State Agency
Energy Savings Program

Electricity
Natural Gas
Transportation Fuel
Water

Executive Order RP-49
&
Energy and Water Management Plan
January 2018
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<th>SECTION</th>
<th>TITLE</th>
<th>PAGE No.</th>
</tr>
</thead>
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<td>10</td>
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</tbody>
</table>
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.

Transportation Fuel:

The TDCJ is committed to achieving the target goal established by the Executive Order RP-49 of an annual 2.5% decrease in transportation fuel 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.
II. Consumption Update

Texas Department of Criminal Justice

Agency Consumption Targets

Electricity, Natural Gas and Water

<table>
<thead>
<tr>
<th>Metered kWh</th>
<th>Metered MCF</th>
<th>Total Water K Gallons</th>
<th>EL $/kWh</th>
<th>NG $/MCF</th>
<th>Water $/K Gal</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY17 708,611,554</td>
<td>3,139,060</td>
<td>11,148,220</td>
<td>$0.061</td>
<td>$4.235</td>
<td>$2.931</td>
</tr>
<tr>
<td>FY16 700,504,420</td>
<td>3,309,504</td>
<td>10,999,054</td>
<td>$0.064</td>
<td>$3.278</td>
<td>$2.632</td>
</tr>
<tr>
<td>FY15 698,077,132</td>
<td>3,647,732</td>
<td>10,894,668</td>
<td>$0.070</td>
<td>$4.272</td>
<td>$2.632</td>
</tr>
</tbody>
</table>

702,397,702 3,365,432 11,013,981

3-Year Averages

17,559,943 84,136

2.5% of Averages

691,051,611 3,054,923 10,872,870

Target Consumption

Targets = FY17 Totals less 2.5% of averages

Transportation Fuel

<table>
<thead>
<tr>
<th>Gallons</th>
<th>Average $/Gallon</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY17 4,077,027</td>
<td>$1.846</td>
</tr>
<tr>
<td>FY16 4,068,650</td>
<td>$1.606</td>
</tr>
<tr>
<td>FY15 4,017,725</td>
<td>$2.241</td>
</tr>
</tbody>
</table>

4,054,467

3-Year Average

101,362

2.5% of Averages

3,975,665

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, 2017 to November 30, 2017

<table>
<thead>
<tr>
<th></th>
<th>EL kWh</th>
<th>Targets kWh</th>
<th>Over (Under) Target kWh</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sep</td>
<td>66,115,840</td>
<td>67,078,428</td>
<td>(962,588)</td>
</tr>
<tr>
<td>Oct</td>
<td>61,668,117</td>
<td>59,220,333</td>
<td>2,447,784</td>
</tr>
<tr>
<td>Nov</td>
<td>54,109,801</td>
<td>50,891,879</td>
<td>3,217,922</td>
</tr>
<tr>
<td>1st Qtr</td>
<td>181,893,758</td>
<td>177,190,640</td>
<td>4,703,118</td>
</tr>
<tr>
<td>Totals</td>
<td>181,893,758</td>
<td>177,190,640</td>
<td>4,703,118</td>
</tr>
</tbody>
</table>

1st Qtr = 2.65% Above Target.

ELECTRICAL CONSUMPTION COMPARISON

![Bar chart showing electricity consumption comparison between actual and target kWh for September, October, and November.

- Sep: Actual kWh = 66,115,840, Target kWh = 67,078,428, Over (Under) Target kWh = (962,588)
- Oct: Actual kWh = 61,668,117, Target kWh = 59,220,333, Over (Under) Target kWh = 2,447,784
- Nov: Actual kWh = 54,109,801, Target kWh = 50,891,879, Over (Under) Target kWh = 3,217,922
- 1st Qtr: Actual kWh = 181,893,758, Target kWh = 177,190,640, Over (Under) Target kWh = 4,703,118
- Totals: Actual kWh = 181,893,758, Target kWh = 177,190,640, Over (Under) Target kWh = 4,703,118

The bar chart visually represents the electricity consumption comparison for each month and the aggregated data for the first quarter versus the targets.
Texas Department of Criminal Justice

