. Welcome!





Metro Nashville district ENERGY SYSTEM





2. Comparison of Customer Annual Costs

| | | Steam (\$ millions) |) | Chilled Water (\$ millions) | | | | |
|-----------|---------------|------------------------|---------|--------------------------------|---------------|---------|--|--|
| | 7/07 –6/08 | 7/08- 6/09 | % Diff. | 7/07 6/08 | 7/08- 6/09 | % Diff. | | |
| Private | \$2.289 | \$2.294 | <1% | \$3.890 | \$3.711 | -4.6% | | |
| State | \$2.866 | \$2.971 | 3.7% | \$3.200 | \$3.262 | 1.9% | | |
| Metro* | \$2.643 | \$2.838 | 7.4% | \$3.053 | \$3.113 | 2.0% | | |
| Aggregate | \$7.798 | \$8.102 | 3.9% | \$10.143 | \$10.087 | <1% | | |

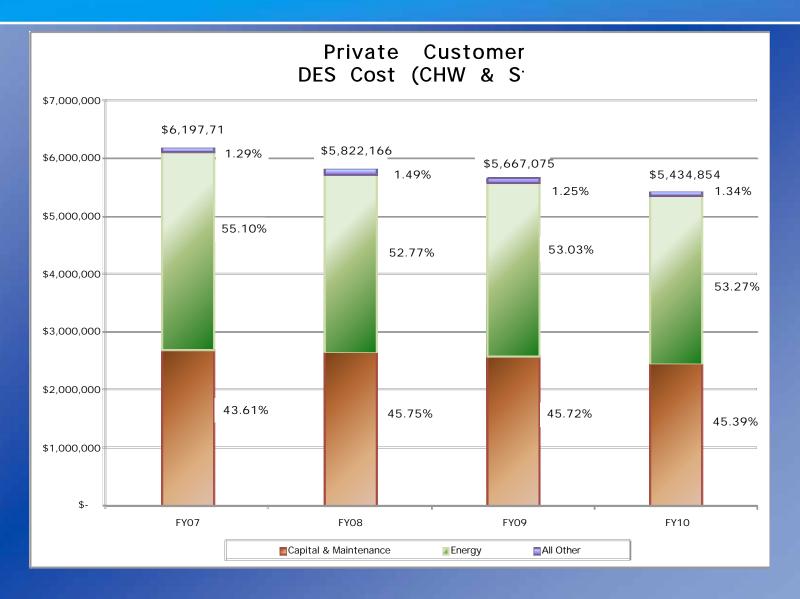
*FY08 MFA = \$2,193,075; FY09 MFA = \$3,217,986 (post-True-up)



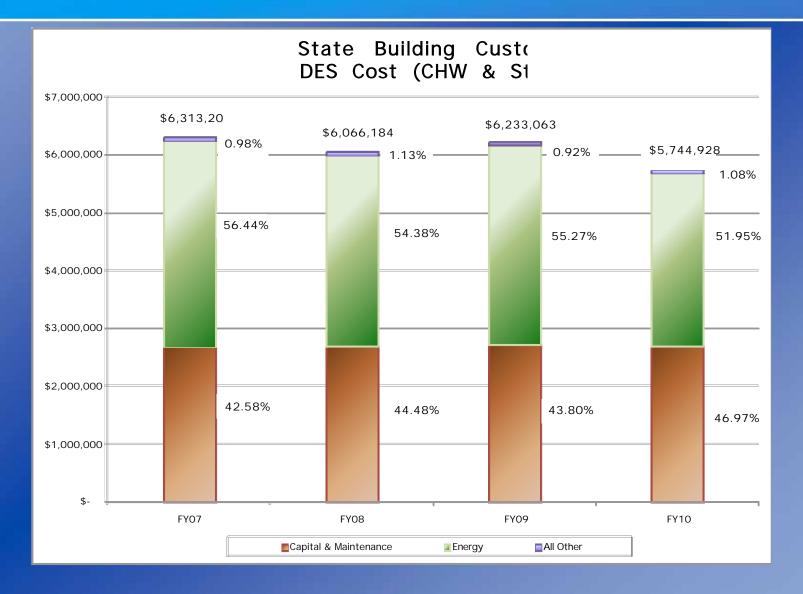
Graphics Legend:

- Capital & Maintenance Costs Include:
 - Contract Capacity Charge, FOC, EDS Improvement, Metro Incremental, EDS Maintenance
- Energy Costs Include:
 - Electricity, EDS Electricity, Water, Sewer, Natural Gas, Propane, TIFS
- "All Other" Costs Include:
 - Chemicals, Engineering, Insurance





