



2009 Energy Report

Toronto Zoo

All Facilities

**Facilities & Real Estate
Energy & Waste Management Office**

CITY OF TORONTO

2009 Energy Report

TORONTO ZOO

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CITY OF TORONTO
TORONTO ZOO

ALL FACILITIES

2009 Actual Energy CONSUMPTION & COST vs Adjusted Baseline
EXECUTIVE SUMMARY

ENERGY TYPE		ENERGY CONSUMPTION				ENERGY COST (1000\$)			
Name & Unit		Adj. Base 2008	Actual 2009	Energy Change	Percent Change	Adj. Base 2008	Actual 2009	Cost Change	Percent Change
Electricity	MWh	11,365.6	11,513.8	148.2	1.3%	\$1,091.5	\$1,107.3	\$15.8	1.4%
Natural Gas	1000 m³	1,936.3	1,960.4	24.2	1.2%	\$720.5	\$727.8	\$7.2	1.0%
Heating Oil	1000 litre	17.8	14.0	-3.9	-21.7%	\$13.0	\$9.9	-\$3.1	-24.1%
Gasoline	1000 litre	99.1	64.9	-34.2	-34.5%	\$85.8	\$51.1	-\$34.7	-40.5%
Diesel	1000 litre	87.0	66.7	-20.3	-23.3%	\$67.6	\$49.5	-\$18.1	-26.8%
Propane	1000 litre	36.8	35.7	-1.1	-2.9%	\$16.0	\$14.6	-\$1.4	-8.9%
Water	1000 m³	326.0	298.0	-27.9	-8.6%	\$616.7	\$563.6	-\$53.1	-8.6%
Total		33,743.5	33,546.3	-197.2	-0.6%	\$2,611.1	\$2,523.7	-\$87.4	-3.3%

NOTE:

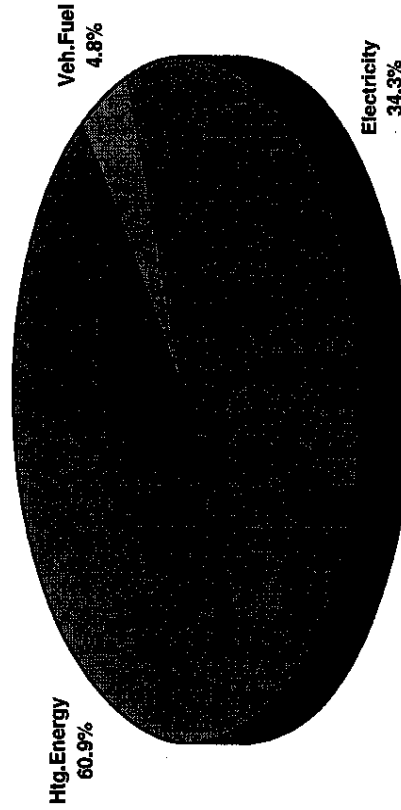
- 1) Adj. Base - The 2008 energy consumption and cost are adjusted to the 2009 billing periods, weather conditions and energy costs.
- 2) Actual - The current year (2009) actual energy consumption and cost.
- 3) eMWh - equivalent megawatt-hour (or 1000 kWh).
- 4) Total energy excludes water consumption; total cost includes all energy type.

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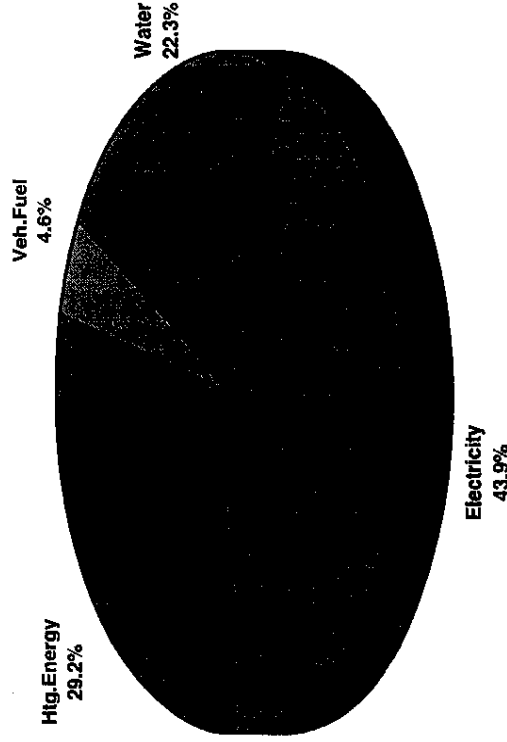
ZOO MAIN METER
2009 Actual Energy CONSUMPTION & COST

Energy Consumption



Total 33,546 equivalent megawatt hours
Total 7,231 tonnes CO2

Energy Cost



Total \$2,523.7 millions

NOTE: Htg Energy includes natural gas & heating oil; Veh.Fuel includes gasoline, diesel and propane.

