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State of New Hampshire

DEPARTMENT OF ADMINISTRATIVE SERVICES
OFFICE OF THE COMMISSIONER
25 Capitol Street – Room 120
Concord, New Hampshire 03301

VICKI V. QUIRAM
Commissioner
(603) 271-3201

JOSEPH B. BOUCHARD
Assistant Commissioner
(603) 271-3204

December 8, 2016

Her Excellency, Governor Margaret Wood Hassan
and the Honorable Council
State House
Concord, New Hampshire 03301

REQUESTED ACTION

Authorize the Department of Administrative Services to enter into a contract with Consolidated Edison Solutions, Inc., Valhalla, NY, vendor code # 202287, to perform an investment grade audit as a first step to a potential future award of a guaranteed energy savings performance contract. This contract is for the Investment Grade Audit portion of the project only. The contract will be effective upon Governor and Council approval and end on June 22, 2017. The cost of the investment grade audit is \$0.

EXPLANATION

The Department of Administrative Services developed a Request for Proposals to implement guaranteed energy saving performance contract at twenty-eight state owned buildings located in Concord. The twenty-eight buildings are:

Department of Justice	State Library	NHH Warehouse
Johnson Hall	Storrs Street Warehouse	Paint & Carpentry Shops
Legislative Office Building	Upham Walker House	Philbrook Building
Londergan Hall	Annex – SOPS	Thayer Hall
M&S Building	Brown Building	Transportation Garage
Records & Archives	Dolloff Building	Howard Recreation Building
Revenue Administration – 64 South Street	Grounds Shop	Liberty House
Spaulding Hall	Main Building	Pond Place
State House	NH Hospital Laundry	Twitchell Hall
State House Annex		

These buildings were targeted because they are major users of energy totaling \$3.8 million dollars in fiscal year 2015. When the investment grade audit is complete and the energy saving measures are installed we are looking to reduce our energy costs by approximately \$600,000 per year. These savings will be utilized to offset the cost of the measures with a payback of less than 20 years. In accordance with RSA 21 -1: 1 9-d the cost of the energy reduction improvements must be financed within 20 years from guaranteed energy cost savings through a performance contract and requires no upfront capital from the State.

As part of the RFP we requested that the Energy Service Companies evaluate a specified subset of

seven of the twenty-eight buildings and propose their energy saving measures for the following categories: lighting systems and controls, plug-load controls, building automated control systems, HVAC, premium efficiency motors and variable frequency drives, building envelope, water conservation, domestic hot water systems, electric distribution and transformers, and renewable energy systems.

Notification of the RFP was released to several firms within the industry. The RFP was also posted on the Department of Administrative Services web site. Compliant proposals were received from three Energy Service Companies. A five member review team comprised of representatives from Administrative Services and Health and Human Services rated each proposal using criteria established and published in the RFP. The criteria were broken down into the following areas: 35% technical approach; 20% energy savings; 20% project cost; 10% qualifications, experience, and resources; 10% management approach; and 5% presentation and responsiveness to the RFP. Based on the evaluation criteria, Consolidated Edison Solutions, Inc. was chosen as the highest ranking proposal. Attached is a copy of the consensus-based scoring. Consolidated Edison Solutions Inc. proposed the lowest cost for the investment grade audit and had the lowest markup percentages in its proposal that will be utilized for any eventual guaranteed energy savings performance contract.

The development of an energy saving performance contract requires an initial investment grade audit that provides more detailed information needed to negotiate and finalize the guaranteed energy saving performance contract. It will be utilized to determine whether the State will enter into a guaranteed energy savings performance contract with Consolidated Edison Solutions, Inc. The contract that Governor and Council is considering is only for completion of the investment grade audit of 28 state owned buildings listed above. When looking at the original seven buildings evaluated, if the investment grade audit fails to come within 15% of Consolidated Edison Solutions, Inc. original bid proposal's projected energy savings, the project will not move forward and there will be no charge to the State. If the investment grade audit recommendations fall within 15% of the original bid proposal and the project goes forward, the cost of the investment grade audit will be included in the guaranteed energy saving performance contract costs. Should the investment grade audit study fall within 15% and should for any reason Administrative Services decide not to go forward, Administrative Services will be obligated to pay Consolidated Edison Solutions, Inc., \$0, as that was the price specified in its proposal. Approval of this contract for the investment grade audit does not obligate the State to enter into a guaranteed energy savings performance contract, however, If the investment grade audit falls within the established criteria, Administrative Services intends to proceed with a guaranteed energy savings performance contract that will be subject to Governor and Council approval. Because the proposal included both the investment grade audit and the guaranteed energy saving performance contract, if the State moves forward with the guaranteed energy saving performance contract it will be negotiated with Consolidated Edison Solutions.

Based on the foregoing, I am respectfully recommending approval of the contract with Consolidated Edison Solutions, Inc.

Respectfully submitted,



Vicki V. Quiram,
Commissioner

RFP 2016-185 Energy Performance Contract for 28 State Owned Buildings

Evaluation Committee Members

Karen Rantamaki, P.E., State Energy Manager, Department of Administrative Services

Karen has been the State Energy Manager for the past eight years where she works with state agencies to complete energy efficiency projects within their facilities and performs various other energy related responsibilities. A former energy auditor, Karen has a degree in mechanical engineering from Cal Tech and is a licensed professional engineer. Karen was the primary author of the Request for Proposals that was issued for this project.

Ron White, Administrator IV, Department of Administrative Services

Ron has been the Administrator of the Bureau of General Services for the past nine years overseeing thirty State of New Hampshire facilities including several of the buildings included in this project. Ron was the state project manager for the recently completed guaranteed energy saving project on Hazen Drive where the State reduced energy use by 20% and fossil fuel by 71%. Ron has been in facilities management for high technology companies such as General Electric, ON Semiconductor, and Analog Devices. He has a Bachelor's Degree in Industrial Technology.

Steve Lorentzen, Administrator V, Department of Administrative Services

Stephen Lorentzen directs the Division of Plant and Property Management for the Department of Administrative Services. The Division of Plant and Property Management consists of five bureaus and oversees approximately 87 state-owned buildings and 56 leased facilities, coordinates state energy management initiatives, and monitors the facility leasing processes. Steve joined the state nearly 10 years ago heading up the Bureau of Court Facilities in his first 5 years. Steve has a MBA from Babson College.

Andy O'Sullivan, P.E., Administrator, Department of Administrative Services

Andy O'Sullivan joined the State of New Hampshire, Department of Administrative Services, as Administrator of the Bureau of Facilities and Asset Management in February 2016. He is responsible to oversee facilities and leased property that is utilized by the Department of Health and Human Services. Andy is a licensed civil engineer and formerly worked for the Department of Transportation. Andy has a Bachelor of Science Degree in Civil and Environmental Engineering from Clarkson University located in Potsdam, New York.

Dave Clapp, Director, Department of Health and Human Services

Dave has overall responsibility for Health and Human Services facilities including but not including to the Acute Psychiatric facility, Glencliff and the Youth Development Center. Dave joined the State nearly ten years ago and was the Administrator of the Bureau of Facilities and Asset Management overseeing DHHS facilities in his first 8-years. Prior to working for the

Department of Administrative Services
 Guaranteed Energy Savings Performance Contract
 RFP 2016-185
 Scoring Summary
 11/4/2016

Category	ConEdison Solutions	Ameresco	Siemens
Technical Approach (35%)	32	28	25
Energy Savings (Calculated 20%)	19	20	18
Project Cost (Calculated 20%)	20	0	0
Qualifications (10%)	9.5	9	8.5
Management Approach (10%)	9.5	9	8.5
Presentation (5%)	4.5	5	3.5
Total	94.5	71	63.5

RFP 2016-185 Guaranteed Energy Savings Performance Contract - Concord Buildings - Review of Form E2 Submittals

**Energy Savings Form E2
(20% of Score)**

kBTU		Points
Savings		
Ameresco	24,204,262	20
ConEdison	23,283,095	19
Siemens	21,263,997	18

**Project Cost Form E4
(15% of Score)**

M/U Cost		Points
Total		
ConEdison	31.7%	15
Siemens	41.0%	0
Ameresco	41.1%	0

**IGA Cost
(5% of Score)**

IGA Cost		Points
Cost		
ConEdison	\$ -	5
Ameresco	\$ 29,500	0
Siemens	\$ 132,600	0

Category	ConEdison	Ameresco	Siemens
Group Level - Annual Energy Reductions - kBTUs	24,011,395	25,045,662	21,422,797
Group Level - Annual Energy Reductions - \$\$	\$ 296,185	\$ 318,916	257,185
Group Level - Annual Energy Additions - kBTUs	728,300	841,400	158,800
Group Level - Annual Energy Additions - \$\$	\$ 6,853	\$ 7,917	1,494
Group Level - Net Reductions - kBTUs	23,283,095	24,204,262	21,263,997
Group Level - Net Reductions - \$\$	\$ 289,331	\$ 310,999	255,691
Group Level - Payback Years (including interest)	All < =20	All < =20	All < =20
Grand Total - Cost	\$ 4,207,151	\$ 4,591,210	\$ 3,555,924
Grand Total - Project Interest	\$ 1,448,581	\$ 1,580,818	1,217,202
Grand Total - Cost plus Interest	\$ 5,655,732	\$ 6,172,028	4,773,126
Grand Total - Net Reductions \$\$	\$ 289,331	\$ 310,999	255,691
Grand Total - Net Reductions - kBTUs	23,283,095	24,204,262	21,263,997
Grand Total - Baseline kBTUs	52,092,169	52,092,169	52,092,169
Grand Total - kBTU Percent Reduction	44.70%	46.46%	0
Grand Total - Payback Years (including interest)	19.55	19.85	19

Maintenance Cost Summary	\$11,716 annually (all STATE)	\$6045 in year 1; \$167,304 Over 20 years	\$29,540 in year 1; \$614,612 Over 20 years
Baseline Energy Cost	\$872,266	\$872,266	\$872,266
% Reduction in Energy Costs	33%	36%	29%
Project Team Location	Burlington, MA 17 weeks	Portsmouth, NH 11 weeks	Portsmouth, NH 11 weeks
Proposed Construction Time	59 weeks	52 weeks	54 weeks

RFP #2016-185

Subject: Performance Contract for 28 Buildings in Concord, NH

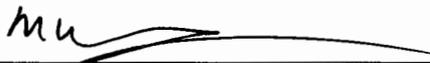
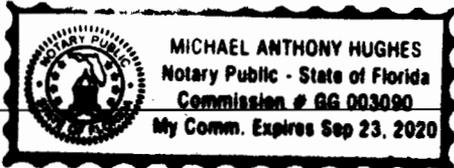
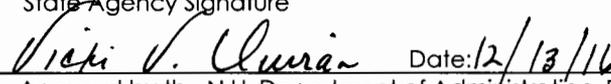
Notice: This agreement and all of its attachments shall become public upon submission to Governor and Executive Council for approval. Any information that is private, confidential or proprietary must be clearly identified to the agency and agreed to in writing prior to signing the contract.

AGREEMENT

The State of New Hampshire and the Contractor hereby mutually agree as follows:

GENERAL PROVISIONS

1. IDENTIFICATION.

1.1 State Agency Name Department of Administrative Services		1.2 State Agency Address 25 Capitol Street, Concord, NH 03301	
1.3 Contractor Name Consolidated Edison Solutions, Inc.		1.4 Contractor Address 100 Summit Lake Drive, Suite 410 Valhalla, NY 10595	
1.5 Contractor Phone # (781) 203-2705	1.6 Account Number	1.7 Completion Date June 22, 2017	1.8 Price Limitation \$0
1.9 Contracting Officer for State Agency Karen Rantamaki		1.10 State Agency Telephone Number (603) 271-2698	
1.11 Contractor Signature 		1.12 Name and Title of Contractor Signatory Michael W. Gibson, Vice President, Energy Services	
1.13 Acknowledgement: State of Florida, County of Hillsborough, On December 8, 2016, before the undersigned officer, personally appeared the person identified in block 1.12, or satisfactorily proven to be the person whose name is signed in block 1.11, and acknowledged that s/he executed this document in the capacity indicated in block 1.12.			
1.13.1 Signature of Notary Public or Justice of the Peace [Seal] 			
1.13.2 Name and Title of Notary or Justice of the Peace Michael A. Hughes, Notary			
1.14 State Agency Signature  Date: 12/13/16		1.15 Name and Title of State Agency Signatory Vicki V. Quiram, Commissioner	
1.16 Approval by the N.H. Department of Administration, Division of Personnel (if applicable) By: _____ Director, On: _____			
1.17 Approval by the Attorney General (Form, Substance and Execution) (if applicable) By:  On: 12/13/16			
1.18 Approval by the Governor and Executive Council (if applicable) By: _____ On: _____			

12/12

12/13

2. EMPLOYMENT OF CONTRACTOR/SERVICES TO BE PERFORMED. The State of New Hampshire, acting through the agency identified in block 1.1 ("State"), engages contractor identified in block 1.3 ("Contractor") to perform, and the Contractor shall perform, the work or sale of goods, or both, identified and more particularly described in the attached EXHIBIT A which is incorporated herein by reference ("Services").

3. EFFECTIVE DATE/COMPLETION OF SERVICES.
3.1 Notwithstanding any provision of this Agreement to the contrary, and subject to the approval of the Governor and Executive Council of the State of New Hampshire, if applicable, this Agreement, and all obligations of the parties hereunder, shall become effective on the date the Governor and Executive Council approve this Agreement as indicated in block 1.18, unless no such approval is required, in which case the Agreement shall become effective on the date the Agreement is signed by the State Agency as shown in block 1.14 ("Effective Date").
3.2 If the Contractor commences the Services prior to the Effective Date, all Services performed by the Contractor prior to the Effective Date shall be performed at the sole risk of the Contractor, and in the event that this Agreement does not become effective, the State shall have no liability to the Contractor, including without limitation, any obligation to pay the Contractor for any costs incurred or Services performed. Contractor must complete all Services by the Completion Date specified in block 1.7.

4. CONDITIONAL NATURE OF AGREEMENT.
Notwithstanding any provision of this Agreement to the contrary, all obligations of the State hereunder, including, without limitation, the continuance of payments hereunder, are contingent upon the availability and continued appropriation of funds, and in no event shall the State be liable for any payments hereunder in excess of such available appropriated funds. In the event of a reduction or termination of appropriated funds, the State shall have the right to withhold payment until such funds become available, if ever, and shall have the right to terminate this Agreement immediately upon giving the Contractor notice of such termination. The State shall not be required to transfer funds from any other account to the Account identified in block 1.6 in the event funds in that Account are reduced or unavailable.

5. CONTRACT PRICE/PRICE LIMITATION/ PAYMENT.
5.1 The contract price, method of payment, and terms of payment are identified and more particularly described in EXHIBIT B which is incorporated herein by reference.
5.2 The payment by the State of the contract price shall be the only and the complete reimbursement to the Contractor for all expenses, of whatever nature incurred by the Contractor in the performance hereof, and shall be the only and the complete compensation to the Contractor for the Services. The State shall have no liability to the Contractor other than the contract price.

5.3 The State reserves the right to offset from any amounts otherwise payable to the Contractor under this Agreement those liquidated amounts required or permitted by N.H. RSA 80:7 through RSA 80:7-c or any other provision of law.
5.4 Notwithstanding any provision in this Agreement to the contrary, and notwithstanding unexpected circumstances, in no event shall the total of all payments authorized, or actually made hereunder, exceed the Price Limitation set forth in block 1.8.

6. COMPLIANCE BY CONTRACTOR WITH LAWS AND REGULATIONS/ EQUAL EMPLOYMENT OPPORTUNITY.
6.1 In connection with the performance of the Services, the Contractor shall comply with all statutes, laws, regulations, and orders of federal, state, county or municipal authorities which impose any obligation or duty upon the Contractor, including, but not limited to, civil rights and equal opportunity laws. This may include the requirement to utilize auxiliary aids and services to ensure that persons with communication disabilities, including vision, hearing and speech, can communicate with, receive information from, and convey information to the Contractor. In addition, the Contractor shall comply with all applicable copyright laws.
6.2 During the term of this Agreement, the Contractor shall not discriminate against employees or applicants for employment because of race, color, religion, creed, age, sex, handicap, sexual orientation, or national origin and will take affirmative action to prevent such discrimination.
6.3 If this Agreement is funded in any part by monies of the United States, the Contractor shall comply with all the provisions of Executive Order No. 11246 ("Equal Employment Opportunity"), as supplemented by the regulations of the United States Department of Labor (41 C.F.R. Part 60), and with any rules, regulations and guidelines as the State of New Hampshire or the United States issue to implement these regulations. The Contractor further agrees to permit the State or United States access to any of the Contractor's books, records and accounts for the purpose of ascertaining compliance with all rules, regulations and orders, and the covenants, terms and conditions of this Agreement.

7. PERSONNEL.
7.1 The Contractor shall at its own expense provide all personnel necessary to perform the Services. The Contractor warrants that all personnel engaged in the Services shall be qualified to perform the Services, and shall be properly licensed and otherwise authorized to do so under all applicable laws.
7.2 Unless otherwise authorized in writing, during the term of this Agreement, and for a period of six (6) months after the Completion Date in block 1.7, the Contractor shall not hire, and shall not permit any subcontractor or other person, firm or corporation with whom it is engaged in a combined effort to perform the Services to hire, any person who is a State employee or official, who is materially involved in the procurement, administration or performance of this Agreement. This provision shall survive termination of this Agreement.

7.3 The Contracting Officer specified in block 1.9, or his or her successor, shall be the State's representative. In the event of any dispute concerning the interpretation of this Agreement, the Contracting Officer's decision shall be final for the State.

8. EVENT OF DEFAULT/REMEDIES.

8.1 Any one or more of the following acts or omissions of the Contractor shall constitute an event of default hereunder ("Event of Default"):

8.1.1 failure to perform the Services satisfactorily or on schedule;

8.1.2 failure to submit any report required hereunder; and/or

8.1.3 failure to perform any other covenant, term or condition of this Agreement.

8.2 Upon the occurrence of any Event of Default, the State may take any one, or more, or all, of the following actions:

8.2.1 give the Contractor a written notice specifying the Event of Default and requiring it to be remedied within, in the absence of a greater or lesser specification of time, thirty (30) days from the date of the notice; and if the Event of Default is not timely remedied, terminate this Agreement, effective two (2) days after giving the Contractor notice of termination;

8.2.2 give the Contractor a written notice specifying the Event of Default and suspending all payments to be made under this Agreement and ordering that the portion of the contract price which would otherwise accrue to the Contractor during the period from the date of such notice until such time as the State determines that the Contractor has cured the Event of Default shall never be paid to the Contractor;

8.2.3 set off against any other obligations the State may owe to the Contractor any damages the State suffers by reason of any Event of Default; and/or

8.2.4 treat the Agreement as breached and pursue any of its remedies at law or in equity, or both.

