### GRAFTON COUNTY COMMISSIONERS' MEETING 3855 Dartmouth College Highway North Haverhill, NH 03774 January 15, 2019

PRESENT: Commissioners Piper and Morris, County Administrator Libby and Administrative Assistant S. Norcross

OTHERS PRESENT: HSA Bishop, Sheriff Stiegler, Captain Kelly, Executive Councilor Mike Cryans, Jack Ruderman - Revision Energy, Supt. Oakes, Elaine Guenet, Dennis McLam, Richard Thompson.

**EXCUSED:** Commissioner Lauer

Commissioner Piper called the meeting to order at 9:00am and began with the Pledge of Allegiance.

HSA Bishop arrived and gave the following report: (\*see attached)

Executive Councilor Mike Cryans arrived to meet with the Commissioners. He stated that he is looking to visit all seven (7) counties in his district to introduce himself. He explained some of his roles as Executive Councilor and discussed the importance of County Government. He gave the Commissioners his contact information and stated that he is available if anyone ever needs to contact him.

Sheriff Stiegler and Captain Kelly arrived to give an update on the Sheriff's Department.

Sheriff Stiegler asked the Commissioners what they are looking for in monthly reports as he is aware it was not a common practice before. He stated that he wants to be involved with the Commissioners and give them monthly updates as he feels it is important to keep them as well as the public updated on what is going on in the Sheriff's Department. He discussed 2018 statistics from the Sheriff's Department with the Commissioners and goals that he has for the department.

Sheriff Stiegler stated that he is a fan of change but not big waves of change. He stated that they received an email from Ford Motor Company regarding their cruisers. The Sheriff's Department currently has medium brown metallic as the color for the cruisers. Ford does not know when they will be producing that color again. Sheriff Stiegler stated he feels that color is becoming less of a demand; he does not believe any other agency in the state is using the brown cruisers. He stated that he wanted to have a group discussion with the Commissioners regarding this issue. He noted that Ford has said they can have black or white cruisers at any time. They ordered two (2) cruisers in August that have not been received, yet, and they are not able to give a delivery date due to not knowing when the medium brown metallic color will be produced. Sheriff Stiegler stated that they polled the deputies and everyone was in agreement that they would like to see black cruisers. He stated that he wants to make the employees happy but also does not want to change an image that people are used to without some discussion. Sheriff Stiegler suggested that they could order these two (2) cruisers they are waiting on in black and he and the Captain could take these two (2) black cruisers as they would be administrative vehicles and would still be concealed more from the line. They could do this for a year and slowly introduce the black cruisers to the public. Commissioner Morris stated that there may be some push back with the

black cars which is why she likes the idea of phasing the new color in. She also stated that something very distinctive is important. Commissioner Piper agreed, stating that black is a bold color and might not be popular with the community but she understands the problem. Captain Kelly stated that their hands may be tied soon if they stop producing the medium brown metallic as the demand is not the same as it once was. He explained that the decal package that they currently have would stay the same. Commissioner Morris stated that she supports the Sheriff in what he feels needs to be done but they need to be ready for some push back. Sheriff Stiegler requested to be on the agenda for next week so they can discuss this issue with Commissioner Lauer before they make a decision.

Sheriff Stiegler submitted an out of state travel request to the Commissioners for Deputy Charette-Combs to attend the Basic Network Investigation Training in Alabama. He explained that this training is sponsored through the U.S Secret Service and Deputy Charette-Combs was the Law Enforcement representative selected for this course work in New Hampshire. The training is needed to establish and maintain necessary certification and competency in the interest of providing the essential services for successful electronic forensic investigations. The U.S Secret Service provides all costs associated with this course including travel. The Grafton County Sheriff's Department is compensating Deputy Charette-Combs for being on duty while he participates and completes this training.

**MOTION:** Commissioner Morris moved to approve the out of state travel. Commissioner Piper seconded the motion and all were in favor.

Supt. Oakes stated that he invited Jack Ruderman to the county to do a high-level presentation of solar systems. He stated that himself, and two (2) of his employees, Richard Thompson and Dennis McLam sat in on a solar energy presentation at an annual training and that is where they met J. Ruderman. He stated that they were impressed with what he had to offer and wanted him to make a presentation to show what they can offer in terms of providing the county with solar energy options. Jack Ruderman gave the attached presentation of solar system options for Grafton County and answered various questions from the group. Commissioner Piper stated that she believes this is the beginning of a big conversation and thanked J. Ruderman for coming in and giving a thorough presentation.

Supt. Oakes gave the following report:

### **COMPLEX**

Utility Power – Experiencing high/fluctuating voltage on one of 3-phase power legs to complex. Woodsville Water & Light (WW&L) adjusted their voltage regulator at their substation in Woodsville. This corrected the issue for a short duration and resumed to be a problem again. This time WW&L replaced a regulator in their substation to correct the problem permanently.

### Generators

Cummins 140 kilowatt (KW) generator serving the barns, Maint. / Farm shop and main sewage pump station. Powers Generator tech said it would be unlikely that we could get parts for this vintage 1963 generator should the demand arise and would should consider replacing it.

- o I had Royal Electric conduct a week-long power analysis to verify what this generator's existing load is so we can properly size a replacement
  - Load analysis results 140 KW (389 amp capacity):
    - 3-phase current load is imbalanced (72/60/41 amps respectively). Need to move circuits among legs to find close balance
    - Operates in a 70 amp Root Means Squared (RMS) average or 26 KW range
    - Experienced frequent in-rush current spikes in the 450 amp range.
       At my request, on 12/19/18 Royal Electric installed soft starters on our 15-HP sewage pump motors to mitigate the in-rush current loads
    - Recommended replacement generator size: 50 KW. This puts existing load above 30% minimum load requirement to preclude annual load banking and allows capacity for future expansion.
- Onan 6.5 KW generator serving the Alternative Sentencing Building: Powers Generator tech said it is overloaded and should be replaced or have some its load removed.
  - Had Royal Electric conduct a week-long power analysis to verify what this generator's existing load
    - Load analysis results 6.5 KW (27 amp capacity)
      - Single phase load is imbalanced. At my request, on 1/10/19 one of my staff moved an IT server circuit from A2 to A1 phase leg to better balance load
      - Operates in 8 amp RMS average, thus once load imbalance is addressed, this generator should be able to handle its current load without having to go to a larger generator
- Olympian 75 KW generator serving the Administration Building. At last month's meeting I reported that during a monthly auto test, the generator experienced low/erratic voltage causing building to lose power during test and knocked out servers that provide communications throughout the complex. Powers Generator Tech troubleshot the problem and determined the issue was caused by a potentiometer. Cleaned and exercised potentiometer to restore correct voltage and ran generator under load and found voltage much more stable. On 1/8/18 the generator experienced the same problem. This time my staff installed a new potentiometer, adjusted the voltage and conducted a load test. It ran fine.
- Generator Feasibility Study: I reached out to electrical engineer Lee Carroll to see if he would reduce his quote to the approved budget for this study and he is willing to do so. I also reached out to Yeaton Associates' electrical engineer to see if he would provide me with a quote as well. At his request, I supplied him with several documents, which will help in drafting a quote.

