Updated by Thermal Engineering Group, Inc.

Metro Nashville District Energy System

Revenue and Tax Refunding Bonds, Series 2012A \$47,450,000

15c2-12 Continuing Disclosure Update

Please refer to www.nashville.gov/des for further information regarding the District Energy System (DES).

THE SYSTEM AND ITS OPERATIONS

Overview

The District Energy System is a district heating and cooling system that provides steam and chilled water to the downtown metropolitan Nashville area for the purpose of general heating and air conditioning and is located in downtown Nashville. The Metropolitan Government of Nashville and Davidson County is the owner of the district system, the Energy Generating Facility (EGF) and the site on which the EGF is located. The ownership of a portion of the Energy Distribution System was transferred from the State to the Metropolitan Government in 2004.

Primary components of the System include (i) the steam production subsystem consisting of four 65,000 PPH forced draft, pressurized, dual-fuel boilers and a duplex soft water system; (ii) the chilled water subsystem comprised of nine 2,600-ton electrical drive chillers, 18 single-cell, induced draft cooling towers and 6 chilled water and 5 condenser water pump/motor sets; (iii) a 69/13.8 KV supply substation and two 69/13.8 KV transformers; and (iv) more than 14,000 trench/tunnel feet of underground energy distribution piping.

Production and Sale of Energy

Sale of Energy Generated by the System

<u>Historical Capacity and Sales</u>: Under existing Customer Contracts between the Customers and the Metropolitan Government, the System provides steam and chilled water services to a total of 41 buildings in downtown Nashville, consisting of 17 privately owned buildings, 14 State owned buildings and 10 Metro-owned buildings. The actual sales, on average, over the previous three fiscal years indicates that the Private Customers, the State and the Metropolitan Government customers accounted for approximately 26.38%, 37.97% and 35.65%, respectively of the actual steam sales and 31.47%, 27.52% and 41.01% respectively of the actual chilled water sales. Below is a six-year summary of total historic steam and chilled water sales for the System:

Historical Sales - Fiscal Years Ended June 30

	FY09	FY10	FY11	FY12	FY13	FY14
Steam Sales (1,000 lbs)	282,524	272,448	277,943	250,414	374,366	376,433
Chilled Water Sales (1,000	52,976	51.273	56,118	57,233	62,538	65,994
tonhrs)	32,770	31,273	30,110	31,233	02,330	05,774

System Capacity and Sales: The Energy Generating Facility has been designed to produce a total installed capacity of 260,000 PPH of 150 PSIG saturated steam and 23,400 tons per hour of 42°F chilled water. Assuming one boiler and one chiller off-line with chilled water and steam services based on historical peak demands, the diversity factors are 63.87% and 69.14% respectively. Recognizing both parasitic loads, line losses and significant increases in actual peak demands in FY14, the Metropolitan Government has estimated remaining diversified contract sales capacity of 2,276 tons for chilled water and 463 PPH for steam. Historically, customer's contract for demand is an amount greater that they actually experience and, when compared to their peak demand this difference is considered the Contract Diversity. The following table sets forth the current total capacities of steam and chilled water contracted for by the Customers pursuant to the Customer Contracts:

