

# WINDHAM ENERGY COMMISSION

MINUTES Monday May 11, 2015

**Call to Order:** The meeting was called to order at 6:08 pm. Commission members in attendance were: Jean de Smet- Chair, Liz Ostwald, Grace Adams, and Tom Markland. Also present: Travis Potter - interested citizen, Kurt Anderson - Solomon Energy, Joseph Gardner Town Engineer, Wayne Donaldson - School Facilities Manager, and James Finger –staff

## **TOPICS**

- *Solomon Energy-Virtual Net Metering Program*
- *Status report on energy conversions - Joe Gardner & Wayne Donaldson*
- *Report from Eversource on LED conversion of street lights; discussion and possible action on recommendations of Energy Commission re: streetlight conversion to led*
- *Update on Benchmarking, Vehicle mileage outreach efforts with Tom Markland, website*

**Citizens and Delegations:** - no one spoke

**Minutes** - The Commission discussed the minutes of the January 12, 2015; Jean made corrections to her comments. Liz Ostwald made a motion to accept the minutes of the January 12, 2015. Tom Markland seconded the motion, and all voted in favor. Next, the Commission reviewed the March minutes. Liz Ostwald made a motion to accept the minutes of the March 9, 2014 and Tom Markland seconded the motion; all voted in favor. James informed the Commission that the April minutes were just a draft, so the Commission took no action on these.

**Web Design with Pat Bresnahan** - postponed as Pat was not present.

**Solomon Energy-Virtual Net Metering Program** Kurt Anderson of Solomon Energy made a presentation on this topic. He explained that there is a revamped program now in Connecticut; it existing before, but they revised the program to include State facilities, and agricultural facilities - in addition to Municipal facilities - that was already part of the program. The program allows a developer to build an array - somewhere else in Eversource's territory (on another property that is owned by a third party). The Town would get credit for every kilowatt that's produced at the facility - for up to five bills the Town has... Jean asked for clarification as she thought they could do ten... Mr. Anderson explained that an Agricultural facility can do up to ten, but municipal is only five meters. This is limited to \$10 million credit value for up to three different off-takers, but this is further limited to a maximum of 40% for any one off-taker on a first come, first served basis. He then explained the complex formula as illustrated in a handout - that if a Power Purchase Agreement (PPA) were to offer a ten cent credit for 17 cents/KWh price, the net value is 7 cents/KWh. So, for every megawatt that you subscribe to, there could be a \$70,000 credit per year. He added that they think the 17 cents is high, and could come down. Solomon would offer up to a twenty year PPA. The minimum size for the facility is one megawatt, and the maximum size of three megawatt; but there is no limit on how many agreements you have. So you could do more than three - as you could have two different hosts; and you can switch the buildings once per year. This would come in handy if you have a building that

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will be de-commissioned, and replaced with another building - or another meter. There is some disagreement on how Eversource is accounting for the credit. Eversource says that every month if there is excess generation, it says on the host account, and then every year they aggregate the excess and place it to the host account at the end of the year; it's not allowed to go back out to the satellite accounts. This would be a problem for schools as they would generate the most (excess energy) during July and August - which is not the peak energy use for the schools. He added that one Town they are working with is using non-school buildings to take the credit for excess generation. He explained that they are working with Alco - which is building a 6 megawatt facility in Lebanon - called 'Windham Energy'. Further, he said that he thought that the Municipal 'trounce' may already be subscribed. But he said that they believe that some of the projects may not see the light of day, and that they don't believe that there has been any application for the State yet; so there may be pressure to open up more volume if we can get more people in the queue. Joe Gardner added that Putnam and Norwich are working with Solar City to put a facility on their land fill; so he discussed the idea of putting one on the Town's landfill on Plains Rd. with the Town Manager. He added that we also own a thirty acre gravel pit site in South Windham that could be used for this purpose.