### COURTHOUSE

Preventative Maintenance (PM) – Performed various PM tasks throughout.

Plumbing – Dielectric union in ceiling loose and leaked water on ceiling in basement corridor. Had to cut access into hard ceiling to access it and fix it. Repaired ceiling and installed a permanent hatch access point.

HVAC - Building Automation System (BAS) JACE controller (global controller), which is the main brain of the BAS that allows us to interface with the local controls, which are essentially the limbs and hands of the building's HVAC systems, stopped communicating. Since most daily operating programming reside on the local controls, the building has stayed running, but we can't see, send or receive data from the local controls to make changes. We purchased a refurbished JACE and sent it to Controls Technology Incorporated (CTI) to have it programmed. CTI programmed the new JACE and Richard installed it. Almost everything is working as it should; however, we've had a couple anomalies where the courthouse oil boilers run a few times during the day when the system isn't calling for them to do so. Yesterday a local controls contractor helped us troubleshoot the problem to a faulty relay on one of the boilers. Since changing that out everything seems to be working as it should.

HVAC – Biomass 2-way valve actuator failed. Upgraded to newer actuator due to original part obsolescence. Once the new JACE was installed we were able to determine that the new valve operates correctly.

Courtroom 1 – Received request to install safety railing at front of seating plateau behind handicap seating area to prevent people from stepping off 18" drop as if it were a step, which could lead to a fall. Work in progress.

### **NURSING HOME**

Preventative Maintenance (PM) – Performed various PM tasks throughout

Laundry – Washer 2 rinse valve not opening when it should (intermittent problem). Installed new valve

Laundry – Washer 1 temperature sensor erratic...Installed new sensor

Laundry – Dryer 3 drum rubbing on front cover...adjusted drum alignment

Kitchen - Dishwasher failed to keep wash temp...Hobart replaced shorted circuit board

### ADMINISTRATIVE BUILDING

**Preventative Maintenance (PM)** – Performed various PM tasks throughout.

**Plumbing** – Installed three frost-free hose bibs at different locations of building exterior to support exterior water needs during summer months

### **Dept. of Corrections**

Preventative Maintenance (PM) – Performed various PM tasks throughout

HVAC – Heat pump WHP-A1 experienced a phase monitor failure. Cannibalized one from WHP-B1, a heat pump that is used for cooling only and installed in WHP-A1 to fix problem. Ordered and installed a new phase monitor in heat pump WHP-B1.

**HVAC** – Heat pump WHP-D1, circuit B lost most of its Freon due to cracked line. North Country Mechanical removed remaining Freon, soldered in new line and reserviced unit

HVAC – Air handler AHU-B1 Supply fan sheave worn out...replaced sheave

**Area C** - Inmate kicked recessed toilet paper holder out of stainless steel toilet/sink combo in cell C05...Remove toilet/sink combo, welded holder back in place and reinstalled unit

Laundry – RH dryer won't run (intermittent problem). Performed a series of part swaps with LH dryer to see if problem would move to LH dryer. Thus far it has not happened yet. Troubleshooting has been hindered because staff keep resetting the faulty dryer before we have a chance to view fault codes. Troubleshot to bad spark module...replaced with onsite spare

Elevator – Elevator door intermittently hanging up on courthouse 1<sup>st</sup> floor level. Stanley elevator technician checked electric eye safe edge that detects movement in door opening. Elevator was working properly when tech arrived. He made several checks and could not find anything conclusive for the cause. Cleaned surface as a preventative measure and suggested changing part at next scheduled interval. Elevator worked fine for almost a month and just started acting up again a few days ago. Troubleshooting in progress.

### MAINT/FARM BUILDING

Preventative Maintenance (PM) – Performed various PM tasks throughout

### **FARM**

Dairy Barn - South section of Barn, West high drive area beams and bracing smashed by sawdust delivery truck. I solicited repair quotes from two sources. Both are extremely busy, so it took time to get them here on site to assess the damage. Received quotes and provided them to Nancy Bishop. Nancy left a message with the sawdust delivery company but they are not returning her phone calls. In the interim I've told one of the repair companies we would use them and they are tentatively thinking they can do this work in the later part of January or early February.

**Dairy Barn** - Bulk tank condenser units not wired lead/lag so they both don't start at the same time. Ran wire from control panel in milk room to LH compressor

**Equipment -** Large JD tractor with cab has worn bucket bushings. Needs old ones cut out and new ones welded in...completed LH side. Will finish RH side sometime this week.

**Equipment** – Plate & frame heat exchanger installed a few years ago is costing more to produce milk than before it was installed (see attached spreadsheet). Meeting with Farm Manager on Wednesday to discuss eliminating its use or find way to eliminate waste water

### **BIOMASS PLANT**

Preventative Maintenance (PM) – Performed various PM tasks throughout.

### ALTERNATIVE SENTENCING BUILDING

Preventative Maintenance (PM) – Performed various PM tasks throughout

**HVAC** - Cold air blowing out of vents when furnace isn't running. Found furnace fan was running constantly even though thermostat switch was set to have it run just when the furnace was producing heat. Replaced thermostat. We believe this issue was cause for dramatic increase in propane usage in this building.

### **VEHICLES & EQUIPMENT**

Preventative Maintenance (PM) – Performed various PM tasks

**1 Ton Plow Truck V-plow** – Suffered sheared pivot pin and broken RH angle RAM actuator. Replaced both items before the last snow storm

### **OTHER**

Trash Removal – When our current contract ends, Casella will no longer provide twice weekly trash removal. They proposed installing a large trash compactor at the DOC to support this change. If we didn't want to do that, they will provide us with additional dumpsters to support once a week pick up. After consulting with the DOC Superintendent and Farm manager, we decided the least costly and least disruptive change would be to go with extras dumpsters. My dept. will have to construct a large concrete pad and curb next to the one at the nursing home to accommodate the extra dumpsters.

Commissioner Piper asked if everyone had a chance to read the minutes from the January 8<sup>th</sup> meeting. All three (3) Commissioners had edits.

**MOTION:** Commissioner Morris moved to approve the minutes form the January 8<sup>th</sup> meeting as amended. Commissioner Piper seconded the motion and all were in favor.

The Commissioners signed check registers 1101-1102.

CA Libby handed out a copy of the proposed budget schedule and asked if there were any conflicts with the dates before she sends it out to the department heads. Neither Commissioner had any conflicts.