Customer Commitments	Committed		Percentage of Total Available Capacity				
	Steam	Steam Chilled Water		Steam Chilled Wtr			
	(pph)	(tons)	(-)	(-)			
Commercial Customers	(FF)	()	()	()			
Parkway Towers	4,500	550	2.90%	2.70%			
Wachovia	1,850	190	1.19%	0.93%			
Regions	-	-	0.00%	0.00%			
Sheraton Hotel	12,660	950	8.17%	4.66%			
Hermitage Hotel	7,000	400	4.52%	1.96%			
501 Union Building	2,500	175	1.61%	0.86%			
Fifth Third Financial Center	17 207	1,043	0.00%	5.11%			
Renaissance Hotel	17,287	1,000 255	11.15%	4.90%			
Renaissance Office Complex	315	233 27	0.00%	1.25%			
St Saint Mary's Church Nashville City Center	-	850	0.20% 0.00%	0.13% 4.17%			
Wildhorse Saloon	1,600	210	1.03%	1.03%			
Ryman Auditorium	1,450	230	0.94%	1.03% 1.13%			
Total Commercial	49,162	5,880	31.71%	28.82%			
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State of Tennessee							
Andrew Jackson	60,403	1,425	38.96%	6.99%			
Central Services	.(1)	.(3)	.(1)	.(3)			
Cordell Hull	.(1)	498	.(1)	2.44%			
John Sevier	.(1)	404	.(1)	1.98%			
War Memorial	.(1)	704	.(1)	3.45%			
Library & Archives	.(1)	156	.(1)	0.76%			
Supreme Court	.(1)	78	.(1)	0.38%			
State Capitol	.(1)	222	.(1)	1.09%			
James K Polk	14,560	1,309	9.39%	6.42%			
Citizen's Plaza	7,350	788	4.74%	3.86%			
Tennessee Tower	12,165	1,760	7.85%	8.63%			
Tennessee State University	5,405	(2)	3.49%	0.00%			
Legislative Plaza Rachel Jackson	.(1)	.(2)	.(1)	.(2)			
Total State	. (1) 99,883	. (1) 7,344	. (1) 64.43%	.(1) 36.00%			
	77,003	7,544	04.43 /0	30.00 /0			
Metropolitan Government							
AA Birch/Ben West	13,800	1,050	8.90%	5.15%			
Metro Courthouse	7,000	466	4.52%	2.28%			
Municipal Auditorium	4,500	600	2.90%	2.94%			
Criminal Justice Center	13,210	585	8.52%	2.87%			
Convention Center	18,750	1,400	12.09%	6.86%			
Sommet Center	15,269	2,500	9.85%	12.25%			
LP Field	-	1,500	0.00%	7.35%			
Hume Fogg Academy	3,000	300	1.94%	1.47%			
Metro Public Library	8,374	700	5.40%	3.43%			
Music City Convention Center Total Metro		5,820	30.64%	28.53%			
Total Metro	131,403	14,921	84.76%	73.14%			
Additional Customers							
Sun Trust Bank	6,606	660	4.26%	3.24%			
Schermerhorn Hall	4,200	500	2.71%	2.45%			
Viridian Tower	-	512	0.00%	2.51%			
Nashville Hyatt Place	6,300	<u>250</u>	4.06%	1.23%			
Total Additional	17,106	1,922	11.03%	9.42%			
TOTAL COMMITMENTS	297,554	30,067	191.94%	147.39%			
Total Available Capacity	155,025	20,400					
Historic Peak Demand	154,705	18,946					
Sales Diversity Factor	69.14%	63.87%					
Diversified Sales Avail.	463	2,276					
Diversing Baies Avail.	403	4,470					

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Projected Operating Results; Projected Revenues and Expenses

The following table sets forth the operating results for the past year of operations, and certain base case financial projections developed by Thermal Engineering Group, Inc. (TEG) for the succeeding 5 years of operation of the System. The base case projections assume sales based on Customer Contracts existing as of the date hereof and not on sales of any remaining available capacity.

Forecast of Revenues and Expenses Fiscal Years Ended June 30

		FY2014	FY2015		FY2016		FY2017		FY2018	FY2019
_		Actual (5)	Budget		Projected (4)					
Metro Funding Amount (1)	\$	1,916,581 \$	1,849,500	\$	1,794,000	\$	1,641,528	\$	1,475,529	\$ 1,303,555
Revenues	\$	18,526,227 \$	20,501,500	\$	20,187,900	\$	20,791,905	\$	21,414,030	\$ 22,054,819
Total Operating Revenues	\$	20,442,808 _\$	22,351,000	\$	21,981,900	\$	22,433,433	\$	22,889,559	\$ 23,358,374
Total Operating Expenses (2)	\$	14,737,076 \$	16,705,100	\$	16,416,000	\$	16,908,480	\$	17,415,734	\$ 17,938,206
Net Revenues	_\$	5,705,732 _\$	5,645,900	_\$	5,565,900	_\$	5,524,953	_\$	5,473,825	\$ 5,420,168
Total Debt Service (3)	\$	5,705,732 \$	5,645,900	\$	5,565,900	\$	5,524,953	\$	5,473,825	\$ 5,420,168
Net Revenue Available	\$	- \$	-	\$	-	\$	-	\$	-	\$ -

Notes:

- (1) The Metro Funding Amount transferred annually represents the anticipated operational cost shortfall based on the projected revenues and expenses and therefore will be more or less than the amount actually required.
- (2) Operating expenses include transfers made to the EDS Repair and Replacement Fund.
- (3) Debt service amounts have been pro-rated on a 12-month fiscal year basis and are net of any interest earnings and capitalized interest payments. Total debt service includes potential obligations relative to approved capital budgets through FY16. Values reflect re-funded 2002A Bonds.
- ^{*}(4) Fiscal Year 2016 Budget is under development and will need to be adjusted to recognize true-ups and transfers.
- (5) Fiscal Year 2014 Actual adjusted to include year-end Customer True-Up.

Subsequent to the close of the fiscal year, certain estimated operating expenses and costs charged to system customers must be adjusted to reflect actual cost. This Annual Customer True-up is required to determine variances between budget and actual for purposes of customer invoicing. As a result, the Forecast of Revenues and Expenses do not necessarily reflect the audited financial statements.

Based on the experience of TEG, and the information made available to it by way of historical operating data for the Metro Nashville District Energy System, TEG is of the opinion that the revenues projected to be derived from operation of the System are adequate to pay all operating expenses and provide a minimum debt service coverage on the District Energy System Revenue and Tax Refunding Bonds, Series 2012A of at least 1.00 over the term of the debt.