9. DATA/ACCESS/CONFIDENTIALITY/ PRESERVATION.

9.1 As used in this Agreement, the word "data" shall mean all information and things developed or obtained during the performance of, or acquired or developed by reason of, this Agreement, including, but not limited to, all studies, reports, files, formulae, surveys, maps, charts, sound recordings, video recordings, pictorial reproductions, drawings, analyses, graphic representations, computer programs, computer printouts, notes, letters, memoranda, papers, and documents, all whether finished or unfinished.

9.2 All data and any property which has been received from the State or purchased with funds provided for that purpose under this Agreement, shall be the property of the State, and shall be returned to the State upon demand or upon termination of this Agreement for any reason.

9.3 Confidentiality of data shall be governed by N.H. RSA chapter 91-A or other existing law. Disclosure of data requires prior written approval of the State.

10. TERMINATION. In the event of an early termination of this Agreement for any reason other than the completion of the Services, the Contractor shall deliver to the Contracting Officer, not later than fifteen (15) days after the date of termination, a report ("Termination Report") describing in detail all Services performed, and the contract price earned, to and including the date of termination. The form, subject matter, content, and number of copies of the Termination Report shall be identical to those of any Final Report described in the attached EXHIBIT A.

11. CONTRACTOR'S RELATION TO THE STATE. In the performance of this Agreement the Contractor is in all respects an independent contractor, and is neither an agent nor an employee of the State. Neither the Contractor nor any of its officers, employees, agents or members shall have authority to bind the State or receive any benefits, workers' compensation or other emoluments provided by the State to its employees.

12. ASSIGNMENT/DELEGATION/SUBCONTRACTS. The Contractor shall not assign, or otherwise transfer any interest in this Agreement without the prior written notice and consent of the State. None of the Services shall be subcontracted by the Contractor without the prior written notice and consent of the State.

13. INDEMNIFICATION. The Contractor shall defend, indemnify and hold harmless the State, its officers and employees, from and against any and all losses suffered by the State, its officers and employees, and any and all claims, liabilities or penalties asserted against the State, its officers and employees, by or on behalf of any person, on account of, based or resulting from, arising out of (or which may be claimed to arise out of) the acts or omissions of the Contractor. Notwithstanding the foregoing, nothing herein contained shall be deemed to constitute a waiver of the sovereign immunity of the State, which immunity is hereby reserved to the State. This covenant in paragraph 13 shall survive the termination of this Agreement.

14. INSURANCE.

14.1 The Contractor shall, at its sole expense, obtain and maintain in force, and shall require any subcontractor or assignee to obtain and maintain in force, the following insurance:

14.1.1 comprehensive general liability insurance against all claims of bodily injury, death or property damage, in amounts of not less than \$1,000,000 per occurrence and \$2,000,000 aggregate; and

14.1.2 special cause of loss coverage form covering all property subject to subparagraph 9.2 herein, in an amount not less than 80% of the whole replacement value of the property.

14.2 The policies described in subparagraph 14.1 herein shall be on policy forms and endorsements approved for use in the State of New Hampshire by the N.H. Department of Insurance, and issued by insurers licensed in the State of New Hampshire.

14.3 The Contractor shall furnish to the Contracting Officer identified in block 1.9, or his or her successor, a certificate(s) of insurance for all insurance required under this Agreement. Contractor shall also furnish to the Contracting Officer identified in block 1.9, or his or her successor, certificate(s) of insurance for all renewal(s) of insurance required under this Agreement no later than thirty (30) days prior to the expiration date of each of the insurance policies. The certificate(s) of insurance and any renewals thereof shall be attached and are incorporated herein by reference. Each certificate(s) of insurance shall contain a clause requiring the insurer to provide the Contracting Officer identified in block 1.9, or his or her successor, no less than thirty (30) days prior written notice of cancellation or modification of the policy.

15. WORKERS' COMPENSATION.

15.1 By signing this agreement, the Contractor agrees, certifies and warrants that the Contractor is in compliance with or exempt from, the requirements of N.H. RSA chapter 281-A ("*Workers' Compensation*").
15.2 To the extent the Contractor is subject to the requirements of N.H. RSA chapter 281-A, Contractor shall maintain, and require any subcontractor or assignee to secure and maintain, payment of Workers' Compensation in connection with activities which the person proposes to undertake pursuant to this Agreement. Contractor shall furnish the Contracting Officer identified in block 1.9, or his or her successor, proof of Workers' Compensation in the manner described in N.H. RSA chapter 281-A and any applicable renewal(s) thereof, which shall be attached and are incorporated herein by reference. The State shall not be responsible for payment of any Workers' Compensation premiums or for any other claim or benefit for Contractor, or any subcontractor or employee of Contractor, which might arise under applicable State of New Hampshire Workers' Compensation laws in connection with the performance of the Services under this Agreement.

16. WAIVER OF BREACH. No failure by the State to enforce any provisions hereof after any Event of Default shall be deemed a waiver of its rights with regard to that Event of Default, or any subsequent Event of Default. No express failure to enforce any Event of Default shall be deemed a waiver of the right of the State to enforce each and all of the provisions hereof upon any further or other Event of Default on the part of the Contractor.

17. NOTICE. Any notice by a party hereto to the other party shall be deemed to have been duly delivered or given at the time of mailing by certified mail, postage prepaid, in a United States Post Office addressed to the parties at the addresses given in blocks 1.2 and 1.4, herein.

18. AMENDMENT. This Agreement may be amended, waived or discharged only by an instrument in writing signed by the parties hereto and only after approval of such amendment, waiver or discharge by the Governor and Executive Council of the State of New Hampshire unless no such approval is required under the circumstances pursuant to State law, rule or policy.

19. CONSTRUCTION OF AGREEMENT AND TERMS. This Agreement shall be construed in accordance with the laws of the State of New Hampshire, and is binding upon and inures to the benefit of the parties and their respective successors and assigns. The wording used in this Agreement is the wording chosen by the parties to express their mutual intent, and no rule of construction shall be applied against or in favor of any party.

20. THIRD PARTIES. The parties hereto do not intend to benefit any third parties and this Agreement shall not be construed to confer any such benefit.

21. HEADINGS. The headings throughout the Agreement are for reference purposes only, and the words contained therein shall in no way be held to explain, modify, amplify or aid in the interpretation, construction or meaning of the provisions of this Agreement.

22. SPECIAL PROVISIONS. Additional provisions set forth in the attached EXHIBIT C are incorporated herein by reference.

23. SEVERABILITY. In the event any of the provisions of this Agreement are held by a court of competent jurisdiction to be contrary to any state or federal law, the remaining provisions of this Agreement will remain in full force and effect.

24. ENTIRE AGREEMENT. This Agreement, which may be executed in a number of counterparts, each of which shall be deemed an original, constitutes the entire Agreement and understanding between the parties, and supersedes all prior Agreements and understandings relating hereto.

Exhibit A - SERVICES

Agreement to Perform an Investment Grade Audit

AGREEMENT, entered into as of _____, 2016, by and between Consolidated Edison Solutions, Inc. ("Contractor" or "Vendor") a corporation with a principal place of business at 100 Summit Lake Drive, Suite 410, Valhalla, NY 10595 and the Department of Administrative Services ("State") a department of the State of New Hampshire with a principal place of business at 25 Capitol Street, Concord, NH (individually, a "Party" or collectively, the "Parties").

Now, therefore, in consideration of these premises and the mutual promises herein expressed, State and Contractor agree as follows:

BASIS:

The basis for this Agreement is:

Department of Administrative Services (hereinafter called "the State") owns the 28 facilities located in Concord, NH (hereinafter called "the Facilities"). State desires to improve the energy efficiency of certain facilities that it owns and occupies by means of an energy performance contract. The State has solicited competitive proposals, evaluated Contractor's response, and wishes to engage Contractor to conduct an Investment Grade Audit of the Facilities to determine whether the State should proceed with an energy reduction project by means of an energy performance contract.

Contractor has made a preliminary assessment of seven of the 28 Facilities and submitted a proposal in response to a State issued RFP, to provide certain services and equipment. The Contractor provides services and other measures designed to reduce energy consumption or energy costs. The Contractor is willing to guarantee that the State will realize energy cost savings during each year of the term of an energy performance contract, calculated and adjusted according to accepted terms.

The work to be performed at the Facility by Contractor (the "Project") will identify the Measures to be installed and other services, if any, to be provided by Contractor.

1. DEFINITIONS:

Baseline Energy Use. A calculation of energy use of a building or piece of equipment over a specified period used to project energy use had the project not been implemented.

Energy Conservation Measures (ECM). A measure to reduce energy use or costs, such as the installation of equipment or systems, or modification of equipment or systems, or revised operation and maintenance procedures.

Guaranteed Performance. The annual energy unit and cost savings, which the Contractor guarantees will be realized by the State as a result of the Project, will be calculated in accordance with the methodology (i.e., the International Performance Measurement and Verification Protocol (IPMVP) Options A and B) described in the original RFP and agreed to by Contractor in its RFP response. The Parties agree that the final M&V Plan will be negotiated and mutually agreed to during the development of the IGA. Excess annual energy units and cost savings obtained by the

State beyond the Contractor's annual guarantee cannot be used as a credit by the Contractor in any previous or subsequent years of the contract term and will not be applied for any shortfall in guaranteed energy units or cost savings during the contract term. Each Group must meet the 20 year payback requirement on its own. Measures must be easily separated by building for ease of calculating loan repayments. All energy and cost savings derived from the implementation of this project will be retained by the State.

Energy unit savings will be the basis of the performance guarantee and guaranteed cost savings are extrapolated from the energy unit savings and baseline utility costs. Since energy costs fluctuate, the Contractors must meet the guaranteed annual energy unit savings as a requirement of the performance guarantee. In no instance will guaranteed cost savings be used as the sole condition for meeting the performance guarantee. Further, as required in NH RSA 21-I:19-d (f), "Any energy performance contract should require the contractor to include all energy efficiency improvement in selected buildings that are calculated to recover all costs within 20 years from the date of project implementation at existing energy prices. The contract shall require that the public utility or energy services provider be repaid only to the extent of energy cost savings guaranteed by the contractor to accrue over the term of the contract."

Investment Grade Audit. A survey of existing energy systems of a Facility for the purpose of proposing Energy Conservation Measures (ECMs) and verifying that the proposed ECMs are guaranteed to generate energy consumption and cost savings and meet the financial requirements within twenty years. The results of an Investment Grade Audit are presented in a written report that includes a methodology for the calculation of the Baseline Energy Use and a description of physical conditions, equipment counts, nameplate data and control strategies. For each ECM recommended, the Investment Grade Audit generally provides equipment counts, implementation costs, efficiency levels or performance characteristics of the equipment comprising the proposed ECMs, on-going maintenance costs, annual energy and cost savings, the useful life of the ECM and a life-cycle cost analysis. Projected energy savings must account for interaction among recommended Energy Conservation Measures. The results of the Investment Grade Audit are presented in a written report.

Measurement and Verification. The process of monitoring and measuring the energy consumption of a facility or specific equipment or systems, before and after Project implementation, to determine if guaranteed or predicted energy savings are being realized. The International Measurement and Verification Protocols will be used to measure and monitor all installed ECMs.

Project. An energy and energy-related cost reduction program that may include design, engineering, procurement, installation of equipment, ongoing maintenance, measurement and verification, and other services.

Total Project Cost. All costs associated with the development and implementation of an energy performance contract, which may include, but are not limited to: the comprehensive energy audit; ECM design, procurement and installation; financing fees; construction contract bonds; interest charges; training of facility staff; measurement and verification; equipment operation and maintenance; project management; the energy performance guarantee; and Contractor overhead and profit.

2. The Contractor shall perform an Investment Grade Audit of the following facilities:

Department of Justice	State Library	NHH Warehouse
Johnson Hall	Storrs Street Warehouse	Paint & Carpentry Shops
Legislative Office Building	Upham Walker House	Philbrook Building
Londergan Hall	Annex - SOPS	Thayer Hall
M&S Building	Brown Building	Transportation Garage
Records & Archives	Dolloff Building	Howard Recreation Building
Revenue Administration – 64 South Street	Grounds Shop	Liberty House
Spaulding Hall	Main Building	Pond Place
State House	NH Hospital Laundry	Twitchell Hall
State House Annex		

*Note – for more information on the abovementioned facilities, including addresses, please see Attachment A.

The Contractor shall gather and analyze information and data and propose a project to the State in a comprehensive energy audit report that would reduce the State's expenses for energy, water and related operations. The Investment Grade Audit shall be conducted at the Contractor's own expense. The Contractor shall conduct an on-site survey of the facilities and shall interview appropriate State personnel to learn the operating characteristics of the facilities and the existing equipment and systems therein.

The Investment Grade Audit shall identify all feasible energy conservation, load management, building envelope, water conservation; and renewable resource options for which the total cost savings benefits are expected to exceed implementation costs, including financing, over the term. The comprehensive energy audit shall also address the following options specifically identified by the State:

- Building Automated Control Systems
- Building Envelope
- Domestic Hot Water Systems
- Electric Distribution System and Transformers
- Equipment e.g. Compressors
- Heating, Ventilation and Air Conditioning
- Lighting Systems and Controls, including exterior lighting
- Plug-Load Control
- Premium Efficiency Motors and Variable Frequency Drives
- Renewable Energy
- Water Conservation
- Additional Measures

- See Exhibit 1, below, for a more detailed list of all ECMs that will be studied

3. Contractor shall certify in writing that Contractor has a plan to coordinate all activities involving handling, transport, and disposal of hazardous materials, including asbestos, affected by the installation of Measures under this Agreement. Provided; however, that the State will enter directly into contracts with third parties for necessary handling, transport or disposal of hazardous materials (other than for mercury-containing lamps and PCB-containing ballasts) discovered by Contractor, as a part of such plan. If no hazardous materials are involved or affected, Contractor shall so assert.

The Investment Grade Audit shall present a detailed analysis and discussion of the Contractor's proposed ECMs at the State's facilities. It shall include a methodology for the calculation of the baseline energy use and a description of physical conditions, equipment counts, lighting audits, nameplate data, and control strategies prior to project implementation.

For each measure recommended, the Investment Grade Audit shall provide equipment counts, implementation costs, efficiency levels or performance characteristics of the equipment comprising the proposed measure, on-going maintenance costs, annual energy and cost savings, and the useful life of the measure. Projected energy savings must account for interaction among recommended measures.

There shall be a separate section in the comprehensive energy audit report for each building (organized by Group) and an executive summary which lists all proposed ECMs with the implementation cost, estimated energy cost savings, useful life of the equipment, and the simple payback for each measure.

For the seven Facilities included in the Proposal, energy savings must be at least 85% of those specified in the Proposal provided that the State's plan for installing natural gas steam boilers remains unchanged. Each Group of facilities must also fall within a 20-year payback period. For the remaining 21 Facilities, each Group must also fall within a 20-year payback period. 3% financing shall be assumed for payback calculations.

The report shall incorporate the following format:

Changes from the Original Proposal – provide a complete description of what changes have occurred from the original proposal to the completed Investment Grade Audit and explain why these changes were necessary. Include at a minimum for each ECM:

- Changes in quantities of equipment or fixtures,
- Changes in installation or equipment costs,
- Changes in equipment type and/or specifications,
- Changes in location or allocation of measure/savings (ex. solar),
- Changes in the implementation timeline, and
- Changes in the scope of work.

Measure Descriptions – provide a complete description of each proposed measure, which will include at a minimum:

- The proposed upgrade, replacement, or operational change;
- Existing equipment and fixture inventories;
- Waste recycling measures;
- Quantities, and make and model of all proposed new equipment;
- Interface between the proposed measure and existing equipment; and
- A cost and savings summary (Form E-2) and savings guarantees

Operation and Maintenance Services and Responsibilities – provide a complete description of the maintenance services that the Contractor will provide and a complete description of any maintenance actions for which the State will retain responsibility.

- Operation services to be performed by the Contractor
- Operation services to be performed by the State
- Training Services to be performed by the Contractor
- Maintenance services to be performed by the Contractor
- Maintenance to be performed by the State
- Repair response times and agreements

Measurement and Verification Plan – document the methods that will be used to calculate energy savings and convert them to cost savings, including the baseline that savings will be measured against and any provisions for modifying the baseline. Information to be provided includes:

- an energy baseline and the methodology used for the calculation of baseline energy consumption;
- the International Performance Measurement and Verification Protocol method to measure energy savings for each conservation measure and/or energy type after ECMs have been installed;
- the method to verify ECM compliance with requirements of standards of service and comfort;
- the method of determining guaranteed energy unit and cost savings and compliance with standards of service and comfort annually throughout the Term;
- the utility rate schedules to be used for calculating energy cost savings; and
- A clearly defined performance guarantee which indicates energy unit savings will be the basis of the guarantee and that guaranteed cost savings are extrapolated from the energy unit savings and baseline utility costs. Also include an outline of the process for reimbursing the state for any shortfall in the energy unit savings guarantee. In no instance will guaranteed cost savings be used as the sole condition for meeting the performance guarantee.

To establish the baseline, provide supporting documentation on:

- building physical condition;
- hours of use or occupancy;
- area of conditioned space;
- area of unconditioned space;

- inventory of energy consuming equipment or systems;
- energy consuming equipment operating conditions and loads; and
- standards of service and comfort observed (e.g. light levels and temperatures).

Describe the manner in which the Contractor shall secure the energy performance guarantee.

Installation Schedule – provide for each measure, a proposed implementation schedule with the following milestones:

- Design completed
- Permits
- Submittals (plans and specifications)
- Equipment/material acquisition
- Mobilization
- Installation
- Clean up
- Startup/testing, commissioning, initial Measurement and Verification
- Final inspection and project acceptance
- Post installation submittals
- Periodic Measurement and Verification, annual true-ups
- Training

Subcontractor and Equipment Vendor/Brand Schedules - provide a list of subcontractors (or possible subcontractors), and equipment brands and vendors.

Compensation Schedule – The Compensation Schedule should indicate any progress payments for construction through Project Acceptance and any regular payments after Project Acceptance for ongoing monitoring, operating, and maintenance services, if applicable.

Environmental Impact – Provide projected annual greenhouse gas reduction quantities for the total project based on the guaranteed energy savings. Utilize the following conversion coefficients in determining the gas reduction quantities for the type of energy indicated.

Electricity Savings (MM = 1 million, 3.412 MMBtu/MWh)

Carbon Dioxide	244.52 lb/MMBtu	834.31 lb/MWh
Sulfur Dioxide	0.53 lb/MMBtu	1.80 lb/MWh
Nitrous Oxides	0.21 lb/MMBtu	0.73 lb/MWh

Source: NH DAS, 2013

Natural Gas (MM =1 million, 0.1 MMBtu/therm (100 ft³))

Carbon Dioxide	116.98 lb/MMBtu	11.70 lb/therm
Sulfur Dioxide	0.00059 lb/MMBtu	0.000082 lb/therm
Nitrous Oxides	0.0022 lb/MMBtu	0.0003 lb/therm

Sources:

EIA (2012). Voluntary Reporting of Greenhouse Gases Program Fuel Emission Coefficients, <http://www.eia.gov/oiaf/1605/coefficients.html>.

