

**Texas Department of Criminal Justice**  
**Quarterly Report – October 2016**

# **State Agency**

# **Energy Savings Program**

**Electricity**

**Natural Gas**

**Gasoline**

**Water**

**Energy and Water Management Plan**

**&**

**Executive Order RP-49**

**October 2016**

## TABLE OF CONTENTS

<i>SECTION</i>	<i>TITLE</i>	<i>PAGE No.</i>
I.	Goals	3
II.	Consumption Update	4-8
III.	New Ideas	9
IV.	Plan Implementation Responsibility	10

## I. Goals

### **Electricity, Natural Gas and Water:**

The TDCJ has continued with implementation of Executive Order RP-49. Utility and energy consumption reduction remains a high priority of the agency and the TDCJ is committed to the goal of a 2.5% reduction for electricity, natural gas and water. All the TDCJ regions and individual units have been provided quarterly information to track their electricity, natural gas and water consumption, compared to their individual targets, and the relationship to the overall agency goal shown on page 4. The current agency consumption updates are provided on pages 5, 6 and 7.

Additionally, an employee awareness pamphlet has been developed to create a positive mindset for all agency employees regarding the importance of energy consumption reduction awareness and how everyone's actions can make a difference. To further emphasize utility and energy reduction awareness, an Energy Management Utility Consumption Reduction Awareness Presentation is given regularly to supervisory staff. Regional Directors receive monthly consumption and cost reports for each unit within their region.

The TDCJ performed Preliminary Energy Audits (PEA's) for all of its facilities. The TDCJ engineering staff continues to closely scrutinize all facility repair and renovation projects to ensure they meet mandated energy design certification requirements. The most energy efficient products are incorporated into each design.

### **Gasoline:**

The TDCJ is committed to achieving the target goal established by the Executive Order RP-49 of an annual 2.5% decrease in gasoline consumption. The TDCJ has compiled a consumption comparison report using the data collected in the TDCJ Fleet Management System (VEH). The information is presented in two formats, by division and by type of vehicle. This comparison report is then forwarded to the TDCJ's executive staff to be used as a monitoring tool.

All the TDCJ divisions and employees should adhere to the TDCJ Administrative Directive 02.50 Vehicle Policy. Strict enforcement of the proper uses of state vehicles, bulk fueling stations, and car-pooling could result in additional savings.

The TDCJ will continue to review current policies and procedures on vehicle usage for perimeter patrol, offender transport, escape recovery, and emergency evacuation for potential energy conservation. Any additional areas identified as a potential energy savings will be included in future quarterly reports.

# Texas Department of Criminal Justice

## Agency Consumption Targets

### Electricity, Natural Gas and Water

	Metered kWh	Metered MCF	Total Water K Gallons	EL \$/kWh	NG \$/MCF	Water \$/K Gal
FY15	698,077,132	3,647,732	10,882,511	\$0.070	\$4.272	\$2.633
FY14	694,644,636	3,794,268	10,623,095	\$0.068	\$5.320	\$2.509
FY13	696,928,559	3,466,437	10,218,547	\$0.063	\$4.657	\$2.386
	696,550,109	3,636,146	10,574,717	3-Year Averages		
	17,413,753	90,904	264,368	2.5% of Averages		
	680,663,379	3,556,828	10,618,143	Target Consumption		

*Targets = FY15 Totals less 2.5% of averages*

### Gasoline

	Gallons	Average \$/Gallon
FY15	2,208,503	\$2.190
FY14	2,191,737	\$3.002
FY13	2,111,416	\$3.122
	2,170,552	3-Year Average
	55,213	2.5% of FY15
	2,153,290	Target Consumption

*The above price per gallon does not include Federal Tax, but it does include State Tax of \$0.20 per gallon*