CA Libby gave the Commissioners a list of appropriation transfers totaling \$46,175.00 and explained what they were.

**MOTION:** Commissioner Morris moved to approve the appropriation transfers totaling \$46,175.00. Commissioner Piper seconded the motion and all were in favor.

CA Libby reminded the Commissioners of the Executive Committee meeting on January 28<sup>th</sup> at 9am.

CA Libby stated that there will be an IDN Region 1 Winter Advisory Council Meeting from 8am - 12am Common Man in Claremont on January 31<sup>st</sup>. Commissioners Piper and Morris stated that they would both like to attend.

CA Libby encouraged the Commissioners to review the HB305 legislation on the Register of Probate so they can have a discussion on what stance they feel Grafton County should take.

Commissioner Morris stated that she is starting to make appointments with Selectboards in her district.

Commissioner Piper attended the UNH Extension Advisory Council meeting last night. Geoff Sewake gave a presentation on what the vision and goals are for Economic Development and what they do for Communities.

Social Services Consultant Discussion:

At last week's meeting the Commissioners reviewed Social Service Consultant RFPs and were all in agreement to invite Elaine Guenet to a meeting to discuss her proposal in more detail and review terms and conditions with her. E. Guenet introduced herself to the Commissioners and told them about herself and her background in social services. The Commissioners gave E. Guenet copies of their social service funding policy, the current social services budget, the application that agencies submit and a copy of the final report of the agencies from this current fiscal year. E. Guenet and the Commissioners discussed their mutual expectations and answered questions from each other as well. CA Libby stated that the deadline to have a final report to the Commissioners is March 28<sup>th</sup>. E. Guenet stated that she had come into this meeting not fully knowing what this job would entail so she was happy to receive all of the information they have given her. She stated that she will look into it all some more as well as look into the travel time that it would take for her to visit these agencies. She thanked the Commissioners for their time and stated that she would be in touch.

12:26 PM With no further business the meeting adjourned.

Respectfully Submitted,

Marcia Morris.

Clerk

### **HUMAN SERVICES MONTHLY REPORT**

- 1.) LTC Expenses to date:
  - Expenses by Town
  - Recoveries
  - CAP Summary
- 2.) Legislation:
- 3.) Other:
  - Social Service applications due Friday

### 2019 RECOVERIES

Category:
ρ
Comparison
Yearly (

	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY11
OAA	3,329.19	1,653.21	921.75	84.00	4,155.75	00.00	00.00
APTD	7,234.68	7,792.33	22,903.47	8,021.27	7,703.85	9,194.83	1,896.05
NC	167,814.26	81,951.55	75,987.80	98,901.58	82,160.57	68,864.90	108,198.38
ANB	0.00	0.00	00:00	00:00	00:00	00.00	00.00
DCYF	79,472.22	64,323.81	60,257.00	53,355.60	19,428.43	7,364.96	6,484.20
	257.850.35	155.720.90	160,070.02	160,362.45	113,448.60	85,424.69	116,578.63

### **BREAKDOWN by Month**

FY 19	July	Aug	Sep	Oct	Nov	Dec	Jan
OAA	00:00	00.00	00.0	00.00	00.00		
APTD	00:00	176.00	84.14	00.00	00.00		
NC NC	00.00	25,021.82	20,650.49	1,453.95	37,176.72		
DCYF	91.19	36.92	48.28	39.05	20.59		
TOTALS	91.19	25,234.74	20,782.91	1,493.00	37,197.31	00.00	00.00

### Statutory credits received by year

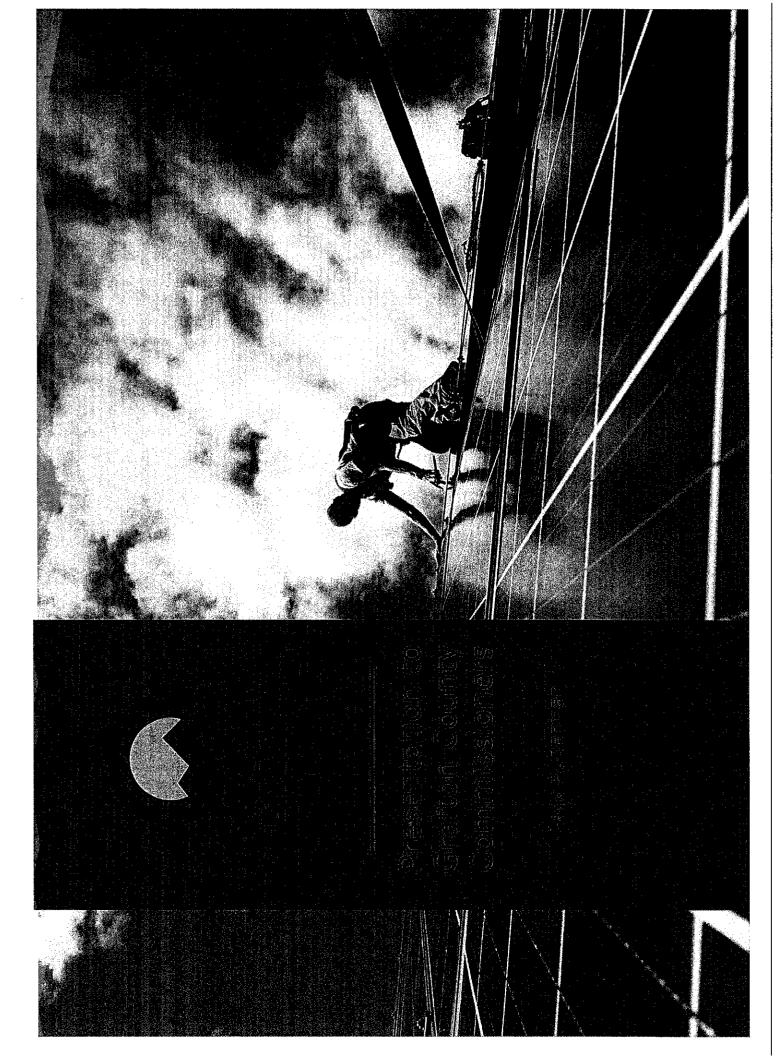
					HB 2 credits	begin	
SB 409 CREDIT	130,846.08	135,155.63	134,974.30	154,555.54	405,553.00	385,865.41	369,992.00
% OF TOTAL CR	6.54	6.76	6.75	7.73	8.11	7.72	7.40

FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19
121.47	00.00	7,797.95	00.00	0.00	86.80	230.56	0.00
4,678.04	9,823.56	8,340.25	11,872.41	4,120.97	1,029.36	34.38	260.14
113,498.16	122,895.30	166,393.61	133,485.99	68,520.55	99,753.41	99,753.41 144,494.34	84,302.98
0.00	00:00	12,330.60	00.00	00.00	0.00	0.00	0.00
2,921.93	2,338.00	3,206.71	2,737.27	799.48	270.19	667.28	236.03
121,219.60	135,056.86	198,069.12	148,095.67	73,441.00	73,441.00 101,139.76 145,426.56	145,426.56	84,799.15

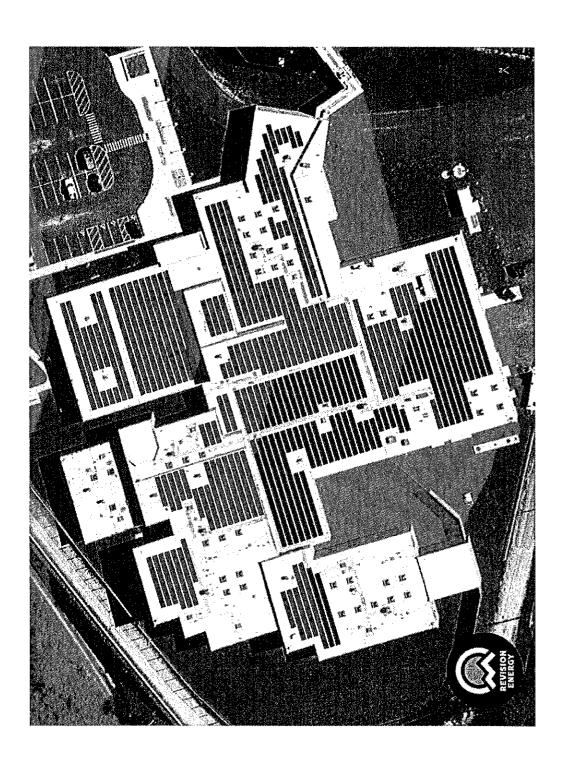
FY 19 Target \$85,000

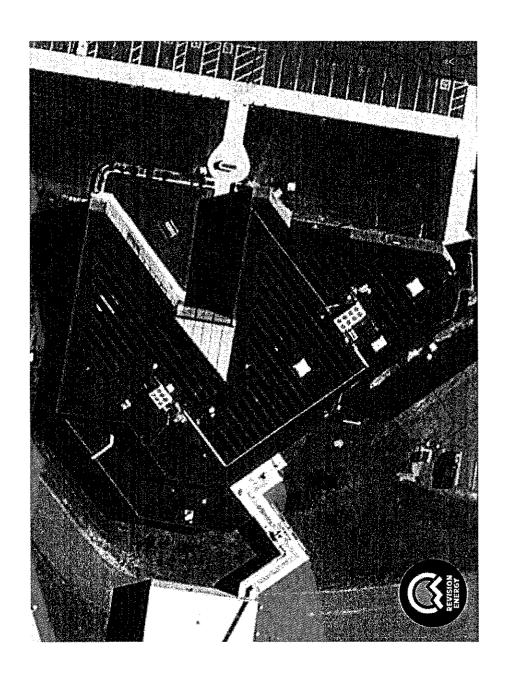
TOTALS	0.00	260.14	84,302.98	236.03	84,799.15
Jun					0.00
May					0.00
Apr					00.00
Mar					0.00
Feb					00.00

436,979.00	449,594.00	274,069.00	264,250.00	264,250.00 254,733.00 251,780.00	251,780.00	250,080.00	251,075.00
5.82	5.96	5.48	5.29	5.09	5.03	2.00	5.02

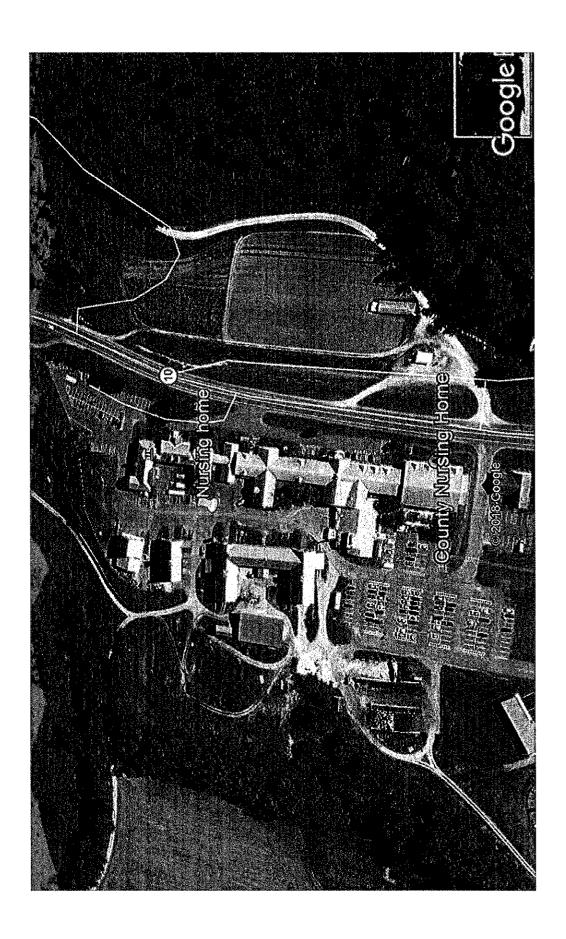


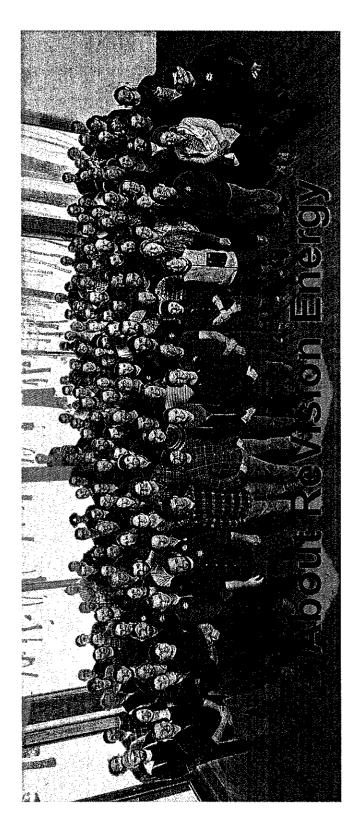
# Grafton County Jail – 430 kW





# Grafton County Nursing Home







**Team:** 200+ professionals in NH, ME, and MA designing and installing residential and CI&I clean energy systems

Experience: 7,000+ solar energy systems installed since 2003

Credentials: NABCEP, Master Trade Licenses, other certifications

Vision: Transition Northern New England to a clean, solar energy powered economy while creating positive social change