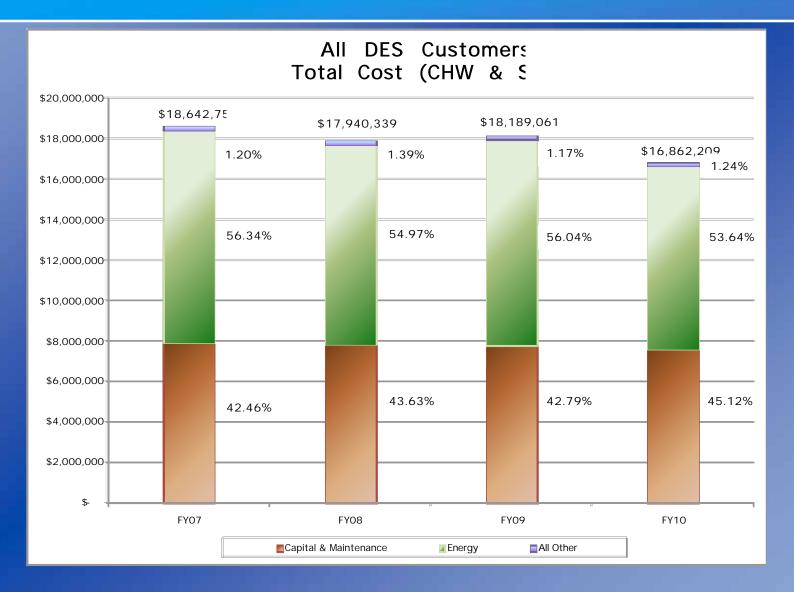














Customer Invoices – Chilled Water

| | Metro Nashvi District Energy System | | | | | 90 Peabody Str Nashville, TN | |
|-----------------------------------|---|--|---|--|---|---|------------------------------------|
| Bill | to:Metro Department of General Services | | | | OFFICIAL | INVOICE | |
| | Gregg Nicholson | | | Customer Acc | ount Numb | er: | 1(|
| | 222 Third Avenue North, Suite 350 | | | Invoice Numb | ber: | | 20090915-0 |
| | Nashville, TN 37201 | | | Invoice Date: | | | 9/15/20 |
| | gregg.nicholson@nashville.gov | | | Billing Period | l: | 08/01/20 | 009 - 08/31/2 |
| | | | | Amount Due: | | | \$ 55,802. |
| | Typical Happy Customer | | | Invoice Past D | Due If Not P | aid By | 10/15/20 |
| | er Billing Details Current Period | | Steam Billing D | | urrent Peri | | Prior Y |
| | Chilled Water Capacity: 1,000 ton | 1,000 ton | Contract Stea | | 12,500 | | 12,500 p |
| | Chilled Water Capacity: 1,000 ton ginning Meter Reading: 10,900,000 tonhr | 1,000 ton | Billed Ste Beginning Met | am Capacity: er Reading: 7 | 13,200 75,400,320 | | 12,500 pj |
| | Ending Meter Reading: 11,197,600 tonhr | | | | 75,891,360 | lbs | |
| | Chilled Water Use: 297,600 tonhr | 327,360 tonhr | Ū | Steam Use: | 491,040 | lbs | 564,696 lb |
| | | | | | | | |
| F | Fiscal Year to Date Use: 2,380,800 tonhr | | Fiscal Year T | o Date Use: | 2,455,200 | lbs | |
| | Fiscal Year to Date Use: 2,380,800 tonhr | ATER SERVICE | | o Date Use: | 2,455,200 | lbs | AMOUN |
| USTOM | ER CHARGES FOR CHILLED WA | ATER SERVICE | | o Date Use: | 2,455,200 | lbs | |
| | Fiscal Year to Date Use: 2,380,800 tonhr ER CHARGES FOR CHILLED WA | ATER SERVICE | | | | lbs \$1,006.71 | |
| USTOM | Fiscal Year to Date Use: 2,380,800 tonhr ER CHARGES FOR CHILLED WA arge Contract Capacity Charge | | Ξ | \$6.7121 pe | r ton = | | |
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| USTOM | Fiscal Year to Date Use: 2,380,800 tonhr ER CHARGES FOR CHILLED WA arge Contract Capacity Charge Fixed Operating Charge | 1,000 tons 1,000 tons | E x x | \$6.7121 pe \$8.6374 pe | r ton = r ton = r ton = | \$1,006.71 \$8,637.40 | |
| USTOM | Fiscal Year to Date Use: 2,380,800 tonhr ER CHARGES FOR CHILLED WA arge Contract Capacity Charge Fixed Operating Charge EDS Improvement Charge Metro Incremental Admn Charge | 1,000 tons 1,000 tons 1,000 tons | E X X X | \$6.7121 pe \$8.6374 pe \$0.3782 pe | r ton = r ton = r ton = | \$1,006.71 \$8,637.40 \$378.20 | \$ 11,194.4 |