# Texas Department of Criminal Justice

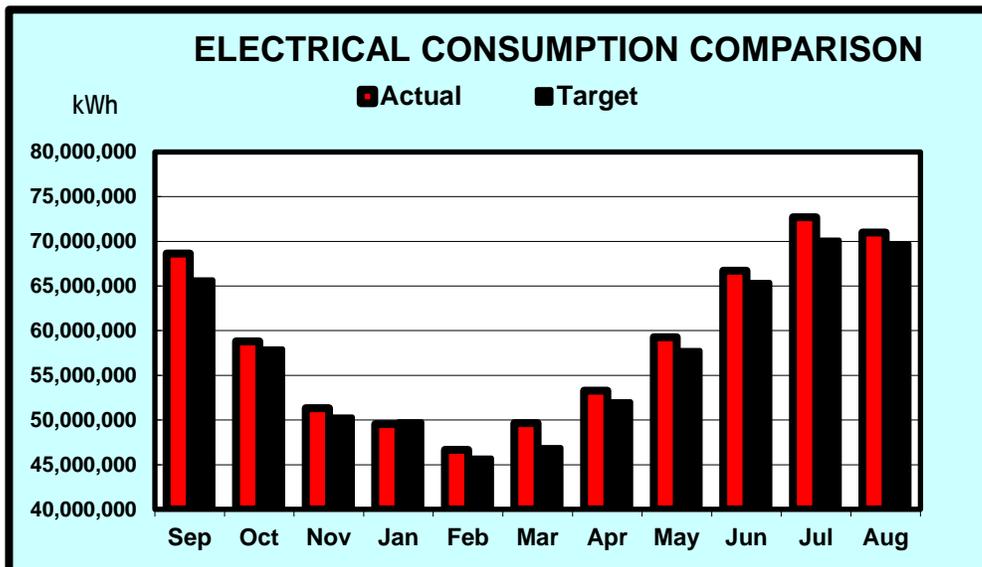
## Electricity Consumption Update

Reporting Period: **September 1, 2015 to August 31, 2016**

ELECTRICITY			
	EL kWh	Targets kWh	Over (Under) Target
Sep	68,637,303	65,681,298	2,956,005
Oct	58,797,492	57,937,632	859,860
Nov	51,310,280	50,311,792	998,488
<b>1st Qtr</b>	<b>178,745,075</b>	<b>173,930,722</b>	<b>4,814,353</b>
Dec	50,477,551	49,277,151	1,200,400
Jan	49,529,403	49,784,168	(254,765)
Feb	46,664,534	45,744,790	919,744
<b>2nd Qtr</b>	<b>146,671,488</b>	<b>144,806,109</b>	<b>1,865,379</b>
Mar	49,646,981	46,897,975	2,749,006
Apr	53,276,388	52,018,639	1,257,749
May	59,256,633	57,766,030	1,490,603
<b>3rd Qtr</b>	<b>162,180,002</b>	<b>156,682,644</b>	<b>5,497,358</b>
Jun	66,699,122	65,402,113	1,297,009
Jul	72,678,587	70,115,246	2,563,341
Aug	70,993,616	69,726,545	1,267,072
<b>4th Qtr</b>	<b>210,371,325</b>	<b>205,243,903</b>	<b>5,127,422</b>
<b>Totals</b>	<b>697,967,890</b>	<b>680,663,379</b>	<b>17,304,512</b>

*1<sup>st</sup> Qtr = 2.77% Above Target, 2<sup>nd</sup> Qtr = 1.29% Above Target, 3<sup>rd</sup> Qtr = 3.51% Above Target, 4<sup>th</sup> Qtr = 2.50% Above Target*

*FY 16 = 2.54% Above Target*



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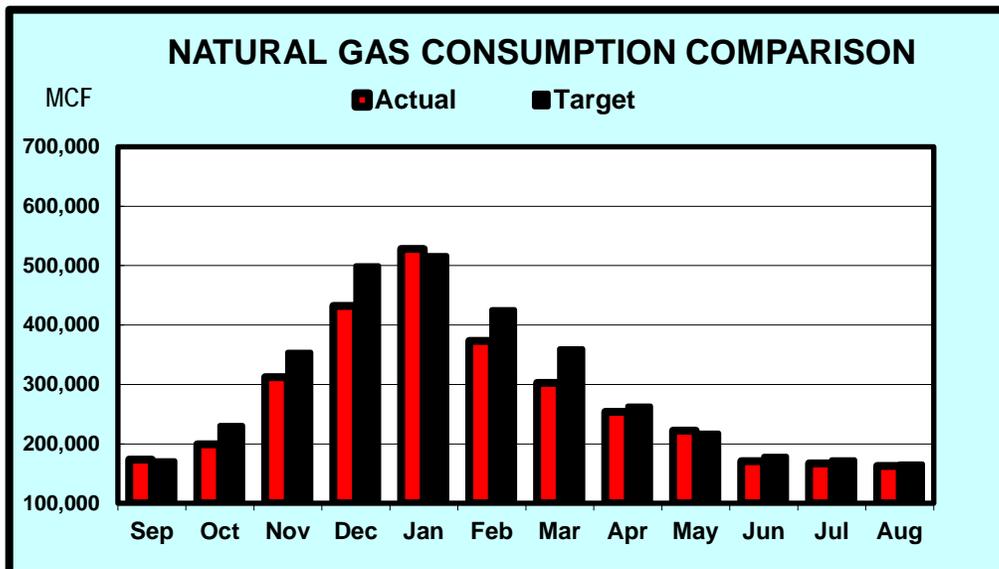
## Natural Gas Consumption Update