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MULTI-YEAR QUARTERLY ENERGY CONSUMPTION
(Excluding Restaurant Operations)

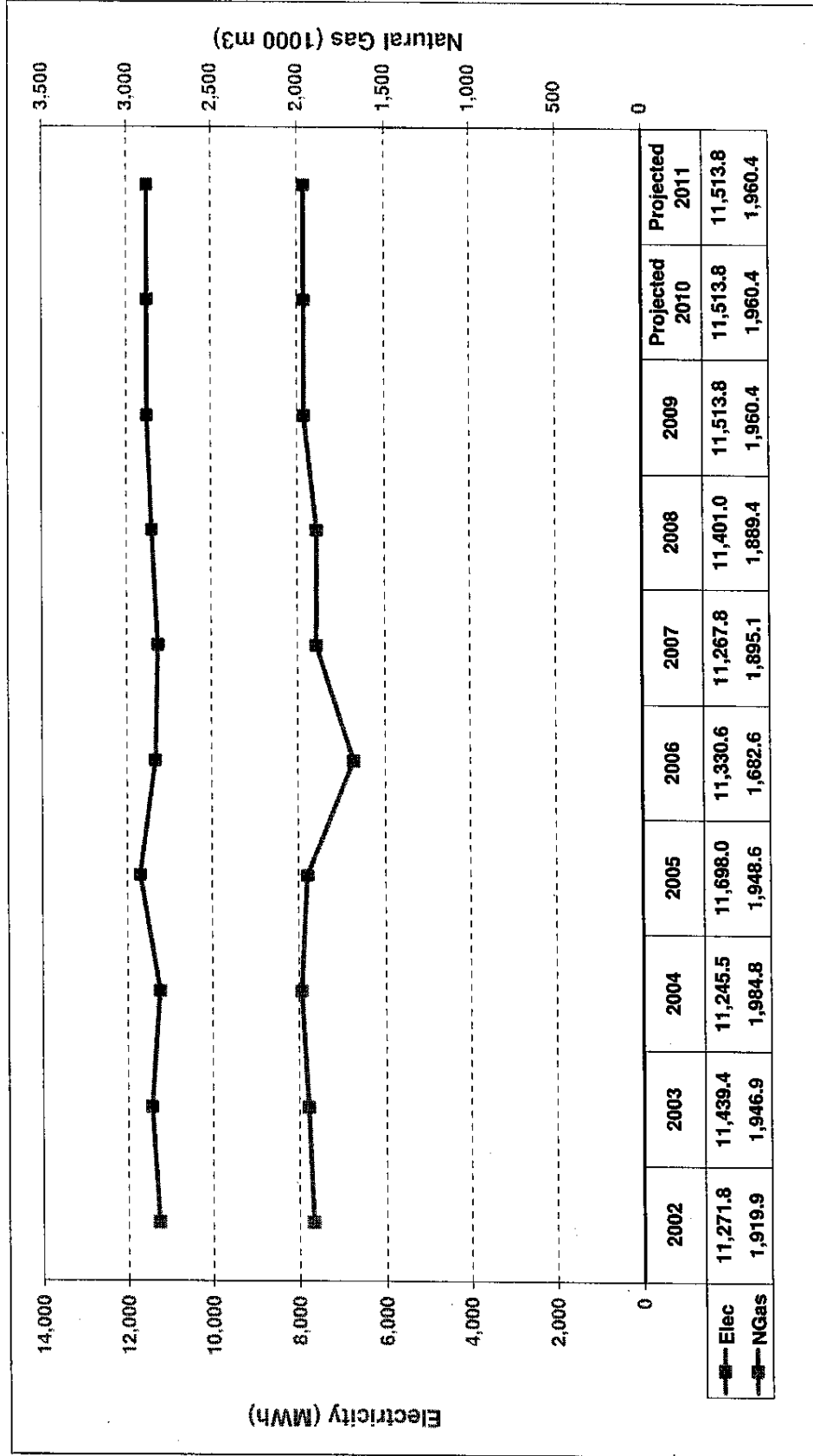
Year/Qtr	Electricity kWh	Natural Gas m ³	Heating Oil Litre	Gasoline Litre	Diesel Oil Litre	Propane Litre	Water m ³	Total ekWh	CO2 Tonnes
2009 ACTUAL CONSUMPTION									
1st QTR	2,995,815	949,912	7,050	10,139	7,067	2,288	99,888	13,085,706	2,705
2nd QTR	2,460,940	300,272	3,572	19,519	20,987	9,247	29,558	6,086,881	1,325
3rd QTR	2,453,926	84,637	0	18,716	14,970	19,890	113,089	3,819,344	861
4th QTR	2,691,825	448,163	3,342	16,523	23,698	4,310	49,214	7,807,849	1,677
Total	10,602,506	1,782,984	13,964	64,897	66,722	35,735	291,749	30,799,779	6,568
CO2	2,587	3,578	42	174	187	84	0	6,652	6,652
2008 ACTUAL CONSUMPTION									
1st QTR	2,951,716	828,885	8,347	9,520	10,091	3,988	22,482	11,843,191	2,472
2nd QTR	2,418,474	332,357	4,724	15,450	12,017	6,618	161,265	6,233,518	1,362
3rd QTR	2,403,990	75,386	675	19,234	9,959	18,470	-1,726	3,621,543	863
4th QTR	2,744,766	474,213	3,231	19,170	25,125	4,375	132,281	8,170,219	1,763
Total	10,518,946	1,710,841	16,977	63,374	57,192	33,450	314,302	29,868,471	6,460
CO2	2,567	3,434	51	170	160	79	0	6,460	6,460
2007 ACTUAL CONSUMPTION									
1st QTR	3,033,588	876,700	10,271	16,686	7,987	0	78,340	12,456,519	2,597
2nd QTR	2,505,555	315,499	5,185	17,072	12,091	8,334	87,995	6,180,506	1,359
3rd QTR	2,371,085	90,412	0	18,873	9,981	17,636	198,583	3,727,264	880
4th QTR	2,522,950	489,123	1,558	21,530	16,783	2,773	40,599	8,005,810	1,713
Total	10,433,178	1,771,733	17,014	74,161	46,842	28,743	405,517	30,370,100	6,550
CO2	2,546	3,556	51	199	131	68	0	6,550	6,550

NOTE: Energy data has not been normalized to billing period nor weather conditions. Water is not included in total energy and CO2.