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| USTOM | Fiscal Year to Date Use: 2,380,800 tonhr ER CHARGES FOR CHILLED WA arge Contract Capacity Charge Fixed Operating Charge EDS Improvement Charge Metro Incremental Admn Charge Charges Water and Sewer | 1,000 tons 1,000 tons 1,000 tons 1,000 tons 297,600 tonhrs | E X X X X X | \$6.7121 pe \$8.6374 pe \$0.3782 pe \$1.1721 pe | r ton = r ton = r ton = r ton = r tonhr = r tonhr = | \$1,006.71 \$8,637.40 \$378.20 \$1,172.10 \$1,458.24 | \$ 11,194.4 |
| USTOM | Fiscal Year to Date Use: 2,380,800 tonhr ER CHARGES FOR CHILLED WA arge Contract Capacity Charge Fixed Operating Charge EDS Improvement Charge Metro Incremental Admn Charge Charges Water and Sewer Chemicals | 1,000 tons 1,000 tons 1,000 tons 1,000 tons 1,000 tons 297,600 tonhrs 297,600 tonhrs | E X X X X X X X X X X X X X X X X X X X | \$6.7121 pe \$8.6374 pe \$0.3782 pe \$1.1721 pe \$0.0049 pe \$0.0014 pe | rr ton = rr ton = rr ton = rr ton + rr ton + rr ton + rr ton + rr ton = | \$1,006.71 \$8,637.40 \$378.20 \$1,172.10 \$1,458.24 \$416.64 | \$ 11,194.4 |
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| USTOM | Fiscal Year to Date Use: 2,380,800 tonhr ER CHARGES FOR CHILLED WA arge Contract Capacity Charge Fixed Operating Charge EDS Improvement Charge Metro Incremental Admn Charge Charges Water and Sewer Chemicals Engineering Insurance EDS Electricity | 1,000 tons 1,000 tons 1,000 tons 1,000 tons 297,600 tonhrs 297,600 tonhrs 297,600 tonhrs 1,000 tons 1,000 tons 1,000 tons | E X X X X X X X X X X X X X X X X X X X | \$6.7121 pe \$8.6374 pe \$0.3782 pe \$1.1721 pe \$0.0049 pe \$0.0014 pe \$0.0583 pe \$0.0058 pe \$0.0000 pe \$0.1379 pe | r ton = r ton = r ton = r tonhr = r tonhr = r tonhr = r ton = r ton = r ton = r ton = | \$1,006.71 \$8,637.40 \$378.20 \$1,172.10 \$1,458.24 \$416.64 \$58.30 \$0.00 \$137.90 | \$ 11,194.4 |
| USTOM pacity Cha ss Through | Fiscal Year to Date Use: 2,380,800 tonhr ER CHARGES FOR CHILLED WA arge Contract Capacity Charge Fixed Operating Charge EDS Improvement Charge Metro Incremental Admn Charge Charges Water and Sewer Chemicals Engineering Insurance EDS Electricity EDS Maintenance Cost Alloc. Thermal Inefficiency Fuel Surcharge 12.00 | 1,000 tons 1,000 tons 1,000 tons 1,000 tons 297,600 tonhrs 297,600 tonhrs 297,600 tonhrs 1,000 tons 1,000 tons 1,000 tons | E X X X X X X X X X X X X X X X X X X X | \$6.7121 pe \$8.6374 pe \$0.3782 pe \$1.1721 pe \$0.0049 pe \$0.0014 pe \$0.0583 pe \$0.0000 pe \$0.1379 pe \$0.0000 pe | r ton = r ton = r ton = r tonhr = r tonhr = r tonhr = r ton = r ton = r ton = r ton = | \$1,006.71 \$8,637.40 \$378.20 \$1,172.10 \$1,458.24 \$416.64 \$58.30 \$0.00 \$137.90 \$0.00 | \$ 11,194.4 \$ 2,188.6 |
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Customer Invoices – Steam

