

STATE OF NEW HAMPSHIRE
DEPARTMENT OF ADMINISTRATIVE SERVICES

2018 STATEWIDE ENERGY CONSERVATION PLAN

RSA 21:14-C



Statewide Energy Conservation Plan

RSA 21-I:14-C

JANUARY 15, 2019

In accordance with Revised Statutes Annotated (RSA) 21-I:14-c, Energy Consumption Reduction Goal; Reports, and updated by Executive Order 2016-03, each state department must implement cost-effective measures to reduce aggregate fossil fuel use by 30 percent by 2020 across all its owned facilities on a square-foot basis, as compared to a 2005 baseline. Each state department must submit an annual report to the Department of Administrative Services (DAS) detailing all efficiency measures completed in state-owned buildings within the year as well as potential measures identified to help meet the energy consumption reduction goals. DAS is required to compile all departmental conservation plans to summarize and report on the State's progress toward reaching its fossil fuel reduction goals and identify problems that may prevent the state from achieving these goals. This document is submitted to fulfill DAS's reporting obligation. The State of New Hampshire Fiscal Year 2018 Annual Energy Report provides a summary of the State's progress over the last year, and is included as Appendix C to this report.

State Agency Energy Conservation Plans

Individual agency reports have been received from thirteen of the sixteen large property-owning agencies and institutions (see Appendix A for specific agency plans). Fiscal Year 2018 Agency Conservation Plans were not submitted by Juvenile Justice Services, under the Department of Health and Human Services, Department of Business and Economic Affairs and New Hampshire Hospital. All plans received were reviewed by DAS State Energy Management (SEM) Office staff. Collectively, agencies have identified and proposed an estimated \$31 million¹ dollars' worth of energy efficiency measures to be completed in their efforts to achieve fossil fuel reduction goals for 2020.

Departments listed 83 energy conservation measures completed in FY 2018. Of these measures, agencies were able to provide calculated energy savings for 80 measures. The total cost of completing these 80 measures was approximately \$2.1 million resulting in nearly \$342,000 in annual avoided energy costs and a simple payback of just over 6 years. Many of these measures will remain in state facilities for twenty years or more, adding to additional avoided energy costs over time.

Non-property owning agencies were asked to complete a simplified plan consisting of a one-page summary of the efforts that they have made over the past year to reduce energy consumption along with reduction goals for the upcoming year. Eleven non property-owning agencies were required to submit plans based on the criteria listed in Executive Order 2016-03: agencies that occupy more than 10,000 square feet and those that employ at least 15 people. All eleven non property-owning agencies met their obligation of submitting a completed Energy Conservation Plan for FY 2018. Two main ideas remain consistent throughout non- property-owning agency plans from year to year. First, as tenants in their buildings, non-property-owning agencies see themselves as having limited control over energy efficient capital improvements to the building(s) they occupy. Secondly, these agencies report that they encourage employee behavior change to reduce energy consumption, however they wish there was more they could do to help meet the State's fossil fuel reduction goals. All ideas presented in non-property owners' plans will be passed along to the Agency that owns the building for review and possible implementation. See Appendix B for a list of departments that do not own property and submitted an energy conservation plan.

Past Energy Management Initiatives

The SEM Office was awarded a total of \$500,000 in capital funds for energy efficiency projects in the fiscal biennium 2018/2019. The State Energy Manager and staff attempted to equitably allocate the funds across property-owning departments based on the square footage of building space that each owns, there are over 700 state-owned buildings eligible for efficiency upgrades. At the time of this report, \$360,000 had been expensed on 17 energy efficiency projects resulting in a projected annual savings of \$104,000 in avoided energy costs and a 3.5 year Return On Investment (R.O.I.). Based on a conservative average effective lifespan of 15 years, these 17 completed energy efficiency projects will save the state nearly \$1.2 million in avoided energy costs over their expected lifetimes (at current energy rates).