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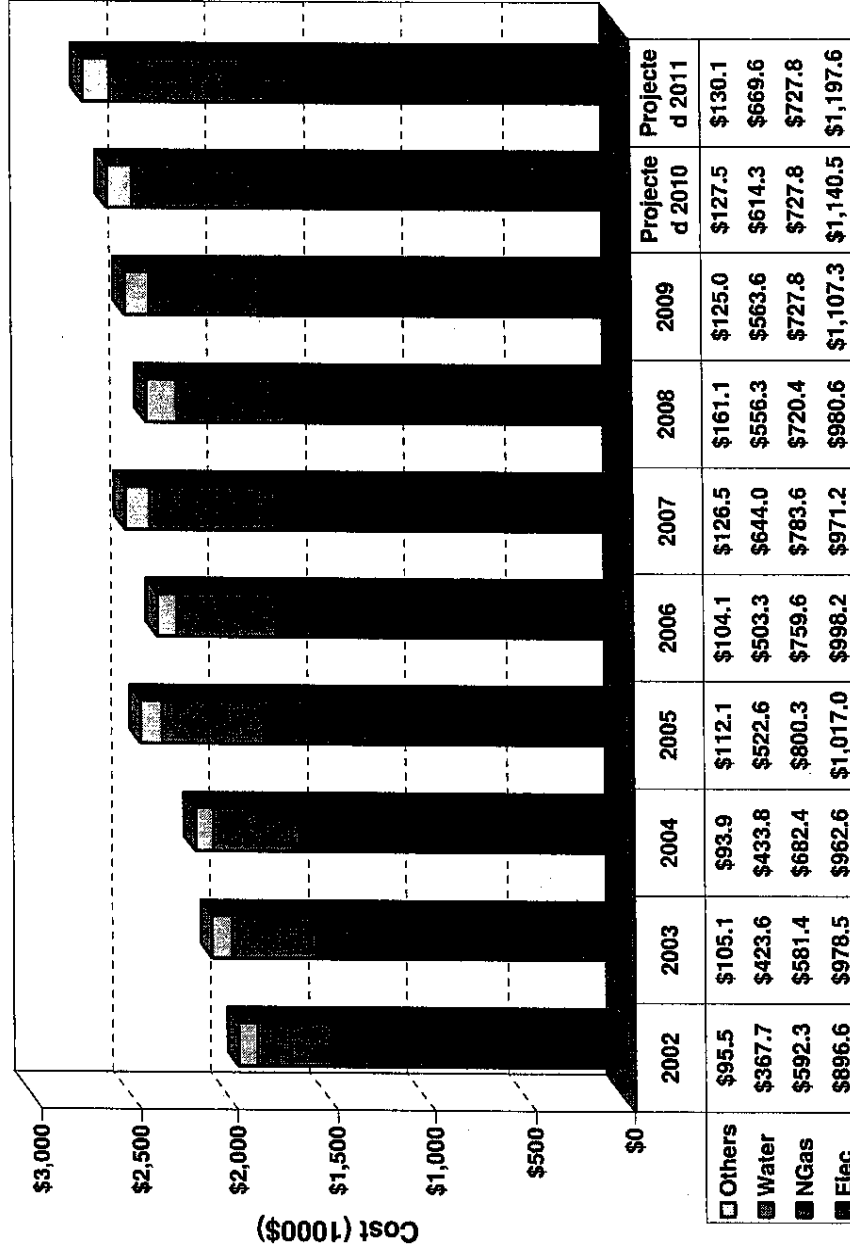
Energy Consumption Trend



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Energy Cost Trend



II. FACILITY ENERGY & COST vs ADJUSTED BASELINE

Liquid Fuel

Master Utility Meters

Submeters - Restaurant Operations

Submeters - Zoo Facilities

CITY OF TORONTO
TORONTO ZOO

LIQUID FUEL

2009 Actual Energy CONSUMPTION vs Adjusted Baseline

(Listed alphabetically by Facility ID)

FACILITIES		HEATING FUEL (1000L)			GASOLINE (1000L)			DIESEL (1000L)			PROPANE (1000L)		
ID and Name / Location		Adj.Base 2008	Actual 2009	Percent Change	Adj.Base 2008	Actual 2009	Percent Change	Adj.Base 2008	Actual 2009	Percent Change	Adj.Base 2008	Actual 2009	Percent Change
CB Calf Barn													
FRB Ferret Barn													
GHS Gate House													
VH Valley Halla		17.8	14.0	-21.7%		64.9	-34.5%		87.0	-23.3%		35.7	-2.9%
TZVF Vehicle Fleet													
Total		17.8	14.0	-21.7%	99.1	64.9	-34.5%	87.0	66.7	-23.3%	36.8	35.7	-2.9%

2009 Actual Energy COST vs Adjusted Baseline

FACILITIES		HEATING FUEL (1000\$)			GASOLINE (1000\$)			DIESEL (1000\$)			PROPANE (1000\$)		
ID and Name / Location		Adj.Base 2008	Actual 2009	Percent Change	Adj.Base 2008	Actual 2009	Percent Change	Adj.Base 2008	Actual 2009	Percent Change	Adj.Base 2008	Actual 2009	Percent Change
CB Calf Barn													
FRB Ferret Barn													
GHS Gate House													
VH Valley Halla		\$13.0	\$9.9	-24.1%	\$85.8	\$51.1	-40.5%	\$67.6	\$49.5	-26.8%	\$16.0	\$14.6	-8.9%
TZVF Vehicle Fleet													
Total		\$13.0	\$9.9	-24.1%	\$85.8	\$51.1	-40.5%	\$67.6	\$49.5	-26.8%	\$16.0	\$14.6	-8.9%

NOTE: 1) refer to summary page for detail notes.