Mr. Anderson said that it doesn't have to be on Town Land - as it could be on leased land; but the meter needs to be in the Town, State or Agricultural users name. Some discussion ensued on possible sites, with the Town installing panels on its own property somewhere. Mr. Anderson pointed out that the Town would lose out on the economics of the tax incentive of 30% that is only available to developers; they monetize these incentives for tax credits, and it lowers the overall energy price to the user - which is about 50% of the cost. Now they are also monetizing some of the demand charges - which include the transmission and distribution.

James asked if there was competition for securing subscribers - or if they got their subscribers - is there a chance they still would not be awarded the contract.

Mr. Anderson said that its all timing; so - whoever submits first will be accepted first. But if they don't get their funding, then their project may be removed, and the next proposal would be moved up in line. He said he could send the letter of intent for the Town to use. There is no commitment, or application fee. This could be for up to three meters, but they shouldn't all be schools with the way the environment is now. But if you had a Waste Water Treatment Plant - which is a heavy electric user. Joe Gardner asked if they would be interested in doing a project on the Town's Land fill, and Mr. Anderson said that is their main business.

### **Status report on energy conversions - Joe Gardner & Wayne Donaldson gave a History of Municipal Energy Projects**

Joe Gardner read from his report as follows:

In July 2009 an energy account was created and funded with \$104,000.00. Through this current fiscal year (2015) a total of \$749,000 has been appropriated.

The following is a listing of all projects completed. If funded through the energy fund the dollar amount is shown in *Italics*. If recommended by the energy audit performed in 2010 of six town buildings the item is shown with an asterisk. Please note small items funded such as testing, and advertising are not shown.

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**2009**

## **LIGHTING UPGRADE**

Upgrade lighting through CL+P grant/loan program in town buildings including Town Hall, Library, Kramer Building, and Water Department.

## **KRAMER BUILDING**

*Insulated large diameter pipes funded through energy efficiency fund \$8,300*

*Installed control system in main building funded through energy efficiency fund \$47,000*

CL+P reimbursed town \$5,448.00

## **STREET LIGHTING**

*LED Christmas light bulbs were bought at a cost of \$1,016.25 through energy efficiency fund.*

*Thirteen town Streets light along lower Main Street were replaced with LED lights at a cost of 20,793.00 through the energy efficiency fund. CL+P reimbursed the town*

*\$3,650.69.*

## **Library**

When the roof was replaced we installed insulation with an R30 rating. We also removed several abandoned vents.

## **SAFETY COMPLEX**

*A gas fired water heater was installed at a cost of \$10,185.00 through the energy efficiency fund*

**2010.**

## **ENERGY STUDY**

Celtic Energy performed a study of the Town Hall, Library, Kramer Building, Safety Complex and two museum buildings at a cost of \$40,000 which was paid for with an OPM grant.

## **VENDING MACHINE SENSORS**

*We installed eleven motion sensors on vending machines in Town Buildings. The sensors cost \$160 each to purchase of which CL+P reimbursed us \$75 for each sensor. The sensors save about \$200 per vending machine per year. \**

**2011**

## **KRAMER BUILDING**

*Additional pipes were insulated throughout the building at a cost of \$8,300 funded through the energy efficiency fund.\**

*Pipes to the swimming pool were insulated at a cost of \$1,450 funded through the energy efficiency fund.\**

*An energy efficient burner was placed on an inactive boiler and manifolds on both boilers were insulated at a cost of \$23,455.00 funded through the energy efficiency fund.*

A 40 gallon residential water heater was installed in the main building at a cost of \$1,300.00 funded through the energy efficiency fund. This replaced a 30 year old 70 gallon water heater. \*

Using an OPM grant we installed occupancy sensors in the Kramer building at a cost of \$8,000. This was primarily, in seldom used stairways and corridors where the lights were on continuously.\*

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## **SAFETY COMPLEX**

*We completed the installation of radiant heaters in the Fire Department apparatus bay at the Safety Complex. Many fire departments are installing these systems which heat the equipment and not the air. The cost of the system was \$56,000, \$22,438 of which was paid from the energy efficiency fund. The remainder was from grants including \$4,400 from Yankee Gas. The expected savings in energy is \$4,400 per year. Automatic door closers were also installed to close bay doors after trucks leave on a fire/emergency call at a cost of \$900 from the energy efficiency fund.\**