The SEM Office introduced a pilot initiative in 2015 called the Small Buildings Energy Efficiency Program (SBEEP). This program focused on state-owned buildings across all agencies that are 5,000 square feet or *smaller*. In the past, energy saving opportunities in these smaller buildings tended to be overlooked or postponed due to agencies focusing their limited resources on larger, more energy-intensive facilities. The SBEEP program conducted high-level energy evaluations of qualifying state buildings and provided instant energy savings through turnkey savings measures such as basic LED lighting, spray foam air-sealing of the building envelope, faucet aerators, and appliance timers. Energy management recommendations and efficiency tips were provided to the agency to implement after the visit was completed. During site visits, energy efficiency improvement opportunities were commonly identified that were beyond the scope of SBEEP. Several of these measures have been addressed under a larger capital efficiency project while the remaining was added to a queue of projects to be completed when capital funding becomes available. As of FY 2018, the SBEEP pilot program has exhausted the complete \$7,000 in seed money. SBEEP is estimated to have achieved over \$2,400 in annual energy savings through immediate simple energy improvements and an additional \$15,000 annual energy savings through completed capital-funded energy efficiency improvement projects identified during site visits.

In addition to providing immediate energy savings, a primary goal for SBEEP was to survey the current efficiency status of this class of state-owned facility. Three main areas of deficiency relating to energy efficiency became apparent over the course of this survey:

1. **Lighting:** the majority of these facilities are equipped with antiquated and severely inefficient lighting systems. The SEM office recommends a statewide initiative to upgrade all facility lighting systems to LED with advanced controls to significantly reduce state energy use and improve occupancy safety and comfort.
2. **Heating, Ventilation and Air Conditioning (HVAC):** HVAC systems in these facilities tended to be old, inefficient and difficult to control. The SEM office recommends further study by agencies to prioritize facilities and proactively upgrade the HVAC systems with a focus on efficiency and fossil fuel reductions.
3. **Building envelope:** All facilities visited in the SBEEP program would benefit considerably from weatherization improvements. Cost effective measures such as air sealing and insulation would provide significant energy cost reductions (heating and cooling) as well as increased occupancy comfort year-round. The SEM office recommends a state wide weatherization initiative to provide all agencies easier access to energy audits and building envelope improvements.

In FY 2018, the State was in the early stages of two (2) energy saving performance contracts (ESPC). The first ESPC includes twenty-eight (28) buildings located in downtown Concord and on the State Office Park South. The latest ESPC includes twenty-nine (29) buildings in the Seacoast region belonging to five individual agencies (Department of Administrative Services, Employment Security, Fish & Game Department, Department of Natural & Cultural Resources, and the Department of Transportation). ESPCs

¹ Costs and savings of energy efficiency measures provided by agencies are estimated and do not include new construction projects.

are a way for agencies to implement large scale energy saving measures in their buildings with no up-front capital expenditures. Agencies pay for measures over time from the guaranteed energy savings associated with the projects using their utility budgets. Departments see no difference in their total expenditures because the ESPC payments are offset by reduced energy bills. Construction of the Concord ESPC commenced in FY 2018 and the Seacoast ESPC will likely begin construction in FY 2019.

SEM Staff worked with the US Department of Energy in 2016 to complete an ESPC Champions Toolkit. This toolkit aims to provide agencies with guidance to initiate and lead their own ESPCs. The SEM team remains available to provide technical assistance on ESPCs as they progress. This toolkit is intended to help agencies take ownership of their energy saving projects and in turn, the energy reduction goals outlined in Executive Order 2016-03. The SEM Office continues to refine this toolkit to meet the specific needs of NH state agencies to make the process of ESPCs more approachable and successful. With greater ease of use, this toolkit is intended to free up the time of the minimally staffed SEM Office by encouraging agencies to run their own ESPCs.

In preparation for performance contracting, a facility may elect to defer any energy related upgrades so they can be included in the overall project. Longer payback items are offset by energy measures with quicker paybacks and the blending of these projects helps make the initiative successful.

Future Energy Projects

Based on the information received in FY 2018 individual agency conservation plans, the SEM team has compiled a list of measures proposed by agencies to be pursued in FY 2019 and fiscal biennium FY 2020/21 (see Table 1). This list is by no means exhaustive; however, it does provide some insight to what agencies see as priority energy efficiency improvements needed in their facilities.

Additional efficiency improvements could be completed through energy saving performance contracts. Energy audits and other similar studies also provide tremendous value to agencies by presenting data that helps agencies quantify the benefits of efficiency improvements in their facilities. However, not all benefits are easily quantifiable. Improved Occupancy comfort, increased safety and productivity are all likely benefits of many types of energy improvement projects that may not be reflected in simple payback calculations.

While Table 1 serves as an indication of the amount and type of projects that need to be addressed across the State, situations and technologies change over time and a department's priorities may shift due to these circumstances. The SEM Office supports departments in getting critical projects done quickly and also focuses on projects that maximize energy savings and will provide the most benefit to the State.