2) Heating oil usage and costs for Valley Halla includes Calf Barn, Ferret Barn & Gate House.

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TORONTO ZOO

MASTER UTILITY METERS

2009 Actual Energy CONSUMPTION vs Adjusted Baseline

(Listed alphabetically by Facility ID)

FACILITIES ID and Name / Location	ELECTRICITY (MWh)			NATURAL GAS (1000m³)			WATER (1000m³)			TOTAL (eMWh, excl. Water)		
	Adj.Base 2008	Actual 2009	Percent Change	Adj.Base 2008	Actual 2009	Percent Change	Adj.Base 2008	Actual 2009	Percent Change	Adj.Base 2008	Actual 2009	Percent Change
DRG Domain Ride & Garage												
FB Finch Barn	0.4	0.6	41.7%							0.4	0.6	41.7%
FRB Ferret Barn	55.3	59.3	7.1%							55.3	59.3	7.1%
GHS Gate House	2.7	13.5	397.4%							2.7	13.5	397.4%
MB Main Barn	117.6	128.2	9.1%							117.6	128.2	9.1%
ZMM Zoo Main Meter	11,105.6	11,228.1	1.1%	1,936.3	1,960.4	1.2%	326.0	298.0	-8.6%	31,130.1	31,502.4	1.2%
VH Valley Halla	84.0	84.1	0.1%							84.0	84.1	0.1%
Total	11,365.6	11,513.8	1.3%	1,936.3	1,960.4	1.2%	326.0	298.0	-8.6%	31,390.2	31,788.1	1.3%

2009 Actual Energy COST vs Adjusted Baseline

FACILITIES ID and Name / Location	ELECTRICITY (1000\$)			NATURAL GAS (1000\$)			WATER (1000\$)			TOTAL (1000\$)		
	Adj.Base 2008	Actual 2009	Percent Change	Adj.Base 2008	Actual 2009	Percent Change	Adj.Base 2008	Actual 2009	Percent Change	Adj.Base 2008	Actual 2009	Percent Change
DRG Domain Ride & Garage												
FB Finch Barn	\$0.5	\$0.5	12.9%							\$0.5	\$0.5	12.9%
FRB Ferret Barn	\$6.7	\$7.1	5.9%							\$6.7	\$7.1	5.9%
GHS Gate House	\$0.7	\$1.9	186.8%							\$0.7	\$1.9	186.8%
MB Main Barn	\$12.8	\$14.3	12.0%							\$12.8	\$14.3	12.0%
ZMM Zoo Main Meter	\$1,061.5	\$1,074.1	1.2%	\$720.5	\$727.8	1.0%	\$616.7	\$563.6	-8.6%	\$2,398.8	\$2,365.5	-1.4%
VH Valley Halla	\$9.4	\$9.4	0.1%							\$9.4	\$9.4	0.1%
Total	\$1,091.5	\$1,107.3	1.4%	\$720.5	\$727.8	1.0%	\$616.7	\$563.6	-8.6%	\$2,428.8	\$2,398.7	-1.2%

NOTE: refer to summary page for detail notes.

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CITY OF TORONTO
TORONTO ZOO

SUBMETERS - RESTAURANT OPERATIONS
2009 Actual Energy CONSUMPTION vs Adjusted Baseline
(Listed alphabetically by Facility ID)

FACILITIES ID and Name / Location	ELECTRICITY (MWh)			NATURAL GAS (1000m³)			WATER (1000m³)			TOTAL (eMWh, excl. Water)		
	Adj.Base 2008	Actual 2009	Percent Change	Adj.Base 2008	Actual 2009	Percent Change	Adj.Base 2008	Actual 2009	Percent Change	Adj.Base 2008	Actual 2009	Percent Change
AR Africa Restaurant	440.9	488.8	10.9%	96.9	105.3	8.7%	4.9	3.9	-21.6%	1,443.2	1,578.1	9.3%
BVT Beaver Tails				0.9	1.1	34.7%				8.8	11.8	34.7%
NAR North America Rest.	253.9	262.8	3.5%	51.5	46.4	-9.9%	1.5	2.4	58.9%	786.4	742.7	-5.6%
SAFL Safari Lodge	147.6	137.8	-6.7%	26.4	19.8	-24.8%				420.1	342.7	-18.4%
TWSB Twiga	22.1	21.9	-0.7%	4.4	4.8	9.4%	0.0		-100.0%	67.1	71.2	6.1%
Total		911.3			177.5			6.3			2,746.5	
Total (excl. utility added after 2008)	864.5	911.3	5.4%	180.0	177.5	-1.4%	6.5	6.3	-2.6%	2,725.6	2,746.5	0.8%

2009 Actual Energy COST vs Adjusted Baseline

FACILITIES ID and Name / Location	ELECTRICITY (1000\$)			NATURAL GAS (1000\$)			WATER (1000\$)			TOTAL (1000\$)		
	Adj.Base 2008	Actual 2009	Percent Change	Adj.Base 2008	Actual 2009	Percent Change	Adj.Base 2008	Actual 2009	Percent Change	Adj.Base 2008	Actual 2009	Percent Change
AR Africa Restaurant	\$43.4	\$47.1	8.6%	\$36.0	\$38.9	8.0%	\$9.3	\$7.3	-21.6%	\$88.7	\$93.3	5.2%
BVT Beaver Tails				\$0.3	\$0.4	34.4%				\$0.3	\$0.4	34.4%
NAR North America Rest.	\$24.5	\$25.6	4.5%	\$19.1	\$16.9	-11.3%	\$2.9	\$4.6	59.0%	\$46.5	\$47.2	1.4%
SAFL Safari Lodge	\$14.2	\$13.6	-3.9%	\$9.9	\$7.1	-28.0%				\$24.1	\$20.7	-13.8%
TWSB Twiga	\$2.2	\$2.2	-3.0%	\$1.6	\$1.8	10.3%	\$0.0		-100.0%	\$3.9	\$3.9	2.5%
Total		\$88.5			\$65.2			\$11.9			\$165.6	
Total (excl. utility added after 2008)	\$84.3	\$88.5	5.0%	\$66.9	\$65.2	-2.7%	\$12.2	\$11.9	-2.5%	\$163.4	\$165.6	1.3%

NOTE: refer to summary page for detail notes.

