

ENERGY EFFICIENCY CONTRACTS 2017
MONITORING AND COST SAVINGS



PERFORMANCE AUDIT SERVICES
ISSUED JUNE 27, 2018

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LOUISIANA LEGISLATIVE AUDITOR
DARYL G. PURPERA, CPA, CFE

June 27, 2018

The Honorable John A. Alario, Jr.,
President of the Senate
The Honorable Taylor F. Barras,
Speaker of the House of Representatives

Dear Senator Alario and Representative Barras:

This report provides the results of our performance audit of the three state energy efficiency contracts in effect as of June 30, 2017. These contracts include the Louisiana School for the Deaf and Visually Impaired (LSDVI), Southeastern Louisiana University (SELU), and the Louisiana Department of Corrections (LADOC).

The report contains our findings and conclusions. I hope this report will benefit you in your legislative decision-making process.

We would like to express our appreciation to the management and staff of LSDVI, SELU, and LADOC for their assistance during this audit.

Sincerely,

Daryl G. Purpera, CPA, CFE
Legislative Auditor

DGP/aa

EEC 2017

Louisiana Legislative Auditor

Daryl G. Purpera, CPA, CFE



Energy Efficiency Contracts 2017 Monitoring and Cost Savings

June 2018

Audit Control # 40170032

Introduction

Louisiana Revised Statute 39:1622 (E)(2) requires the Louisiana Legislative Auditor to conduct periodic performance audits of each performance-based energy efficiency contract entered into by a state agency and in effect on and after January 1, 2010. In accordance with this mandate, we performed a performance audit of the three state energy efficiency contracts in effect as of June 30, 2017. These contracts include:

- Louisiana School for the Deaf and Visually Impaired (LSDVI) with Johnson Controls, Inc. (“LSDVI - Johnson Controls”)
- Southeastern Louisiana University (SELU) with Honeywell International, Inc. (“SELU - Honeywell”)
- Louisiana Department of Corrections (LADOC) with Johnson Controls, Inc. (“LADOC - Johnson Controls”)

The audit objective and results of our work are:

To determine if the energy service companies conducted their monitoring activities and achieved the cost savings required by their contracts as of June 30, 2017.

LSDVI - Johnson Controls. Johnson Controls, Inc. has conducted its monitoring activities and achieved the annual cost savings required by the contract for Year 12.

SELU - Honeywell. Honeywell International, Inc. has conducted its monitoring activities and achieved the annual cost savings required by the contract for Year 14.

LADOC - Johnson Controls. Johnson Controls has conducted its monitoring activities and achieved the annual cost savings required by the contract for Year 4.

Appendix A details our audit scope and methodology, and Appendix B summarizes background information.

Objective: To determine if energy service companies conducted their monitoring activities and achieved the cost savings required by their contracts as of June 30, 2017.

Based on our analysis, Johnson Controls and Honeywell are in compliance with the monitoring requirements specific to their contracts. The energy service companies are providing the required cost-savings verification reports to the agencies. Johnson Controls met its cost savings guarantee for the LSDVI - Johnson Controls contract, Honeywell met its cost savings guarantee for the SELU - Honeywell contract, and Johnson Controls met its cost savings guarantee for the LADOC - Johnson Controls contract. Each of these contracts is discussed in detail below.

LSDVI - Johnson Controls Contract

Contract Summary. On May 19, 2004, LSDVI entered into a contract with Johnson Controls for energy conservation equipment and consulting services. The term of the contract is 15 years with a total cost of \$4,385,684. The contract specifies guaranteed savings of \$4,421,960 that will be achieved through both measurable savings of energy consumption and operational savings. Exhibit 1 summarizes the cost and savings guarantee terms of the contract.

Exhibit 1: Projected Financial Performance LSDVI - Johnson Controls Contract							
(A) Net Lease Payments	(B) Service Costs	(C) Total Costs (A+B)	(D) Energy Savings	(E) Operational Savings	(F) Capital Cost Avoidance Savings	(G) Total Guaranteed Savings (D+E+F)	(H) Projected Net Savings (G-C)
\$3,285,739	\$1,099,945	\$4,385,684	\$2,593,836	\$936,180	\$891,944	\$4,421,960	\$36,276
Source: Prepared by legislative auditor's staff using information from the LSDVI - Johnson Controls Energy Efficiency Contract.							

