

## **Net Zero Task Force**

*A committee for net zero metering in Derry, NH*

**Thursday, May 18, 2017**

**6:00 PM**

**14 Manning Rd. Derry, NH 03038**

## **Board Members**

Brewster Bartlett	Josh Bourdon
Nick del Etoile	Mike Fowler
David Granese	Anthony Marciano
Ken Linehan	Jeff Moulton
Mary Till	Bob Mackay, Alt.
John Burke, Alt.	Will Stewart, Alt.

## **Minutes**

-Call to Order: Chairman Jeff Moulton called the meeting to order at 6:02 PM.

-In attendance: Jeff Moulton, Mary Till, Josh Bourdon, Bob Mackey, Dave Granese & Anthony Marciano

-Absent: Ken Linehan, Nick del Etoile, Mike Fowler, Brewster Bartlett

-Consent agenda:

Approval of minutes from April 20<sup>th</sup> meeting.

**Motion made by Dave Granese to approve items in consent agenda**

**Motion seconded by Mary Till**

**Motion passes unanimously**

-Derry Building Codes

"NH Saves" link has been added to Town of Derry home page to facilitate residents and businesses access to home energy audits and rebate program (up to \$4000). The link was also added to the Enforcement/Building Department web page. Bob Mackey will investigate adding some introduction to educate residents on the potential benefits.

New homes will have to meet a stricter blower test (<3) when NH adopts the 2015 of the IBC (vs 7 today). This will require builders to meet a much more efficient building envelope in the future.

Tracking solar permits can be done manually today by owner. Bob is investigating whether the company that provides the software for tracking permits can be modified to designate a solar permit so that it can be automated in the future.

-Pinkerton Academy

No update.

-Derry schools update

Solar is still under consideration for inclusion in the Honeywell project.

-Derry municipal update

Derry Public Library declined to participate in a potential solar deployment due to on-going roof issues with regard to rainwater. The roof was also not ideal for a large solar deployment.

Prices were reviewed for the 3 sites (from 3 vendors). DPW prices ranged from \$1.85 (fixed ground mount) to \$2.21 (ground mount with tracking system) per kWh. Marion Gerrish prices ranged from \$1.70 to 2.68 per kWh (roof mount). Prices were lower than original projection of \$2.28 (or roughly \$2.74/watt), which shortens the payback period.

Granite State Solar (GSS) (Erik Shifflett, co-owner) and Eric Kilens (Solar advisor) presented background of the company, current regulatory environment for NH, and covered their proposals for DPW (ground

mount with tracker) and Marion Gerrish (roof mount). The ground mount with tracking system at DPW gives much higher production than a stationary ground mount as the tracker will move in two directions to track the sun (80% above rated wattage vs 30% for stationary mount). Tracking system warranty is 10 years, with first maintenance at 10 years to change fluids. Rated for 90 MPH wind – system goes flat if winds exceed 30 MPH. Only one pier is needed (one foot diameter by 8 foot depth) per system, with 13 systems for a total of 296 panels. Alternative foundation designs (ballast, doughnut, etc.) if landfill cap is an issue but typically more expensive – same issue for stationary mounts.

GSS indicated that Eversource has met cap for category 2 deployments (>100kw) and therefore no rebates or net metering would be available for these large deployments, making the payback problematic. PUC is likely to lift the cap in July but will likely lower the reimbursed rate from full retail to 75% of current retail rate to cover costs of the grid. If Derry wants to take advantage of current net metering rules for systems under 100 kw, they need to get applications in before July 1<sup>st</sup> – estimated cost to prepare paperwork is \$1000 for the two sites, which would be reimbursable if GSS is chosen to deploy later on.

Anthony Marciano asked GSS to investigate if a Clean Renewable Energy Bond (CREB) could be applicable for Derry.

Action Items:

- 1) Check on amount of electricity that could potentially be used behind the meter if we built a system at DPW >100kw (Mike Fowler)
- 2) Check on DPW locations for landfill cap (if applicable) (Mike Fowler)
- 3) Check on payback assumption for current electric rate (including distribution) – GSS used \$0.15/kWh (Mike Fowler)
- 4) Investigate availability of \$1000 to fund application before July 1<sup>st</sup> (Jeff Moulton)
- 5) Next meeting with Marion Gerrish to discuss vendor proposals and next steps (Jeff Moulton)

-Next meeting is scheduled for June 15<sup>th</sup> @ 6:00 PM

**Meeting was adjourned at 7:45 PM**

Respectfully Submitted,  
Jeff Moulton