

GreenerGovCT
Energy Efficiency Project Team
Meeting # 2: September 25, 2019 1:00pm – 3:30pm

In Attendance:

Joe Danao, DVA	Paul Hinsch, OPM
Ryan Ensling, DEEP	Jon Andrews, DOT
Dan Fisher, DPH	Thomas Levesque, DOC
Mary Soto, DEEP	Don Poulin, DAS
Laura Jovino, Judicial	John Lombardi, UCONN Health
Robert Cody, DESPP	Liz Murphy, UI
Bernie Szreders, DMHAS	Amanda Stevens, UI
Shirin Khan, DVA	Andy Brydges, Eversource

Reading of Previous Minutes/Acceptance of Agenda:

<https://portal.ct.gov/GreenerGov/Project-Teams/Project-Teams-Meeting-Minutes>

Of special note: Wednesday, October 2, 2019 is National Energy Efficiency Day

Review Team Deliverables:

- a. Review of Greener.gov website <https://portal.ct.gov/greenergov>
- b. November 15, 2019 – Develop a suite of sustainable strategies
- c. November 15, 2019 – Identify pilot project or projects to implement one or more sustainable strategies
- d. December 6, 2019 - EnergyCap Level 2 Actions Complete
- e. February 1, 2020 – Interagency Steering Committee report on progress to CT General Assembly
- f. April 2020 – Develop SOPs or contracts for implementing/deploying measures statewide
- g. April 2020 – EnergyCap Level 3 Actions Complete
- h. Ongoing – Make deployment measures replicable and BAU across all state facilities and activities.

Agency briefs - examples of 1 or 2 successful completed energy projects with energy saved data

- DHMAS: Successful lighting conversions to LED, including occupancy sensors. Accomplished through performance contracting, that program is no longer available
- DESPP: Successful lighting conversions. Accomplished through Small Business Energy Advantage (SBEA) program that is no longer available. There were issues with changing technology, there are buildings with a mix of ballast and non-ballast bulbs, but the savings far outweigh the issues.
- DAS/DEEP: Retrofit of DEEP headquarters, including LED, occupancy sensors, daylight harvesting. This project resulted in a 60% savings in energy and extends the life of the bulbs by not operating at 100%.
- DOC: Successful light conversions in their recreation yard and garage as well as some interior rooms which included LEDs and occupancy sensors. DOC was able to utilize in house staff to install the materials to further reduce the payback to only 1.5 years.
- Judicial: Various lighting conversions through Lead by Example, purchasing materials directly from lighting suppliers using point of sale incentives (Upstream Program). Recent exterior lighting conversion using SBEA program that is no longer available. Current BAS upgrade project DAS contract #18PSX0104 *Energy Efficiency Retrofits and Cost Savings Programs for Existing Buildings* using available Agency bond funds.
- DOT: Numerous lighting conversions to both buildings and roadside lighting utilizing three Energize CT incentive and rebate programs, including SBEA, Lead by Example and Energy Conscious Blueprint.
- UCONN Health: Numerous projects included on the attachment provided.

Status of Small Business Energy Advantage Program Master Agreement

SBEA program was very successful. Currently, SBEA has expired, however, a new SBEA Master Agreement is under review with the possibility of increasing the limit to \$1 million per project. The original program had a \$100,000 project limit and for larger Agencies, the limit was met very quickly.

One recommendation from Eversource was for the State to use their purchasing power. Identify five to ten most common LED bulbs and go out to bid for a supplier. This may be a suggestion that is transferred over to the Sustainable Materials Management Team.

Status of State Facility Energy Audits

OPM is developing a list of fifty Executive Branch buildings over 50,000 s.f. for potential energy audits. The audits, whether they are Level 1 or Level 2 audits will use DAS energy contracts. Due to the interagency participation of the Energy Efficiency Team, it was revealed that numerous Agencies have completed energy audits in their buildings and efficiency projects have been completed, are in progress or have been identified and are awaiting funding or project manager personnel.

Subcommittees Meetings 10/24

It was recommended that the project team break into subcommittees to achieve the team goals.

Process Subcommittee: 10/24/19 10am, DEEP Headquarters, Room 6A

- Value stream mapping
- Recommend every agency create a spreadsheet of their facilities that includes:
 - Age, Operation Description, Hours of Operation, Condition, Five year plan

Projects Subcommittee: 10/24/19 1:00 pm, DEEP Headquarters, Holcombe Room

- Identifying pilot projects
- Progress tracking

Next Steps

Team Meeting #3 10/31/19 1:00pm – 3:30pm; DEEP Headquarters, Holcombe Room

A State Sustainability Officer meeting has been scheduled for Friday, 10/4 at 10:00am, DEEP Headquarters. Each team will be providing an update. All project team members are welcome to attend SSO meetings.