EPA (2011). AP-42, Fifth Edition, Compilation of Air Pollutant Emission Factors, Volume 1: Stationary Point and Area Sources, <http://www.epa.gov/ttn/chief/ap42/index.html>.

Standards of Service and Comfort for the State facilities shall be as follows:

In conditioned areas, space temperatures will be maintained between 68°F and 76°F dry bulb during the heating season and scheduled occupied periods. In no instance shall the lowest temperature in the building fall below 68°F during occupied periods (except in cases of boiler failure when a minimum temperature of 55°F must be met with backup heating sources until failed units can be repaired). These temperature requirements shall also apply to buildings that have central cooling systems. In buildings with ventilation systems, outside air cannot be reduced below the quantities found in ASHRAE standard 62-89, "Ventilation for Acceptable Indoor Air Quality." Where control is available in office spaces, 20-60% relative humidity shall be maintained during periods scheduled for occupancy, or maintained at present building set points. Data centers shall have humidity settings that meet their own standards.

STANDARD HOURS OF OPERATION

BUILDING	ADDRESS	AREA	BASE HOURS OF OPERATION
Dept. of Justice	33 Capitol Street	All	M-F 7:00a-5:00p
		Housekeeping	M-F 4:30p-9:30p
Johnson Hall	107 Pleasant Street	All	M-F 7:00a-5:00p
		Housekeeping	M-F 4:30p-11:30p
LOB	33 North State Street	All	M-F 7:00a-5:00p
		Housekeeping	M-F 4:30p-8:30p
Londergan Hall	101 Pleasant Street	All	M-F 7:00a-5:00p
		Housekeeping	M-F 3:00p-11:30p
M&S Building	109 Pleasant Street	All	M-F 7:00a-5:00p
		Housekeeping	M-F 5:00p-11:00p
Records & Archives	71 South Fruit Street	All	M-F 7:30a-4:30p
		Housekeeping	M-F 4:30p-7:00p
Revenue Administration	64 South Street	All	M-F 7:00a-5:00p
		Housekeeping	M-F 5:00p-9:00p
Spaulding Hall	95 Pleasant Street	All	M-F 7:00a-5:00p
		Housekeeping	M-F 4:30p-8:30p
State House	107 North Main Street	All	M-F 7:00a-5:00p
		January - June	Sa 7:00a-5:00p

		Housekeeping	M-F	3:30p-12:00a
State House Annex	25 Capitol Street	All	M-F	7:00a-5:00p
		Housekeeping	M-F	3:30p-12:00a
State Library	20 Park Street	All	M-F	7:00a-5:00p
		Housekeeping	M-F	5:00p-9:00p
Storrs Street Warehouse	12 Hills Ave	All	M-F	7:00a-5:00p
		Housekeeping	M-F	5:00p-9:00p
Upham Walker House	18 Park Street	Weekdays as Scheduled	Events only, varies	
Annex – SOPS	105½ Pleasant Street	All	M-F	7:00a-5:00p
		Housekeeping	M-F	5:00p-10:00p
Brown Bldg.	129 Pleasant Street	All	M-F	7:00a-5:00p
		Housekeeping	M-F	5:00p-10:00p
Dolloff	117 Pleasant Street	All	M-F	7:00a-5:00p
		Housekeeping	M-F	5:00p-10:00p
Grounds Shop	79 South Fruit Street	All	M-F	6:00a-3:30p
Main Building	105 Pleasant Street	All Occupied Areas	M-F	7:00a-5:00p
		Housekeeping	M-F	5:00p-10:00p
NH Hospital Laundry	127 Pleasant Street	All	M-Sa	6:00a-4:00p
NHH Warehouse	Pleasant Street	Not Occupied, Storage Only	Intermittent Use	
Paint & Carpentry Shops	Pleasant Street	Housekeeping	M-F	6:00a-3:30p
Philbrook Bldg.	121 South Fruit Street	All	M-F	7:00a-4:30p
		Housekeeping	M-F	4:30p-10:00p
		Hearings as Scheduled	M-F	until 9:00p and weekends
Thayer	97 Pleasant Street	All	M-F	7:00a-5:00p
		Housekeeping	M-F	5:00p-10:00p
Transportation Garage	127A Pleasant Street	All	M-F	7:00a-3:30p
Howard Rec	99 Pleasant Street	All	M-F	8:00a-4:00p and by appt.
Liberty House	119 Pleasant Street	All	M-F	7:00a-3:30p
		Housekeeping	M-F	3:30p-9:00p
Pond Place	125 Pleasant Street	All (Residential)	M-F	4:00p-8:00a
Twitchell Hall	111 Pleasant Street	All (Residential)	M-F	4:00p-8:00a

During unoccupied periods, the heating and/or cooling systems may be turned off. However, the systems must be so designed that before any high or low temperatures or humidity conditions that could damage equipment in the spaces can occur, the heating and/or cooling system will restart and control the temperature or humidity as required. In any case, temperatures must be restored to the 68°F - 76°F range by the start of the next occupied period.

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Hot water to kitchen areas will be supplied at a temperature of 120°F. Domestic hot water for bathrooms, showers and hygiene purposes shall be delivered at a temperature between 85°F and 110°F. All other domestic hot water temperature requirements must meet applicable NH plumbing code standards.

Minimum lighting levels shall be in accordance with applicable Illumination Engineering Society (IES) standards for each type of space and activity as of the time of the Measure installation. It is recommended a sampling of light level readings be taken at various locations before considering lighting upgrade options. This will assure post-retrofit light levels will be adequate and that lighting upgrades will not be based on existing light levels which may be below or above IES standards.

The key personnel assigned responsibility for the conduct of the comprehensive energy audit shall be identified in writing prior to the commencement of the comprehensive energy audit, and shall be subject to the approval of the State. Proposed changes in the key personnel also shall be subject to State approval.

The State agrees to allow the Contractor access to its facilities during normal working hours for the purpose of gathering information required for the Investment Grade Audit and to cooperate with the Contractor in providing timely, complete, accurate, and pertinent information. If it has not already done so, the State shall furnish, or cause its energy suppliers to furnish, accurate and complete data concerning energy usage for the facilities for a recent 24-month period.

25 of the Facilities included in the Investment Grade Audit will have new heating systems installed as part of another project. The State agrees to provide updated information to the Contractor as it becomes available throughout the IGA process. As the project develops, the energy baseline, and any parameters associated with it, may be adjusted by mutual agreement of both parties to accommodate the energy use resulting from the new heating plants.

The Contractor agrees that this Investment Grade Audit shall be completed and delivered to the State within 26 weeks from the date this Agreement is last executed by both parties. Notwithstanding the above, if the scope of the project scope changes significantly, at the direction of the State, to include ECMs that are significantly different or more complex than those included in the Contractor's response to the RFP, or if non-ECM projects outside of this Agreement are being performed by others that would directly increase or significantly change the schedule or scope of work proposed by Contractor under this Agreement, the completion date would be extended, provided that advance notice is provided by Contractor to the State detailing the changes required that affects the completion date, and the proposed extension of time being requested. Such extension of time by the State shall not be unreasonably withheld.

Within 15 business days of receipt of the Investment Grade Audit, the State may request in writing additional information about any proposed measures. In such event the Contractor agrees to provide, at no additional cost to the State, detailed engineering and financial calculations and to identify all assumptions and inputs underlying the recommended ECMs and services. The Contractor will submit the requested information within 15 business days of receipt of the request from the State. Upon receipt of the information from the Contractor, the State may, within 5 days of receipt of the initial response from the Contractor, request additional information about the

recommended program. The Contractor shall have 10 days to respond to the second and any subsequent requests for information, and the State shall have 10 days to respond. These requests for information may involve attempts to resolve deficiencies in or material objections to the proposed Project. This process may continue until (a) the parties resolve the deficiencies and objections and the State accepts the comprehensive energy audit report; (b) the State and the Contractor mutually select an acceptable engineering firm to decide whether the recommended ECMs are feasible and the proposed costs and savings are reasonable; or (c) either party decides to pursue its legal rights in an appropriate forum. The State shall not be responsible for expenses incurred by the Contractor for providing additional information needed to clarify, review or modify the Investment Grade Audit after the initial presentation by the Contractor.

This Agreement in no way binds the State or the Contractor to enter into any future agreement for any purpose.

This Agreement shall become effective and binding upon approval by the New Hampshire Governor and Executive Council pursuant to RSA 4:15.

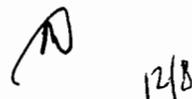
Handwritten signature and date "12/8" in the bottom right corner.

EXHIBIT B

Payment Terms

1. The Investment Grade Audit shall be conducted at the Contractor's own expense.
2. The Contractor shall be solely responsible for any and all costs incurred by the Contractor for work performed by the Contractor in preparation of the Investment Grade Audit prior to the Governor and Executive Council approval of this agreement. The State shall have no obligation to reimburse the Contractor for its expenses relating to the work performed in the preparation of the Investment Grade Audit prior to approval by the Governor and Executive Council.
3. No rebate or incentive amounts or operational or maintenance savings shall be included when calculating ECM costs and savings during the Investment Grade Audit.
4. If the State elects not to proceed after accepting the Contractor's Investment Grade Audit, or if the State and Contractor cannot agree on the contents or manner of incorporation of the Investment Grade Audit within 30 days after its submission, then this Agreement shall terminate and the State shall pay the Contractor \$ 0 as compensation for the preparation of the Investment Grade Audit.
5. If the total energy savings, for the seven buildings evaluated during the proposal stage, set forth in the Investment Grade Audit, are within 15% of the Contractor's original proposal and the State enters into a Performance Contract with the Contractor based on the State's "Model Agreement for Guaranteed Energy Performance," the cost of the Investment Grade Audit shall be included in the cost of the Energy Saving Performance Contract.

Insert Certificate of Authority, SOS Authorization, Certificate of Insurance

CONSOLIDATED EDISON SOLUTIONS, INC.

SECRETARY'S CERTIFICATE

I, Paul F. Mapelli, do hereby certify that I am the Secretary of Consolidated Edison Solutions, Inc. (the "Company").

I further certify that the undersigned officer has been at all times since a date prior to the date of this certificate duly elected or appointed to the office set forth opposite his name, that the signature of such officer shown below is his true and correct signature, and that he is authorized to execute energy services contracts, in amounts not to exceed \$5,000,000, in the name of and on behalf of the Company, including, but not limited to, contracts with the State of New Hampshire Department of Administrative Services.

<u>Name</u>	<u>Title</u>	<u>Signature</u>
Michael Gibson	Vice President, Energy Services	

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of the Company this 8th day of December, 2016.

Paul F. Mapelli

Paul F. Mapelli
Secretary

State of New Hampshire

Department of State

CERTIFICATE

I, William M. Gardner, Secretary of State of the State of New Hampshire, do hereby certify that CONSOLIDATED EDISON SOLUTIONS, INC. is a New York Profit Corporation registered to transact business in New Hampshire on February 06, 2003. I further certify that all fees and documents required by the Secretary of State's office have been received and is in good standing as far as this office is concerned.

Business ID: 428014



IN TESTIMONY WHEREOF,

I hereto set my hand and cause to be affixed
the Seal of the State of New Hampshire,
this 6th day of December A.D. 2016.

A handwritten signature in black ink, appearing to read "William M. Gardner".

William M. Gardner
Secretary of State

Exhibit 1
Energy Savings Guarantee, Measurement and Verification Plan, and Commissioning Procedures

In this Exhibit, document the methods that will be used to calculate energy savings and convert them to cost savings, including the baseline that savings will be measured against and any provisions for modifying the baseline. Information to be provided includes:

1. an Energy Baseline and the methodology used for the calculation of baseline energy consumption;
2. the method to measure energy savings for each energy type after Energy Conservation Measures have been installed;
3. the method to verify Energy Conservation Measures compliance with requirements of Standards of Service and Comfort;
4. the method of determining energy savings and compliance with Standards of Service and Comfort annually throughout the Term; and
5. the utility rate schedules to be used for calculating energy cost savings.

To establish the baseline, provide supporting documentation on:

1. building physical condition;
2. hours of use and occupancy;
3. area of conditioned space;
4. area of unconditioned space;
5. inventory of energy consuming equipment and systems;
6. energy consuming equipment operating conditions and loads;
7. standards of service and comfort observed (e.g. light levels and temperatures).

Indicate the commissioning procedures and performance tests that will be followed for each Energy Conservation Measure, prior to Energy Conservation Measure acceptance, that shall demonstrate full compliance with the design and implementation standards set forth in this Agreement.

Describe the manner in which the Contractor shall secure the energy savings guarantee.

"If the actual savings to the State, as measured according to the agreed-upon Measurement and Verification plan, do not equal or exceed the guaranteed energy savings stated in the Investment Grade Audit, then Contractor shall pay to the state agency the difference between its guaranteed amount of savings and the actual savings achieved, multiplying such shortfall in guaranteed savings by the agreed-upon utility price in the year of such shortfall. Excess annual energy and cost savings obtained by the state agency beyond the Contractor's annual guarantee will not be used as a credit by the Contractor in any previous or subsequent years of the contract term and will not be applied for any shortfall in guaranteed energy or cost savings during the contract term. All energy unit and cost savings derived from the implementation of this project will be retained by the state agency and will not be shared in any capacity."

Annual Potential Savings: These energy savings are the difference between the Baseline energy use and the energy use after implementation of the Energy Conservation Measures. This approach requires the adoption of a measurement and verification protocol for the life of the Agreement.

Annual Guaranteed Savings: The amount of Annual Measurable Savings the Contractor will guarantee is consistently achievable with this Agreement. The Annual Guaranteed Savings will be the basis for financing the Energy Conservation Measures outlined in this Agreement.

The Contractor shall use Form E-2 to show the Annual Potential Savings of all ECMs proposed.

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Form E-2: Summary of Proposed Energy Conservation Measures for Seven Buildings— Cost and Savings
 Specify, for each proposed Energy Conservation Measure, the projected annual energy savings (in units of kWh, kW, Therms, gallons, and dollars).

Measure I.D. Category	Project Costs (\$)		Annual Savings				Simple Payback (No Financing) (A) / (F)
	(A) Total Project Costs	(B) Electric kWh	(C) Electric kW	(D) Natural Gas Therms	(E) Water CCF	(F) Total Savings	
Lighting Systems and Controls	\$818,359	522,282		-7,283		\$49,680	16.5 years
Plug Load Controls	\$26,428	26,639				\$2,810	9.4 years
Building Automated Control Systems	\$188,692	18,639		17,900		\$18,810	10.1 years
Heating, Ventilation, and Air Conditioning	\$1,437,399			162,890		\$153,279	9.4 years
Motors and Drives	\$24,891	7,587		1,252		\$1,979	12.6 years
Building Envelope	\$1,181,904	20,248		32,712		\$32,918	36.0 years
Water Conservation	\$118,584				2,130	\$14,208	8.4 years
Electric Distribution and Transformers	\$122,427	82,665				\$8,791	14.0 years
Renewable Energy	\$275,879	64,980				\$6,855	40.4 years
Total	\$4,194,563	743,040		207,471	2,130	\$289,330	14.5 years

As noted in the RFP, each Group must meet the 20-year payback requirement on its own. Measures must be easily separated by Group for ease of calculating loan repayments, as each Group makes payments from a separate fund. Please see attached list for a detailed breakdown of measures by building.

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ConEdison Solutions

Group ID	Group A	Facility Name	Main Building	Energy Project Category	Lighting Systems and Controls	ECM No	501	Total Cost	\$468	M/V Cost	\$156,564	Simple Payback (Yrs)	12.35
Measure Description	Main Bldg -- Lighting Systems and Controls												
ECM Cost	\$156,096												
(1)													
Annual Energy Reductions				Annual Energy Additions				Net Reductions				2014 Facility Level Baselines + ECM % Reduct	
Category	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	% Reduct	\$\$	% Reduct
kWh	133,846	456,816	\$14,121	0	0	\$0	133,846	456,816	\$14,121	849,600	15.75%	\$106,629	13.53%
kW	44		\$308	0		\$0	44		\$308	309	14.24%		
Water Ccf	0		\$0	0		\$0	0		\$0	0	#Num!	\$0	#Num!
W/S Ccf	0		\$0	0		\$0	0		\$0	2,786	0.00%	\$56,891	0.00%
NG Therms	0	0	\$0	1,856	185,600	\$1,746	-1,856	-185,600	(\$1,746)	259,408	-0.72%	\$259,408	-0.67%
Steam mlbs	0	0	\$0	0	0	\$0	0	0	\$0	0	#Num!	\$0	#Num!
Chips Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Pellets Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Annual Totals		456,816	\$14,429		185,600	\$1,746		271,216	\$12,682				

Group ID	Group A	Facility Name	Main Building	Energy Project Category	Lighting Systems and Controls	ECM No	502	Total Cost	\$36	M/V Cost	\$12,071	Simple Payback (Yrs)	9.50
Measure Description	Annex SOPs -- Lighting Systems and Controls												
ECM Cost	\$12,035												
(1)													
Annual Energy Reductions				Annual Energy Additions				Net Reductions				2014 Facility Level Baselines + ECM % Reduct	
Category	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	% Reduct	\$\$	% Reduct
kWh	13,515	46,127	\$1,426	0	0	\$0	13,515	46,127	\$1,426	849,600	1.59%	\$106,629	1.36%
kW	3		\$21	0		\$0	3		\$21	309	0.97%		
Water Ccf	0		\$0	0		\$0	0		\$0	0	#Num!	\$0	#Num!
W/S Ccf	0		\$0	0		\$0	0		\$0	2,786	0.00%	\$56,891	0.00%
NG Therms	0	0	\$0	187	18,700	\$176	-187	-18,700	(\$176)	259,408	-0.07%	\$259,408	-0.07%
Steam mlbs	0	0	\$0	0	0	\$0	0	0	\$0	0	#Num!	\$0	#Num!
Chips Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Pellets Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Annual Totals		46,127	\$1,447		18,700	\$176		27,427	\$1,271				

Group ID	Group A	Facility Name	Main Building	Energy Project Category	Lighting Systems and Controls
Measure Description	Howard Rec -- Lighting Systems and Controls				
ECM Cost	\$35,539	M/Y Cost	\$107	Total Cost	\$35,646
					Simple Payback (Yrs)
					12.64

Category	(1) Annual Energy Reductions			(2) Annual Energy Additions			(3) Net Reductions			(4) 2014 Facility Level Baselines + ECM % Reduct			
	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	% Reduct	\$\$	% Reduct
kWh	29,811	101,745	\$3,145	0	0	\$0	29,811	101,745	\$3,145	849,600	3.51%	\$106,629	3.01%
kW	9		\$63	0		\$0	9		\$63	309	2.91%		
Water Ccf	0		\$0	0		\$0	0		\$0	0	#Num!	\$0	#Num!
W/S Ccf	0		\$0	0		\$0	0		\$0	2,786	0.00%	\$56,891	0.00%
NG Therms	0	0	\$0	413	41,300	\$389	-413	-41,300	(\$389)	259,408	-0.16%	\$259,408	-0.15%
Steam mlbs	0	0	\$0	0	0	\$0	0	0	\$0	0	#Num!	\$0	#Num!
Chips Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Pellets Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Annual Totals		101,745	\$3,208		41,300	\$389		60,445	\$2,819				