Based on information provided by the departments in their plans, it is evident that many are able to find the funding for smaller (under \$50,000) projects, but often struggle to complete projects in the \$100,000 to \$500,000 range. For example, a small lighting retrofit can often be accomplished within the operating budget of a department, but a full facility lighting upgrade can often run several hundred thousand dollars which makes it unattainable within their biennial budget.

The State Energy Management team believes that investments in widespread efficiency initiatives are needed to meet the challenging energy reduction targets outlined in Executive Order 2016-03. The State Energy Manager intends to continue the pursuit of energy saving performance contracts throughout all state agencies. If agencies had expanded access to energy audits, retro-commissioning, energy saving performance contracts, and other tools to gather information about their buildings; significantly more cost-saving measures would be uncovered. At the current rate of addressing these energy inefficiencies, the State is leaving valuable savings on the table. The State is in need of more resources including staff, funding, and education to ensure that cost-effective energy efficiency measures are implemented in a timely manner.

Appendix A: Agency Conservation Plans, Property Owners

1. The State of New Hampshire Adjutant General's Department
2. New Hampshire Department of Administrative Services
3. New Hampshire Employment Security
4. New Hampshire Department of Environmental Services
5. New Hampshire Fish & Game
6. New Hampshire Liquor Commission
7. New Hampshire Police Standards & Training Council
8. New Hampshire Department of Safety
9. New Hampshire Department of Transportation
10. New Hampshire Veterans Home
11. New Hampshire Department of Corrections
12. Department of Health and Human Services - Glenclyff Home
13. Department of Natural and Cultural Resources

Appendix B: Agency Conservation Plans, Non-Property Owners

1. New Hampshire Department of Agriculture, Markets & Food
2. New Hampshire Banking Department
3. Office of Strategic Initiatives
4. Department of Information Technology
5. New Hampshire Insurance Department
6. New Hampshire Department of Justice – Office of the Attorney General
7. New Hampshire Department of Labor
8. New Hampshire Lottery Commission
9. New Hampshire Public Utilities Commission
10. New Hampshire Department of Revenue Administration
11. Department of Education

Appendix C: Fiscal Year 2018 Annual Energy Report

Table 1: Proposed Efficiency Measures for Fiscal 2019/20 (As provided by departments in their agency-level plans)

Agency & Bureau	Measure Description	Building(s) Impacted	Investment Cost	Expected Annual Energy Cost Savings	Simple Payback (Years to Recoup Cost)
Statewide					
	Convert lighting to LED with advanced controls (phase 1)	Various	\$ 4,700,000.00	\$ 670,000.00	7.0
	Building weatherization measures	Various	\$ 4,700,000.00	\$ 940,000.00	5.0
Adjutant General					
	State Microgrid	State Military Reservation	\$ 1,500,000.00	\$ 112,000.00	13.4
	Boiler Plant Improvement/Replace Boiler	Milford Readiness Center	\$ 93,750.00	\$ 5,290.48	17.7
	Comprehensive Lighting Retrofit	Thomas Hall	\$ 8,375.00	\$ 586.74	14.3
	Center Strafford Water Improvements	Training Site Buildings	\$ 500,000.00	\$ 40,000.00	12.5
	Electric Vehicle Charging Station	State Military Reservation	\$ 150,000.00	\$ 16,915.00	8.9
DAS					
	Energy Savings Performance Contract - Concord	28 buildings (DAS General Services, BFAM)	\$ 11,000,000.00	\$ 570,000.00	19.3
DAS - Facilities & Asset Management					
	Air seal and Insulation	Paint and Carpentry building	\$ 30,000.00	\$ 5,000.00	6.0
	LED lighting	Transportation garage	\$ 10,000.00	\$ 2,500.00	4.0
DAS - Court Facilities					
	Energy Savings Performance Contract - Seacoast	Rockingham, Dover, Portsmouth, Rochester	\$ 1,200,000.00	\$ 77,000.00	15.6
	Energy Saving Window Quilts	To Be Determined	\$ 20,000.00	\$ 3,580.00	5.6
	LED Lighting	To Be Determined	\$ 20,000.00	\$ 3,500.00	5.7
Department of Environmental Services					
	2.7 kW PV Array	Pierce Island Air Monitoring Station, Lakeport Caretaker House	\$ 30,000.00	\$ 952.00	31.5
	Building air sealing and insulation	All air monitoring stations	\$ 5,000.00	\$ 500.00	10.0