| apacity Ch | MER CHARGES FOR STEAM SE | | | | | | ¢ | 11,635 |
|-------------|---|---|--------------|----------------------------------|---------------|----------------------------------|------|---------|
| | Contract Capacity Charge | 13,200 pph | Х | \$0.4464 | per pph = | \$5,892.48 | Ψ | 11,033 |
| | Fixed Operating Charge | 13,200 pph | x | | per pph = | \$4,869.48 | | |
| | EDS Improvement Charge | 13,200 pph | x | | per pph = | \$212.52 | | |
| | Metro Incremental Admn Charge | 13,200 pph | x | | per pph = | \$661.32 | | |
| ass Throug | h Charges | | | | | | \$ | 1,434 |
| | Water and Sewer | 491,040 lbs | Х | \$0.0021 | per lb = | \$1,031.18 | | |
| | Chemicals | 491,040 lbs | х | \$0.0006 | per lb = | \$294.62 | | |
| | Engineering | 13,200 pph | х | \$0.0024 | per pph = | \$31.68 | | |
| | Insurance | 13,200 pph | х | \$0.0000 | per pph = | \$0.00 | | |
| | EDS Electricity | 13,200 pph | х | \$0.0058 | per pph = | \$76.56 | | |
| | EDS Maintenance Cost Alloc. | 13,200 pph | х | \$0.0000 | per pph = | \$0.00 | | |
| nergy Chai | Electric Natural Gas Propane | 491,040 lbs 491,040 lbs 491,040 lbs | x x x | \$0.0006 \$0.0182 \$0.0000 | per lb = | \$294.62 \$8,936.93 \$0.00 | • | 9,231 |
| OTAL STE | EAM CHARGES | 491,040 lbs | Х | \$0.0454 | per lb = | | \$ | 22,301 |
| | | | | | | | \$ | |
| | | | | | | | \$ | |
| | | | | | | | \$ | |
| | SUBTOTAL | | | | | | \$ | 55,802 |
| OTAL CH | IARGES for Billing Period | | | | | | \$ | 55,802 |
| | Previous Balance - Includes Credit Bala | nce from Annual True-Up | | | | | \$ (| (10,253 |
| | Payments Received through | 9/15/2009 | | | | | \$ | |
| URRENT / | AMOUNT TO BE PAID | | | | | | \$ | 45,548 |
| *** Pay | ments received after the due date will be ass | essed a late charge of 1 1/2% p | er month on | the amount | past due. ** | * | | |
| - Please di | rect any billing inquiries to: Jimmy Hatcher | at (615) 742-1883 ext 29 - Fo | r customer s | ervice, plea | se contact Ch | uck Tucker at (| 615) | 742-1 |



Customer Issues

- Escalators for FY10
- True-up FY09
- Energy Pricing FY10
- Customer Chilled Water Outage Jan 23 – 24, 2010
- Disaster Plan
- Exclusivity Agreement



3. Annual True-up FY09

| Item | FY09 Budget | P | FY09 ost-True up | % Difference to Budget |
|--------------------------------|------------------|----|---------------------|---------------------------|
| FOC: Basic + C/O 6C | \$ 3,852,200 | \$ | 3,852,170 | 0.0% |
| FOC: 9th Chiller | \$ 36,100 | \$ | 36,095 | 0.0% |
| FOC: Change Order 6A | \$ 71,300 | \$ | 71,263 | -0.1% |
| FOC: Change Order 6B | \$ 62,400 | \$ | 62,388 | 0.0% |
| Chemicals | \$ 156,500 | \$ | 150,209 | -4.0% |
| Engineering | \$ 40,000 | \$ | 21,345 | -46.6% |
| Insurance | \$ 42,400 | \$ | 29,722 | -29.9% |
| Marketing: CEPS Sales Activity | \$ 27,000 | \$ | 5,006 | -81.5% |
| Metro Marketing | \$ 52,900 | \$ | 7,698 | -85.4% |
| Incentive Payments | \$ 30,100 | \$ | 9,878 | -67.2% |
| Project Administration | \$ 24,200 | \$ | - | -100.0% |
| Metro Incremental Cost | \$ 568,000 | \$ | 374,174 | -34.1% |
| Water/Sewer | \$ 681,600 | \$ | 402,901 | -40.9% |
| Natural Gas/Propane | \$ 6,575,300 | \$ | 5,292,873 | -19.5% |
| Electricity | \$ 4,437,300 | \$ | 4,312,285 | -2.8% |
| EDS Repair & Improvement | \$ 171,400 | \$ | 137,575 | -19.7% |
| EDS Surcharge | \$ 68,500 | \$ | - | -100.0% |
| Sub-total Operations | 16,897,200 | | 14,765,582 | -12.62% |
| 2002 Bonds | \$ 4,361,800 | \$ | 4,362,360 | 0.0% |
| 2005 Bonds | \$ 631,600 | \$ | 1,433,498 | 127.0% |
| FY07 Projects | \$ 227,800 | \$ | 224,150 | -1.6% |
| FY08 Projects | \$ 220,500 | \$ | - | n.a. |
| Debt Service Interest Revenue | \$ (72,300) | \$ | (227,951) | n.a. |
| Oper. Reserve Funding Deposit | \$ 96,800 | \$ | 97,740 | 1.0% |
| Sub-total Debt Service | \$ 5,466,200 | \$ | 5,889,798 | 7.75% |
| Total Expenses | \$ 22,363,400 | \$ | 20,655,380 | -7.64% |
| Customer Revenues | 19,741,800 | \$ | 17,702,957 | -10.33% |
| Project Admin. Revenue | \$ 24,200 | \$ | _ | |
| True up Credits to Customers | \$ - | \$ | (266,448) | |
| Total Metro Funding Amount | \$ 2,597,400 | \$ | 3,218,871 | 23.93% |