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CITY OF TORONTO
TORONTO ZOO

SUBMETERS - ZOO FACILITIES
2009 Actual Energy CONSUMPTION vs Adjusted Baseline
(Listed alphabetically by Facility ID)

FACILITIES	ELECTRICITY (MWh)			NATURAL GAS (1000m³)			WATER (1000m³)			TOTAL (eMWh, excl. Water)		
ID and Name / Location	Adj. Base 2008	Actual 2009	Percent Change	Adj. Base 2008	Actual 2009	Percent Change	Adj. Base 2008	Actual 2009	Percent Change	Adj. Base 2008	Actual 2009	Percent Change
AFP African Pavilion	1,508.4	1,512.0	0.2%	534.8	485.6	-9.2%	41.2	28.6	-30.7%	7,039.4	6,533.9	-7.2%
AFR Rhino / Mixed Hoofstock	86.9	96.3	10.8%	90.8	114.1	25.6%	0.4	0.3	-12.1%	1,026.2	1,275.8	24.3%
AMP Americas Pavilion	518.5	463.8	-10.6%	157.9	177.6	12.4%	11.3	25.0	121.4%	2,151.7	2,300.0	6.9%
APN Australasian Pav. Noc.				22.8	9.2	-59.5%				236.2	95.5	-59.5%
AUP Australasian Pavilion							7.7	4.0	-47.8%			
BBH Baboon House	57.1	59.3	3.9%	15.5	7.5	-51.4%	0.4	0.3	-28.9%	216.9	137.1	-36.8%
CHH Cheetah House	1.3	2.1	66.3%	10.0	9.5	-4.9%	0.2	0.3	27.2%	104.4	100.2	-4.0%
CLYNX Caracal Lynx				3.1	3.1	-1.4%				32.5	32.0	-0.5
EH Elephants House				18.9	12.4	-34.4%	17.3	17.6	2.0%	195.2	127.9	-34.4%
FAMC Family Centre				4.9	4.7	-2.2%				50.2	49.1	-1.1
GGG Greenhouse Gift Shop				20.3	16.4	-18.9%				209.6	169.9	-18.9%
GH Giraffe House				10.3	12.7	22.4%				107.0	130.9	22.4%
GHG Gorilla Holding												
GKB Groundskeeping Bldg				10.1	10.1	0.0%	0.8	1.1	45.4%	104.4	104.4	0.0%
HPH Hippo House				70.1	68.5	-2.3%				725.0	708.1	-17.0
IMP Indo-Malayan Pavilion	809.9	799.3	-1.3%	284.1	265.9	-6.4%	14.7	12.8	-12.8%	3,747.7	3,548.9	-198.8
IRB Indian Rhino Building				30.1	20.0	-33.7%				311.3	206.4	-104.8
LH Lion House	19.6	18.0	-8.0%	10.1	13.4	33.5%	3.7		-100.0%	123.7	156.9	33.2
LHH Lion House (Hyena)				4.8	4.2	-12.7%				49.9	43.6	-6.4
MHS Mixed Hoofstock	267.1	238.2	-10.8%	28.8	25.9	-9.9%	2.9	2.2	-23.6%	564.8	506.5	-58.3
MT Mayan Temple				17.9	16.8	-6.0%	25.2	27.8	10.3%	185.3	174.1	-11.2
MW Malayan Wood												
NSB North Services Bldg	2,840.1	2,668.0	-6.1%	451.5	429.7	-4.8%	8.7	9.1	4.8%	7,509.6	7,111.5	-398.1
OAB Old Admin. Bldg	179.0	183.0	2.2%							179.0	183.0	4.0
OH Orangutan Holding												
PBH Polar Bear Holding				143.3	143.3		1.2	1.2		1,481.9	1,481.9	
SPLASH Splash Island				6.4	5.5	-14.2%	16.9	14.1	-16.8%	65.7	56.4	-9.3
ZSB Zoological Society Bldg	313.9	279.3	-11.0%	5.3	5.5	4.2%	1.8	1.6	-9.9%	368.6	336.2	-32.3
Total		6,319.3			1,861.5			146.0			25,570.3	
Total (excl. utility added after 2008)	6,601.8	6,319.3	-4.3%	1,951.8	1,861.5	-4.6%	154.3	146.0	-5.4%	26,786.2	25,570.3	-1,215.9
												-4.5%

NOTE: refer to summary page for detail notes.