Group ID	Group A	Facility Name	Main Building	Energy Project Category	Plug-Load Control
Measure Description	Main Bldg -- Plug-Load Control				
ECM Cost	\$7,246	M/Y Cost	\$22	Total Cost	\$7,268
					Simple Payback (Yrs)
					9.54

Category	(1) Annual Energy Reductions			(2) Annual Energy Additions			(3) Net Reductions			(4) 2014 Facility Level Baselines + ECM % Reduct			
	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	% Reduct	\$\$	% Reduct
kWh	7,220	24,642	\$762	0	0	\$0	7,220	24,642	\$762	849,600	0.85%	\$106,629	0.71%
kW	0		\$0	0		\$0	0		\$0	309	0.00%		
Water Ccf	0		\$0	0		\$0	0		\$0	0	#Num!	\$0	#Num!
W/S Ccf	0		\$0	0		\$0	0		\$0	2,786	0.00%	\$56,891	0.00%
NG Therms	0	0	\$0	0	0	\$0	0	0	\$0	259,408	0.00%	\$259,408	0.00%
Steam mlbs	0	0	\$0	0	0	\$0	0	0	\$0	0	#Num!	\$0	#Num!
Chips Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Pellets Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Annual Totals		24,642	\$762		0	\$0		24,642	\$762				

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Group A	Facility Name Main Building	ECM No 507	Energy Project Category Building Automated Control Systems
Measure Description	Building Automation Control System (Steam and hydronic heating zone temperature control with limited setback; HW reset; HW VFD pump control)		
ECM Cost	M/V Cost	Total Cost	Simple Payback (Yrs)
\$55,314	\$166	\$55,480	13.53

Category	(1) Annual Energy Reductions		(2) Annual Energy Additions		(3) Net Reductions		(4) 2014 Facility Level Baselines + ECM % Reduct	
	Units	kBtus	Units	kBtus	Units	kBtus	Units	% Reduct
kWh	0	0	0	0	0	0	849,600	0.00%
kW	0	\$0	0	\$0	0	\$0	309	0.00%
Water Ccf	0	\$0	0	\$0	0	\$0	0	#Num!
W/S Ccf	0	\$0	0	\$0	0	\$0	2,786	0.00%
NG Therms	4,359	\$4,102	0	\$0	4,359	\$4,102	259,408	1.68%
Steam mibs	0	\$0	0	\$0	0	\$0	0	#Num!
Chips Tons	0	\$0	0	\$0	0	\$0		
Pellets Tons	0	\$0	0	\$0	0	\$0		
Annual Totals		\$4,102	0	\$0	4,359,900	\$4,102		

Group A	Facility Name Main Building	ECM No 508	Energy Project Category Heating, Ventilation, and Air Conditioning
Measure Description	Steam trap survey, and repairs. Liberty Gas program pays for 100% of annual survey and 35% of repair costs.		
ECM Cost	M/V Cost	Total Cost	Simple Payback (Yrs)
\$21,584	\$65	\$21,649	4.73

Category	(1) Annual Energy Reductions		(2) Annual Energy Additions		(3) Net Reductions		(4) 2014 Facility Level Baselines + ECM % Reduct	
	Units	kBtus	Units	kBtus	Units	kBtus	Units	% Reduct
kWh	0	0	0	0	0	0	849,600	0.00%
kW	0	\$0	0	\$0	0	\$0	309	0.00%
Water Ccf	0	\$0	0	\$0	0	\$0	0	#Num!
W/S Ccf	0	\$0	0	\$0	0	\$0	2,786	0.00%
NG Therms	4,861	\$4,574	0	\$0	4,861	\$4,574	259,408	1.87%
Steam mibs	0	\$0	0	\$0	0	\$0	0	#Num!
Chips Tons	0	\$0	0	\$0	0	\$0		
Pellets Tons	0	\$0	0	\$0	0	\$0		
Annual Totals		\$4,574	0	\$0	486,100	\$4,574		

Group A	Facility Name	Main Building	ECM No	509	Energy Project Category	Heating, Ventilation, and Air Conditioning
Measure Description	Replace gravity convectors in Rumford, Fisk, Kimball and Chandler wings with hydronic heating system. Cap exhaust risers to attic and close/seal convector units in basement.					
ECM Cost	\$1,341,503	M/V Cost	\$4,025	Total Cost	\$1,345,528	Simple Payback (Yrs)
						10.30

Category	(1) Annual Energy Reductions			(2) Annual Energy Additions			(3) Net Reductions			(4) 2014 Facility Level Baselines + ECM % Reduct			
	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	% Reduct	\$\$	% Reduct
kWh	0	0	\$0	0	0	\$0	0	0	\$0	849,600	0.00%	\$106,629	0.00%
kW	0		\$0	0		\$0	0		\$0	309	0.00%		
Water Ccf	0		\$0	0		\$0	0		\$0	0	#Num!	\$0	#Num!
W/S Ccf	0		\$0	0		\$0	0		\$0	2,786	0.00%	\$56,891	0.00%
NG Therms	138,873	13,887,300	\$130,679	0	0	\$0	138,873	13,887,300	\$130,679	259,408	53.53%	\$259,408	50.38%
Steam milbs	0	0	\$0	0	0	\$0	0	0	\$0	0	#Num!	\$0	#Num!
Chips Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Pellets Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Annual Totals		13,887,300	\$130,679	0	0	\$0	13,887,300	\$130,679					

Group A	Facility Name	Main Building	ECM No	510	Energy Project Category	Building Envelope
Measure Description	Install blown-in cellulose insulation on attic floors; seal attic penetrations. Relocate Admin attic water pipe to 3rd fir ceiling; close and weatherstrip 4th floor door to attic.					
ECM Cost	\$152,546	M/V Cost	\$458	Total Cost	\$153,004	Simple Payback (Yrs)
						8.52

Category	(1) Annual Energy Reductions			(2) Annual Energy Additions			(3) Net Reductions			(4) 2014 Facility Level Baselines + ECM % Reduct			
	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	% Reduct	\$\$	% Reduct
kWh	12,114	41,345	\$1,278	0	0	\$0	12,114	41,345	\$1,278	849,600	1.43%	\$106,629	1.20%
kW	0		\$0	0		\$0	0		\$0	309	0.00%		
Water Ccf	0		\$0	0		\$0	0		\$0	0	#Num!	\$0	#Num!
W/S Ccf	0		\$0	0		\$0	0		\$0	2,786	0.00%	\$56,891	0.00%
NG Therms	17,732	1,773,200	\$16,686	0	0	\$0	17,732	1,773,200	\$16,686	259,408	6.84%	\$259,408	6.43%
Steam milbs	0	0	\$0	0	0	\$0	0	0	\$0	0	#Num!	\$0	#Num!
Chips Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Pellets Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Annual Totals		1,814,545	\$17,964	0	0	\$0	1,814,545	\$17,964					

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Group ID	Group A	Facility Name	Main Building	ECM No	511	Energy Project Category	Building Envelope
Measure Description	Replace Windows in Connector/Chapel wing and Marking Room that were not part of recent window projects. Replace basement windows in occupied wings. Weatherstrip all doors.						
ECM Cost	\$773,290	M/V Cost	\$2,320	Total Cost	\$775,610	Simple Payback (Yrs)	128.59

Category	(1) Annual Energy Reductions			(2) Annual Energy Additions			(3) Net Reductions			(4) 2014 Facility Level Baselines + ECM % Reduct			
	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	% Reduct	\$\$	% Reduct
kWh	3,949	13,478	\$417	0	0	\$0	3,949	13,478	\$417	849,600	0.46%	\$106,629	0.39%
kW	0		\$0	0		\$0	0		\$0	309	0.00%		
Water Ccf	0		\$0	0		\$0	0		\$0	0	#Num!	\$0	#Num!
W/S Ccf	0		\$0	0		\$0	0		\$0	2,786	0.00%	\$56,891	0.00%
NG Therms	5,967	596,700	\$5,615	0	0	\$0	5,967	596,700	\$5,615	259,408	2.30%	\$259,408	2.16%
Steam mlbs	0	0	\$0	0	0	\$0	0	0	\$0	0	#Num!	\$0	#Num!
Chips Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Pellets Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Annual Totals		610,178	\$6,032	0	0	\$0		610,178	\$6,032				

Group ID	Group A	Facility Name	Main Building	ECM No	512	Energy Project Category	Water Conservation
Measure Description	Water Conservation in Main Building						
ECM Cost	\$36,907	M/V Cost	\$111	Total Cost	\$37,018	Simple Payback (Yrs)	4.11

Category	(1) Annual Energy Reductions			(2) Annual Energy Additions			(3) Net Reductions			(4) 2014 Facility Level Baselines + ECM % Reduct			
	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	% Reduct	\$\$	% Reduct
kWh	0	0	\$0	0	0	\$0	0	0	\$0	849,600	0.00%	\$106,629	0.00%
kW	0		\$0	0		\$0	0		\$0	309	0.00%		
Water Ccf	0		\$0	0		\$0	0		\$0	0	#Num!	\$0	#Num!
W/S Ccf	1,355		\$9,011	0		\$0	1,355		\$9,011	2,786	48.64%	\$56,891	15.84%
NG Therms	0	0	\$0	0	0	\$0	0	0	\$0	259,408	0.00%	\$259,408	0.00%
Steam mlbs	0	0	\$0	0	0	\$0	0	0	\$0	0	#Num!	\$0	#Num!
Chips Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Pellets Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Annual Totals		0	\$9,011	0	0	\$0		0	\$9,011				

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Group ID	Group A	Facility Name	Main Building	ECM No	515	Energy Project Category	Electric Distribution System/Transformers
Measure Description	Howard Rec -- Install high efficiency 225 kVA transformer						
ECM Cost	\$19,728	M/W Cost	\$59	Total Cost	\$19,787	Simple Payback (Yrs)	10.71

Category	(1) Annual Energy Reductions			(2) Annual Energy Additions			(3) Net Reductions			(4) 2014 Facility Level Baselines + ECM % Reduct			
	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	% Reduct	\$\$	% Reduct
kWh	17,387	59,342	\$1,834	0	0	\$0	17,387	59,342	\$1,834	849,600	2.05%	\$106,629	1.73%
kW	2		\$14	0		\$0	2		\$14	309	0.65%		
Water Ccf	0		\$0	0		\$0	0		\$0	0	#Num!	\$0	#Num!
W/S Ccf	0		\$0	0		\$0	0		\$0	2,786	0.00%	\$56,891	0.00%
NG Therms	0		\$0	0		\$0	0		\$0	259,408	0.00%	\$259,408	0.00%
Steam mibs	0		\$0	0		\$0	0		\$0	0	#Num!	\$0	#Num!
Chips Tons	0		\$0	0		\$0	0		\$0				
Pellets Tons	0		\$0	0		\$0	0		\$0				
Annual Totals		59,342	\$1,848	0	0	\$0		59,342	\$1,848				

Group ID	Group A	Facility Name	Main Building	ECM No	516	Energy Project Category	Electric Distribution System/Transformers
Measure Description	Annex SOPs -- Install high efficiency 75 kVA transformer						
ECM Cost	\$10,367	M/W Cost	\$31	Total Cost	\$10,398	Simple Payback (Yrs)	14.86

Category	(1) Annual Energy Reductions			(2) Annual Energy Additions			(3) Net Reductions			(4) 2014 Facility Level Baselines + ECM % Reduct			
	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	% Reduct	\$\$	% Reduct
kWh	6,568	22,417	\$693	0	0	\$0	6,568	22,417	\$693	849,600	0.77%	\$106,629	0.66%
kW	1		\$7	0		\$0	1		\$7	309	0.32%		
Water Ccf	0		\$0	0		\$0	0		\$0	0	#Num!	\$0	#Num!
W/S Ccf	0		\$0	0		\$0	0		\$0	2,786	0.00%	\$56,891	0.00%
NG Therms	0		\$0	0		\$0	0		\$0	259,408	0.00%	\$259,408	0.00%
Steam mibs	0		\$0	0		\$0	0		\$0	0	#Num!	\$0	#Num!
Chips Tons	0		\$0	0		\$0	0		\$0				
Pellets Tons	0		\$0	0		\$0	0		\$0				
Annual Totals		22,417	\$700	0	0	\$0		22,417	\$700				

Group ID **Group A** **Facility Name** **Main Building** **ECM No** **517** **Energy Project Category** **Renewable Energy**

Measure Description Install 57kW Solar PV systems to generate renewable electricity. Locate on Howard Rec roof or ground mount.

ECM Cost **\$275,879** **M/V Cost** **\$828** **Total Cost** **\$276,707** **Simple Payback (Yrs)** **40.36**

Category	(1) Annual Energy Reductions		(2) Annual Energy Additions		(3) Net Reductions		(4) 2014 Facility Level Baselines + ECM % Reduct	
	Units	kBtus	Units	kBtus	Units	kBtus	Units	% Reduct
kWh	64,980	221,777	0	0	64,980	221,777	849,600	7.65%
kW	0	\$0	0	\$0	0	\$0	309	0.00%
Water Ccf	0	\$0	0	\$0	0	\$0	0	#Num!
W/S Ccf	0	\$0	0	\$0	0	\$0	2,786	0.00%
NG Therms	0	\$0	0	\$0	0	\$0	259,408	0.00%
Steam milbs	0	\$0	0	\$0	0	\$0	0	#Num!
Chips Tons	0	\$0	0	\$0	0	\$0	0	#Num!
Pellets Tons	0	\$0	0	\$0	0	\$0	0	#Num!
Annual Totals		221,777	0	\$0		221,777		\$6,855

Group ID **Group A** **Facility Name** **Annex - SOPS** **ECM No** **401** **Energy Project Category** **Lighting Systems and Controls**

Measure Description Lighting Systems and Controls (See Main Bldg for cost and savings)

ECM Cost **\$0** **M/V Cost** **\$0** **Total Cost** **\$0** **Simple Payback (Yrs)** **#Num!**

Category	(1) Annual Energy Reductions		(2) Annual Energy Additions		(3) Net Reductions		(4) 2014 Facility Level Baselines + ECM % Reduct	
	Units	kBtus	Units	kBtus	Units	kBtus	Units	% Reduct
kWh	0	0	0	0	0	0	0	#Num!
kW	0	\$0	0	\$0	0	\$0	0	#Num!
Water Ccf	0	\$0	0	\$0	0	\$0	0	#Num!
W/S Ccf	0	\$0	0	\$0	0	\$0	0	#Num!
NG Therms	0	\$0	0	\$0	0	\$0	2,666	0.00%
Steam milbs	0	\$0	0	\$0	0	\$0	0	#Num!
Chips Tons	0	\$0	0	\$0	0	\$0	0	#Num!
Pellets Tons	0	\$0	0	\$0	0	\$0	0	#Num!
Annual Totals		0	0	\$0		0		\$0

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Group ID	Group A	Facility Name	Annex - SOPS	ECM No	402	Energy Project Category	Plug-Load Control
Measure Description	Plug-Load Control (See Main Bldg for cost and savings)						
ECM Cost	\$0	M/Y Cost	\$0	Total Cost	\$0	Simple Payback (Yrs)	#Num!
(1)							
Annual Energy Reductions		Annual Energy Additions		Net Reductions		2014 Facility Level Baselines + ECM % Reduct	
Category	Units	kBtus	\$\$	Units	kBtus	\$\$	Units
kWh	0	0	\$0	0	0	\$0	0
kW	0		\$0	0		\$0	0
Water Ccf	0		\$0	0		\$0	0
W/S Ccf	0		\$0	0		\$0	0
NG Therms	0	0	\$0	0	0	\$0	2,666
Steam milbs	0	0	\$0	0	0	\$0	0
Chips Tons	0	0	\$0	0	0	\$0	0
Pellets Tons	0	0	\$0	0	0	\$0	0
Annual Totals	0	0	\$0	0	0	\$0	0
(2)							
Annual Energy Reductions		Annual Energy Additions		Net Reductions		2014 Facility Level Baselines + ECM % Reduct	
Category	Units	kBtus	\$\$	Units	kBtus	\$\$	Units
kWh	0	0	\$0	0	0	\$0	0
kW	0		\$0	0		\$0	0
Water Ccf	0		\$0	0		\$0	0
W/S Ccf	0		\$0	0		\$0	0
NG Therms	0	0	\$0	0	0	\$0	0.00%
Steam milbs	0	0	\$0	0	0	\$0	0
Chips Tons	0	0	\$0	0	0	\$0	0
Pellets Tons	0	0	\$0	0	0	\$0	0
Annual Totals	0	0	\$0	0	0	\$0	0
(3)							
Annual Energy Reductions		Annual Energy Additions		Net Reductions		2014 Facility Level Baselines + ECM % Reduct	
Category	Units	kBtus	\$\$	Units	kBtus	\$\$	Units
kWh	0	0	\$0	0	0	\$0	0
kW	0		\$0	0		\$0	0
Water Ccf	0		\$0	0		\$0	0
W/S Ccf	0		\$0	0		\$0	0
NG Therms	69	6,900	\$65	0	0	\$0	2.59%
Steam milbs	0	0	\$0	0	0	\$0	0
Chips Tons	0	0	\$0	0	0	\$0	0
Pellets Tons	0	0	\$0	0	0	\$0	0
Annual Totals	6,900	6,900	\$65	0	0	\$0	6,900
(4)							
Annual Energy Reductions		Annual Energy Additions		Net Reductions		2014 Facility Level Baselines + ECM % Reduct	
Category	Units	kBtus	\$\$	Units	kBtus	\$\$	Units
kWh	0	0	\$0	0	0	\$0	0
kW	0		\$0	0		\$0	0
Water Ccf	0		\$0	0		\$0	0
W/S Ccf	0		\$0	0		\$0	0
NG Therms	0	0	\$0	0	0	\$0	0.00%
Steam milbs	0	0	\$0	0	0	\$0	0
Chips Tons	0	0	\$0	0	0	\$0	0
Pellets Tons	0	0	\$0	0	0	\$0	0
Annual Totals	0	0	\$0	0	0	\$0	0

