Meeting Minutes
Saco Energy & Sustainability Committee
May 23, 2017

Present: Howard Carter, Rick Millard, Alex Mouzas, Pat Fox, Jackie McDonough, Eric Cote, James Ferguson, Andrew Goldberg, Joe Hirsch

Wind Turbine
- The wind turbine is scheduled to be discussed at the June 12th workshop
- Declaring the wind turbine city surplus property is on the city council agenda for June
- Pat Fox said an RFP should be put together for the disassembly and removal of the wind turbine
- Howard Carter said a company out of Portland gave him an estimate of $6,000 to take down the wind turbine
- The wind turbine will be removed most likely in July or August 2017
- The committee agrees that Saco Main Street, Parks and Recreation and the community should be involved with the windmill pad conversion project

Fuel Usage Spreadsheet
- Jackie McDonough has been working with Dor Bender on a biweekly basis to keep the fuel database up to date
- The up to date fuel usage spreadsheet was sent via email to the committee
- The spreadsheet includes a percent variance which compares the current fiscal year to the prior fiscal year, also included is the usage in therms
- The most recent school fuel usage data from Karen Merrill (the Accounts Payable Specialist for the Saco School Department) is also included in the current fuel usage spreadsheet
- Fairfield school and Saco middle school have used around 40% more heating oil this year compared to last year
- CK Burns school and Young school have used roughly 50% more propane this year compared to last year
- The city of Saco should consider an energy efficiency audit of the schools
- Jackie McDonough to track annual heating degree days for FY 15/16 and FY 16/17

Police Department Heating System Update
- Update given by Howard Carter
- Installation of natural gas heating system to begin June 5th
- Bruce Cote emailed the heating system installation contract to Howard Carter
- The police department received alternate bids for dual fuel and cooling systems
- Based on the recommendation from CDM Smith, the police department has decided to have Mechanical Services install the natural gas heating system at the base bid price of $128,915

School Heating System Updates
- Did not address at this meeting
ReVision Solar Assessment Review

- Update given by Howard Carter
- Nick Sampson of ReVision Energy gave a presentation at last month’s Energy Committee meeting
- ReVision Energy’s proposed solar array for the city of Saco:
  - System location: 29 Lund Road
  - System style: rooftop
  - System size: 84kw
  - Annual generation: 92,192 kWh (calculated by the pitch of the roof, shading analysis and 30 years of weather data)
  - Municipal load offset: 38%
  - Annual carbon offset: 96,986
  - Total project cost: $200,638
  - Year 7 buyout amount: $100,319
- Proposed PPA pricing for the city of Saco (can choose between 3 different rate structures):
  - Competitive:
    1. PPA price: 11 cents per kWh
    2. Annual PPA price increase in year 2: 2%
    3. Year 7 PPA price increase: 4 cents per kWh
    4. Buyout in year 7: $100,339
  - Standard:
    1. PPA price: 13 cents per kWh
    2. Annual PPA price increase in year 2: 2%
    3. Buyout in year 7: $90,287
  - Flat rate:
    1. PPA price: 15 cents per kWh
    2. Annual PPA price increase in year 2: 0%
    3. Buyout in year 7: $80,255
- The city of Saco is currently paying around 14 cents a kWh for their small general service electric meters, the standard rate structure with ReVision Energy seems to be the best choice at 13 cents per kWh
- Howard Carter requested more information from ReVision Energy about the solar opportunity at the Industrial Park Road pump station
- ReVision Energy’s analysis of the Industrial Park Road site:
  - Setbacks from the road reduce array footprint as well as the required spacing from the treeline to avoid shading
  - The large utility lines would shade the array affecting production in a way that we cannot reliably predict
  - CMP has a right of way under the power lines feeding the pump station which would further reduce the available footprint to install an array, putting those lines underground would be cost prohibitive
  - Overall the array area is simply too small to allow for a system of scale that would have attractive economics
- The 29 Lund Road roof is an 84kW array size, and can offset 4 of the city’s top small general service electric meters, which are mostly pump station electric meters
The Lund Road property is currently being used by public works for dry storage, Pat Fox said he is not looking to allocate any money for repairs to the building but would be ok with having solar panels installed on the roof if it is deemed structurally sound.

Howard Carter thinks having a structural engineer inspect the roof at 29 Lund Road should be the first step before committing to ReVision Energy.

Pat Fox to look into having a structural engineer inspect the roof at 29 Lund Road.

Howard Carter to prepare payback spreadsheet for solar array system at 29 Lund Road.

Andrew Goldberg mentioned IRC Solar Roof Systems located in Lewiston, they have installed rooftop solar array systems at various Hannaford locations, he will send Howard Carter IRC Solar Roof Systems contact information to request a quote.

**Facility Manager Update**

- Council approved a Facility Manager position at the most recent budget meeting.

**Action Items**

- Jackie McDonough to track annual heating degree days for FY 15/16 and FY 16/17.
- Pat Fox to look into having a structural engineer inspect the roof at 29 Lund Road.
- Howard Carter to prepare payback spreadsheet for solar array system at 29 Lund Road.
- Howard Carter to put building LED conversion update on the agenda for the next energy committee meeting in June.
- Andrew Goldberg to send Howard Carter IRC Solar Roof Systems contact information.

**Next meeting June 27, 2017**