Johnson Controls is in compliance with the monitoring requirement. The contract requires Johnson Controls to measure energy-related cost savings and provide a report on the cost savings to LSDVI within 60 days of each anniversary of the performance commencement date¹ or within 30 days of receiving the final electricity bill for the time period. Johnson Controls provides monitoring services for both the guaranteed cost savings and the equipment installed as part of this energy efficiency contract. Throughout the term of the agreement, or until the monitoring service is cancelled by LSDVI, Johnson Controls receives \$15,677 per year for the portion of the service agreement that includes monitoring the associated energy and cost savings. Despite only being contractually obligated to produce annual reports, Johnson Controls issues additional quarterly reports to LSDVI with relevant performance information from the previous three months.

¹ The performance commencement date is the first day of the month after the month in which all equipment is installed per the contract.

Outside of the monitoring provisions in the contract, LSDVI staff monitors energy consumption by analyzing its accounting department's monthly reports on energy bills. Energy consumption is analyzed on a year-to-year basis to determine if any significant changes have occurred. LSDVI staff compares the energy consumption numbers in the cost-savings verification reports with the numbers from the energy bills to make sure Johnson Controls uses the correct numbers in its calculations. LSDVI uses the cost-savings verification reports to verify whether or not the guarantee has been met.

Johnson Controls achieved the annual guaranteed cost savings for Year 12 of the contract. The LSDVI - Johnson Controls contract contains a cost-savings guarantee for each year of the contract. Based on the cost-savings reports, Johnson Controls exceeded the annual savings guarantee for Year 12 through June 2017. To verify the accuracy of the cost savings in the cost-savings verification reports, we compared the energy consumption data in LSDVI's utility bills from July 2016 through June 2017 to the energy consumption data used by Johnson Controls to generate the annual cost-savings verification reports. The inputs used to generate the annual cost-savings verification reports for the LSDVI - Johnson Controls contract were reliable. Exhibit 2 is a summary of contract results to date, including whether the cost-savings guarantee was met for each year. Overall, Johnson Controls has exceeded the annual savings guarantees by \$318,877 through June 2017.

**Exhibit 2: LSDVI - Johnson Controls Contract
Cost-Savings Summary**

Year*	(A) Electricity Savings	(B) Gas Savings	(C) Water/Sewer Savings	(D) Operation Savings	(E) Total Actual Savings (A+B+C+D)	(F) Annual Guaranteed Savings	Savings in Excess of Guarantee (E-F)
Installation (Nov 04 - Aug 05)	\$44,412	\$7,206	\$3,799	\$52,087	\$107,504	\$86,000	\$21,504
Year 1 (Sept 05 - Jun 06)	84,717	35,962	1,445	100,806	222,930	240,887	(17,957)
Year 2 (July 06 - June 07)	111,602	86,641	12,522	124,026	334,791	289,064	45,727
Year 3 (July 07 - June 08)	130,441	69,969	23,989	125,641	350,041	289,064	60,976
Year 4 (July 08 - June 09)	125,797	51,666	23,352	119,832	320,647	289,064	31,583
Year 5 (July 09 - June 10)	79,517	59,866	27,190	124,259	290,832	289,864	968
Year 6 (July 10 - June 11)	120,919	56,648	17,882	122,305	317,754	289,864	27,890
Year 7 (July 11 - June 12)	100,906	35,010	15,422	125,352	276,690	280,541**	(3,851)
Year 8 (July 12 - June 13)	111,262	47,279	28,112	124,528	311,181	289,064	22,117
Year 9 (July 13 - June 14)	121,685	57,634	32,528	119,206	331,053	289,064	41,989
Year 10 (July 14 - June 15)	110,748	42,718	38,436	121,044	312,946	289,064	23,882
Year 11 (July 15 - June 16)	117,117	35,120	41,135	126,039	319,411	289,064	30,347
Year 12 (July 16 - June 17)	120,091	30,591	46,961	125,123	322,766	289,064	33,702
Total	\$1,379,214	\$616,310	\$312,773	\$1,510,248	\$3,818,545	\$3,499,668	\$318,877

*Cost savings for the years highlighted in gray were reviewed in prior reports. The reports are available on the Legislative Auditor's website at <http://www.lla.la.gov>.