## **TOWN HALL**

Using an OPM grant we installed occupancy sensors in the building.\*

## **PUBLIC WORKS**

*At the Public works "Lower Garage" we installed R-30 insulation in the ceiling at a cost of \$4,128.00 funded through the energy efficiency fund. This garage is heated with two propane ceiling mounted units and will be far warmer.*

## **2012**

### **SOLAR PANELS**

We worked with DCS Energy to install solar panels on municipal buildings. They installed the panels at no cost for a five year period during which they receive tax credits for the equipment while the Town receives all the electrical savings. After five years they will either remove the panels or give them to the Town. DCS Energy installed panels on the Willimantic Library, Safety Complex, and four schools. The total KWh is 81 and about the same as the system that was installed at the Water Treatment plant. We estimate electrical savings in the range of \$14,000 to \$18,000 per year.

### **PUBLIC WORKS**

We worked with CL+P to install new energy efficient lights at the Public Works Buildings. Total project cost was \$21,701. CL+P paid 29% (\$6,511)

The remainder is paid over 36 months by keeping electric bills the same.

At end of 36 months our electric bills will decrease by \$435 per month a 40% decrease

### **SAFETY COMPLEX**

The lighting at the Safety Complex was also upgraded under the same CL+P program. The grant amount received was \$4,614. After 18 months the loan will be paid and the Safety Complex should see a \$650 per month reduction in their electric bill.\*

## **2013**

### **SAFETY COMPLEX**

*A new energy efficient gas boiler was installed at the Safety Complex at a cost of \$63,000 and paid for by the energy efficiency fund. A 35 year old boiler that contained asbestos was removed and replaced*

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with a boiler that operates at 95 % efficiency. A grant was applied to Yankee Gas which provided a rebate of \$4,125.\*

The windows in the 35 year old Safety Complex leaked air badly, and during the summer let warm air in and cold air in during the winter. *Using the Town's energy efficiency fund all of the windows on the second floor were replaced with new windows that will not leak air at a cost of \$40,825.*

*The 35 year old roof mounted condensing and air handling equipment was replaced at a cost of \$161,000 with new energy efficient equipment. A CL+P grant in the amount of \$3,750 was received after installation. This work is funded by the energy efficiency fund.\**

*Ventilation fans in bathrooms and meeting rooms that ran continuously were connected to room lights so that they only operate when a room is occupied. The work cost \$1,826 and was paid by the energy efficiency fund.\**

## **TOWN HALL**

At the Town Hall the inner and outer doors were interlocked to stay open. This allowed cold air in the winter and hot air in the summer to pour into the building. *We installed an interior sliding door that works off a motion sensor. Cost of the new door installed was \$10,639 and was paid by the energy efficiency fund.\**

Two new energy efficient boilers were installed at a cost of \$66,000 paid by the energy efficiency fund.\*The boilers were recently tested and found to be operating at better than 94% efficiency. A rebate in the amount of \$12,800 was received from Yankee Gas.

We had a contractor replacing broken hardware on doors. While here, he installed a sweep on the front door and adjusted the trim to greatly reduce an opening at the base of these historic doors.

Public Works has caulked and insulated all the windows on the first and second floors.\*

The remaining eleven large windows on the third floor were replaced with energy efficient double pane units. Voids in walls for window weights were filled with insulation. The work was paid for with a LoCIP state grant.

## **McSweeney Senior Center**

The Town recently took over operation of the center. *The heating system was converted to gas and the chimney was lined at a cost of \$9,987 which was paid by the energy efficiency fund.*

The lights which dated back 30 years were replaced under a CL+P program. The Town received a 36.5 % grant which is approximately \$3,270 of the \$8,952 cost. The remainder is paid for with a zero interest loan for 36 months after which the electric bill will be reduced by \$206 per month.