	Consider replacing sites that do not meet current State of NH energy codes used for long term monitoring with new structures meeting those codes and in potential flood plain area	Keene	\$ 20,000.00	\$ 630.00	31.7
	Install high-efficiency air-source electric pumps	Camp Dodge, Laconia Air Monitoring Stations	\$ 4,200.00	\$ 1,425.76	2.9
	LED bay lights in basement	WRBP Wastewater treatment plant	\$ 10,625.00	\$ 1,428.00	7.4
	LED lighting retrofit - office area	WRBP Laconia Maintenance Shop	\$ 3,280.00	\$ 434.00	7.6
	Window replacement/sealing	WRBP Wastewater treatment plant	\$ 46,675.00	\$ 3,609.20	12.9
	Aeration blower retrofit	WRBP Wastewater treatment plant	\$ 400,000.00	\$ 29,218.00	13.7
	Aeration process valve upgrade	WRBP Wastewater treatment plant	\$ 337,000.00	\$ 60,000.00	5.6
	Energy Audit	WRBP Wastewater treatment plant	To Be Determined		
Department of Natural and Cultural Resources					
	LED lighting	(LFR05) Lake Francis Bathhouse, (NRH01) North Region HQ, (NHQ03) Pole Barn, (CRW06) Wiley House, (FRN01) Flume Visitor Center, Pawtuckaway Admin & Bathhouses, URB01 visitor center	\$ 22,636.00	\$ 3,234.56	7.0
	Pellet Stove & building insulation	(GRN03) Greenfield garage/office	\$ 4,500.00	\$ 597.00	7.5
	Boiler replacement	(COL)01 Admin Building	\$ 3,149.00	\$ 398.00	7.9
	6000btu Mini Split & LED lighting	(BBR15)DD&M Shop	\$ 4,271.00	\$ 1,269.63	3.4
	Solar Photovoltaic & battery system - no grid	PLS01	\$ 5,200.00	\$ 500.00	10.4
	Smart Thermostats	various sites 10	\$ 1,900.00	\$ 597.00	3.2
	evaluate HVAC & T-8 to LED	Coleman Bathhouse	\$ 1,600.00	\$ 420.00	3.8
Department of Transportation					
	Solar Garage Doors	M115	\$ 10,000.00	\$ 1,990.00	5.0
	Furnace repairs	M107W, M105, M102, M101	\$ 11,183.00	\$ 1,194.00	9.4
	Wood Boiler	M124	\$ 24,000.00	\$ 4,975.00	4.8
	Solar Panels	M105	\$ 30,000.00	\$ 2,100.00	14.3
	Tankless Hot Water heater	M125M	\$ 1,200.00	\$ 298.50	4.0
	Wood Boiler	M115	\$ 24,000.00	\$ 4,975.00	4.8
	LED light fixtures	All Buildings	\$ 5,000.00	\$ 932.40	5.4
	Add reflective window coating	All Buildings	\$ 5,000.00	\$ 560.00	8.9