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CITY OF TORONTO
TORONTO ZOO

SUBMETERS - ZOO FACILITIES
2009 Actual Energy COST vs Adjusted Baseline

(Listed alphabetically by Facility ID)

FACILITIES	ELECTRICITY (1000\$)			NATURAL GAS (1000\$)			WATER (1000\$)			TOTAL (1000\$)		
ID and Name / Location	Adj.Base 2008	Actual 2009	Percent Change	Adj.Base 2008	Actual 2009	Percent Change	Adj.Base 2008	Actual 2009	Percent Change	Adj.Base 2008	Actual 2009	Percent Change
AFP African Pavilion	\$145.2	\$145.4	0.2%	\$199.8	\$180.7	-9.5%	\$78.0	\$54.1	-30.7%	\$422.9	\$380.2	-10.1%
AFR Rhino / Mixed Hoofstock	\$8.3	\$9.2	11.3%	\$33.6	\$42.8	27.5%	\$0.7	\$0.6	-12.1%	\$42.6	\$52.7	23.7%
AMP Americas Pavilion	\$49.4	\$44.4	-10.1%	\$58.8	\$65.9	12.0%	\$21.4	\$47.3	121.4%	\$129.7	\$157.6	21.6%
APN Australasian Pav. Noc.				\$8.3	\$3.6	-57.2%				\$8.3	\$3.6	-57.2%
AUP Australasian Pavilion							\$14.5	\$7.6	-47.7%	\$14.5	\$7.6	-47.7%
BBH Baboon House	\$5.5	\$5.7	3.6%	\$5.8	\$2.8	-51.9%	\$0.8	\$0.5	-28.7%	\$12.0	\$9.0	-25.2%
CHH Cheetah House	\$0.13	\$0.22	67.7%	\$3.7	\$3.5	-4.4%	\$0.4	\$0.5	28.6%	\$4.3	\$4.3	0.0%
CLYNX Caracal Lynx				\$1.2	\$1.2	-1.2%				\$1.2	\$1.2	0.0%
EH Elephants House				\$7.1	\$4.7	-34.3%	\$32.6	\$33.3	2.0%	\$39.8	\$38.0	-4.5%
FAMC Family Centre				\$1.8	\$1.8	-2.3%				\$1.8	\$1.8	0.0%
GGG Greenhouse Gift Shop				\$7.6	\$6.2	-17.9%				\$7.6	\$6.2	-17.9%
GH Giraffe House				\$3.8	\$4.7	23.5%				\$3.8	\$4.7	23.5%
GHG Gorilla Holding				\$3.7	\$3.8	0.3%	\$1.4	\$2.1	45.1%	\$5.2	\$5.9	12.8%
GKB Groundskeeping Bldg				\$26.2	\$25.1	-4.2%				\$26.2	\$25.1	-4.2%
HPH Hippo House				\$105.2	\$98.5	-6.4%	\$27.8	\$24.2	-12.8%	\$209.9	\$199.7	-4.9%
IMP Indo-Malayan Pavilion	\$76.9	\$77.0	0.1%	\$11.4	\$7.4	-35.0%				\$11.4	\$7.4	-35.0%
IRB Indian Rhino Building				\$3.7	\$4.9	33.6%	\$6.4		-100.0%	\$12.0	\$6.6	-44.7%
LH Lion House	\$1.8	\$1.7	-8.5%	\$1.8	\$1.6	-11.0%				\$1.8	\$1.6	-11.0%
LHH Lion House (Hyena)				\$10.7	\$9.5	-11.4%	\$5.5	\$4.2	-23.6%	\$41.9	\$36.5	-13.0%
MHS Mixed Hoofstock	\$25.7	\$22.8	-11.3%	\$6.7	\$6.2	-6.5%	\$47.7	\$52.6	10.2%	\$54.4	\$58.8	8.2%
MT Mayan Temple												
MW Malayan Wood				\$167.9	\$160.0	-4.7%	\$16.4	\$17.2	4.8%	\$456.2	\$433.2	-5.0%
NSB North Services Bldg	\$271.8	\$256.0	-5.8%							\$17.0	\$17.4	2.2%
OAB Old Admin. Bldg	\$17.0	\$17.4	2.2%									
OH Orangutan Holding				\$48.3	\$48.3	0.0%	\$2.2	\$2.2		\$50.5	\$50.5	0.0%
PBH Polar Bear Holding				\$2.4	\$2.0	-14.6%	\$32.0	\$26.6	-16.8%	\$34.4	\$28.7	-16.6%
SPLASH Splash Island				\$2.0	\$2.0	4.4%	\$3.4	\$3.1	-9.9%	\$35.4	\$31.9	-10.0%
ZSB Zoological Society Bldg	\$30.0	\$26.8	-10.9%									
Total		\$606.7			\$687.3			\$276.1			\$1,570.2	
Total (excl. utility added after 2008)	\$631.8	\$606.7	-4.0%	\$721.7	\$687.3	-4.8%	\$291.3	\$276.1	-5.2%	\$1,644.8	\$1,570.2	-4.5%

NOTE: refer to summary page for detail notes.