## **Water Department**

All buildings were converted to natural gas from oil at a cost of \$35,800. A Yankee Gas rebate of \$2,376 was provided to the Water Department. The windows in the filter plant were replaced last summer. The windows in the pump house will be replaced this year.

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## **NATCHAUG SCHOOL**

During the roof replacement the attic was insulated to a depth of 11.5 inches (R38) with blown in insulation at a cost of \$13,000. This cost is 80% reimbursable through the state.

## **RECREATION**

*A cover and reel for the pool was installed at a cost of \$1,200 which was paid from the energy efficiency fund. This should reduce our energy and chemical usage significantly.\**

The Recreation Department has eliminated cast iron radiators that ran continuously. Two thermostats were replaced which should reduce heat in their offices hopefully stopping the practice of opening windows.\*

## **2014**

### **SAFETY COMPLEX**

*Windows on the first floor were replaced at a cost of \$28,492 by the energy efficiency fund.*

*A new HVAC control system has been completed at a cost of \$126,995 funded through the energy efficiency fund. A rebate in the amount of \$23, 970.50 was received from Northeast Utilities.*

### **WINDHAM HIGH SCHOOL**

As part of the roofs replacement, insulation with a value of R38 was placed on the roof. There had been minimal insulation previously. In addition the white membrane will reflect sunlight reducing heat during the summer.

### **PUBLIC WORKS ADDITION**

A 2,100 square foot addition was constructed onto the truck storage garage. The addition will house street sweepers and equipment used in snow blowing and leaf pick-up. A change order was issued in the amount of \$4,708 to provide radiant heaters instead of unit heaters.

### **INSULATE TOWN BUILDINGS**

*A contract was awarded to insulate the Dugan Building at the Windham Textile and History museum and the Town Hall Auditorium in the amount of \$30,000.00 This work was completed in December of 2014.\**

## **2015**

### **NEW BOILERS WINDHAM TEXTILE AND HISTORY MUSEUM**

*A contract was awarded to install high efficiency boilers in both buildings at a cost of \$37,689. New thermostats and controls were installed in the Dugan Building at a cost of \$2,216. The work was completed in January and February. Northeast Utilities is providing a rebate of \$5,472 for the work. In addition a \$10,000 bright ideas grant was used to offset part of the cost.*

### **TOWN HALL AUDITORIUM**

*LED lights were purchased and installed soon at a cost of \$9,925.00*

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## **PUBLIC WORKS MECHANICS GARAGE**

*Radiant heaters were installed in the garage area at a cost of \$41,000.00. They replaced large inefficient old unit heaters. Now when garage doors are opened large amounts of warm is not lost. The Public Works Department has been able to lower the thermostat by five degrees with no loss of comfort. In addition four single pane windows were replaced at a cost of \$2,900.00.*

## **DOG POUND**

*Radiant heaters were installed in the dog kennel at a cost of \$5,472.00.*

The ceiling is being insulated with 12 inches of blown in insulation. Two single pane windows in the office are being replaced. Two doors that are rotted and have open bottoms are being replaced. Of the six single pane windows in the kennel three are being blocked up and the other three are being replaced with double pane windows. In addition a new energy efficient air conditioner is being installed in the office.

## **LEGION BALL FIELDS**

We just installed two new scoreboards that have led lights and are solar powered. The scoreboards were purchased with a LOCIP grant.

## **SUMMARY**

Total expenditures for significant work funded through the energy efficiency fund has been approximately \$790,000. Please note town appropriation \$749,000.00

Rebates from Northeast Utilities, Yankee Gas etc. for energy improvements total \$74,440.00 which was put back into the energy fund.

There is approximately \$30,000 in the energy fund.

Grants received from CL+P for lighting improvements in buildings was approximately \$15,000. These funds were subtracted from the work by CL+P.

OPM grants for energy exceeded \$88,000.

With regard to the project priorities, Joe explained that we have followed the recommendations in the energy audits closely. He added, that we first did the projects that would result in the greatest savings - such as insulating steam pipes at Kramer, the safety complex and public works. Recently we have concentrated on the Museum and Town Hall. He explained that they held off on the library as it will be undergoing a major renovation when energy saving work will be included in the renovations. Now he concluded they are focused on the Town Hall, and Textile Museum - and feels that we are making good progress.