Upgrade ceiling insulation	All Buildings	\$ 10,000.00	\$ 298.50	33.5
Improve weatherization	All Buildings	\$ 5,000.00	\$ 995.00	5.0
Install sub-meters	District 2 Office	\$ 4,000.00	\$ 350.00	11.4
Upgrade windows	D2 Office, 206, 210, 214 (old), 224 (old), Satellite Garage, LRA	\$ 17,000.00	\$ 696.50	24.4
Install Propane water heater	201, 205	\$ 4,000.00	\$ 700.00	5.7
remote control for overhead doors	Multiple locations	\$ 1,500.00	\$ 100.00	15.0
remove skylights, board up end overhead door, replace pass door, upgrade interior lighting	224 (old)	\$ 3,500.00	\$ 350.00	10.0
disable furnace for cellar	SRA	\$ 5,000.00	\$ 547.25	9.1
Install additional window treatments	District 2 Office	\$ 2,500.00	\$ 238.80	10.5
add heating zone	District 2 Office	\$ 3,000.00	\$ 497.50	6.0
new insulation will be installed during reconstruction	310 Warehouse	\$ 2,000.00	\$ 445.00	4.5
install foam insulation, zip board and vinyl siding	District 3 office	\$ 3,000.00	\$ 302.60	9.9
Overhead Door Remotes	All Patrol Sheds	\$ 3,500.00	\$ 398.00	8.8
Reduce Thermostat Temperature	All Buildings	\$ -	\$ 278.60	0.0
Solar Hot Water	District 4 - Shed 401A	\$ 1,371.49	\$ 199.00	6.9
Passive Solar Doors	2 Patrol Sheds	\$ 13,200.00	\$ 3,360.00	3.9
Outdoor Wood Fired Boilers	PS 401A, 403, 404, 405, 408, 409, 410, 411, 412, 413	\$ 250,000.00	\$ 21,320.86	11.7
Building Tune-Ups (clean furnaces)	All	\$ 4,400.00	\$ 490.75	9.0
Replace Overhead Doors	PS516 - Londonderry	\$ 15,000.00	\$ 800.00	18.8
Re-Install outside wood boiler	PS504-Henniker (Salvaged from New PS528)	\$ 5,000.00	\$ 2,985.00	1.7
Insulated windows, wall and ceiling insulation, siding, entry doors	PS515 - Hollis	\$ 25,000.00	\$ 1,600.00	15.6
Energy Savings Performance Contract - Seacoast	District 6 Office, Patrol Sheds 605, 606, 607, 609, 610, 612	TBD		
Annual Furnace Preventive Maintenance	North Hampton, Lancaster, Twin Mountain, Center Ossipee	\$ 1,200.00	\$ 400.00	3.0
Replace old ceiling fans	North Hampton, Lancaster, Twin Mountain, Center Ossipee, Enfield, Swanzey	\$ 3,600.00	\$ 480.00	7.5

	LED Lighting Upgrade	Traffic Pavement Marking (Bldg. B), Replace lights (fluorescent to LED)	\$ 2,000.00	\$ 812.00	2.5
	LED Lighting Upgrade	Traffic Signals Bldg. (Bldg. C) Replace lights (fluorescent to LED)	\$ 400.00	\$ 148.40	2.7
	Heating System Repair	Traffic Pavement Marking Building (building B)	\$ 5,000.00	\$ 624.00	8.0
	Circulation/De-stratification Fan	Traffic Pavement Marking Bldg. (Building B), Add ceiling fan	\$ 1,000.00	\$ 84.24	11.9
Fish & Game					
	LED Lighting upgrade	Headquarters	\$ 4,000.00	\$ 1,246.00	3.2
	Emergency lighting & general energy improvements	several NHFG buildings	\$ 30,000.00	\$ 3,500.00	8.6
	Energy Savings Performance Contract - Seacoast	Great Bay, Region 3 office, Powder Mill Hatchery	\$ 60,000.00	\$ 5,970.00	10.1
Health and Human Services - Glencliff Home					
	Convert LaMott Wing to Pellet Boiler	LaMott Wing	\$ 350,000.00	\$ 18,600.00	18.8
	Convert small out buildings from fossil fuels	Birchwood, Carpenter Shop, Painter Shop, Cottage, Superintendents House	\$ 30,000.00	\$ 2,600.00	11.5
	Continue Replacement of Administration Windows	Administration	\$ 50,000.00	\$ 2,300.00	21.7
	Replace Laundry Washing Machines	Laundry	\$ 50,000.00	\$ 3,100.00	16.1
	Infrastructure improvements to capture additional condensate	Whole campus	\$ 530,000.00	\$ 25,000.00	21.2
	Upgrade Hydro Generator	Whole campus	\$ 350,000.00	\$ 27,000.00	13.0
	Replace Steam Engines with Steam Turbine	Whole campus	\$ 400,000.00	\$ 30,000.00	13.3
	Ongoing campus electrical study for improvements	Whole campus	\$ 62,000.00		
	Replace 143 windows in LaMott Wing	LaMott Wing	\$ 511,000.00	\$ 25,000.00	20.4
	Review and implement electrical study	Whole campus	\$ 600,000.00		
	rebuild prime power generators	Whole campus	\$ 100,000.00	\$ 11,000.00	9.1
Veterans Home					
	Solar Array Upgrades	Veterans Home	\$ -	\$ 14,700.00	0.0
	Kitchen LED Lighting	Veterans Home	\$ 3,500.00	\$ 950.00	3.7
	Kitchen Coolers/Freezers	Veterans Home	\$ 75,000.00	\$ 11,000.00	6.8
Police Standards & Training Council					
	boiler replacement	Main, Tactical	\$ 140,000.00	\$ 10,392.89	13.5