Corporation

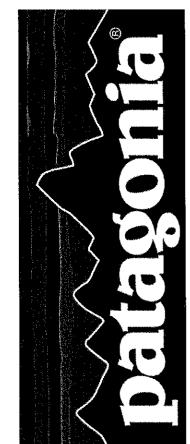
bcorporation.net

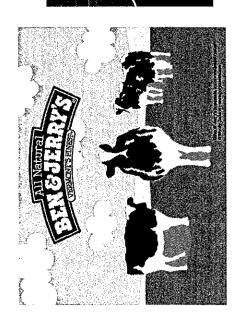
Not just the best in the World,

atura

Inilever









Certified



## Memberships & Accolades

### ReVision Energy Ranked #1 for Solar E See Francis #14 is CS

Solar Power World magazine rates Retrision Energy the top rooftop solar installer in New England















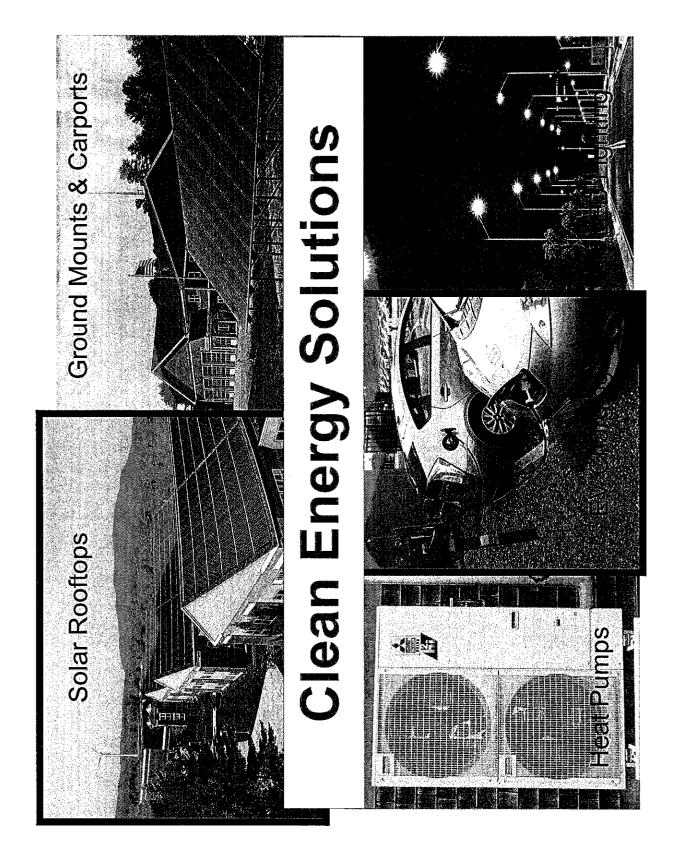


STOS \*









## Nonprofit Clients include..



## Dartmouth









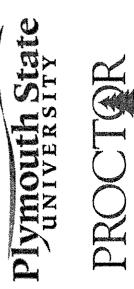






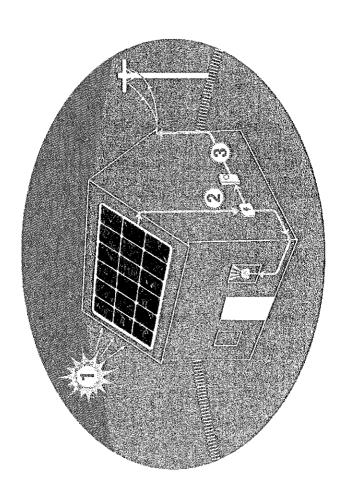






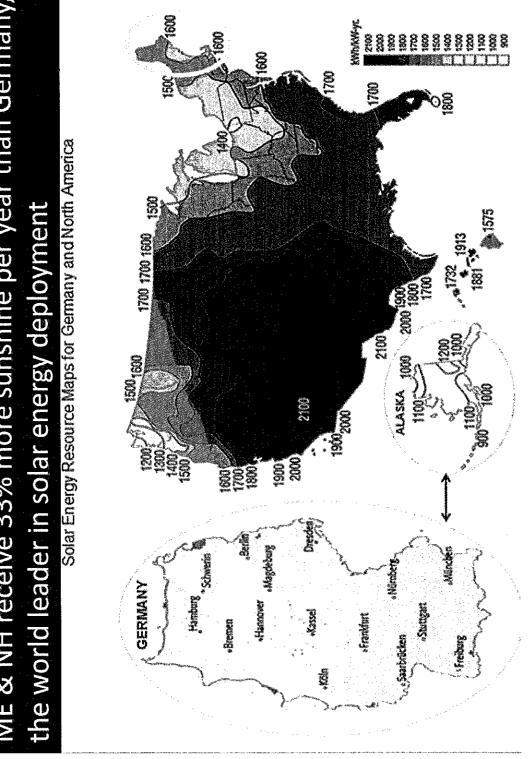


## **How Solar Energy Works**



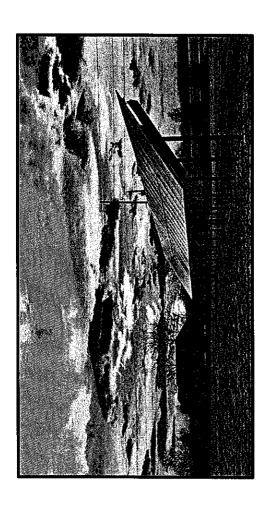
- Sun hits the solar panels, creating DC electricity
- 2. Solar inverter converts DC power into AC for household needs such as lights, television, computers, etc.
- Excess power is sent to the grid, crediting your monthly bill

# ME & NH receive 33% more sunshine per year than Germany,

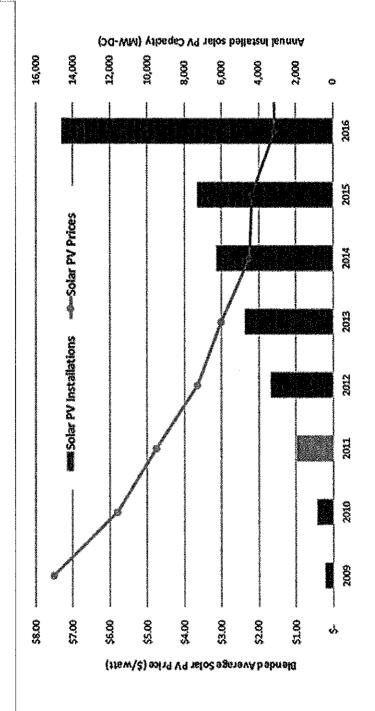


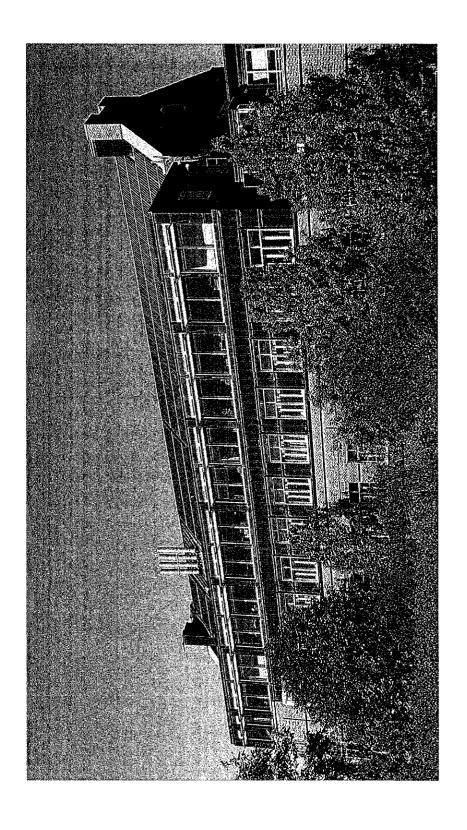
## Why Solar?