4. Approved FY10 Budget

| Item | FY09 Budget Pos | | FY09 Post-True up | | FY10 Budget | Percent Change from FY09 Budget | |
|--------------------------------|--------------------|------------|----------------------|------------|----------------|---------------------------------------|---------|
| FOC: Basic + C/O 6C | \$ | 3,852,200 | \$ | 3,852,170 | \$ | 3,976,200 | 3.2% |
| FOC: 9th Chiller | \$ | 36,100 | \$ | 36,095 | \$ | 37,200 | 3.0% |
| FOC: Change Order 6A | \$ | 71,300 | \$ | 71,263 | \$ | 73,400 | 2.9% |
| FOC: Change Order 6B | \$ | 62,400 | \$ | 62,388 | \$ | 64,300 | 3.0% |
| Chemicals | \$ | 156,500 | \$ | 150,209 | \$ | 161,200 | 3.0% |
| Engineering | \$ | 40,000 | \$ | 21,345 | \$ | 26,200 | -34.5% |
| Insurance | \$ | 42,400 | \$ | 29,722 | \$ | 43,700 | 3.1% |
| Marketing: CEPS Sales Activity | \$ | 27,000 | \$ | 5,006 | \$ | 9,800 | -63.7% |
| Metro Marketing | \$ | 52,900 | \$ | 7,698 | \$ | 35,000 | -33.8% |
| Incentive Payments | \$ | 30,100 | \$ | 9,878 | \$ | - | -100.0% |
| Project Administration | \$ | 24,200 | \$ | - | \$ | 24,000 | -0.8% |
| Metro Incremental Cost | \$ | 568,000 | \$ | 374,174 | \$ | 526,400 | -7.3% |
| Water/Sewer | \$ | 681,600 | \$ | 402,901 | \$ | 689,600 | 1.2% |
| Natural Gas/Propane | \$ | 6,575,300 | \$ | 5,292,873 | \$ | 4,692,900 | -28.6% |
| Electricity | \$ | 4,437,300 | \$ | 4,312,285 | \$ | 5,034,100 | 13.4% |
| EDS Repair & Improvement | \$ | 171,400 | \$ | 137,575 | \$ | 176,500 | 3.0% |
| EDS Surcharge | \$ | 68,500 | \$ | - | \$ | 70,600 | 3.1% |
| Sub-total Operations | \$ | 16,897,200 | \$ | 14,765,582 | \$ | 15,641,100 | -7.4% |
| 2002 Bonds | \$ | 4,361,800 | \$ | 4,362,360 | \$ | 4,362,900 | 0.0% |
| 2005 Bonds | \$ | 631,600 | \$ | 1,433,498 | \$ | 627,600 | -0.6% |
| FY07 Projects | \$ | 227,800 | \$ | 224,150 | \$ | 227,800 | 0.0% |
| FY08 Projects | \$ | 220,500 | \$ | - | \$ | 220,500 | 0.0% |
| Debt Service Interest Revenue | \$ | (72,300) | \$ | (227,951) | \$ | (123,700) | 71.1% |
| Oper. Reserve Funding Deposit | \$ | 96,800 | \$ | 97,740 | \$ | - | -100.0% |
| Sub-total Debt Service | \$ | 5,466,200 | \$ | 5,889,798 | \$ | 5,315,100 | -2.8% |
| Total Expenses | \$ | 22,363,400 | \$ | 20,655,380 | \$ | 20,956,200 | -6.3% |
| Customer Revenues | \$ | 19,741,800 | \$ | 17,702,957 | \$ | 18,479,400 | -6.4% |
| Project Admin. Revenue | \$ | 24,200 | \$ | - | \$ | 24,000 | -0.8% |
| | | | \$ | (266,448) | | | |
| Total Metro Funding Amount | \$ | 2,597,400 | \$ | 3,218,871 | \$ | 2,452,800 | -5.6% |



5. Natural Gas Trends

Natural Gas Purchasing Review Table 5: FY09 Gas Spending & Budget Comparison Figure 5: Actual and Projected Gas Costs