	Domestic Hot Water	Dorm	\$ 20,000.00	\$ 3,120.00	6.4
	Emergency Lights	Main Building, Tactical Center	\$ 580.00	\$ 84.00	6.9
	Exit signs	Main Building, Tactical Center	\$ 748.50	\$ 560.00	1.3
Department of Safety					
	Update HVAC System & Controls & Lighting	Troop C/Keene DMV station	\$ 1,166,500.00	\$ 150,000.00	7.8
	LED Parking light upgrade	Troop A - MV Substation (Epping), Troop E - MV Substation (Tamworth), Troop F - MV Substation (Twin Mountain)	\$ 17,000.00	\$ 3,650.00	4.7
	Building Envelope improvements	Troop A - MV Substation (Epping), Troop E - MV Substation (Tamworth), Troop F - MV Substation (Twin Mountain)	\$ 30,000.00	\$ 6,000.00	5.0
	Update HVAC System & Controls	Troop F - MV Substation (Twin Mountain), Troop G - Aviation, Windham N & S, Warehouse	\$ 230,000.00	\$ 24,100.00	9.5
	Motion Sensors in conference rooms	James Hayes Bldg. - Safety	\$ 2,000.00	\$ 630.00	3.2
	Additional Remote Thermostats	Misc. Buildings	\$ 2,500.00	\$ 500.00	5.0
	Insulate Building	Troop A, Troop E - MV Substation (Tamworth), Troop F - MV Substation (Twin Mountain), Troop D, Dover sub station	\$ 12,500.00	\$ 5,000.00	2.5
	LED Office Lighting Upgrade	Troop A - DMV Substation (Epping), Troop D, Troop E - DMV Substation (Tamworth), Troop F - DMV Substation (Twin Mountain), Troop G - Aviation, Dover DMV Substation	\$ 155,000.00	\$ 27,500.00	5.6
	HVAC and Controls System Upgrade	Fire Academy Dormitory (boiler), Firehouse, Aircraft Facility, storage building, dorm (controls upgrade)	\$ 265,000.00	\$ 23,000.00	11.5
		Totals	\$ 30,771,043.99	\$ 3,046,426.07	10.1

Table 2: Capital Funded Project Summary FY18/19

AGENCY & BUREAU	LOCATION	DESCRIPTION	TOTAL PROJECT COST	CALC. SAVINGS (per year)	YRS. PAYBACK
DAS - General Services					
	Concord Supreme Court	Exterior LED upgrade	\$3,204.51	\$447.81	7.2
	Storrs St. Warehouse	Exterior LED upgrade	\$1,542.99	\$341.11	4.5
	Concord Supreme Court	Exterior LED and building insulation	\$92,000.00	\$17,284.00	5.3
Adjutant General					
	Milford Readiness center	Boiler upgrade	\$60,000.00	\$6,500.00	9.2
DAS - Court Facilities					
	Rockingham courthouse	(2) High efficiency boilers	\$52,000.00	\$10,598.00	4.9
Police Standards & Training Council					
	Tactical Center	replace (2) oil boilers with (1) Rinnai water heater	\$4,000.00	\$681.00	5.9
Department of Corrections					
	Berlin Men's Prison	Outdoor security lighting upgrade	\$46,000.00	\$20,000.00	2.3
Department of Transportation					
	Various sheds	Outdoor wood boilers	\$45,000.00	\$5,000.00	9.0
Department of Natural and Cultural Resources					
	Hampton State Park	replace T12 fixtures with LED	\$7,704.00	\$900.00	8.6
	Coleman State Park	pellet stove insert in fireplace	\$3,693.00	\$600.00	6.2
Department of Safety					
	Safety Automotive garage	upgrade various lighting to LED	\$3,184.60	\$496.08	6.4
	State Warehouse	upgrade various lighting to LED	\$10,542.00	\$1,831.49	5.8
Employment Security					
	Salem office	upgrade all lighting to LED	\$14,462.79	\$2,200.00	6.6
Veterans Home					
	Veterans Home	Boiler conversion to NG	\$38,432.72	\$30,500.00	1.3
Fish & Game					
	Milford Hatchery	LED lighting upgrade (whole building)	\$10,000.00	\$3,119.00	3.2
New Hampshire Hospital					
	APS	VFD motor control Kitchen hood	\$9,352.00	\$2,849.00	3.3
	APS	Additional optical sensors for kitchen hood	\$1,310.00	\$400.00	3.3
Totals			\$402,428.61	\$103,747.49	3.9