- Cost effective: saves money
- Serves as a hedge against rising prices
- Proven, reliable technology
- Reduces reliance on fossil fuels
- Clean air zero emissions

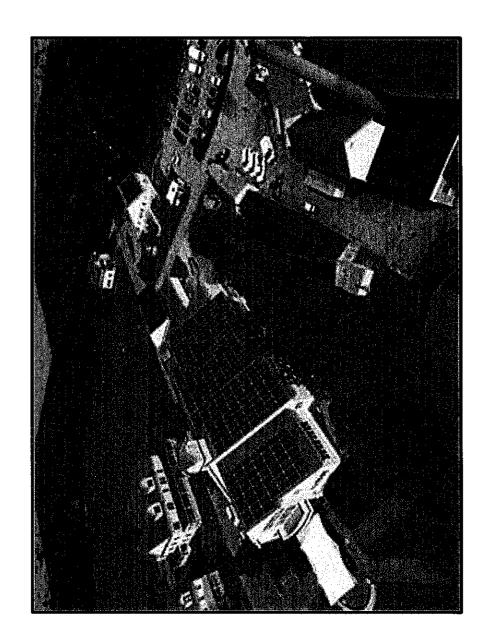


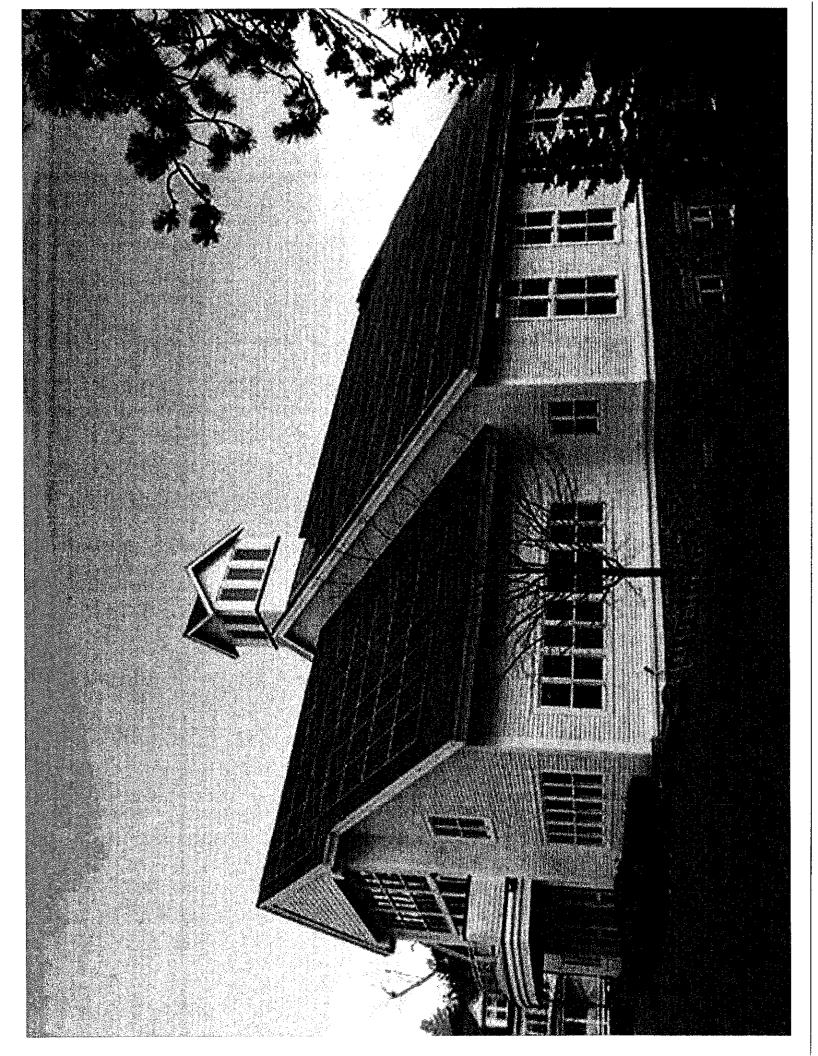
**US Solar Price & Deployment** \$/Waft and WW Installed 2009-2016 (GTM)