Natural Gas Consumption Update

Reporting Period: September 1, 2017 to November 30, 2017

<table>
<thead>
<tr>
<th></th>
<th>NG MCF</th>
<th>Targets MCF</th>
<th>Over (Under) Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sep</td>
<td>167,444</td>
<td>157,896</td>
<td>9,548</td>
</tr>
<tr>
<td>Oct</td>
<td>226,523</td>
<td>185,325</td>
<td>41,198</td>
</tr>
<tr>
<td>Nov</td>
<td>279,037</td>
<td>304,251</td>
<td>(25,213)</td>
</tr>
<tr>
<td>1st Qtr</td>
<td>673,004</td>
<td>647,472</td>
<td>25,533</td>
</tr>
<tr>
<td>Totals</td>
<td>673,004</td>
<td>647,472</td>
<td>25,533</td>
</tr>
</tbody>
</table>

1st Qtr = 3.94% Above Target

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**NATURAL GAS CONSUMPTION COMPARISON**

- **Actual**
- **Target**

<table>
<thead>
<tr>
<th></th>
<th>Sep</th>
<th>Oct</th>
<th>Nov</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCF</td>
<td>167,444</td>
<td>226,523</td>
<td>279,037</td>
</tr>
<tr>
<td></td>
<td>157,896</td>
<td>185,325</td>
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<td></td>
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<tr>
<td></td>
<td>673,004</td>
<td>647,472</td>
<td>25,533</td>
</tr>
</tbody>
</table>

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Texas Department of Criminal Justice

Water Consumption Update

Reporting Period: September 1, 2017 to November 30, 2017

<table>
<thead>
<tr>
<th></th>
<th>WATER K Gallons</th>
<th>Targets K Gallons</th>
<th>Over (Under) Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sep</td>
<td>965,167</td>
<td>945,535</td>
<td>19,631</td>
</tr>
<tr>
<td>Oct</td>
<td>965,661</td>
<td>915,014</td>
<td>50,647</td>
</tr>
<tr>
<td>Nov</td>
<td>909,753</td>
<td>882,483</td>
<td>27,270</td>
</tr>
<tr>
<td>1st Qtr</td>
<td>2,840,581</td>
<td>2,743,032</td>
<td>97,548</td>
</tr>
<tr>
<td>Totals</td>
<td>2,840,581</td>
<td>2,743,032</td>
<td>97,548</td>
</tr>
</tbody>
</table>

1st Qtr = 3.55% Above Target.

WATER CONSUMPTION COMPARISON

![Graph showing water consumption comparison](image)
Texas Department of Criminal Justice

Transportation Fuel Consumption Update

Reporting Period: September 1, 2017 to November 30, 2017

<table>
<thead>
<tr>
<th></th>
<th>Gallons</th>
<th>Targets</th>
<th>Over (Under) Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sep</td>
<td>353,708</td>
<td>341,407</td>
<td>12,301</td>
</tr>
<tr>
<td>Oct</td>
<td>349,822</td>
<td>336,059</td>
<td>13,763</td>
</tr>
<tr>
<td>Nov</td>
<td>327,999</td>
<td>320,187</td>
<td>7,812</td>
</tr>
<tr>
<td>1st Qtr</td>
<td>1,031,529</td>
<td>997,653</td>
<td>33,876</td>
</tr>
<tr>
<td>Totals</td>
<td>1,031,529</td>
<td>997,653</td>
<td>33,876</td>
</tr>
</tbody>
</table>

1st Qtr = 3.4% Above Target

TRANSPORTATION FUEL CONSUMPTION COMPARISON

![Graph showing transportation fuel consumption comparison between actual and target gallons for September, October, and November.](chart)
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. We are currently exploring available water conservation technologies in an effort to reduce water consumption.

Transportation Fuel:

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: January 1, 2018

Agency: Texas Department of Criminal Justice

Plan contact: Jerry McGinty, Chief Financial Officer

Contact telephone number: (936) 437-2107

Contact e-mail address: Jerry.McGinty@tdcj.texas.gov

The electricity, natural gas, water and transportation fuel quarterly report for The Texas Department of Criminal Justice has been completed per Executive Order RP-49. The recommendations contained in the current 2018/2019 RP-49 supplement and the Energy and Water Management Plan 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.

Name: Jerry McGinty

Title: Chief Financial Officer, Texas Department of Criminal Justice

Signature: _____________________________________________

Phone Number: (936) 437-2107

E-mail address: Jerry.McGinty@tdcj.texas.gov