Group ID	Group A	Facility Name	Annex - SOPS	ECM No	403	Energy Project Category	Building Automated Control Systems
Measure Description	Add steam control valve to Building Automation Control System proposed for Main and Thayer.						
ECM Cost	\$4,149	M/Y Cost	\$12	Total Cost	\$4,161	Simple Payback (Yrs)	64.09
(1)							
Annual Energy Reductions		Annual Energy Additions		Net Reductions		2014 Facility Level Baselines + ECM % Reduct	
Category	Units	kBtus	\$\$	Units	kBtus	\$\$	Units
kWh	0	0	\$0	0	0	\$0	0
kW	0		\$0	0		\$0	0
Water Ccf	0		\$0	0		\$0	0
W/S Ccf	0		\$0	0		\$0	0
NG Therms	69	6,900	\$65	0	0	\$0	2.59%
Steam milbs	0	0	\$0	0	0	\$0	0
Chips Tons	0	0	\$0	0	0	\$0	0
Pellets Tons	0	0	\$0	0	0	\$0	0
Annual Totals	6,900	6,900	\$65	0	0	\$0	6,900
(2)							
Annual Energy Reductions		Annual Energy Additions		Net Reductions		2014 Facility Level Baselines + ECM % Reduct	
Category	Units	kBtus	\$\$	Units	kBtus	\$\$	Units
kWh	0	0	\$0	0	0	\$0	0
kW	0		\$0	0		\$0	0
Water Ccf	0		\$0	0		\$0	0
W/S Ccf	0		\$0	0		\$0	0
NG Therms	0	0	\$0	0	0	\$0	0.00%
Steam milbs	0	0	\$0	0	0	\$0	0
Chips Tons	0	0	\$0	0	0	\$0	0
Pellets Tons	0	0	\$0	0	0	\$0	0
Annual Totals	0	0	\$0	0	0	\$0	0
(3)							
Annual Energy Reductions		Annual Energy Additions		Net Reductions		2014 Facility Level Baselines + ECM % Reduct	
Category	Units	kBtus	\$\$	Units	kBtus	\$\$	Units
kWh	0	0	\$0	0	0	\$0	0
kW	0		\$0	0		\$0	0
Water Ccf	0		\$0	0		\$0	0
W/S Ccf	0		\$0	0		\$0	0
NG Therms	0	0	\$0	0	0	\$0	0.00%
Steam milbs	0	0	\$0	0	0	\$0	0
Chips Tons	0	0	\$0	0	0	\$0	0
Pellets Tons	0	0	\$0	0	0	\$0	0
Annual Totals	0	0	\$0	0	0	\$0	0
(4)							
Annual Energy Reductions		Annual Energy Additions		Net Reductions		2014 Facility Level Baselines + ECM % Reduct	
Category	Units	kBtus	\$\$	Units	kBtus	\$\$	Units
kWh	0	0	\$0	0	0	\$0	0
kW	0		\$0	0		\$0	0
Water Ccf	0		\$0	0		\$0	0
W/S Ccf	0		\$0	0		\$0	0
NG Therms	0	0	\$0	0	0	\$0	0.00%
Steam milbs	0	0	\$0	0	0	\$0	0
Chips Tons	0	0	\$0	0	0	\$0	0
Pellets Tons	0	0	\$0	0	0	\$0	0
Annual Totals	0	0	\$0	0	0	\$0	0

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Group ID	Group A	Facility Name	Annex - SOPS	ECM No	404	Energy Project Category	Heating, Ventilation, and Air Conditioning
Measure Description	Steam trap survey, and repairs. Liberty Gas program pays for 100% of annual survey and 35% of repair costs.						
ECM Cost	\$3,022	M/W Cost	\$9	Total Cost	\$3,031	Simple Payback (Yrs)	18.95

Category	(1) Annual Energy Reductions			(2) Annual Energy Additions			(3) Net Reductions			(4) 2014 Facility Level Baselines + ECM % Reduct						
	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	% Reduct	Units	% Reduct	\$\$	% Reduct	#Num!
kWh	0	0	\$0	0	0	\$0	0	0	\$0	0	0	0	0	\$0	0	#Num!
kW	0		\$0	0		\$0	0		\$0	0		0	0	\$0	0	#Num!
Water Ccf	0		\$0	0		\$0	0		\$0	0		0	0	\$0	0	#Num!
W/S Ccf	0		\$0	0		\$0	0		\$0	0		0	0	\$0	0	#Num!
NG Therms	170	17,000	\$160	0	0	\$0	170	17,000	\$160	0	6.38%	2,666	6.38%	\$2,666	6.00%	#Num!
Steam mibs	0	0	\$0	0	0	\$0	0	0	\$0	0	0	0	0	\$0	0	#Num!
Chips Tons	0	0	\$0	0	0	\$0	0	0	\$0	0	0	0	0	\$0	0	#Num!
Pellets Tons	0	0	\$0	0	0	\$0	0	0	\$0	0	0	0	0	\$0	0	#Num!
Annual Totals		17,000	\$160	0	0	\$0	17,000	17,000	\$160	0		17,000		\$160		

Group ID	Group A	Facility Name	Annex - SOPS	ECM No	405	Energy Project Category	Building Envelope
Measure Description	Install attic insulation and roof slope insulation. Air seal building shell.						
ECM Cost	\$5,877	M/W Cost	\$18	Total Cost	\$5,895	Simple Payback (Yrs)	38.67

Category	(1) Annual Energy Reductions			(2) Annual Energy Additions			(3) Net Reductions			(4) 2014 Facility Level Baselines + ECM % Reduct						
	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	% Reduct	Units	% Reduct	\$\$	% Reduct	#Num!
kWh	0	0	\$0	0	0	\$0	0	0	\$0	0	0	0	0	\$0	0	#Num!
kW	0		\$0	0		\$0	0		\$0	0		0	0	\$0	0	#Num!
Water Ccf	0		\$0	0		\$0	0		\$0	0		0	0	\$0	0	#Num!
W/S Ccf	0		\$0	0		\$0	0		\$0	0		0	0	\$0	0	#Num!
NG Therms	162	16,200	\$152	0	0	\$0	162	16,200	\$152	0	6.08%	2,666	6.08%	\$2,666	5.72%	#Num!
Steam mibs	0	0	\$0	0	0	\$0	0	0	\$0	0	0	0	0	\$0	0	#Num!
Chips Tons	0	0	\$0	0	0	\$0	0	0	\$0	0	0	0	0	\$0	0	#Num!
Pellets Tons	0	0	\$0	0	0	\$0	0	0	\$0	0	0	0	0	\$0	0	#Num!
Annual Totals		16,200	\$152	0	0	\$0	16,200	16,200	\$152	0		16,200		\$152		

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Group ID	Group A	Facility Name	Annex - SOPS	ECM No	406	Energy Project Category	Building Envelope	Simple Payback (Yrs)	229.28
Measure Description	Replace all windows with historically appropriate new windows and install door weatherstrip								
ECM Cost	\$139,391	M/M Cost	\$418	Total Cost	\$139,809				

Category	(1) Annual Energy Reductions			(2) Annual Energy Additions			(3) Net Reductions			(4) 2014 Facility Level Baselines + ECM % Reduct			
	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	% Reduct	\$\$	% Reduct
kWh	0	0	\$0	0	0	\$0	0	0	\$0	0	#Num!	\$0	#Num!
kW	0		\$0	0		\$0	0		\$0	0	#Num!	\$0	#Num!
Water Ccf	0		\$0	0		\$0	0		\$0	0	#Num!	\$0	#Num!
W/S Ccf	0		\$0	0		\$0	0		\$0	0	#Num!	\$0	#Num!
NG Therms	648	64,800	\$610	0	0	\$0	648	64,800	\$610	24.31%	24.31%	\$2,666	22.87%
Steam milbs	0	0	\$0	0	0	\$0	0	0	\$0	0	#Num!	\$0	#Num!
Chips Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Pellets Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Annual Totals		64,800	\$610	0	0	\$0	64,800	\$610					

Group ID	Group A	Facility Name	Annex - SOPS	ECM No	407	Energy Project Category	Water Conservation	Simple Payback (Yrs)	#Num!
Measure Description	Water Conservation (See Main Building; Annex water is on Main meter)								
ECM Cost	\$0	M/M Cost	\$0	Total Cost	\$0				

Category	(1) Annual Energy Reductions			(2) Annual Energy Additions			(3) Net Reductions			(4) 2014 Facility Level Baselines + ECM % Reduct			
	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	% Reduct	\$\$	% Reduct
kWh	0	0	\$0	0	0	\$0	0	0	\$0	0	#Num!	\$0	#Num!
kW	0		\$0	0		\$0	0		\$0	0	#Num!	\$0	#Num!
Water Ccf	0		\$0	0		\$0	0		\$0	0	#Num!	\$0	#Num!
W/S Ccf	0		\$0	0		\$0	0		\$0	0	#Num!	\$0	#Num!
NG Therms	0	0	\$0	0	0	\$0	0	0	\$0	0.00%	0.00%	\$2,666	0.00%
Steam milbs	0	0	\$0	0	0	\$0	0	0	\$0	0	#Num!	\$0	#Num!
Chips Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Pellets Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Annual Totals	0	0	\$0	0	0	\$0	0	0	\$0				

Group ID	Group A	Facility Name	Thayer Hall	Energy Project Category	Lighting Systems and Controls	ECM No	601	MA/Cost	\$310	Total Cost	\$103,707	Simple Payback (Yrs)	9.12
Measure Description	Lighting Systems and Controls												
ECM Cost	\$103,397	MA/Cost	\$310	Total Cost	\$103,707								
(1)													
Annual Energy Reductions				Annual Energy Additions				Net Reductions				2014 Facility Level Baselines + ECM % Reduct	
Category	Units	kBtus	Units	kBtus	Units	kBtus	Units	kBtus	Units	kBtus	Units	% Reduct	% Reduct
kWh	119,199	406,826	0	0	0	0	119,199	406,826	119,199	406,826	270,720	44.03%	35.49%
kW	38	\$393	0	0	0	38	0	\$393	38	0	127	29.92%	
Water Ccf	0	\$0	0	0	0	0	0	\$0	0	0	#Num!	#Num!	#Num!
W/S Ccf	0	\$0	0	0	0	0	0	\$0	0	0	588	0.00%	0.00%
NG Therms	0	\$0	1,695	169,500	\$1,595	-1,695	-169,500	(\$1,595)	76,837	-2.21%	0	#Num!	-2.08%
Steam mibs	0	\$0	0	0	0	0	0	\$0	0	0	0	#Num!	#Num!
Chips Tons	0	\$0	0	0	0	0	0	\$0	0	0			
Pellets Tons	0	\$0	0	0	0	0	0	\$0	0	0			
Annual Totals		\$12,969	406,826	\$12,969	169,500	\$1,595	237,326	\$11,374					

Group ID	Group A	Facility Name	Thayer Hall	Energy Project Category	Plug-Load Control	ECM No	602	MA/Cost	\$13	Total Cost	\$4,410	Simple Payback (Yrs)	12.22
Measure Description	Plug-Load Control												
ECM Cost	\$4,397	MA/Cost	\$13	Total Cost	\$4,410								
(1)													
Annual Energy Reductions				Annual Energy Additions				Net Reductions				2014 Facility Level Baselines + ECM % Reduct	
Category	Units	kBtus	Units	kBtus	Units	kBtus	Units	kBtus	Units	kBtus	Units	% Reduct	% Reduct
kWh	3,420	11,672	0	0	0	3,420	11,672	\$361	3,420	11,672	270,720	1.26%	0.99%
kW	0	\$0	0	0	0	0	0	\$0	0	0	127	0.00%	
Water Ccf	0	\$0	0	0	0	0	0	\$0	0	0	#Num!	#Num!	#Num!
W/S Ccf	0	\$0	0	0	0	0	0	\$0	0	0	588	0.00%	0.00%
NG Therms	0	\$0	0	0	0	0	0	\$0	0	0	76,837	0.00%	0.00%
Steam mibs	0	\$0	0	0	0	0	0	\$0	0	0	0	#Num!	#Num!
Chips Tons	0	\$0	0	0	0	0	0	\$0	0	0			
Pellets Tons	0	\$0	0	0	0	0	0	\$0	0	0			
Annual Totals		\$361	11,672	\$361	0	\$0	11,672	\$361					

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Group A	Facility Name Thayer Hall	ECM No 603	Energy Project Category Building Automated Control Systems
Measure Description	Add steam zone control valves to Building Automation Control System		
ECM Cost	M/V Cost	Total Cost	Simple Payback (Yrs)
\$19,360	\$58	\$19,418	7.90

Category	(1) Annual Energy Reductions			(2) Annual Energy Additions			(3) Net Reductions			(4) 2014 Facility Level Baselines + ECM % Reduct			
	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	% Reduct	\$\$	% Reduct
kWh	0	0	\$0	0	0	\$0	0	0	\$0	270,720	0.00%	\$36,537	0.00%
kW	0		\$0	0		\$0	0		\$0	127	0.00%		
Water Ccf	0		\$0	0		\$0	0		\$0	0	#Num!	\$0	#Num!
W/S Ccf	0		\$0	0		\$0	0		\$0	588	0.00%	\$5,467	0.00%
NG Therms	2,611	261,100	\$2,457	0	0	\$0	2,611	261,100	\$2,457	76,837	3.40%	\$76,837	3.20%
Steam mlbs	0	0	\$0	0	0	\$0	0	0	\$0	0	#Num!	\$0	#Num!
Chips Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Pellets Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Annual Totals		261,100	\$2,457		0	\$0		261,100	\$2,457				

Group A	Facility Name Thayer Hall	ECM No 604	Energy Project Category Heating, Ventilation, and Air Conditioning
Measure Description	Steam trap survey, and repairs. Liberty Gas program pays for 100% of annual survey and 35% of repair costs.		
ECM Cost	M/V Cost	Total Cost	Simple Payback (Yrs)
\$25,901	\$78	\$25,979	3.79

Category	(1) Annual Energy Reductions			(2) Annual Energy Additions			(3) Net Reductions			(4) 2014 Facility Level Baselines + ECM % Reduct			
	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	% Reduct	\$\$	% Reduct
kWh	0	0	\$0	0	0	\$0	0	0	\$0	270,720	0.00%	\$36,537	0.00%
kW	0		\$0	0		\$0	0		\$0	127	0.00%		
Water Ccf	0		\$0	0		\$0	0		\$0	0	#Num!	\$0	#Num!
W/S Ccf	0		\$0	0		\$0	0		\$0	588	0.00%	\$5,467	0.00%
NG Therms	7,291	729,100	\$6,861	0	0	\$0	7,291	729,100	\$6,861	76,837	9.49%	\$76,837	8.93%
Steam mlbs	0	0	\$0	0	0	\$0	0	0	\$0	0	#Num!	\$0	#Num!
Chips Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Pellets Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Annual Totals		729,100	\$6,861		0	\$0		729,100	\$6,861				

Group A Facility Name **Thayer Hall** ECM No **605** Energy Project Category **Building Envelope**
 Measure Description: Install attic insulation and air seal abandoned risers and other vertical basement / attic penetrations.
 ECM Cost **\$68,451** M/W Cost **\$205** Total Cost **\$68,656** Simple Payback (Yrs) **11.81**

Category	(1) Annual Energy Reductions			(2) Annual Energy Additions			(3) Net Reductions			(4) 2014 Facility Level Baselines + ECM % Reduct			
	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	% Reduct	\$\$	% Reduct
kWh	4,185	14,283	\$442	0	0	\$0	4,185	14,283	\$442	270,720	1.55%	\$36,537	1.21%
kW	0		\$0	0		\$0	0		\$0	127	0.00%		
Water Ccf	0		\$0	0		\$0	0		\$0	0	#Num!	\$0	#Num!
W/S Ccf	0		\$0	0		\$0	0		\$0	588	0.00%	\$5,467	0.00%
NG Therms	5,707	570,700	\$5,370	0	0	\$0	5,707	570,700	\$5,370	76,837	7.43%	\$76,837	6.99%
Steam mibs	0	0	\$0	0	0	\$0	0	0	\$0	0	#Num!	\$0	#Num!
Chips Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Pellets Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Annual Totals		584,983	\$5,812	0	0	\$0	584,983	\$5,812					

Group A Facility Name **Thayer Hall** ECM No **606** Energy Project Category **Water Conservation**
 Measure Description: Water Conservation
 ECM Cost **\$40,053** M/W Cost **\$120** Total Cost **\$40,173** Simple Payback (Yrs) **19.81**

Category	(1) Annual Energy Reductions			(2) Annual Energy Additions			(3) Net Reductions			(4) 2014 Facility Level Baselines + ECM % Reduct			
	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	% Reduct	\$\$	% Reduct
kWh	0	0	\$0	0	0	\$0	0	0	\$0	270,720	0.00%	\$36,537	0.00%
kW	0		\$0	0		\$0	0		\$0	127	0.00%		
Water Ccf	0		\$0	0		\$0	0		\$0	0	#Num!	\$0	#Num!
W/S Ccf	305		\$2,028	0		\$0	305		\$2,028	588	51.87%	\$5,467	37.10%
NG Therms	0	0	\$0	0	0	\$0	0	0	\$0	76,837	0.00%	\$76,837	0.00%
Steam mibs	0	0	\$0	0	0	\$0	0	0	\$0	0	#Num!	\$0	#Num!
Chips Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Pellets Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Annual Totals		0	\$2,028	0	0	\$0	0	\$2,028					

FORM E2 - GROUP ID TOTALS Group A

ECM Cost **\$3,411,802** M/W Cost **\$10,237** Total Cost **\$3,422,039** Simple Payback (Yrs) **14.50**

(1) Annual Energy Reductions

Category	Units	kBtus	\$\$
kWh	477,327	1,629,117	\$50,358
kW	104		\$855
Water Ccf	0		\$0
W/S Ccf	1,711		\$11,378
NG Therm	188,450	18,845,000	\$177,331
Steam mlb	0	0	\$0
Chips Tons	0	0.00	\$0
Pellets To	0	0.00	\$0
Annual Totals		20,474,117	\$239,923

(2) Annual Energy Additions

Units	kBtus	\$\$
0	0	\$0
0		\$0
0		\$0
0		\$0
4,151	415,100	\$3,906
0	0	\$0
0	0	\$0
0	0	\$0
0	0	\$0
Annual Totals	415,100	\$3,906

(3) Net Reductions

Units	kBtus	\$\$
477,327	1,629,117	\$50,358
104		\$855
0		\$0
1,711		\$11,378
184,299	18,429,900	\$173,425
0	0	\$0
0	0	\$0
0	0	\$0
0	0	\$0
Annual Totals	20,059,017	\$236,017

(4) 2014 Grand Total Baselines + ECM % Reduct

Units	% Reduct	\$\$	% Reduct
2,361,784	20.21%	\$299,208	17.12%
904	11.50%		
3,981	0.00%	\$8,612	0.00%
4,658	36.73%	\$80,709	14.10%
440,314	41.86%	\$440,822	39.34%
0	#Num!	\$0	#Num!