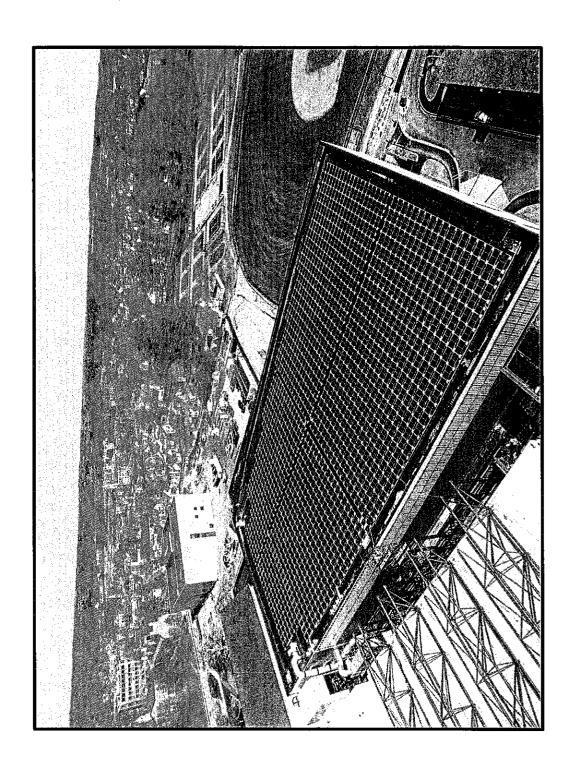


## Proctor Academy

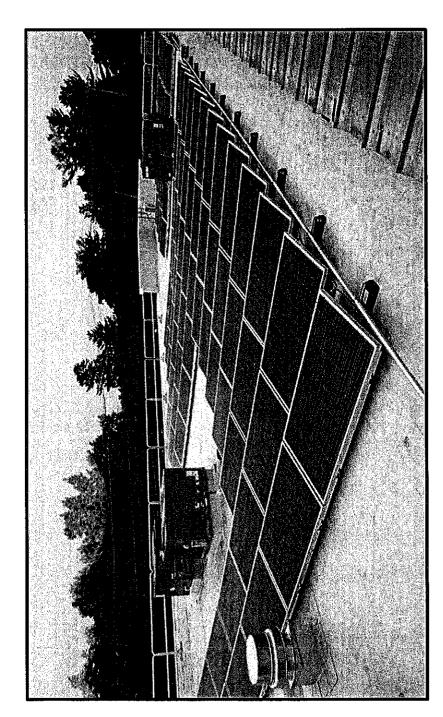


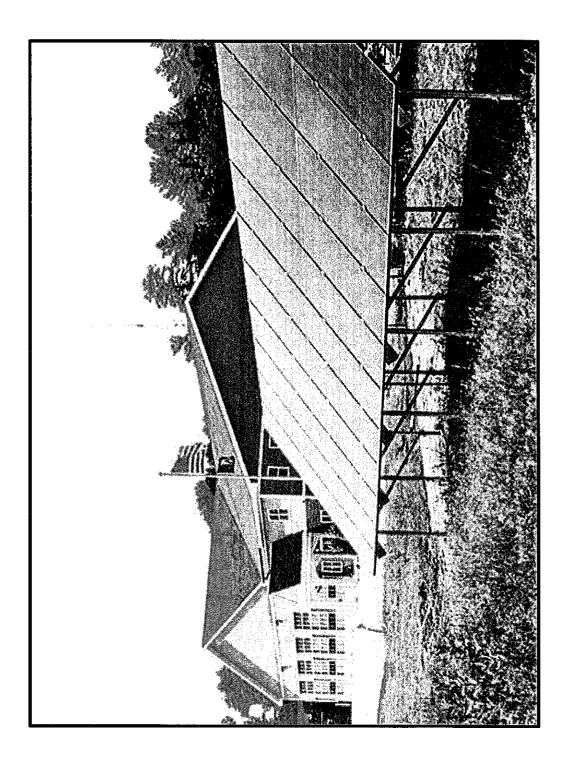


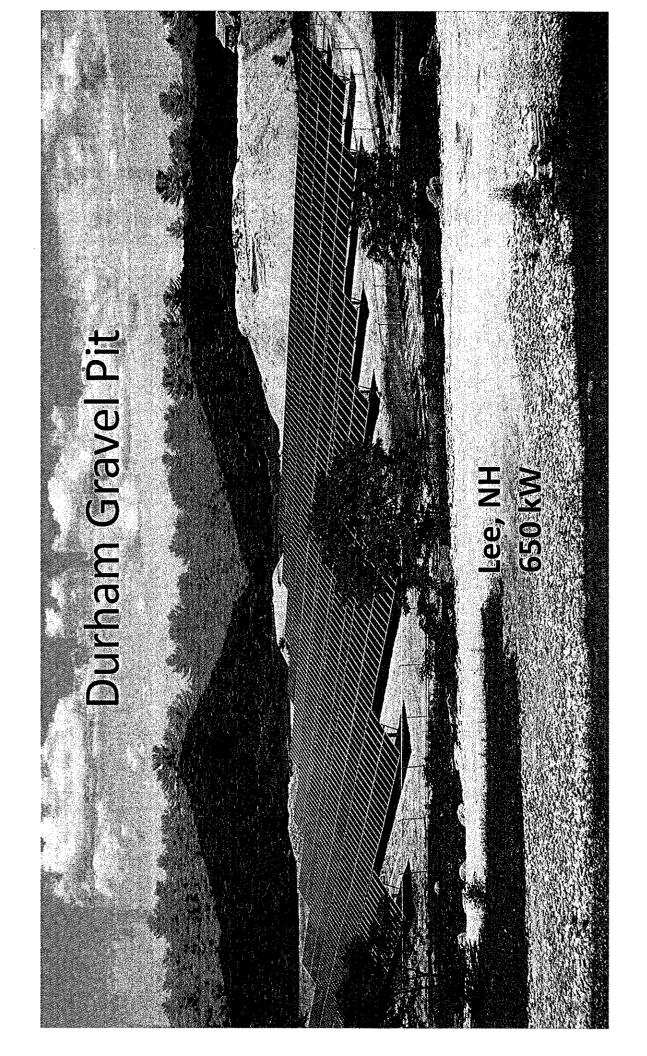
## Phillips Exeter Academy



## Wire Belt Company of America . Londonderry







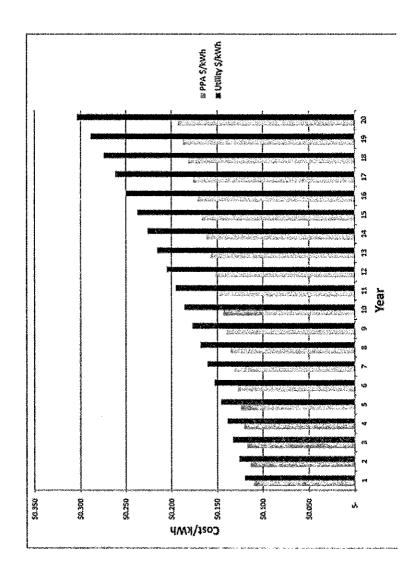
## How to Finance?

- Generous federal tax incentives
- Investment Tax Credit = 30%
- Accelerated Depreciation = 20% 25%
- Counties, towns, schools, non-profits aren't eligible
- Long-term payback period
- Turnkey or Power Purchase Agreement (PPA)?