** Includes a reduction of \$8,523 to reflect the fact that LSDVI was operating more buildings because the Louisiana School for the Deaf merged with the Louisiana School for the Visually Impaired after the contract was initiated. Modifications to the annual guaranteed savings for contract years 8 through 12 were not included because these modifications did not have a significant impact on the reported savings in excess of guarantee.

Source: Prepared by legislative auditor's staff using information from LSDVI Cost-Savings Reports.

SELU - Honeywell Contract

Contract Summary. On December 19, 2001, SELU entered into a contract with Sempra Energy Services, now Honeywell, to design and install energy conservation measures and to provide monitoring and training services. The contract term is 20 years and has a total cost of \$12,141,954 with projected savings of \$12,581,651, which will be achieved over the duration of the contract.² Exhibit 3 summarizes the cost and savings guarantee terms of the contract.

Exhibit 3: Projected Financial Performance SELU - Honeywell Contract							
(A) Total Lease Payments	(B) Service Costs	(C) Total Costs (A+B)	(D) Energy Savings	(E) Lighting Material Savings	(F) Mechanical Maintenance Savings	(G) Total Savings ² (D+E+F)	(H) Projected Net Savings (G-C)
\$11,751,142	\$390,813	\$12,141,954	\$11,823,501	\$502,337	\$255,813	\$12,581,651	\$439,697
Note: The calculations in this exhibit are based on rounded numbers.							
Source: Prepared by legislative auditor's staff using information from the SELU Energy Efficiency Contract.							

Honeywell is in compliance with the monitoring requirement. The SELU - Honeywell contract requires Honeywell to provide monitoring services on both the guaranteed cost savings and the equipment installed. As required by the contract, Honeywell monitors the energy savings and provides SELU with an annual performance report, typically issued within the first quarter of the calendar year, detailing the cost savings achieved for the prior year. Our evaluation of Honeywell's monitoring and the reliability of the inputs in the cost-savings report is based upon our review of the controls in place with SELU's energy monitoring system. Honeywell uses the data directly from SELU's monitoring system to prepare the reports. Each report serves to identify cost savings achieved over the previous year relative to the agreed-upon baseline. SELU uses the cost-savings reports to verify whether or not the guarantee has been met. For the first year following project completion, SELU paid Honeywell a fee equal to \$27,608 for the monitoring work performed as specified in the contract. The fee for the second year was \$15,512 and is adjusted annually based on the Average National Consumer Price Index.

Honeywell achieved the annual guaranteed cost savings for Year 14 of the contract. The SELU - Honeywell contract contains a cost-savings guarantee for each year of the contract. Based upon the cost-savings report, Honeywell has exceeded the annual guaranteed savings for Year 14 of the contract through October 2017. SELU reported no issues with the reliability of the inputs used to generate the annual cost-savings verification reports for the SELU - Honeywell contract. SELU officials are aware of the energy consumption prior to Honeywell providing a report because its energy monitoring system allows it to monitor energy usage in real time. Therefore, SELU would be aware of any inaccuracies in the cost-savings report.

SELU has developed additional energy savings measures outside of the contract with Honeywell. For example, SELU began the process of switching to efficient LED light bulbs in buildings on the school's campus in calendar year 2014. This allows SELU to realize savings as

² Per the SELU-Honeywell contract, the Annual Energy Savings Guarantee equals the total lease payments. The total lease payments, over the term of the contract, equal \$11,751,142. The contract lists the Total Projected Savings as \$12,581,651.