Group ID Total Cost **\$3,422,039**

Percent of Total **81.34%**

Project Term **20**

Interest Rate **3.000%**

Project Interest **\$1,178,256**

Group ID Total Cost Interest **\$4,600,295**

Net Reductions **\$236,017**

Payback Years **19.49**

PAYBACK YEARS MUST BE 20 YEARS OR LESS

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Group B	Facility Name	State House	ECM No	101	Energy Project Category	Lighting Systems and Controls
Measure Description	Lighting Systems and Controls (See State House Annex for electric savings and cost)					
ECM Cost	\$0	M/Y Cost	\$0	Total Cost	\$0	Simple Payback (Yrs)
						0.00

Category	(1) Annual Energy Reductions			(2) Annual Energy Additions			(3) Net Reductions			(4) 2014 Facility Level Baselines + ECM % Reduct				
	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	% Reduct	\$\$	% Reduct	#Num!
kWh	0	0	\$0	0	0	\$0	0	0	\$0	0	#Num!	\$0		
kW	0		\$0	0		\$0	0		\$0	0	#Num!			
Water Ccf	0		\$0	0		\$0	0		\$0	0	0.00%	\$7,914	0.00%	
W/S Ccf	0		\$0	0		\$0	0		\$0	0	0.00%	\$5,704	0.00%	
NG Therms	0	0	\$0	1,332	133,200	\$1,253	-1,332	-133,200	(\$1,253)	44,873	-2.97%	\$44,873	-2.79%	
Steam mibs	0	0	\$0	0	0	\$0	0	0	\$0	0	#Num!	\$0		
Chips Tons	0	0	\$0	0	0	\$0	0	0	\$0	0				
Pellets Tons	0	0	\$0	0	0	\$0	0	0	\$0	0				
Annual Totals		0	\$0		133,200	\$1,253		-133,200	(\$1,253)					

Group B	Facility Name	State House	ECM No	102	Energy Project Category	Plug-Load Control
Measure Description	Plug-Load Control (See State House Annex for savings and cost)					
ECM Cost	\$0	M/Y Cost	\$0	Total Cost	\$0	Simple Payback (Yrs)
						#Num!

Category	(1) Annual Energy Reductions			(2) Annual Energy Additions			(3) Net Reductions			(4) 2014 Facility Level Baselines + ECM % Reduct				
	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	% Reduct	\$\$	% Reduct	#Num!
kWh	0	0	\$0	0	0	\$0	0	0	\$0	0	#Num!	\$0		
kW	0		\$0	0		\$0	0		\$0	0	#Num!			
Water Ccf	0		\$0	0		\$0	0		\$0	0	0.00%	\$7,914	0.00%	
W/S Ccf	0		\$0	0		\$0	0		\$0	0	0.00%	\$5,704	0.00%	
NG Therms	0	0	\$0	0	0	\$0	0	0	\$0	44,873	0.00%	\$44,873	0.00%	
Steam mibs	0	0	\$0	0	0	\$0	0	0	\$0	0	#Num!	\$0		
Chips Tons	0	0	\$0	0	0	\$0	0	0	\$0	0				
Pellets Tons	0	0	\$0	0	0	\$0	0	0	\$0	0				
Annual Totals		0	\$0		0	\$0		0	\$0					

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Group B	Facility Name State House	ECM No 103	Energy Project Category Building Automated Control Systems
Measure Description	Retrocommission Building Automation Control System and local heating controls; add exhaust fan controls.		
ECM Cost	M/V Cost	Total Cost	Simple Payback (Yrs)
\$20,743	\$62	\$20,805	8.87

Category	(1) Annual Energy Reductions			(2) Annual Energy Additions			(3) Net Reductions			(4) 2014 Facility Level Baselines + ECM % Reduct						
	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	% Reduct	#Num!	Units	% Reduct	#Num!	
kWh	0	0	\$0	0	0	\$0	0	0	\$0	0			0			
kW	0		\$0	0		\$0	0		\$0	0			0			
Water Ccf	0		\$0	0		\$0	0		\$0	0			3,751	0.00%		
W/S Ccf	0		\$0	0		\$0	0		\$0	0			443	0.00%		
NG Therms	2,494	249,400	\$2,347	0	0	\$0	2,494	249,400	\$2,347	0			44,873	5.56%		
Steam mibs	0	0	\$0	0	0	\$0	0	0	\$0	0			0			
Chips Tons	0	0	\$0	0	0	\$0	0	0	\$0	0						
Pellets Tons	0	0	\$0	0	0	\$0	0	0	\$0	0						
Annual Totals		249,400	\$2,347		0	\$0		249,400	\$2,347							

Group B	Facility Name State House	ECM No 104	Energy Project Category Heating, Ventilation, and Air Conditioning
Measure Description	Steam trap survey, and repairs. Liberty Gas program pays for 100% of annual survey and 35% of repair costs.		
ECM Cost	M/V Cost	Total Cost	Simple Payback (Yrs)
\$10,861	\$33	\$10,894	3.44

Category	(1) Annual Energy Reductions			(2) Annual Energy Additions			(3) Net Reductions			(4) 2014 Facility Level Baselines + ECM % Reduct						
	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	% Reduct	#Num!	Units	% Reduct	#Num!	
kWh	0	0	\$0	0	0	\$0	0	0	\$0	0			0			
kW	0		\$0	0		\$0	0		\$0	0			0			
Water Ccf	0		\$0	0		\$0	0		\$0	0			3,751	0.00%		
W/S Ccf	0		\$0	0		\$0	0		\$0	0			443	0.00%		
NG Therms	3,361	336,100	\$3,163	0	0	\$0	3,361	336,100	\$3,163	0			44,873	7.49%		
Steam mibs	0	0	\$0	0	0	\$0	0	0	\$0	0			0			
Chips Tons	0	0	\$0	0	0	\$0	0	0	\$0	0						
Pellets Tons	0	0	\$0	0	0	\$0	0	0	\$0	0						
Annual Totals		336,100	\$3,163		0	\$0		336,100	\$3,163							

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Group ID	Group B	Facility Name	State House	ECM No	105	Energy Project Category	Premium Efficiency Motors and VFDs	Simple Payback (Yrs)	0.00	
Measure Description	Premium Efficiency Motors and Variable Frequency Drives (See State House Annex for electric savings and cost)									
ECM Cost	\$0	M/Y Cost	\$0	Total Cost	\$0					
(1)										
Annual Energy Reductions			Annual Energy Additions			Net Reductions			2014 Facility Level Baselines + ECM % Reduct	
Category	Units	kBtus	Units	kBtus	Units	kBtus	Units	% Reduct	Units	% Reduct
kWh	0	0	0	0	0	0	0	\$0	0	#Num!
kW	0	0	0	0	0	0	0	\$0	0	#Num!
Water Ccf	0	0	0	0	0	0	0	\$0	3,751	0.00%
W/S Ccf	0	0	0	0	0	0	0	\$0	443	0.00%
NG Therms	659	65,900	0	0	659	65,900	0	\$620	44,873	1.47%
Steam mibs	0	0	0	0	0	0	0	\$0	0	#Num!
Chips Tons	0	0	0	0	0	0	0	\$0		
Pellets Tons	0	0	0	0	0	0	0	\$0		
Annual Totals		65,900	0	0		65,900		\$620		

Group ID	Group B	Facility Name	State House	ECM No	106	Energy Project Category	Building Envelope	Simple Payback (Yrs)	17.55	
Measure Description	Air seal penetrations from conditioned space into attic and improve attic insulation									
ECM Cost	\$31,978	M/Y Cost	\$96	Total Cost	\$32,074					
(1)										
Annual Energy Reductions			Annual Energy Additions			Net Reductions			2014 Facility Level Baselines + ECM % Reduct	
Category	Units	kBtus	Units	kBtus	Units	kBtus	Units	% Reduct	Units	% Reduct
kWh	0	0	0	0	0	0	0	\$0	0	#Num!
kW	0	0	0	0	0	0	0	\$0	0	#Num!
Water Ccf	0	0	0	0	0	0	0	\$0	3,751	0.00%
W/S Ccf	0	0	0	0	0	0	0	\$0	443	0.00%
NG Therms	1,942	194,200	0	0	1,942	194,200	0	\$1,827	44,873	4.33%
Steam mibs	0	0	0	0	0	0	0	\$0	0	#Num!
Chips Tons	0	0	0	0	0	0	0	\$0		
Pellets Tons	0	0	0	0	0	0	0	\$0		
Annual Totals		194,200	0	0		194,200		\$1,827		

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Group ID	Group B	Facility Name	State House	Energy Project Category	Water Conservation
Measure Description					
ECM Cost	\$22,348	M/V Cost	\$67	Total Cost	\$22,415
				Simple Payback (Yrs)	13.06

Category	(1) Annual Energy Reductions			(2) Annual Energy Additions			(3) Net Reductions			(4) 2014 Facility Level Baselines + ECM % Reduct				
	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	% Reduct	Units	% Reduct	#Num!
kWh	0	0	\$0	0	0	\$0	0	0	\$0	0	0	0	0	#Num!
kW	0		\$0	0		\$0	0		\$0	0		0		#Num!
Water Ccf	0		\$0	0		\$0	0		\$0	0		3,751	0.00%	0.00%
W/S Ccf	258		\$1,716	0		\$0	258		\$1,716	0		443	58.24%	30.08%
NG Therms	0	0	\$0	0	0	\$0	0	0	\$0	0	0	44,873	0.00%	0.00%
Steam milbs	0	0	\$0	0	0	\$0	0	0	\$0	0	0	0	#Num!	#Num!
Chips Tons	0	0	\$0	0	0	\$0	0	0	\$0	0	0			
Pellets Tons	0	0	\$0	0	0	\$0	0	0	\$0	0	0			
Annual Totals		0	\$1,716		0	\$0		0	\$1,716		0			

Group ID	Group B	Facility Name	State House Annex	Energy Project Category	Lighting Systems and Controls
Measure Description					
ECM Cost	\$260,967	M/V Cost	\$783	Total Cost	\$261,750
				Simple Payback (Yrs)	29.53

Category	(1) Annual Energy Reductions			(2) Annual Energy Additions			(3) Net Reductions			(4) 2014 Facility Level Baselines + ECM % Reduct				
	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	% Reduct	Units	% Reduct	#Num!
kWh	93,832	320,249	\$9,899	0	0	\$0	93,832	320,249	\$9,899	1,147,384	8.18%			
kW	27		\$189	0		\$0	27		\$189	432	6.25%			
Water Ccf	0		\$0	0		\$0	0		\$0	0	#Num!			#Num!
W/S Ccf	0		\$0	0		\$0	0		\$0	507	0.00%			0.00%
NG Therms	0	0	\$0	1,301	130,100	\$1,224	-1,301	-130,100	(\$1,224)	64,213	-2.03%			-1.91%
Steam milbs	0	0	\$0	0	0	\$0	0	0	\$0	0	#Num!			#Num!
Chips Tons	0	0	\$0	0	0	\$0	0	0	\$0					
Pellets Tons	0	0	\$0	0	0	\$0	0	0	\$0					
Annual Totals		320,249	\$10,088		130,100	\$1,224		190,149	\$8,864					

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Group ID	Group B	Facility Name	State House Annex	ECM No	202	Energy Project Category	Lighting Systems and Controls
Measure	Lighting Systems and Controls -- Located in State House						
Description							
ECM Cost	\$160,593	M/W Cost	\$482	Total Cost	\$161,075	Simple Payback (Yrs)	15.57
(1)							
Annual Energy Reductions		Annual Energy Additions		Net Reductions		2014 Facility Level Baselines + ECM % Reduct	
Category	Units	kBtus	Units	kBtus	Units	% Reduct	% Reduct
kWh	96,070	327,887	0	0	96,070	8.37%	7.27%
kW	30	\$210	0	\$0	30	6.94%	
Water Ccf	0	\$0	0	\$0	0	#Num!	#Num!
W/S Ccf	0	\$0	0	\$0	0	0.00%	0.00%
NG Therms	0	\$0	0	\$0	0	0.00%	0.00%
Steam mlbs	0	\$0	0	\$0	0	#Num!	#Num!
Chips Tons	0	\$0	0	\$0	0		
Pellets Tons	0	\$0	0	\$0	0		
Annual Totals		327,887	0	\$0	327,887		\$142,332

Group ID	Group B	Facility Name	State House Annex	ECM No	203	Energy Project Category	Plug-Load Control
Measure	Plug-Load Control						
Description							
ECM Cost	\$6,466	M/W Cost	\$19	Total Cost	\$6,485	Simple Payback (Yrs)	12.12
(1)							
Annual Energy Reductions		Annual Energy Additions		Net Reductions		2014 Facility Level Baselines + ECM % Reduct	
Category	Units	kBtus	Units	kBtus	Units	% Reduct	% Reduct
kWh	5,073	17,314	0	0	5,073	0.44%	0.38%
kW	0	\$0	0	\$0	0	0.00%	
Water Ccf	0	\$0	0	\$0	0	#Num!	#Num!
W/S Ccf	0	\$0	0	\$0	0	0.00%	0.00%
NG Therms	0	\$0	0	\$0	0	0.00%	0.00%
Steam mlbs	0	\$0	0	\$0	0	#Num!	#Num!
Chips Tons	0	\$0	0	\$0	0		
Pellets Tons	0	\$0	0	\$0	0		
Annual Totals		17,314	0	\$0	17,314		\$142,332

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Group ID	Group B	Facility Name	State House Annex	ECM No	204	Energy Project Category	Plug-Load Control	ECM Cost	\$3,098	M/V Cost	\$9	Total Cost	\$3,107	Simple Payback (Yrs)	6.33	
Measure	Plug-Load Control -- Located in State House															
Description																
(1)																
Annual Energy Reductions				Annual Energy Additions				Net Reductions				2014 Facility Level Baselines + ECM % Reduct				
Category	Units	kBtus	Units	kBtus	Units	kBtus	Units	kBtus	Units	kBtus	Units	% Reduct	Units	% Reduct	\$	% Reduct
kWh	4,655	15,888	0	0	4,655	15,888	0	0	4,655	15,888	0	0.41%	1,147,384	0.41%	\$142,332	0.35%
kW	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	0.00%	432	0.00%	\$0	#Num!
Water Ccf	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	#Num!	0	#Num!	\$0	#Num!
W/S Ccf	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	0.00%	507	0.00%	\$8,003	0.00%
NG Therms	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	0.00%	64,213	0.00%	\$64,213	0.00%
Steam milbs	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	#Num!	0	#Num!	\$0	#Num!
Chips Tons	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0					
Pellets Tons	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0					
Annual Totals		15,888	0	\$0		15,888	0	\$0		15,888	0					

Group ID	Group B	Facility Name	State House Annex	ECM No	205	Energy Project Category	Building Automated Control Systems	ECM Cost	\$41,486	M/V Cost	\$124	Total Cost	\$41,610	Simple Payback (Yrs)	5.76	
Measure	Retrocommission Building Automation Control System and local heating controls; add exhaust fan controls.															
Description																
(1)																
Annual Energy Reductions				Annual Energy Additions				Net Reductions				2014 Facility Level Baselines + ECM % Reduct				
Category	Units	kBtus	Units	kBtus	Units	kBtus	Units	kBtus	Units	kBtus	Units	% Reduct	Units	% Reduct	\$	% Reduct
kWh	18,639	63,615	0	0	18,639	63,615	0	0	18,639	63,615	0	1.62%	1,147,384	1.62%	\$142,332	1.38%
kW	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	0.00%	432	0.00%	\$0	#Num!
Water Ccf	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	#Num!	0	#Num!	\$0	#Num!
W/S Ccf	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	0.00%	507	0.00%	\$8,003	0.00%
NG Therms	5,581	558,100	0	0	5,581	558,100	0	0	5,581	558,100	0	8.69%	64,213	8.69%	\$64,213	8.18%
Steam milbs	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	#Num!	0	#Num!	\$0	#Num!
Chips Tons	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0					
Pellets Tons	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0					
Annual Totals		621,715	0	\$0		621,715	0	\$0		621,715	0					

Group B	Group B	Facility Name	State House Annex	ECM No	206	Energy Project Category	Heating, Ventilation, and Air Conditioning
Measure Description	Steam trap survey, and repairs. Liberty Gas program pays for 100% of annual survey and 35% of repair costs.						
ECM Cost	\$21,131	M/Y Cost	\$63	Total Cost	\$21,194	Simple Payback (Yrs)	3.72

Category	(1) Annual Energy Reductions			(2) Annual Energy Additions			(3) Net Reductions			(4) 2014 Facility Level Baselines + ECM % Reduct			
	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	% Reduct	\$\$	% Reduct
kWh	0	0	\$0	0	0	\$0	0	0	\$0	1,147,384	0.00%	\$142,332	0.00%
kW	0		\$0	0		\$0	0		\$0	432	0.00%		
Water Ccf	0		\$0	0		\$0	0		\$0	0	#Num!	\$0	#Num!
W/S Ccf	0		\$0	0		\$0	0		\$0	507	0.00%	\$8,003	0.00%
NG Therms	6,054	605,400	\$5,697	0	0	\$0	6,054	605,400	\$5,697	64,213	9.43%	\$64,213	8.87%
Steam mlbs	0	0	\$0	0	0	\$0	0	0	\$0	0	#Num!	\$0	#Num!
Chips Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Pellets Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Annual Totals		605,400	\$5,697	0	0	\$0	605,400	\$5,697					

Group B	Group B	Facility Name	State House Annex	ECM No	207	Energy Project Category	Premium Efficiency Motors and VFDs
Measure Description	Premium Efficiency Motors and Variable Frequency Drives -- Located in State House						
ECM Cost	\$24,891	M/Y Cost	\$75	Total Cost	\$24,966	Simple Payback (Yrs)	18.38

Category	(1) Annual Energy Reductions			(2) Annual Energy Additions			(3) Net Reductions			(4) 2014 Facility Level Baselines + ECM % Reduct			
	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	% Reduct	\$\$	% Reduct
kWh	7,587	25,894	\$800	0	0	\$0	7,587	25,894	\$800	1,147,384	0.66%	\$142,332	0.56%
kW	0		\$0	0		\$0	0		\$0	432	0.00%		
Water Ccf	0		\$0	0		\$0	0		\$0	0	#Num!	\$0	#Num!
W/S Ccf	0		\$0	0		\$0	0		\$0	507	0.00%	\$8,003	0.00%
NG Therms	593	59,300	\$558	0	0	\$0	593	59,300	\$558	64,213	0.92%	\$64,213	0.87%
Steam mlbs	0	0	\$0	0	0	\$0	0	0	\$0	0	#Num!	\$0	#Num!
Chips Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Pellets Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Annual Totals		85,194	\$1,358	0	0	\$0	85,194	\$1,358					