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III. DETAIL BUILDING ENERGY

Main Meters Energy Consumption & Cost Avoidance

Main Meters Energy Cost Bar Chart

Main Meters Energy Consumption Bar Charts

CITY OF TORONTO
TORONTO ZOO

ZOO MAIN METER
2009 Energy Consumption & Cost AVOIDANCE

Month	Adj. Base 2008	Actual 2009	Energy Change	Adj. Base 2008	Actual 2009	Energy Change	Adj. Base 2008	Actual 2009	Energy Change	TOTAL (eMWh)
Jan	1,057.6	1,103.1	45.5	403.7	393.0	-10.7	8.9	35.4	26.5	5,232.7
Feb	1,003.3	1,030.0	26.7	399.0	366.7	-32.3	6.1	29.0	22.9	5,129.7
Mar	1,053.7	1,043.2	-10.5	233.7	244.6	10.9	34.3	36.0	1.7	3,470.7
Apr	916.5	940.1	23.6	170.7	169.3	-1.4	0.0	0.0	0.0	2,681.3
May	870.4	888.2	17.8	108.8	102.1	-6.7	31.1	31.0	-0.1	1,995.6
Jun	891.9	883.3	-8.6	58.5	77.6	19.1	0.9	0.5	-0.4	1,497.1
Jul	924.8	919.7	-5.1	26.0	34.2	8.3	72.3	67.5	-4.8	1,193.3
Aug	927.5	961.5	34.0	25.4	28.4	3.0	0.0	0.0	0.0	1,190.2
Sep	823.3	858.6	35.2	41.3	45.9	4.7	52.1	49.0	-3.2	1,250.2
Oct	926.0	895.9	-30.1	118.4	119.7	1.3	32.6	25.7	-6.8	2,150.7
Nov	909.5	906.9	-2.6	139.4	139.5	0.1	87.6	24.0	-63.6	2,350.9
Dec	1,061.1	1,083.3	22.2	211.4	239.5	28.0	0.0	0.0	0.0	3,247.7
Total	11,365.6	11,513.8	148.2	1,936.3	1,960.4	24.2	326.0	298.0	-27.9	31,390.2
			1.3%			1.2%			-8.6%	(excluding water)
Total	\$1,091.5	\$1,107.3	\$15.8	\$720.5	\$727.8	\$7.2	\$616.7	\$563.6	-\$53.1	\$2,428.8
(1000\$)			1.4%			1.0%			-8.6%	(including water)
										\$2,398.7
										-1.2%

NOTE: 1) Adj. Base - The 2008 energy consumption and cost are adjusted to the 2009 billing periods, weather conditions and energy costs.

2) Actual - The current year (2009) actual energy consumption and cost.

3) Energy Change = Actual - Adjusted. Positive value is an increase in energy use and is shown in red text.

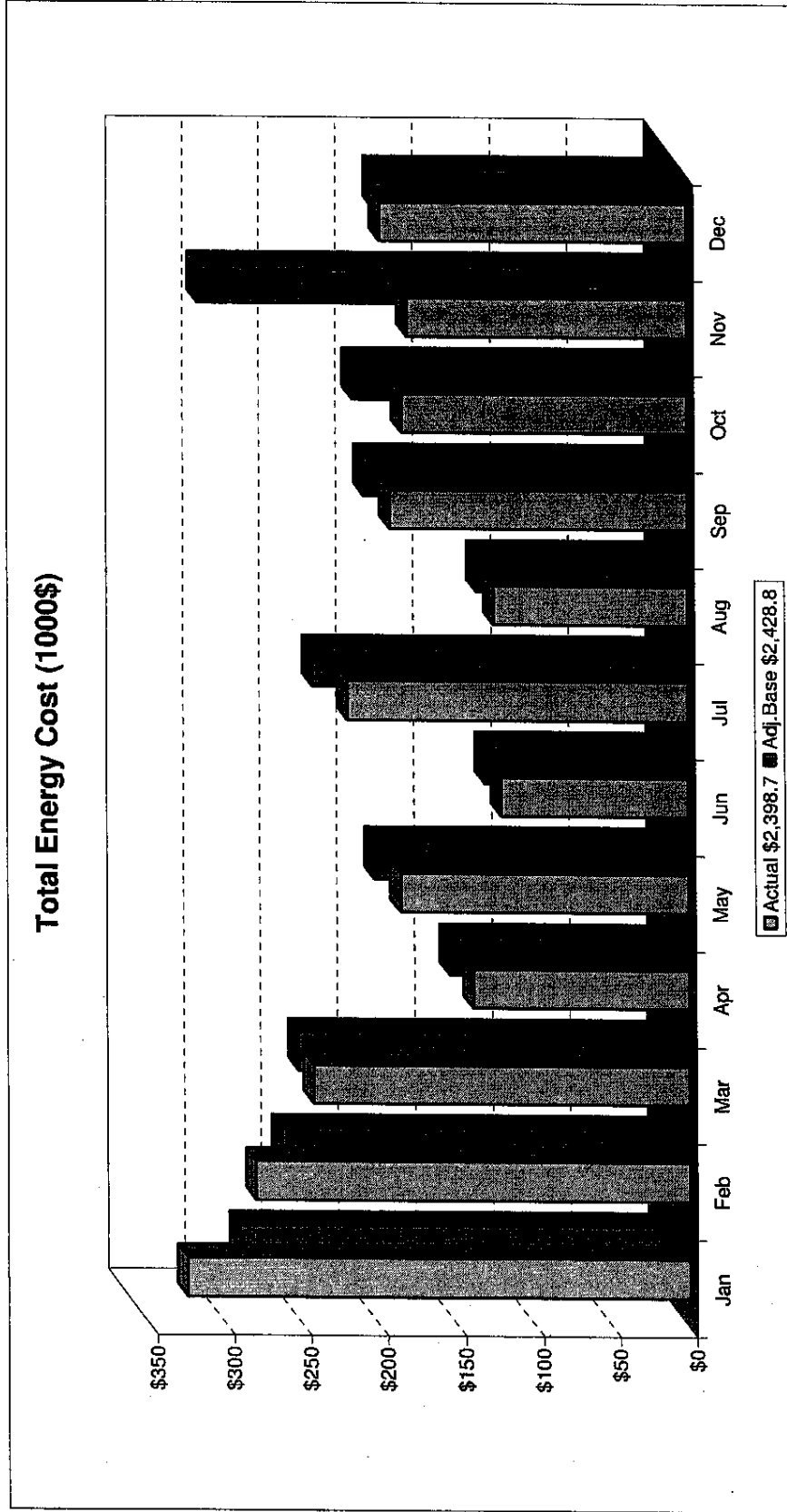
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Energy Increase: 398.0 eMWh, Cost Reduction: \$30,070

CITY OF TORONTO
TORONTO ZOO

ZOO MAIN METER

2009 Actual Energy COST vs Adjusted Baseline



NOTE: 1) Adj. Base - The 2008 energy consumption and cost are adjusted to the 2009 billing periods, weather conditions and energy costs.