LED bulbs use less energy, but it also decreases labor costs because LED bulbs last longer and don't need to be changed as often. School officials stated that this project is 69% complete, which is a slight increase from prior year. Another energy saving measure SELU has undertaken is the construction of two dormitories that will use hybrid geothermal energy. These dorms will have 560 beds and will also house three classrooms and a dining area for students. The dorms are expected to use half the energy of a standard system. School officials anticipate the dormitories will be operational in August 2018. These energy savings measures are beyond what is specified in SELU's contract with Honeywell and will further increase SELU's total energy savings over the life of the contract.

Exhibit 4 is a summary of contract results to date, including whether the cost-savings guarantee was met for each year. Overall, Honeywell has exceeded the annual savings guarantees by \$1,294,366 through October 2017.

**Exhibit 4: SELU - Honeywell Contract
Cost-Savings Summary**

Year*	(A) Energy Savings	(B) Lighting Material Savings	(C) Mechanical Maintenance Savings	(D) Total Savings (A+B+C)	(E) Annual Guaranteed Savings	(F) Savings in Excess of Guarantee (D-E)
Interim (Feb 02 - Oct 03)	\$691,729			\$691,729		\$691,729
Year 1 (Nov 03 - Oct 04)	613,252	\$20,000	\$10,185	643,437	\$573,608	69,829
Year 2 (Nov 04 - Oct 05)	627,969	20,600	10,490	659,059	621,131	37,928
Year 3 (Nov 05 - Oct 06)	627,969	21,218	10,805	659,992	621,681	38,311
Year 4 (Nov 06 - Oct 07)	627,969	21,855	11,129	660,953	620,481	40,472
Year 5 (Nov 07 - Oct 08)	627,969	22,510	11,463	661,942	618,881	43,061
Year 6 (Nov 08 - Oct 09)	627,969	23,185	11,807	662,962	621,431	41,531
Year 7 (Nov 09 - Oct 10)	623,060	23,881	12,161	659,103	622,729	36,374
Year 8 (Nov 10 - Oct 11)	623,060	24,597	12,526	660,184	623,044	37,140
Year 9 (Nov 11 - Oct 12)	623,060	25,335	12,902	661,298	622,950	38,348
Year 10 (Nov 12 - Oct 13)	623,060	26,095	13,289	662,445	622,200	40,245
Year 11 (Nov 13 - Oct 14)	623,060	26,878	13,688	663,627	618,450	45,177
Year 12 (Nov 14 - Oct 15)	623,060	27,685	14,098	664,843	618,950	45,893
Year 13 (Nov 15 - Oct 16)	623,060	28,515	14,521	666,097	623,450	42,647
Year 14 (Nov 16 - Oct 17)	623,060	29,371	14,957	667,388	621,700	45,688
Total	\$9,429,306	\$341,725	\$174,021	\$9,945,052	\$8,650,686	\$1,294,366

*Cost savings for the years highlighted in gray were reviewed in prior reports. The reports are available on the Legislative Auditor's website at <http://www.lla.la.gov>.

Note: The calculations in this exhibit are based on rounded numbers.

Source: Prepared by legislative auditor's staff using information from the SELU Cost-Savings Reports.

LADOC - Johnson Controls Contract

Contract Summary. On September 22, 2011, LADOC entered into a performance-based energy efficiency contract with Johnson Controls. The original contract covered nine sites; however, the contract was amended in 2013 to compensate for the closure of Forcht-Wade Correctional Center and C. Paul Phelps Correctional Center.³ The amendment reduced the total cost of the contract by \$891,303 to \$39,631,903 and the total guaranteed savings by \$781,397 to \$39,741,809. Act 51 of the 2017 Regular Legislative Session allowed LADOC to further amend its contract to deduct the guaranteed savings attributable to the closed sites. As such, LADOC and Johnson Controls amended the contract again on January 18, 2018 to reduce the total guaranteed savings by \$552,709.⁴ The contract's amended total projected net savings is \$-442,803 because LADOC incurred costs for work Johnson Controls completed at Forcht-Wade Correctional Center and C. Paul Phelps Correctional Center before the agency closed the two sites, but no energy savings will actually be achieved.⁵ Exhibit 5 summarizes the cost and savings guarantee terms of the amended contract.