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Group ID	Group B	Facility Name	State Library	ECM No	301	Energy Project Category	Lighting Systems and Controls
Measure Description	Lighting Systems and Controls						
ECM Cost	\$89,732	M/W Cost	\$269	Total Cost	\$90,001	Simple Payback (Yrs)	25.16
(1)							
Annual Energy Reductions				Annual Energy Additions			
Category	Units	kBtus	Units	kBtus	Units	kBtus	Units
kWh	36,009	122,899	0	0	36,009	122,899	36,009
kW	24		0		24		24
Water Ccf	0		0		0		0
W/S Ccf	0		0		0		0
NG Therms	0		499	49,900	-499	-49,900	21,348
Steam mlbs	0		0		0		0
Chips Tons	0		0		0		0
Pellets Tons	0		0		0		0
Annual Totals		122,899		\$4,047		49,900	\$470
(2)							
Annual Energy Reductions				Annual Energy Additions			
Category	Units	kBtus	Units	kBtus	Units	kBtus	Units
kWh	94,080	38.27%	122,899	\$3,799	36,009	122,899	36,009
kW	36	66.67%		\$248	24		24
Water Ccf	230	0.00%		\$0	0		0
W/S Ccf	60	0.00%		\$0	0		0
NG Therms	21,348	-2.34%		(\$470)	-499	-49,900	21,348
Steam mlbs	0	#Num!		\$0	0		0
Chips Tons	0			\$0	0		0
Pellets Tons	0			\$0	0		0
Annual Totals				\$3,799		72,999	\$3,578
(3)							
Net Reductions				Net Reductions			
Units	% Reduct	Units	% Reduct	Units	% Reduct	Units	% Reduct
94,080	38.27%	122,899	29.52%	36,009	122,899	36,009	122,899
36	66.67%			24		24	
230	0.00%			0		0	
60	0.00%			0		0	
21,348	-2.34%			-499	-49,900	21,348	-2.20%
0	#Num!			0		0	#Num!
0				0		0	
0				0		0	
Annual Totals							
(4)							
2014 Facility Level Baselines + ECM % Reduct				2014 Facility Level Baselines + ECM % Reduct			
Units	% Reduct	Units	% Reduct	Units	% Reduct	Units	% Reduct
94,080	38.27%	122,899	29.52%	36,009	122,899	36,009	122,899
36	66.67%			24		24	
230	0.00%			0		0	
60	0.00%			0		0	
21,348	-2.34%			-499	-49,900	21,348	-2.20%
0	#Num!			0		0	#Num!
0				0		0	
0				0		0	
Annual Totals							
ECM Cost	\$89,732	M/W Cost	\$269	Total Cost	\$90,001	Simple Payback (Yrs)	25.16

Group ID	Group B	Facility Name	State Library	ECM No	302	Energy Project Category	Plug-Load Control
Measure Description	Plug-Load Control						
ECM Cost	\$3,098	M/W Cost	\$9	Total Cost	\$3,107	Simple Payback (Yrs)	7.65
(1)							
Annual Energy Reductions				Annual Energy Additions			
Category	Units	kBtus	Units	kBtus	Units	kBtus	Units
kWh	3,848	13,133	0	0	3,848	13,133	3,848
kW	0		0		0		0
Water Ccf	0		0		0		0
W/S Ccf	0		0		0		0
NG Therms	0		0		0		0
Steam mlbs	0		0		0		0
Chips Tons	0		0		0		0
Pellets Tons	0		0		0		0
Annual Totals		13,133		\$406		0	\$0
(2)							
Annual Energy Reductions				Annual Energy Additions			
Category	Units	kBtus	Units	kBtus	Units	kBtus	Units
kWh	94,080	4.09%	13,133	\$406	3,848	13,133	3,848
kW	36	0.00%		\$0	0		0
Water Ccf	230	0.00%		\$0	0		0
W/S Ccf	60	0.00%		\$0	0		0
NG Therms	21,348	0.00%		\$0	0		0
Steam mlbs	0	#Num!		\$0	0		0
Chips Tons	0			\$0	0		0
Pellets Tons	0			\$0	0		0
Annual Totals				\$406		13,133	\$406
(3)							
Net Reductions				Net Reductions			
Units	% Reduct	Units	% Reduct	Units	% Reduct	Units	% Reduct
94,080	4.09%	13,133	2.96%	3,848	13,133	3,848	13,133
36	0.00%			0		0	
230	0.00%			0		0	
60	0.00%			0		0	
21,348	0.00%			0		0	
0	#Num!			0		0	#Num!
0				0		0	
0				0		0	
Annual Totals							
(4)							
2014 Facility Level Baselines + ECM % Reduct				2014 Facility Level Baselines + ECM % Reduct			
Units	% Reduct	Units	% Reduct	Units	% Reduct	Units	% Reduct
94,080	4.09%	13,133	2.96%	3,848	13,133	3,848	13,133
36	0.00%			0		0	
230	0.00%			0		0	
60	0.00%			0		0	
21,348	0.00%			0		0	
0	#Num!			0		0	#Num!
0				0		0	
0				0		0	
Annual Totals							
ECM Cost	\$3,098	M/W Cost	\$9	Total Cost	\$3,107	Simple Payback (Yrs)	7.65

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Group ID	Group B	Facility Name	State Library	ECM No	303	Energy Project Category	Building Automated Control Systems	Simple Payback (Yrs)	20.33	
Measure Description	Retrocommission heating system controls.									
ECM Cost	\$13,829	M/Y Cost	\$41	Total Cost	\$13,870					
(1)										
Annual Energy Reductions			(2) Annual Energy Additions			(3) Net Reductions			(4) 2014 Facility Level Baselines + ECM % Reduct	
Category	Units	kBtus	Units	kBtus	Units	kBtus	Units	% Reduct	Units	% Reduct
kWh	0	0	0	\$0	0	0	0	0.00%	94,080	0.00%
kW	0		0	\$0	0		0	0.00%	36	0.00%
Water Ccf	0		0	\$0	0		0	0.00%	230	0.00%
W/S Ccf	0		0	\$0	0		0	0.00%	60	0.00%
NG Therms	725	72,500	0	\$0	725	72,500	0	3.40%	21,348	3.20%
Steam mibs	0	0	0	\$0	0	0	0	#Num!	0	#Num!
Chips Tons	0	0	0	\$0	0	0	0			
Pellets Tons	0	0	0	\$0	0	0	0			
Annual Totals		72,500	0	\$682		72,500	0			\$682

Group ID	Group B	Facility Name	State Library	ECM No	304	Energy Project Category	Heating, Ventilation, and Air Conditioning	Simple Payback (Yrs)	3.37	
Measure Description	Steam trap survey, and repairs. Liberty Gas program pays for 100% of annual survey and 35% of repair costs.									
ECM Cost	\$4,392	M/Y Cost	\$18	Total Cost	\$4,410					
(1)										
Annual Energy Reductions			(2) Annual Energy Additions			(3) Net Reductions			(4) 2014 Facility Level Baselines + ECM % Reduct	
Category	Units	kBtus	Units	kBtus	Units	kBtus	Units	% Reduct	Units	% Reduct
kWh	0	0	0	\$0	0	0	0	0.00%	94,080	0.00%
kW	0		0	\$0	0		0	0.00%	36	0.00%
Water Ccf	0		0	\$0	0		0	0.00%	230	0.00%
W/S Ccf	0		0	\$0	0		0	0.00%	60	0.00%
NG Therms	1,392	139,200	0	\$0	1,392	139,200	0	6.52%	21,348	6.14%
Steam mibs	0	0	0	\$0	0	0	0	#Num!	0	#Num!
Chips Tons	0	0	0	\$0	0	0	0			
Pellets Tons	0	0	0	\$0	0	0	0			
Annual Totals		139,200	0	\$1,310		139,200	0			\$1,310

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Group B	Facility Name State Library	ECM No 305	Energy Project Category Building Envelope
Measure Description	Install airsealing of vertical chases and door weatherstripping.		
ECM Cost	M&V Cost \$31	Total Cost \$10,402	Simple Payback (Yrs) 19.95

Category	(1) Annual Energy Reductions			(2) Annual Energy Additions			(3) Net Reductions			(4) 2014 Facility Level Baselines + ECM % Reduct			
	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	% Reduct	\$\$	% Reduct
kWh	0	0	\$0	0	0	\$0	0	0	\$0	94,080	0.00%	\$13,710	0.00%
kW	0		\$0	0		\$0	0		\$0	36	0.00%		
Water Ccf	0		\$0	0		\$0	0		\$0	230	0.00%	\$698	0.00%
W/S Ccf	0		\$0	0		\$0	0		\$0	60	0.00%	\$2,155	0.00%
NG Therms	554	55,400	\$521	0	0	\$0	554	55,400	\$521	21,348	2.60%	\$21,348	2.44%
Steam milbs	0	0	\$0	0	0	\$0	0	0	\$0	0	#Num!	\$0	#Num!
Chips Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Pellets Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Annual Totals		55,400	\$521	0	0	\$0	55,400	\$521					

Group B	Facility Name State Library	ECM No 306	Energy Project Category Water Conservation
Measure Description	Water Conservation		
ECM Cost	M&V Cost \$19	Total Cost \$6,374	Simple Payback (Yrs) 32.90

Category	(1) Annual Energy Reductions			(2) Annual Energy Additions			(3) Net Reductions			(4) 2014 Facility Level Baselines + ECM % Reduct			
	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	% Reduct	\$\$	% Reduct
kWh	0	0	\$0	0	0	\$0	0	0	\$0	94,080	0.00%	\$13,710	0.00%
kW	0		\$0	0		\$0	0		\$0	36	0.00%		
Water Ccf	0		\$0	0		\$0	0		\$0	230	0.00%	\$698	0.00%
W/S Ccf	28		\$194	0		\$0	28		\$194	60	46.67%	\$2,155	8.99%
NG Therms	0	0	\$0	0	0	\$0	0	0	\$0	21,348	0.00%	\$21,348	0.00%
Steam milbs	0	0	\$0	0	0	\$0	0	0	\$0	0	#Num!	\$0	#Num!
Chips Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Pellets Tons	0	0	\$0	0	0	\$0	0	0	\$0				
Annual Totals		0	\$194	0	0	\$0	0	\$194					

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FORM E2 - GROUP ID TOTALS Group B

ECM Cost **\$732,339**

M/W Cost **\$2,200**

Total Cost **\$734,539**

Simple Payback (Yrs) **14.80**

(1)

Annual Energy Reductions

Category	Units	kBtus	\$\$
kWh	265,713	906,878	\$28,033
kW	81		\$647
Water Ccf	0		\$0
W/S Ccf	286		\$1,909
NG Therm	23,355	2,335,500	\$21,977
Steam milb	0	0	\$0
Chips Tons	0	0.00	\$0
Pellets To	0	0.00	\$0
Annual Totals		3,242,378	\$52,567

(2)

Annual Energy Additions

Units	kBtus	\$\$
0	0	\$0
81		\$0
0		\$0
286		\$0
3,132	313,200	\$2,947
0	0	\$0
0	0	\$0
0	0	\$0
Annual Totals	313,200	\$2,947

(3)

Net Reductions

Units	kBtus	\$\$
265,713	906,878	\$28,033
81		\$647
0		\$0
286		\$1,909
20,223	2,022,300	\$19,030
0	0	\$0
0	0	\$0
0	0	\$0
Annual Totals	2,929,178	\$49,619

(4)

2014 Grand Total Baselines + ECM % Reduct

Units	% Reduct	\$\$	% Reduct
2,361,784	11.25%	\$299,208	9.59%
904	8.96%	\$8,612	0.00%
3,981	0.00%	\$80,709	2.37%
4,658	6.14%	\$440,822	4.32%
440,314	4.59%	\$0	#Num!
0	#Num!		

Group ID Total Cost **\$734,539**

Percent of Total **17.46%**

Project Term **20**

Interest Rate **3.000%**

Project Interest **\$252,912**

Group ID Total Cost Interest **\$987,451**

Net Reductions **\$49,619**

Payback Years **19.90**

PAYBACK YEARS MUST BE 20 YEARS OR LESS

Group ID	Group E	Facility Name	Howard Recreation	ECM No	701	Energy Project Category	Lighting Systems and Controls	ECM Cost	\$0	M/W Cost	\$0	Total Cost	\$0	Simple Payback (Yrs)	#Num!
Measure Description	Lighting Systems and Controls (See Main Bldg; Howard elec loads on Main meter)														
(1)															
Annual Energy Reductions				Annual Energy Additions				Net Reductions				2014 Facility Level Baselines + ECM % Reduct			
Category	Units	kBtus	Units	kBtus	Units	kBtus	Units	kBtus	Units	kBtus	Units	% Reduct	Units	% Reduct	% Reduct
kWh	0	0	0	0	0	0	0	0	0	0	0	\$0	0	#Num!	\$0
kW	0	0	0	0	0	0	0	0	0	0	0	\$0	0	#Num!	\$0
Water Ccf	0	0	0	0	0	0	0	0	0	0	0	\$0	0	#Num!	\$0
W/S Ccf	0	0	0	0	0	0	0	0	0	0	0	\$0	274	0.00%	\$2,489
NG Therms	0	0	0	0	0	0	0	0	0	0	0	\$0	13,884	0.00%	\$13,884
Steam milbs	0	0	0	0	0	0	0	0	0	0	0	\$0	0	#Num!	\$0
Chips Tons	0	0	0	0	0	0	0	0	0	0	0	\$0			
Pellets Tons	0	0	0	0	0	0	0	0	0	0	0	\$0			
Annual Totals	0	0	0	0	0	0	0	0	0	0	0	\$0	0		\$0

Group ID	Group E	Facility Name	Howard Recreation	ECM No	702	Energy Project Category	Plug-Load Control	ECM Cost	\$0	M/W Cost	\$0	Total Cost	\$0	Simple Payback (Yrs)	#Num!
Measure Description	Plug-Load Control (See Main Bldg; Howard elec. loads on Main meter.)														
(1)															
Annual Energy Reductions				Annual Energy Additions				Net Reductions				2014 Facility Level Baselines + ECM % Reduct			
Category	Units	kBtus	Units	kBtus	Units	kBtus	Units	kBtus	Units	kBtus	Units	% Reduct	Units	% Reduct	% Reduct
kWh	0	0	0	0	0	0	0	0	0	0	0	\$0	0	#Num!	\$0
kW	0	0	0	0	0	0	0	0	0	0	0	\$0	0	#Num!	\$0
Water Ccf	0	0	0	0	0	0	0	0	0	0	0	\$0	0	#Num!	\$0
W/S Ccf	0	0	0	0	0	0	0	0	0	0	0	\$0	274	0.00%	\$2,489
NG Therms	0	0	0	0	0	0	0	0	0	0	0	\$0	13,884	0.00%	\$13,884
Steam milbs	0	0	0	0	0	0	0	0	0	0	0	\$0	0	#Num!	\$0
Chips Tons	0	0	0	0	0	0	0	0	0	0	0	\$0			
Pellets Tons	0	0	0	0	0	0	0	0	0	0	0	\$0			
Annual Totals	0	0	0	0	0	0	0	0	0	0	0	\$0	0		\$0

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Group ID	Group E	Facility Name	Howard Recreation	ECM No	703	Energy Project Category	Building Automated Control Systems
Measure	Building Automation Control System (Setback control of six existing steam zones, Optimize OA ventilation control of existing AHUs; repair gym/auditorium unit heaters to support recovery from setback; recommission existing HVAC controls)						
Description							
ECM Cost	\$33,811	M/V Cost	\$101	Total Cost	\$33,912	Simple Payback (Yrs)	17.49
(1)							
Annual Energy Reductions		Annual Energy Additions		Net Reductions		2014 Facility Level Baselines + ECM % Reduct	
Category	Units	kBtus	Units	kBtus	Units	% Reduct	% Reduct
kWh	0	0	0	0	0	0	\$0
kW	0		0		0	#Num!	
Water Ccf	0		0		0	#Num!	\$0
W/S Ccf	0		0		0	#Num!	\$2,489
NG Therms	2,061	206,100	0	0	2,061	0.00%	\$13,884
Steam mlbs	0		0		0	14.84%	\$0
Chips Tons	0		0		0	#Num!	
Pellets Tons	0		0		0	#Num!	
Annual Totals		206,100	0	\$0	206,100		\$1,939

Group ID	Group E	Facility Name	Howard Recreation	ECM No	704	Energy Project Category	Heating, Ventilation, and Air Conditioning
Measure	Steam trap survey, and repairs. Liberty Gas program pays for 100% of annual survey and 35% of repair costs.						
Description							
ECM Cost	\$9,005	M/V Cost	\$27	Total Cost	\$9,032	Simple Payback (Yrs)	10.81
(2)							
Annual Energy Reductions		Annual Energy Additions		Net Reductions		2014 Facility Level Baselines + ECM % Reduct	
Category	Units	kBtus	Units	kBtus	Units	% Reduct	% Reduct
kWh	0	0	0	0	0	0	\$0
kW	0		0		0	#Num!	
Water Ccf	0		0		0	#Num!	\$0
W/S Ccf	0		0		0	#Num!	\$2,489
NG Therms	888	88,800	0	0	888	0.00%	\$13,884
Steam mlbs	0		0		0	6.40%	\$0
Chips Tons	0		0		0	#Num!	
Pellets Tons	0		0		0	#Num!	
Annual Totals		88,800	0	\$836	88,800		\$836

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Group ID: **Group E** Facility Name: **Howard Recreation** Energy Project Category: **Water Conservation** ECM No: **705** Simple Payback (Yrs): **8.29**

Measure Description: **Water Conservation** Total Cost: **\$7,629** M/Y Cost: **\$23**

Category	(1) Annual Energy Reductions			(2) Annual Energy Additions			(3) Net Reductions			(4) 2014 Facility Level Baselines + ECM % Reduct				
	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	kBtus	\$\$	Units	% Reduct	\$\$	% Reduct	#Num!
kWh	0	0	\$0	0	0	\$0	0	0	\$0	0	#Num!	\$0		
kW	0		\$0	0		\$0	0		\$0	0	#Num!			
Water Ccf	0		\$0	0		\$0	0		\$0	0	#Num!	\$0		#Num!
W/S Ccf	133		\$920	0		\$0	133		\$920	0	48.54%	\$2,489	36.98%	36.98%
NG Therms	0	0	\$0	0	0	\$0	0	0	\$0	0	0.00%	\$13,884	0.00%	0.00%
Steam mlbs	0	0	\$0	0	0	\$0	0	0	\$0	0	#Num!	\$0		#Num!
Chips Tons	0	0	\$0	0	0	\$0	0	0	\$0	0				
Pellets Tons	0	0	\$0	0	0	\$0	0	0	\$0	0				
Annual Totals			\$920	0	0	\$0	0	0	\$920	0				

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FORM E2 - GROUP ID TOTALS Group E

ECM Cost **\$50,422**

M/A Cost **\$151**

Total Cost **\$50,573**

Simple Payback (Yrs) **13.69**

(1)

(2)

(3)

(4)