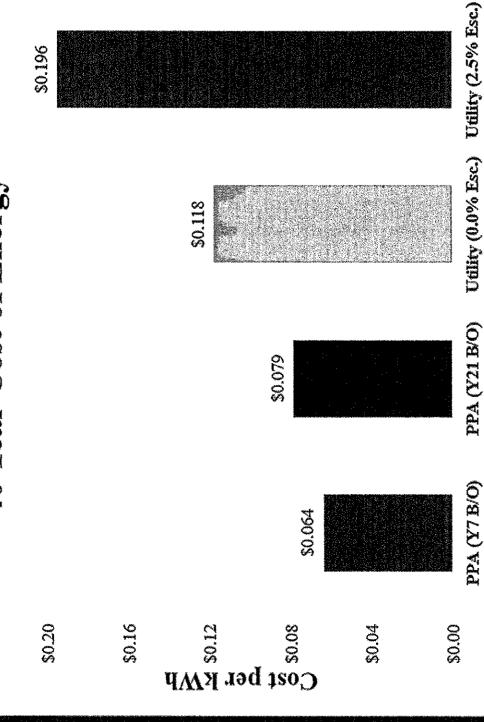
## Power Purchase Agreement (PPA)

- No upfront costs Investor pays for system
- ReVision installs, operates, maintains
- Investor takes federal & state incentives
- Customer buys power from Investor for up to 25 years
- Buyout option at Year 6 or later at FMV
- Option to renew at Year 25

Cost Savings



## 40 Year Cost of Energy



## Data Monitoring



J Solar-Log DASHBOARD

Total Overview

3 1 3 MM 177.97 With Yeeld Today

Yield current year Yield current month

E M

Yield total 7 (1, 2 6 with

Total power output installed 64.95 Wip

Yield History

**Current Production** 





-17.69 KW/
obtained from the grid

22.50 KV/l Qurert Consumption Natural acts/22.50 K//

4.81 KW

Production Macran neay ≠1 ≥5 km

**Environmental contribution** 



212,592 mi. Trip with a Segway

50,219 mi. Trip with an electric car

500,001,000 HWARD BOTH WAY DOTTES 4700 000 000 130,00 kWh

K Ħ 15 3 23 E S

Reduced nuclear waste 0.93 02 31

Year Month

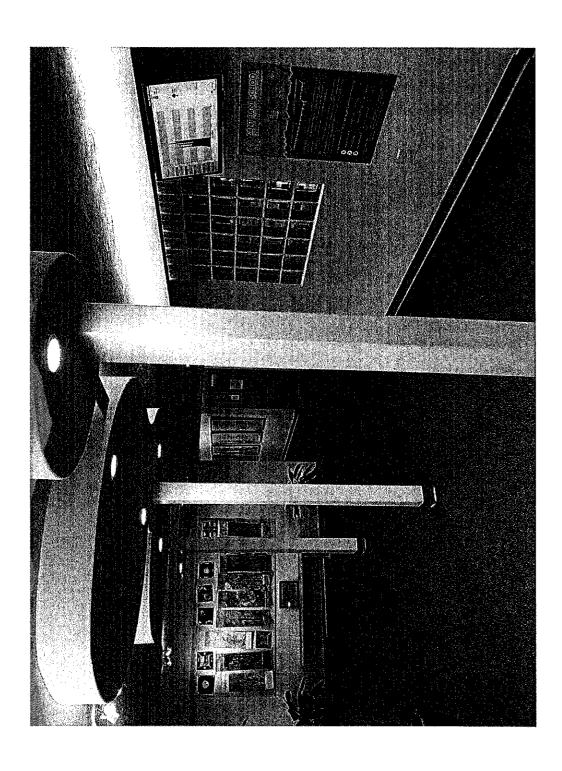
Day

Year Total

Morah

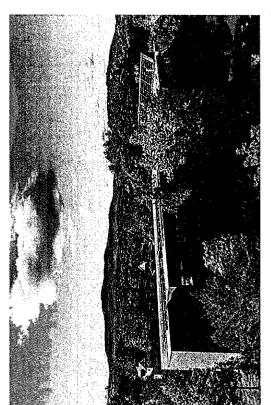
् अं

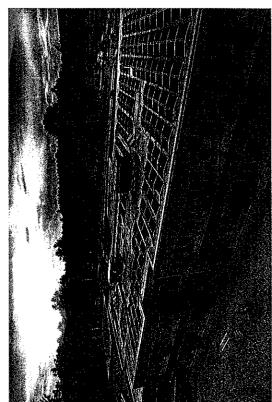
10.0



## PPA Statistics

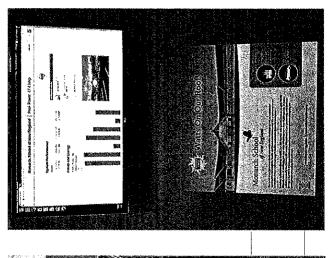
- Total PPAs Developed and Installed
- $\sim 100 \text{ projects}$
- ~ 8.6 megawatts
  - ~ \$25.5 million
- Total Owned/Operated by ReVision
- ~ 80 projects
- ~ 4.5 megawatts
- ~ \$13.5 million

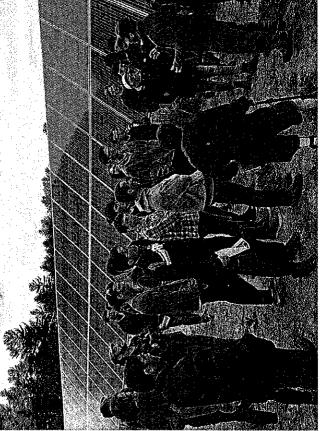




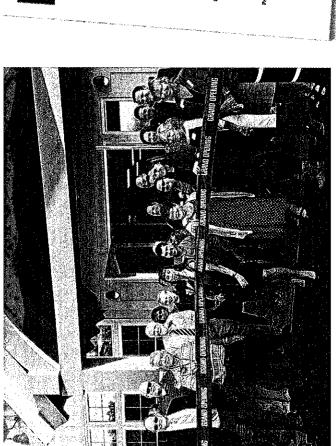
## **Community Engagement** Showcasing Clean Energy Systems

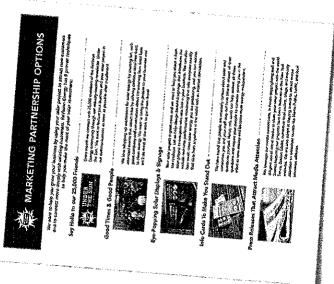




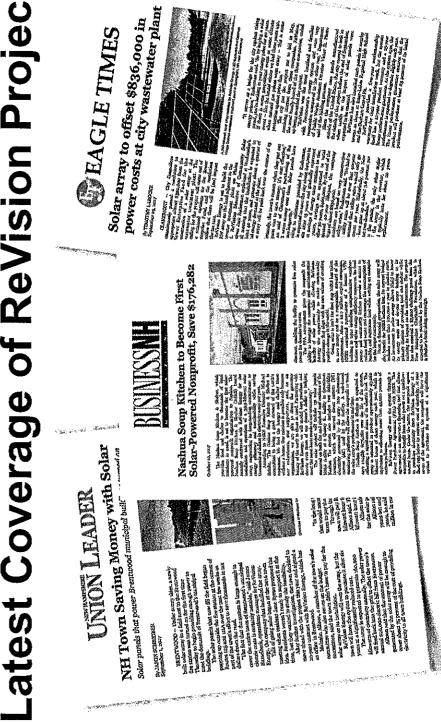


## Ribbon Cuttings and Public Events **Community Relations**





# Latest Coverage of ReVision Projects



### J ္