**Exhibit 5: Projected Financial Performance
LADOC - Johnson Controls Contract**

(A) Net Lease Payments	(B) Service Costs	(C) Total Costs (A+B)	(D) Electricity and Natural Gas Savings	(E) Water Savings	(F) Operational Savings	(G) Total Guaranteed Savings (D+E+F)	(H) Projected Net Savings (G-C)
\$33,079,706	\$6,552,197	\$39,631,903	\$35,963,197	\$945,948	\$2,279,955	\$39,189,100	\$-442,803*
*The negative projected net savings is a result of LADOC incurring costs prior to the closure of Forcht-Wade Correctional Center and C. Paul Phelps Correctional Center but related savings will not be achieved as a result of the closure of the two sites. The projected net savings doesn't take into account actual savings in excess of the guaranteed savings. See exhibit 6 for the savings in excess of the guarantee through Year 4 which is \$545,103.							
Source: Prepared by legislative auditor's staff using information from the LADOC Energy Efficiency Contract.							

Johnson Controls is in compliance with the monitoring requirement. As agreed to in the 2013 contract amendment, LADOC will pay Johnson Controls a total of \$6,552,197⁶ for a service agreement, which includes measurement and verification, waste management compactor monitoring, and premium level services on identified facilities and equipment. The service agreement start date was July 1, 2013, and is paid in monthly installments that increase throughout the term of the contract. The total annual cost of Johnson Controls' service agreement for Year 4 was \$398,122.

³ The seven remaining sites are LADOC Headquarters, Dixon Correctional Institute, B.B. Rayburn Correctional Center, Elayn Hunt Correctional Center, Louisiana Correctional Institute for Women, David Wade Correctional Center, and Louisiana State Penitentiary.

⁴ The amendment removed Phelps Correctional Institute from the Savings Measurement and Calculation Formula.

⁵ The LADOC - Johnson Controls contract contains an annual cost-savings guarantee for each year of the contract. Therefore, the negative projected net savings for the total contract term doesn't affect this guarantee. In addition, the projected net savings doesn't take into account actual savings in excess of the guaranteed savings.

⁶ The original cost of the service agreement, as agreed to in the 2012 contract between LADOC and Johnson Controls, was \$6,852,806.

As part of the service agreement, Johnson Controls calculates the measured annual energy, operation, and maintenance savings achieved; reconciles the energy, operation, and maintenance savings with the guaranteed savings; and advises LADOC of whether there is a guaranteed savings shortfall or guaranteed savings surplus for the applicable guarantee year. As required, Johnson Controls provided LADOC an annual report that details this information for Year 4 of the contract.

Third-Party Monitoring. The Division of Administration (DOA), Office of Facility Planning and Control (FPC) contracted E/S3 Consultants, Inc. (E/S3) to serve as an independent third-party consultant on the energy efficiency contract between LADOC and Johnson Controls. E/S3 monitors measurement and verification services provided by Johnson Controls. Specifically, E/S3 reviews Johnson Controls' annual energy and costs savings/shortfall calculations, and measurement and verification methodology, as well as recommends adjustments to the baseline used to calculate cost savings.

DOA first entered into a contract with E/S3 on February 11, 2013, then entered into another contract with E/S3 which began on January 9, 2017. The annual cost of the newest E/S3 contract is not to exceed \$21,570. The cost associated with the E/S3 contract is not included in the calculation of net cost savings because R.S. 39:1622 requires energy savings companies pay a fee, not to exceed 2.5% of the contract, which goes into the Energy Performance Contract Fund to pay for contract oversight. The LADOC contract is the only existing energy efficiency contract with a third-party monitor.