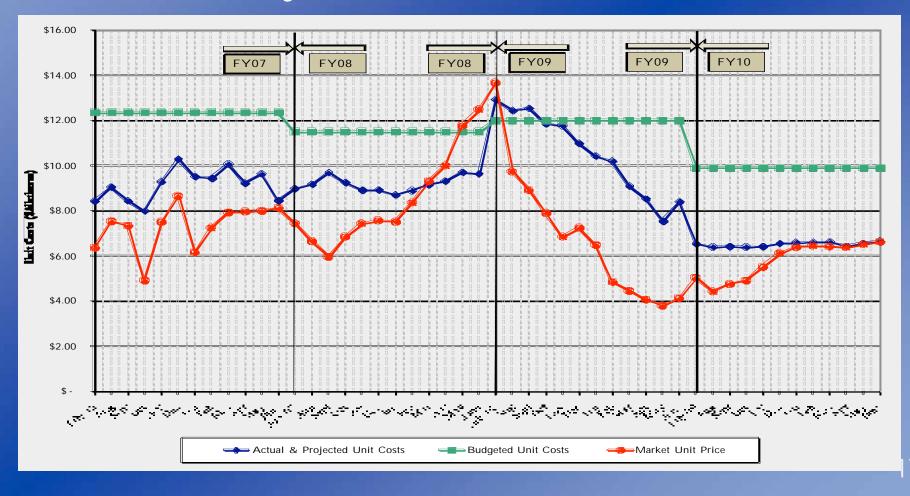


Table 5: FY09 Gas Spending & BudgetComparison

| | Actual FY09 To date (June 30) | Budget FY09 |
|----------------------------|----------------------------------|-------------|
| | | |
| Steam Sendout (MIbs) | 338,984 | 377,050 |
| Fuel Use (Dth) | 477,760 | 547,231 |
| Plant Eff (Dth/Mlb) | 1.409 | 1.451 |
| Total Gas Cost | \$5,171,322 | \$6,575,300 |
| Unit Cost of Fuel (\$/Dth) | \$10.824 | \$12.020 |



Actual and Projected Gas Costs





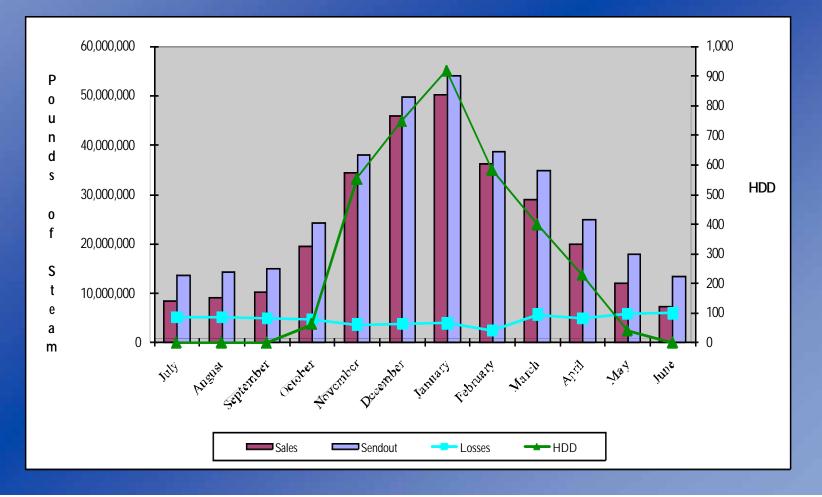
6. CEPS Scorecard

Contractor (CNDE) is in compliance with their contractual obligations for FY09.