Reporting Period: **September 1, 2015 to August 31, 2016**

<b>NATURAL GAS</b>			
	<b>NG MCF</b>	<b>Targets MCF</b>	<b>Over (Under) Target</b>
<b>Sep</b>	173,532	171,241	2,291
<b>Oct</b>	199,423	230,735	(31,312)
<b>Nov</b>	312,033	353,955	(41,922)
<b>1st Qtr</b>	<b>684,988</b>	<b>755,931</b>	<b>(70,943)</b>
<b>Dec</b>	431,987	499,491	(67,504)
<b>Jan</b>	528,061	516,997	11,064
<b>Feb</b>	373,197	425,587	(52,390)
<b>2nd Qtr</b>	<b>1,333,245</b>	<b>1,442,075</b>	<b>(108,830)</b>
<b>Mar</b>	302,370	359,904	(57,534)
<b>Apr</b>	253,805	263,508	(9,703)
<b>May</b>	222,216	218,014	4,202
<b>3rd Qtr</b>	<b>778,391</b>	<b>841,426</b>	<b>(63,035)</b>
<b>Jun</b>	171,059	178,645	(7,586)
<b>Jul</b>	166,825	172,950	(6,125)
<b>Aug</b>	162,907	165,801	(2,894)
<b>4th Qtr</b>	<b>500,790</b>	<b>517,396</b>	<b>(16,605)</b>
<b>Totals</b>	<b>3,297,414</b>	<b>3,556,828</b>	<b>(259,414)</b>

*1<sup>st</sup> Qtr = 9.39% Below Target, 2<sup>nd</sup> Qtr = 7.55% Below Target, 3<sup>rd</sup> Qtr = 7.49% Below Target, 4<sup>th</sup> Qtr = 3.21% Below Target*