UCONN Health
Summary of Retro-Commissioning and Energy Saving Projects

	Project / Initiative	Est. Cost	Projected Annual Utility Savings	Pre-Incentive Simple Payback Period (SPP)	Estimated Completion CY	Status	Pending Action Item	With Incentive		
								Electric LOA	N.Gas LOA	
2018	Complete	\$62,133	\$40,253	1.5	COMPLETE	COMPLETE (100%)	\$26,943 Incentive	N/A	CNG \$26,943	
1	17-021-A	UCHC Bldg D ASB RCx	\$134,734	2.6	COMPLETE	COMPLETE (100%)	Eversource	Eversource CT16-962747 \$85,067.75	CNG QBZF \$7,885	
2	17-021-C	UCHC Bldg R RCx	\$333,000	3.9	2019 Q4	Project to resume in September. (10%) Data Center work partially complete.	JCI	Eversource CT16-962761 \$129,123.97	CNG QBOX \$46,875	
3	19-025-A	Steam Trap Re-Survey	\$6,200	NA	COMPLETE	COMPLETE (100%)	NONE	NA	CNG QVRM \$3,100	
3A	19-025-B	Steam Trap Repairs	\$11,691	\$5,651				NA	CNG QZIB \$8,768	
4	17-021-B	UCHC Bldg S OPP RCx	\$294,700	\$178,401	2020 Q1	Project ON HOLD (90%) Engineering firm to perform code review on proposed design modifications.	Procurement	Eversource CT16-962759 \$237,738.17	CNG QBZN \$15,612	
5	19-021	UCHC Firehouse LED Retrofit	\$12,475	\$7,373	2019 Q3	Work in Progress (50%) Incorrect product was ordered. Waiting on materials.	NEEDCO Lighting Supplier	Eversource CT19-1215876 \$10,771	NA	
6	19-017	UCHC 195 Farmington LED Retrofit	\$95,422	\$18,550	2019 Q3	Work in Progress, (85%) Additional fixtures found. Waiting on additional materials.	NEEDCO Lighting Supplier	Eversource CT19-1216250 \$33,325.29	NA	
7	18-055	UCHC Bldg D ASB 2nd/3rd Floor LED Lighting Retrofit	\$86,492	\$16,716	2019 Q3	Work in Progress (10%) Incorrect product was ordered. Waiting on materials.	NEEDCO Lighting Supplier	Eversource CT19-1216343 \$34,015.41	NA	
8	18-053	UCHC Add Boiler Operator Control Room / Shutoff Cooling	\$30,000	\$11,806	2020 Q1	Need to get proposal for boiler rm office ventilation. Waiting on drawings.	John L.	Eversource CT18-1193961 \$19,400	NA	
9	19-022	UCHC 195 Farmington HVAC Occupancy Controls	\$97,517	\$14,341	2019 Q4	Need revised energy calculations	Gregg	Eversource CT19-1211348 \$682.56	PENDING	
10	18-054	Building T - Setup Occupancy Control Sequences to design intent	\$47,450	\$100,000	2020 Q1	ON HOLD, Need to Fix OR Room Issues	JCI / John Lombardi and team	PENDING	PENDING	
11	19-023	UCHC Street Lighting LED retrofits	\$90,000	TBD	2020 Q1	On Hold, Getting fixture counts	Gregg	PENDING	NA	
12	19-054	MARB OPERATING ROOM Airflow Setback during unoccupied periods	\$75,000	\$14,528	2020 Q1	Investigating Mechanical Upgrades Required to make sequence changes	Gregg	PENDING	PENDING	
13	19-024	Munson Road Lighting Retrofit	TBD	TBD	2020 Q1	Need accurate fixture counts. May need some minor support from lighting designer. Looking at exterior lighting to improve ROI figures.	Gregg	PENDING	NA	
			\$1,376,814	\$545,034	2.5					

FUTURE WORK UNDER STUDY

NEW	Restore lab Fume Hood Occupancy Controls in ARB Building. Rebalance hoods at new Maximum Sash Position.	Pilot - \$10,000	TBD	TBD	Pilot in 2019 Q4	Launch pilot project in 1 or 2 lab areas. Develop larger project for all of ARB.	Gregg
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