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

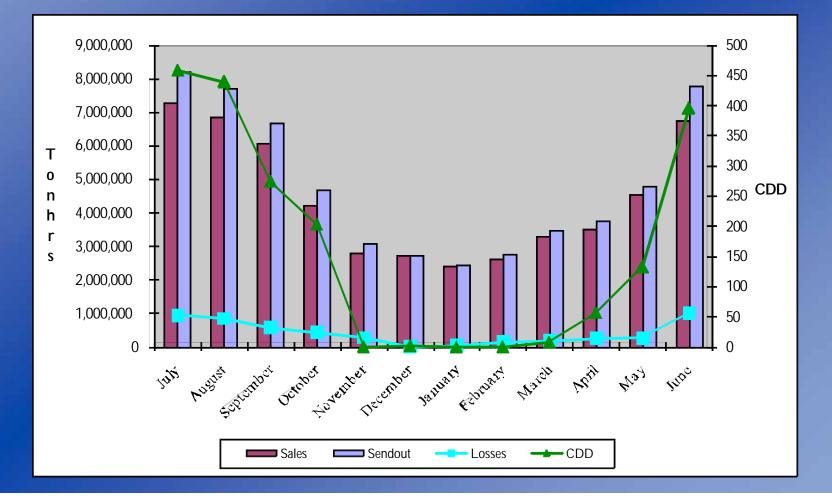


FY09 Operations: Steam



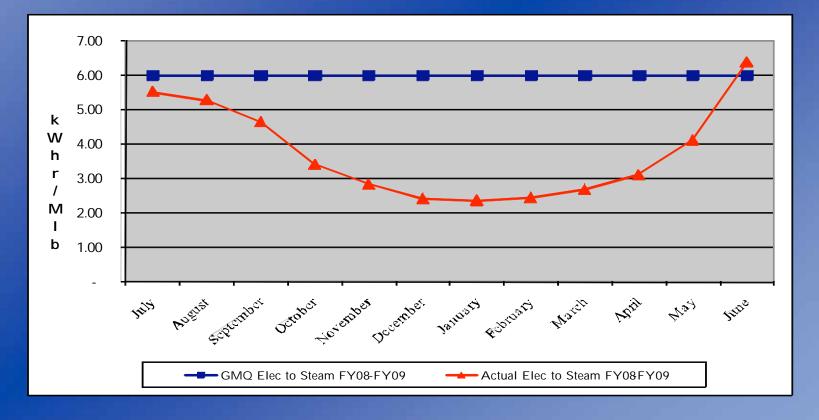


FY09 Operations: Chilled Water



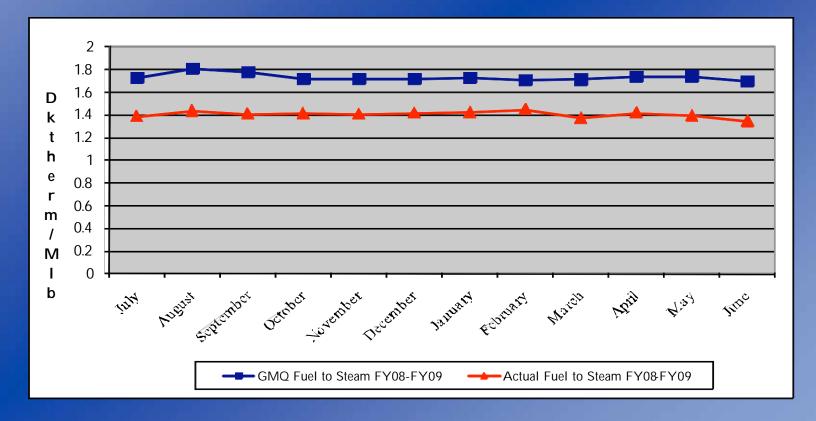


Performance Measurement FY09: Steam Electric Conversion





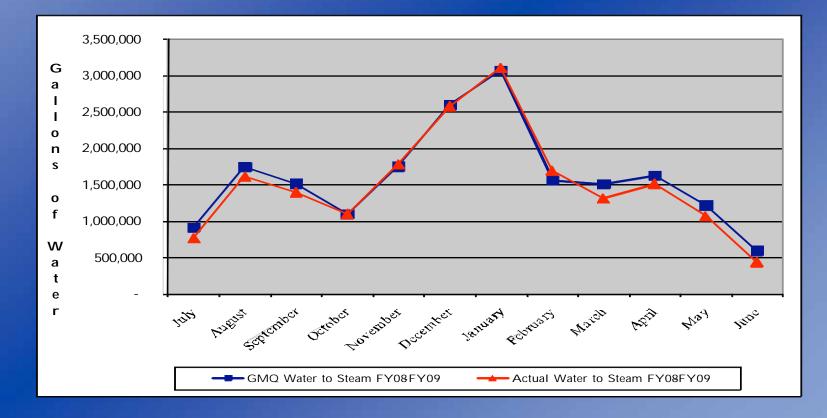
Performance Measurement FY09: Steam Plant Efficiency