Johnson Controls achieved the annual guaranteed cost savings for Year 4 of the contract. The LADOC - Johnson Controls contract contains a cost-savings guarantee for each year of the contract. Based on the cost-savings reports, Johnson Controls exceeded the annual savings guarantee for Year 4 through June 2017. The actual savings reported by Johnson Controls in its cost-savings verification report was independently reviewed by E/S3. According to E/S3, Johnson Controls exceeded the guaranteed savings for Year 4, to a great extent, because of non-routine adjustments Johnson Controls applied to the energy baseline when calculating the savings. Non-routine adjustments to the baseline compensate for factors that have changed since the original baseline was determined, such as facility size, operation of installed equipment, and number of occupants. Some of the non-routine adjustments for Year 4 were due to the August 2016 flood that affected the Louisiana Correctional Institute for Women.⁷

Exhibit 6 is a summary of contract results to date, including whether the cost-savings guarantee was met for each year. Overall, Johnson Controls has exceeded the annual savings guarantees by \$545,103 through June 2017.

⁷ As part of its review, E/S3 evaluates adjustments to the baseline to ensure they are appropriate and represent documented and independently verifiable conditions, the calculation methodology is accurate, and the adjustments are acceptable and defensible.

**Exhibit 6: LADOC - Johnson Controls Contract
Cost-Savings Summary**

Year*	(A) Electricity Savings	(B) Gas Savings	(C) Water/Sewer Savings	(D) Operation Savings	(E) Total Savings (A+B+C+D)	(F) Guaranteed Savings	Savings in Excess of Guarantee (E-F)
Construction (Jan 12 - Jun 13)	\$370,885	\$526,810	\$95,553	N/A	\$993,248	\$559,951	\$433,297
Year 1 (July 13 - Jun 14)	771,617	973,396	276,605	\$143,901	2,165,519	2,294,181	(128,665)
Year 2 (July 14 - Jun 15)	799,337	1,009,879	274,351	143,901	2,227,467	2,335,772	(108,305)
Year 3 (July 15 - Jun 16)	797,568	1,240,544	283,352	143,901	2,465,365	2,340,544	124,821
Year 4 (July 16 - Jun 17)	855,445	1,334,776	272,890	143,901	2,607,012	2,383,061	223,951
Total	\$3,594,852	\$5,085,405	\$1,202,751	\$575,604	\$10,458,612	\$9,913,509	\$545,103

*Cost savings for the year highlighted in gray was reviewed in a prior report. The report is available on the Legislative Auditor's website at <http://www.lla.la.gov>.

Source: Prepared by legislative auditor's staff using information from LADOC Cost-Savings Report.

APPENDIX A: SCOPE AND METHODOLOGY

Louisiana Revised Statute 39:1622 (E)(2) provides that the Louisiana Legislative Auditor (LLA) shall conduct annual performance audits of performance-based energy efficiency contracts entered into by state agencies. LLA shall establish a written schedule for the execution of such performance audits, with the schedule posted on LLA's website no later than February 1 of each year.

Audits shall be conducted on each performance-based energy efficiency contract in effect on and after January 1, 2010. LLA shall coordinate with the Commissioner of Administration to develop a description of information to be included as part of each energy efficiency contract performance audit. In accordance with this legislative mandate, we performed a performance audit of the energy efficiency contracts currently in place as of June 30, 2017. The audit objective was:

Determine if the energy service companies conducted their monitoring activities and achieved the cost savings required by their contracts as of June 30, 2017.

To answer the audit objective, we conducted the following procedures:

- Researched and reviewed state laws on energy efficiency contracts.
- Researched and summarized various aspects of current energy efficiency contracts, including contracts held by Southeastern Louisiana University (SELU), the Louisiana Schools for the Deaf and Visually Impaired (LSDVI), and the Louisiana Department of Corrections (LADOC).
- Contacted Office of Facility Planning and Control staff to determine the status of the state agency energy efficiency contracts in effect as of June 30, 2017, including any new contract amendments.
- Obtained cost-savings verification reports to determine compliance with the contract monitoring requirements.
- Used cost-savings verification reports to summarize the cost savings achieved for the energy efficiency contracts held by SELU, LSDVI, and LADOC.
- Interviewed officials at SELU, LSDVI, and LADOC to develop an understanding of the processes used to track and verify the energy consumption associated with the equipment installed as part of the contract.
- Obtained energy consumption data from SELU, LSDVI, and LADOC for each contract's term.