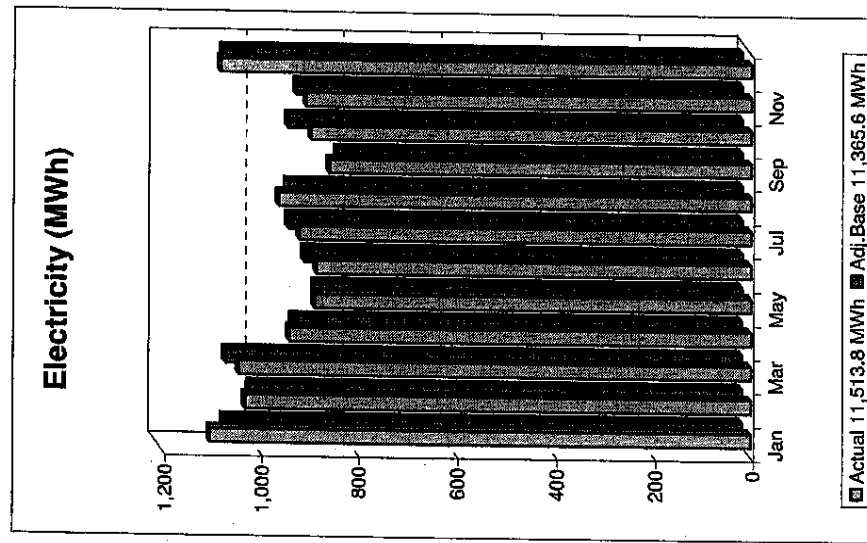
2) Actual - The current year (2009) actual energy consumption and cost.

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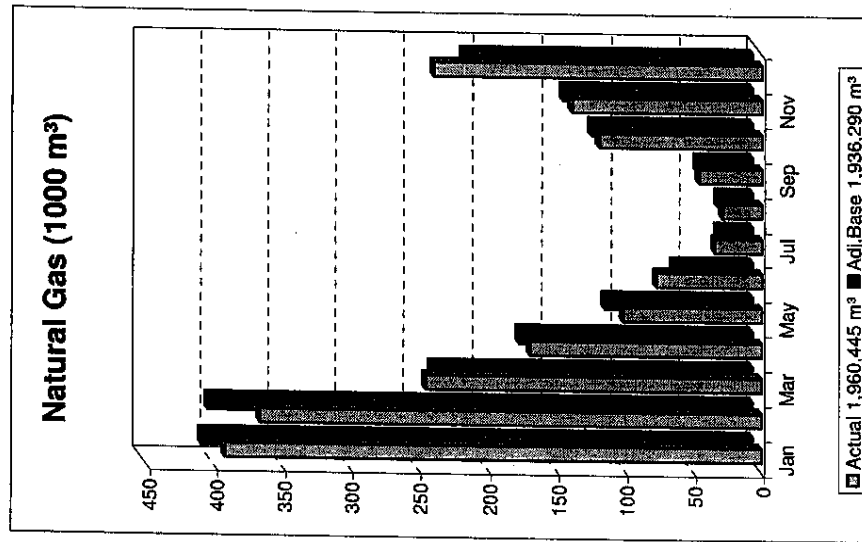
CITY OF TORONTO
TORONTO ZOO

ZOO MAIN METER

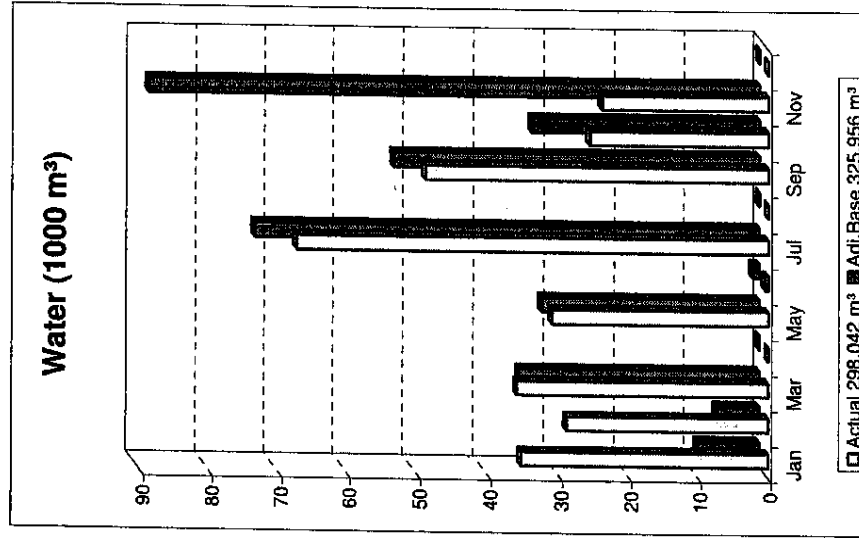
2009 Actual Energy CONSUMPTION vs Adjusted Baseline



Elec. Increase: 148.2 MWh, \$15,798



Nat. Gas Increase: 24,155.0 m³, \$7,207



Water Avoidance: 27,914.2 m³, \$53,076

NOTE: 1) Adj. Base - The 2008 energy consumption and cost are adjusted to the 2009 billing periods, weather conditions and energy costs.
2) Actual - The current year (2009) actual energy consumption and cost.

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