Annual Energy Reductions

Annual Energy Additions

Net Reductions

2014 Grand Total Baselines + ECM % Reduct

Category	Units	kBtus	Units	kBtus	Units	kBtus	Units	% Reduct	Units	% Reduct	Units	% Reduct	Units	% Reduct	Units	% Reduct	Units	% Reduct
kWh	0	0	0	0	0	0	0	0.00%	2,361,784	0.00%	2,361,784	0.00%	2,361,784	0.00%	2,361,784	0.00%	2,361,784	0.00%
kW	0	0	0	0	0	0	0	0.00%	904	0.00%	904	0.00%	904	0.00%	904	0.00%	904	0.00%
Water Ccf	0	0	0	0	0	0	0	0.00%	3,981	0.00%	3,981	0.00%	3,981	0.00%	3,981	0.00%	3,981	0.00%
W/S Ccf	133	920	133	920	133	920	133	2.86%	4,658	2.86%	4,658	2.86%	4,658	2.86%	4,658	2.86%	4,658	1.14%
NG Therm	2,949	294,900	2,949	294,900	2,949	294,900	2,949	0.67%	440,314	0.67%	440,314	0.67%	440,314	0.67%	440,314	0.67%	440,314	0.63%
Steam mib	0	0	0	0	0	0	0	#Num!	0	#Num!	0	#Num!	0	#Num!	0	#Num!	0	#Num!
Chips Tons	0	0.00	0	0.00	0	0.00	0											
Pellets To	0	0.00	0	0.00	0	0.00	0											
Annual Totals		294,900		\$3,695		0		\$0	294,900	\$3,695								

Group ID Total Cost **\$50,573**

Percent of Total **1.20%**

Project Term **20**

Interest Rate **3.000%**

Project Interest **\$17,413**

Group ID Total Cost Interest **\$67,986**

Net Reductions **\$3,695**

Payback Years **18.40**

PAYBACK YEARS MUST BE 20 YEARS OR LESS

FORM E2 - GRAND TOTAL COST, INTEREST, AND PAYBACK YEARS

PAYBACK YEARS MUST BE 20 YEARS OR LESS

Simple Payback In Years	14.54	Grand Total Cost	\$4,207,151	Percent of Total	100.00%	Project Term	20	Interest Rate	3.0000%	Project Interest	\$1,448,581	Grand Total Cost Interest	\$5,655,732	Net Reductions	\$289,332	Payback Years	19.55
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Annual Net Reduction kBTus	23,283,096
Grand Total Baseline kBTus	52,092,169
kBTu Percent Reduction	44.70%

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BPP 2016-18 - Energy Performance Contracting Services for 28 Facilities in Concord, NH - Attachment A - Building Summary														
Department	Building Name	Address	City, St.	Owner	Year Constructed	Renovated	System	Current HVAC System	Current Controls System	Current Lighting Activity	Construction Type	Annual Strain, Electric, HVAC	Annual Strain, Electric, HVAC	Annual Electric, HVAC (kWh)
DAS, General Services	Department of Justice	33 Capitol Street	33 Capitol Street	D	1955		3 Electric Water Heater	(12) Split Systems	Office Space Server RM 114 People	Walls - Drywall interior on 2x6 metal framing w/ R-11 batt insulation, plywood sheathing, & brick siding. Attic blown in insulation. Roof - Flat roof w/ steel structure purlins rigid insulation steel decking and ballast smooth surface membrane. Interior - Original steel double pane glass	Y	1,583 \$	68,084	498,720
DAS, General Services	Johnson Hall	107 Pleasant Street	107 Pleasant Street	F	1927		3 Electric Water Heater	Window Air Conditioners	Office Space Server RM -70 People	Walls - Drywall interior on 2x4 wood framing w/ R-11 batt insulation, plywood sheathing, & brick siding. Attic blown in insulation. Roof - Pitched roof w/ wood framing pine board sheathing and asphalt shingles. Interior - Original wood sash single pane glass	Y	1,185 \$	51,184	134,880
DAS, General Services	Legislative Office Building	33 North State Street	33 North State Street	B	1885		4 Electric Water Heater	Chiller w/2 Air Handlers	Office Space 38 People 400 Visitors	Walls - Drywall interior on 2x4 wood framing w/ R-11 batt insulation, plywood sheathing, & brick face siding. Attic has blown in insulation. Roof - Pitched roof w/ wood framing plywood sheathing felt paper ice & water shield and asphalt shingles. Interior - Annex: Aluminum Frame double pane glass. Original section: wood sash single pane glass.	Y	2,774 \$	118,787	279,740
DAS, General Services	Londregan Hall	101 Pleasant Street	101 Pleasant Street	G	1948		3 Electric Water Heater	Window Air Conditioners	Office Space Server RM 120 People	Walls - Drywall interior on 2x4 wood framing w/ R-11 batt insulation, plywood sheathing, & brick face siding. Attic has blown in insulation. Roof - Pitched roof w/ wood framing plywood sheathing felt paper ice & water shield and asphalt shingles. Interior - Aluminum Frame replacement thermal double pane glass	Y	1,536 \$	66,475	214,920
DAS, General Services	M&S Building	109 Pleasant Street	109 Pleasant Street	B	Renovated 2009		5 Electric Water Heater	(2) RTU's with VAV Boxes	Office Space Server RM 215 People	Finish: Front Entry to Vital Records Granite with Pitched roof/ plywood sheathing with Asphalt Shingles and Skylight. All other roof is rubber membrane. Interior - concrete decking and steel decking. Windows and Doors are aluminum with double pane glass.	Y	2,250 \$	96,711	777,360
DAS, General Services	Records & Archives	71 South Fruit Street	71 South Fruit Street	B	Phase 1 built in 1963/ phase 2 in 1975/ phase 3 1985/ Phase 4 2007		2 Electric Water Heater	(3) RTU's/ 1 With VAVS/ 2 SPLIT SYSTEMS/ 1 REFRIGERATOR COOLER	40 Office Staff/15 Visitors	Walls - Drywall interior on 2x4 wood framing w/ R-11 batt insulation, plywood sheathing, & brick face siding. Roof - Flat roof w/ steel structure purlins rigid insulation steel decking and adhered rolled asphalt surface membrane. Interior Aluminum Frame thermal pane glass.	Y	n/a	n/a	287,960
DAS, General Services	Revenue Administration - 64 South Street	64 South Street	64 South Street	H	1900		3 Electric Water Heater	(4) Package RTU's	Office Space Server RM 120 People 40 Guests	Walls - Drywall interior on 2x4 wood framing w/ R-11 batt insulation, plywood sheathing, & brick face siding. Roof - Flat roof w/ steel structure purlins rigid insulation steel decking and adhered rolled asphalt surface membrane. Interior - Original wood sash single pane glass	Y	1,339 \$	58,058	216,900
DAS, General Services	Spaulding Hall	95 Pleasant Street	95 Pleasant Street	I	1933		4 Electric Water Heater	Window Air Conditioners	Office Space Server RM 100 People	Walls - Drywall interior on 2x4 wood framing w/ R-11 batt insulation, plywood sheathing, & granite face siding. Roof - Flat roof w/ steel structure purlins rigid insulation steel decking and adhered rolled asphalt surface membrane. Interior - Original wood sash single pane glass	Y	475 \$	20,864	302,640
DAS, General Services	State House	107 North Main Street	107 North Main Street	B	1819		4 Electric Water Heater	Window Air Conditioners	Office Space Server RM Cafeteria 100 People 500 Guests	Walls - Drywall interior on 2x4 wood framing w/ R-11 batt insulation, plywood sheathing, & granite face siding. Roof - Flat roof w/ steel structure purlins rigid insulation steel decking and adhered rolled asphalt surface membrane. Interior - Original wood sash single pane glass	Secondary to Statehouse Annex	3,289 \$	141,065	-

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DAS, General Services	State House Annex	25 Capitol Street	76,650	B	Ron White	1938	4 Electric Water Heater	Window Air Conditioners	Office Space 2 - Server RM 270 People	Window Air Conditioners	Walls - Drywall interior on 2x4 wood framing w/ R-11 batt insulation, plywood sheathing, & granite face siding. Roof - Flat roof w/ steel structure purlins rigid insulation concrete decking and adhered steel asphalt surface membrane. Interior - All wall interior - Original wood sash windows.	Primary	4,271 \$	182,069	1,157,200
DAS, General Services	State Library	20 Park Street	38,568	B	Ron White	1895	3 Electric Water Heater	Window Air Conditioners	Office Space Archives RM 40 People	Window Air Conditioners	Walls - Drywall interior on 2x4 wood framing w/ R-11 batt insulation, plywood sheathing, & granite face siding. Roof - Pitched roof w/ wood framing pine board sheathing and asphalt shingles. Flat roof w/ steel structure purlins rigid insulation steel decking and adhered smooth surface membrane. Interior - Original wood sash single pane glass.	Y	197 \$	8,815	93,880
DAS, General Services	Storrs Street Warehouse	12 Hills Ave	46,733	J	Ron White	1938, 2011 Renovated	2 Electric Water Heater	Window Air Conditioners (4) Package RTUs (New)	Office Space Warehouse Print Shop 50 People	Window Air Conditioners (4) Package RTUs (New)	Walls - Drywall interior on 2x4 wood framing w/ R-11 batt insulation, New section foam filled walls, plywood sheathing, & brick face siding. Roof - Flat roof w/ steel structure purlins rigid insulation concrete decking and adhered steel asphalt surface membrane. Flat roof w/ steel structure purlins rigid insulation steel decking and adhered smooth surface membrane. Interior - Original section: wood sash single pane glass, Renovated Section: replacement double pane windows.	Y	650 \$	28,258	408,520
DAS, General Services	Upland Walker House	18 Park Street	4,000	B	Ron White	1891	2 Electric Water Heater	None	Events Meeting Sp.	None	Walls - Drywall interior on 2x4 wood framing w/ R-11 batt insulation in Attic, Plywood sheathing, granite face siding. Pitched roof w/ wood framing plywood sheathing felt paper ice & water shield and asphalt shingles. Interior - Original wood sash single pane glass	Y	184 \$	7,990	9,852
DAS, BFAM	Annex - SOPS	105X Pleasant Street	8,099	A	Andy O'Sullivan	1925	2 Electric	Sanyo ductless splits	State offices 9750 occupied sq. ft. 24 staff	Walls - plaster interior Brick exterior, wood single pane windows.	Secondary to Main Building	139 \$	6,135	-	
DAS, BFAM	Brown Building	129 Pleasant Street	110,000	A	Andy O'Sullivan	1865, renovated 1998	Supplied from Gas Reheat 4 Boiler #3	None	Office space	Walls - Drywall interior on 2x4 Metal stud framing w/ R-11 batt insulation. Brick exterior - Flat roof w/ steel wood deck with steel truss. Rigid insulation and adhered smooth surface membrane, Vinyl replacement windows.	Primary to Grounds Shop, Paint & Carpentry Shop	n/a	n/a	2,035,500	
DAS, BFAM	Dolloff Building	117 Pleasant Street	36,888	A	Andy O'Sullivan	1951	3 Electric	14 (-8000btu) / 8 (8000-16000) / 6 (16000-25000)	Office/training rooms 38,710 occupied sq. ft. 50 staff	Brick, refurbished original windows with thermal pane, new roof with increased insulation	Y	1,805 \$	78,138	148,920	
DAS, BFAM	Grounds Shop	79 South Fruit Street	8,227	A	Andy O'Sullivan	1960	1 Electric	None	Equipment storage and maintenance staff	7 Block, metal roof, 5 overhead doors, Welding shop in building	Secondary to Brown Building	1,832 \$	78,763	-	
DAS, BFAM	Main Building	105 Pleasant Street	300,000	A	Andy O'Sullivan	1909	5 Electric	1) 180 units (-8000btu)/33 units (8000btu-16000btu) / 36 units (16000-25000btu) 2) Sanyo Ductless splits 3) Panasonic ductless splits.	State offices 123,884 occupied sq. ft. approximately 350 staff	Walls - Plaster interior Brick exterior, new vinyl replacement windows in occupied sections, Roofs - asphalt and slate.	Primary	20,872 \$	876,820	852,400	
DAS, BFAM	NH Hospital Laundry	127 Pleasant Street	15,277	A	Andy O'Sullivan	1937	1 Electric	Window Units for Office	Laundry facility for New Hampshire Hospital Occupied sq. ft.	Brick exterior, single pane windows 1930	Secondary to Transportation Garage	3,000 \$	129,976	-	
DAS, BFAM	NHH Warehouse	Pleasant Street	18,096	A	Andy O'Sullivan	1955	1 Electric	None	Storage	Block	Y	543 \$	23,574	5,584	
DAS, BFAM	Paint & Carpentry Shops	Pleasant Street	17,810	A	Andy O'Sullivan	1960	1 Electric	Window AC Units	Painting and carpentry trades located in the building 10,936 occupied sq. ft.	Walls - plaster interior exterior wood siding. Roof asphalt shingle	Secondary to Brown Building	791 \$	34,550	-	
DAS, BFAM	Philbrook Building	121 South Fruit Street	28,275	C	Andy O'Sullivan	1959	2 Gas	Mitsubishi City Multi heat pumps. (Ducted and Ductless units)	State offices for licensing boards.	Walls - Brick exterior drywall interior with foam insulation in walls and overhead. Roof - flat roofs with rigid foam insulation pitched roofs are asphalt and have batt insulation in attic space, renovated in 2013.	Y	800 \$	34,938	252,890	

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DAS, BFAM	Thayer Hall	97 Pleasant Street					1901	3 Electric	1.) Window Units 55 (-8000btu) / 17 (8000-16000 btu) / 12 (16000-25000btu) 2.) Sanyo ductless split systems.	State offices 67156 occupied sq. ft. 173	Walls - Plaster interior Brick exterior, Original single pane windows. Pitched roof material is slate.	Y	5,230 \$	222,268	305,520
DAS, BFAM	Transportation Garage	127A Pleasant Street				1981	1 Electric	None	State auto fleet repair facility 6874 occupied sq. ft.	Steel, Metal roofing and siding, 6 overhead doors, lifts for servicing vehicles	Primary	2,610 \$	111,796	100,310	
DHHS, NH Hospital	Howard Recreation Building	99 Pleasant Street				1955	2 Electric	DX split and window unit	Transitional Housing, Psych	Walls Brick exterior, Roof rigid insulation and adhered smooth surface membrane, single pane windows	Secondary to Main Building	1,008 \$	43,592	-	
DHHS, NH Hospital	Liberty House	119 Pleasant Street				1892	2 Gas	Window units	EAP staff 6	Walls - Plaster wood framing with blown in insulation, plywood sheathing vinyl siding, vinyl replacement windows, vinyl replacement doors and water shield blown in sheath insulation. Vinyl replacement windows	Y	- \$	-	8,782	
DHHS, NH Hospital	Pond Place	125 Pleasant Street				1908	2 Electric	Window units	Transitional Housing, Psych residence	Walls - interior drywall wood framing exterior vinyl siding, Asphalt roof	None?	140 \$	6,123	-	
DHHS, NH Hospital	Twitchell Hall	111 Pleasant Street				1925	1 Electric	Window units	Community Mental Health residence	Walls-Brick exterior, Plaster interior	Y	1,301 \$	56,035	-	
		Total Square Feet										107,045	59,804 \$	2,551,268	8,091,568
													Mlbs		KWh

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462	\$ 142,645	438	\$ 964	-	\$ -	504	\$ 7,861	4,481	\$ 63,775	\$ 207,166	\$ 63,775	1,147,384	431.08	\$ 142,332	438	\$ 946	-	\$ -	507	\$ 8,003	\$ 0.10547	\$ 7.00	\$ 0.941	n/a	\$ 6.65
41	\$ 13,804	-	\$ -	13	\$ 59	58	\$ 2,117	1,500	\$ 21,448	\$ 12,149	\$ 21,348	94,080	86.1	\$ 13,710	-	\$ -	230	\$ 698	60	\$ 2,155	\$ 0.10547	\$ 10.35	\$ 0.941	\$ 2.15	\$ 6.92
126	\$ 53,039	6,353	\$ 6,118	-	\$ -	152	\$ 1,577	575	\$ 8,185	\$ 27,195	\$ 8,185	357,600	110.1	\$ 47,020	3,948	\$ 4,257	-	\$ -	101	\$ 1,345	\$ 0.10547	\$ 10.35	\$ 0.941	n/a	\$ 6.92
9	\$ 1,987	-	\$ -	129	\$ 606	13	\$ 823	138	\$ 1,791	\$ 6,579	\$ 1,791	8,604	6.9	\$ 1,781	-	\$ -	50	\$ 246	51	\$ 944	\$ 0.10547	\$ 10.35	\$ 0.941	\$ 2.42	\$ 6.92
-	\$ -	-	\$ -	-	\$ -	0	\$ -	187	\$ 2,666	\$ 9,081	\$ 2,666	Secondary to Main Building	-	\$ -	-	\$ -	-	\$ -	Secondary to Main Building	\$ 0.10547	\$ 7.00	\$ 0.941	n/a	\$ 6.65	
705	\$ 251,846	64,248	\$ 57,084	-	\$ -	796	\$ 6,209	-	\$ -	\$ -	n/a	1,863,000	687.3	\$ 233,376	59,572	\$ 56,721	-	\$ -	697	\$ 6,207	\$ 0.10547	\$ 7.00	\$ 0.941	n/a	\$ 6.65
61	\$ 19,528	282	\$ 814	-	\$ -	163	\$ 3,550	2,337	\$ 10,108	\$ 109,335	\$ 10,108	150,000	51.1	\$ 19,833	43	\$ 572	-	\$ -	222	\$ 3,889	\$ 0.10547	\$ 10.35	\$ 0.941	n/a	\$ 6.92
-	\$ -	-	\$ -	-	\$ -	-	\$ -	1,713	\$ 14,176	\$ 80,290	\$ 14,176	-	-	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ 0.10547	\$ 7.00	\$ 0.941	n/a	n/a
327	\$ 106,116	-	\$ -	-	\$ -	2819	\$ 56,516	18,228	\$ 259,408	\$ 834,938	\$ 259,408	849,600	308.8	\$ 106,239	-	\$ -	-	\$ -	2786	\$ 56,891	\$ 0.10547	\$ 7.00	\$ 0.941	n/a	\$ 6.65
-	\$ -	10,236	\$ 8,360	-	\$ -	2599	\$ 16,713	2,909	\$ 13,945	\$ 137,025	\$ 13,945	-	-	\$ -	9,090	\$ 8,000	-	\$ -	2476	\$ 16,059	\$ 0.10547	\$ 10.35	\$ 0.941	n/a	\$ 6.65
9	\$ 1,545	-	\$ -	-	\$ -	6	\$ 234	574	\$ 6,694	\$ 27,105	\$ 6,694	5,243	8	\$ 1,487	-	\$ -	-	\$ -	18	\$ 327	\$ 0.10547	\$ 10.35	\$ 0.941	n/a	n/a
-	\$ -	-	\$ -	-	\$ -	117	\$ 867	588	\$ 6,857	\$ 28,232	\$ 6,857	-	-	\$ -	-	\$ -	-	\$ -	109	\$ 810	\$ 0.10547	\$ 7.00	\$ 0.941	n/a	\$ 6.92
81	\$ 35,691	192	\$ 672	-	\$ -	164	\$ 2,770	796	\$ 10,124	\$ 37,859	\$ 10,124	282,700	88	\$ 38,196	435	\$ 934	-	\$ -	228	\$ 3,048	\$ 0.10547	\$ 10.35	\$ 0.941	n/a	\$ 6.92

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