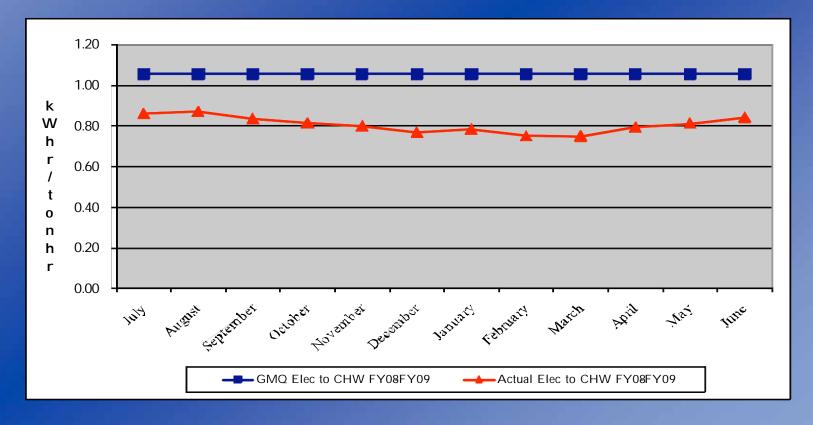
Performance Measurement FY09: Steam

Water Conversion



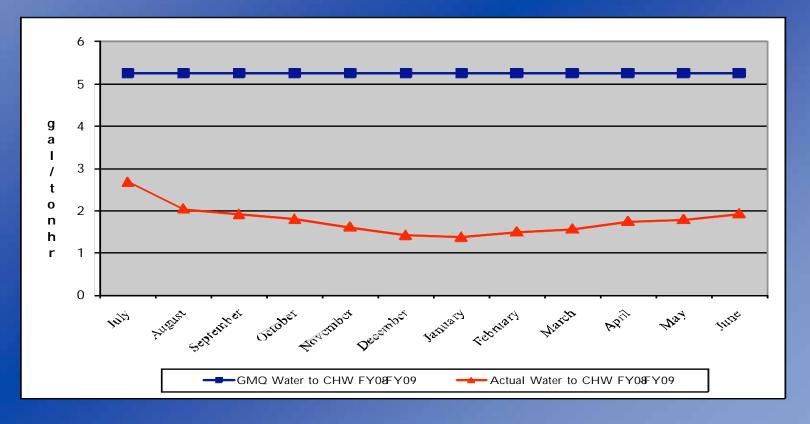


Performance Measurement FY09: Chilled Water Electric Conversion





Performance Measurement FY09: Chilled Water Water Conversion





Water Treatment

- Steam/Condensate
 - Corrosion
 - Iron
 - Hardness
 - Chlorine/Sulfite
- Condensing Water
 - Conductivity 🔵
 - Biologicals
- Chilled Water
 - Hardness
 - Corrosion (
 - Biologicals 🤇



EGF Walkthrough

Quarterly Inspection Process

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



EDS Walkthrough

Quarterly Inspection Process

- Manhole/Tunnel Housekeeping
- Maintenance Items
 - Insulation Repair/Replacement –
 - Water Infiltration
 - Corrosion of Structural Metal Components
- Safety Items



7. Capital Projects Review

Active Capital Projects

- DES 041/054: Symphony CND closed
- DES 044: STM Repair & CND Replacement MH 5 to MH 9 in closeout
- DES 046: Ryman CND in closeout
- DES 050: MH Insulation in construction/ongoing (DES 060 in FY 2010)
- DES 055: Rebuild of MH "C" closed
- DES 056: STM Repair & CND Replacement to Citizen's Plaza in closeout
- DES 057: STM & CND Valve Replacement: Phase I & II in closeout



FY 2010 Proposed Projects

- DES 048: Tunnel Lighting Replacement Phase III
- DES 059: CJC Steam & Condensate Line Replacement
- DES 061: Manhole & Tunnel Steel Corrosion Repair & Prevention
- DES 062: Wildhorse Stm & Cnd Line Replacement currently bidding
- DES 063: Sump Pump Installation in MH A, B & M in design
- DES 067: Tunnel Rock Repair in design
- DES 068: St Mary's Condensate Tempering
- DES 069: Municipal Auditorium Condensate Tempering
- DES 070: MH 6 to 23 Condensate Line Replacement
- DES 071: Hermitage Hotel Service Modifications
- DES 072: Sheraton Hotel Steam and Condensate Replacement



Table 7: Capital Project Summary (06/30/09)

| | Spent to End of FY08 | FY09 Spending and Committed | Balance to Date (06/30/09) |
|--------------|-------------------------|-----------------------------------|-------------------------------|
| 2002A Bond | \$3,680,667 | \$47,036 | \$0 |
| R&I Projects | \$626,555 | \$137,575 | \$458,936 |
| 2005B Bond | \$7,655,347 | \$264,743 | \$266,410 |
| 2007 Bond | \$2,620,771 | \$0 | \$237,729 |
| 2008 Bond | \$87,758 | \$1,638,385 | \$1,031,878 |
| 2010 Bond | \$0 | \$0 | \$2,410,000 |
| Total | \$14,671,098 | \$2,087,739 | \$4,404,953 |

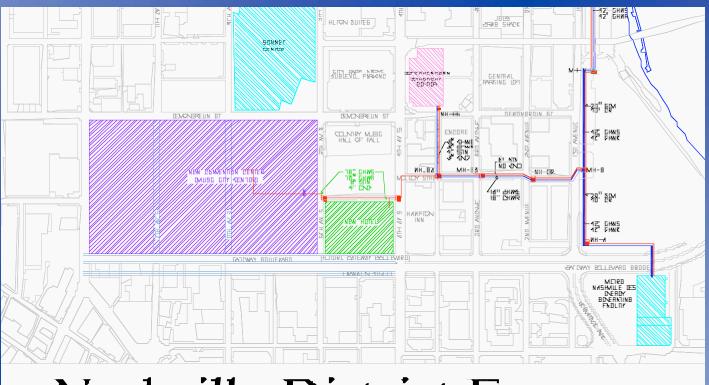


8. New Convention Center and Hotel





Music City Center & New Hotel DES Location



Nashville District Energy



Music City Center & New Hotel

- Music City Center
 - 3,500 tons
 - 35,000 pph
- New Hotel
 - 1,500 tons
 - 18,000 pph
- Est \$1,500,000 (~55%) Reduction in MFA
- No Impact on Existing Customers
- New Load Approaches EGF Capacity Limit



9. Questions and Answers10. Adjourn