- Compared the energy consumption data received from LSDVI to the energy consumption data used in the cost-savings verification reports to verify the accuracy of the energy consumption inputs used.
- Observed SELU's energy monitoring system and gained an understanding of the controls in place over the system.

We conducted this performance audit in accordance with generally accepted *Government Auditing Standards* issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain sufficient, appropriate evidence to provide reasonable basis for our findings and conclusions based on our audit objectives. We believe the evidence obtained provides a reasonable basis for our findings and conclusions based on our audit objective.

APPENDIX B: BACKGROUND

Louisiana Revised Statute (R.S.) 39:1622 provides that Louisiana state agencies are allowed to enter into performance-based energy efficiency contracts for services and equipment. The state agency awards a contract to an energy service company through a request for proposal process and the contract extends for a period equal to the lesser of 20 years or the average life of the equipment installed by the performance contractor. The energy service company provides equipment and services to the agency intended to reduce the agency’s energy consumption.

Current Energy Efficiency Contracts. There are three energy efficiency contracts in effect as of June 30, 2017. These contracts include the following:

- Louisiana School for the Deaf and Visually Impaired (LSDVI) with Johnson Controls, Inc. (“LSDVI - Johnson Controls”)
- Southeastern Louisiana University (SELU) with Honeywell International, Inc. (“SELU - Honeywell”)
- Louisiana Department of Corrections (LADOC) with Johnson Controls, Inc. (“LADOC - Johnson Controls”)

These contracts range from 15 to 20 years in length. Below is a summary of state energy efficiency contracts in effect as of June 30, 2017.

Active State Energy Efficiency Contracts As of June 30, 2017							
State Agency	Energy Service Company	Contract Initiation	Contract Length	Performance Commencement Date*	Total Cost	Total Guaranteed Savings	Projected Net Savings
LSDVI	Johnson Controls, Inc.	May 19, 2004	15 Years	September 1, 2005	\$4,385,684	\$4,421,960	\$36,276
SELU	Honeywell International, Inc.	December 19, 2001	20 Years	November 1, 2003	\$12,141,954	\$12,581,651	\$439,697
LADOC	Johnson Controls, Inc.	September 22, 2011	16 Years	July 1, 2013	\$39,631,903	\$39,189,100	\$-442,803**
<p>*The first day of the month after the month in which all energy savings equipment is installed and operating per each contract, and the date that the first guarantee year and calculation of savings commences.</p> <p>** The negative projected net savings is a result of LADOC incurring costs prior to the closure of Forcht-Wade Correctional Center and C. Paul Phelps Correctional Center before related savings could be achieved. The projected net savings doesn’t take into account actual savings in excess of the guaranteed savings which was \$545,103 through Year 4 of the contract.</p> <p>Source: Prepared by legislative auditor’s staff using information from the LSDVI - Johnson Controls, SELU - Honeywell, and LADOC - Johnson Controls.</p>							

Monitoring. All three existing contracts, in accordance with Louisiana Administrative Code 34:V.2505(D), require that the energy service company use the International Performance Measurement and Verification Protocol standard to measure the financial performance of the respective contracts. The energy service companies provide the agencies with quarterly or annual reports throughout the term of the contract that summarize the contractor's performance relative to the guaranteed cost savings. These reports compare the actual energy consumed for the given time period to an agreed-upon energy consumption baseline to determine the amount of energy saved.

Cost Savings. R.S. 39:1622 (C)(1) requires energy efficiency contracts to include a method to establish their guaranteed cost savings. These savings, at a minimum, must ensure a total annual savings sufficient to fully fund any financing arrangement entered into to fund the contract.⁸ In the event that the guaranteed savings are not met, the energy service company must pay the agency the difference between the guaranteed savings amount and the actual savings amount. This arrangement helps agencies finance equipment and system upgrades that they might otherwise not be able to afford.

⁸ ACT 869 of the 2004 Regular Legislative Session established this cost savings requirement.