*FY 16 = 7.29% Below Target*



# Texas Department of Criminal Justice

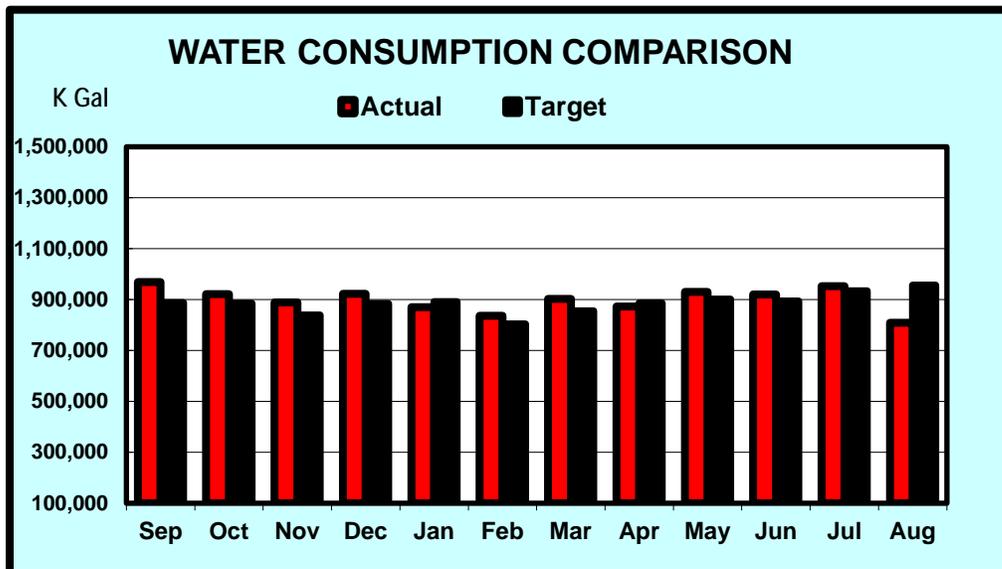
## Water Consumption Update

Reporting Period: **September 1, 2015 to August 31, 2016**

<b>WATER</b>			
	<b>WATER K Gallons</b>	<b>Targets K Gallons</b>	<b>Over (Under) Target</b>
<b>Sep</b>	968,324	888,130	80,194
<b>Oct</b>	920,921	884,782	36,139
<b>Nov</b>	889,514	839,417	50,097
<b>1st Qtr</b>	<b>2,778,759</b>	<b>2,612,328</b>	<b>166,430</b>
<b>Dec</b>	922,415	883,851	38,564
<b>Jan</b>	869,943	891,354	(21,412)
<b>Feb</b>	836,812	803,834	32,978
<b>2nd Qtr</b>	<b>2,629,170</b>	<b>2,579,040</b>	<b>50,130</b>
<b>Mar</b>	902,539	855,648	46,891
<b>Apr</b>	872,922	886,075	(13,153)
<b>May</b>	929,580	901,717	27,863
<b>3rd Qtr</b>	<b>2,705,041</b>	<b>2,643,440</b>	<b>61,601</b>
<b>Jun</b>	920,080	893,359	26,721
<b>Jul</b>	952,924	933,658	19,266
<b>Aug</b>	972,414	956,318	16,095
<b>4th Qtr</b>	<b>2,845,418</b>	<b>2,783,335</b>	<b>62,083</b>
<b>Totals</b>	<b>10,958,387</b>	<b>10,618,143</b>	<b>340,244</b>

*1<sup>st</sup> Qtr = 6.37% Above Target, 2<sup>nd</sup> Qtr = 1.94% Above Target, 3<sup>rd</sup> Qtr = 2.33% Above Target, 4<sup>th</sup> Qtr = 2.23% Above Target*

*FY 16 = 3.20% Above Target*



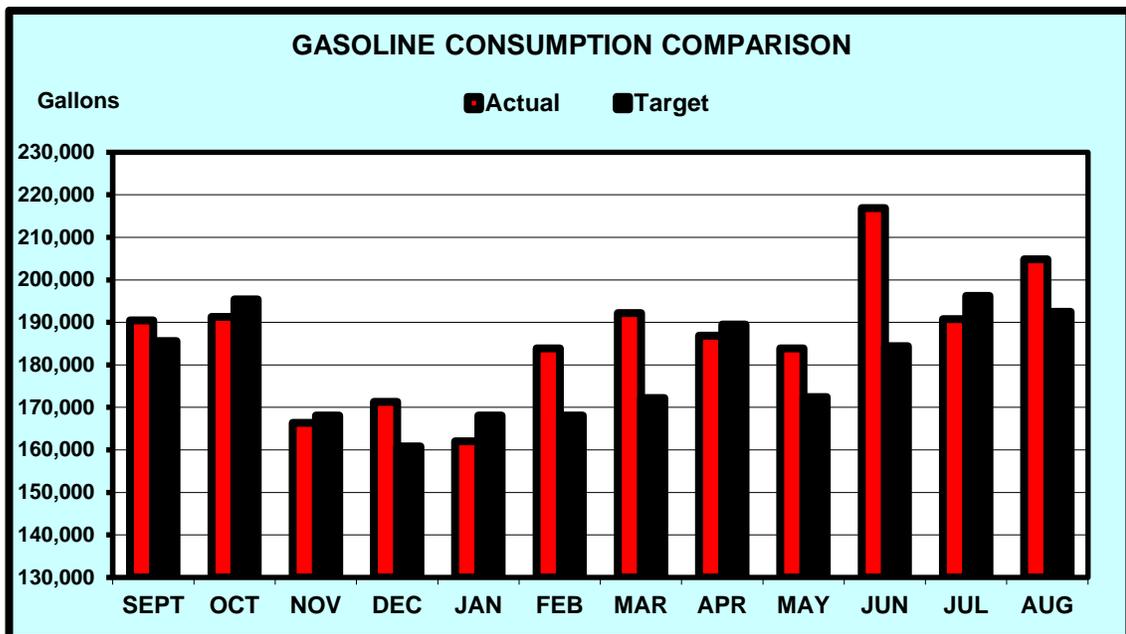
# Texas Department of Criminal Justice

## Gasoline Consumption Update

Reporting Period: **September 1, 2015 to August 31, 2016**

<b>GASOLINE</b>			
	Gallons	Targets	Over (Under) Target
Sep	190,439	185,577	4,862
Oct	191,275	195,420	(4,145)
Nov	166,327	168,084	(1,757)
<b>1st Qtr</b>	<b>548,041</b>	<b>549,081</b>	<b>(1,040)</b>
Dec	171,322	160,791	10,531
Jan	162,016	168,078	(6,062)
Feb	183,902	168,054	15,848
<b>2nd Qtr</b>	<b>517,240</b>	<b>496,923</b>	<b>20,317</b>
Mar	192,190	172,235	19,955
Apr	186,842	189,503	(2,661)
May	183,856	172,437	11,419
<b>3rd Qtr</b>	<b>562,888</b>	<b>534,175</b>	<b>28,713</b>
Jun	216,842	184,409	32,433
Jul	190,747	196,188	(5,441)
Aug	204,861	192,514	12,347
<b>4th Qtr</b>	<b>612,450</b>	<b>573,111</b>	<b>39,339</b>
<b>Totals</b>	<b>2,240,619</b>	<b>2,153,290</b>	<b>87,329</b>

*FY16 Actual vs. FY15 Actual: 1<sup>st</sup> Qtr Decrease = 3%, 2<sup>nd</sup> Qtr Increase = 1.5%, 3<sup>rd</sup> Qtr Increase = 2.7%,  
4<sup>th</sup> Qtr Increase = 4.2%, FY 16 Increase = 1.5%*



**Electricity, Natural, Gas and Water:**

The TDCJ has entered into a Memorandum of Understanding with CLEAResult and participating utility providers entering the TDCJ into the Texas City Smart Program. This is a voluntary program offered at no cost to participants. CLEAResult provides third party consulting on best practices in areas of energy usage and energy efficiency. This program offers monetary incentives available for qualifying measures in new construction and retrofit projects. This program is designed to reduce government's energy costs, reduce operating budgets freeing additional dollars for other taxpayers needs and provide improved working environments for employees. We will continue to utilize the energy benchmarking support provided by CLEAResult to identify those facilities with the greatest opportunities for energy and cost savings. In our ongoing effort to evaluate potential energy curtailment programs and energy efficient products, we have met with various utility providers and vendors.

**Gasoline:**

The TDCJ will continue to prepare notices to the TDCJ departments making them aware of the recommendations of Executive Order RP-49. As an agency, our goal is to reduce consumption, which can be reached if we make the employee using the vehicle or equipment aware of the goal.

The TDCJ began purchasing higher fuel efficient vehicles in FY08 to replace intermediate automobiles in our motor pool. The FY08 average for the motor pool intermediate automobiles is 26 miles per gallon and the published average miles per gallon on the higher fuel efficient vehicles is 26 City and 36 Highway.

The TDCJ has purchased vehicles that have the Flex Fuel capabilities, which would allow us to run the 85% Ethanol blend of gasoline. E85 Ethanol burns at a higher rate and would increase the gallon usage by 22% to 30%, but this fuel would reduce the carbon emissions by 17%. Currently E85 is only available at a limited number of retail fuel stations in major metropolitan area.

**State Agency**  
**Energy Savings Program Quarterly Report**

**Date:** October 1, 2016

**Agency:** Texas Department of Criminal Justice

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The electricity, natural gas, water and gasoline quarterly report for The Texas Department of Criminal Justice has been completed per Executive Order RP-49. The recommendations contained in the current 2015/2016 Energy and Water Management Plan and the RP-49 supplement will continue to be implemented with specific responsibility for compliance charged to the agency Facilities Review Board. This report will be placed in a conspicuous place on the TDCJ WEB page per RP-49 instructions.

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**Title:** Chief Financial Officer, Texas Department of Criminal Justice

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