Tom Markland asked if we have any vehicles using natural gas. Joe replied that we don't, but he had heard that the Norwich Public Utilities does. Our problem is that there are limited fueling stations for these vehicles.

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Next Wayne Donaldson - School Facilities Manager presented his report. He explained that he couldn't find much detail on energy conservation work before he started. But he's kept track of it for the past two years Starting with Natchaug School - as Joe said, they changed all the boilers from oil to natural gas, and added insulation above the ceilings instead of in the roof - so they're not heating all of the dead space.

He explained that they've instituted a policy for Food Service. In the past, whenever they got a delivery, they used to leave the doors wide open, letting all the heat escape. So mainly because of security reasons, they have someone at the door to open and close them for the deliveries.

They've replaced most of the 32 watt bulbs with four foot 25 watt bulbs - this has reduced energy consumption by 21.8%; which is about 90-95% of the light fixtures in the schools. They also replaced all the exterior lights at Windham High, Middle, Sweeney, North Windham, and Windham Center schools with LED lights. They also reduced the lighting in the classrooms from three bulbs to two with reflectors at the Middle School.

They replaced the exterior lighting at Natchaug's Main building as part of the roof project with LED; there are two lights on the Gym that still need to be changed out - hopefully this summer. He said they've installed lighting sensors in the hallways - and less used areas, and replaced the lights with LED's. The main reason that they didn't replace them earlier is that the 25 watt bulbs are not significantly more efficient than what they had before - so the payback is longer.

They replaced a lot of the weather stripping and door closers on the doors. They've replaced numerous incandescent exist lights and emergency lights with LED lights throughout the schools system (Joe added that he will be doing this at other municipal buildings too).

The Chair commented that the emergency lights don't come on that often. Mr. Donaldson agreed and said they are only replacing them as they go out with LED - which will also provide a longer life of the fixture.

As of September 2015, the administration has banned all personal microwaves and refrigerators in the classrooms. They are also installing timers on all external lights - they were previously all on switches, and they wouldn't turn them off until he called and asked why the lights are still on; so they are now installing timers on the rest of the lights where they don't have them. At the Windham Center School, they installed a double control system on the parking lot lights. They are on from dusk until 11 PM, but they also have double motion detectors; so the only time that they will come on is when they are tripped on during the time period they are on during the specified time period. So after 11 they will not come on.

They upgraded the heating system in Wing 'A' at the Middle School as they could no longer get parts for it. They only thing left in that building (wing) is the ceiling in the auditorium which needs to be changed over. He added that they've replaced numerous heating control units throughout the district. Many of the radiators were running full blast because they weren't being controlled properly, and the windows were being opened up to get cooling in the rooms in the middle of winter. So they've solved a lot of that where they have the information, and he's notified the custodians to let him know when the windows are opened, or there is a defect in the system - so they can fix it.

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They are examining installing light sensors at Barrows to keep the lights off in the hallways. The building was originally designed with ambient sensors because it has a lot of windows in the hallways; but that was eliminated as a cost saving measure. So now they're are working on putting them in to cut down on the excess lighting when they're not needed during the daytime. They've begun an energy analysis of the Barrows building, as the energy usage was projected at \$60,000 per year; but they're running close to \$200,000. James asked if the solar panels are off-setting this. Mr. Donaldson said that they haven't been for the year yet. In February, the projected bill was \$6,200, but it came in at \$31,000. He went on to say that they raised the energy settings at Barrows in the IT and Energy closets from 65 up to 78 degrees.

They've upgraded the air-conditioning unit at the High School auditorium and server room to more efficient units. Kramer is scheduled more efficient unit in their server room.

The Chair asked about the Conn-Ed project. Mr. Donaldson said that was about 5-6 years ago- before his time; but he has serious concerns about the energy savings. He said he contacted Celtic Energy who was their representative on the project. Conn-Ed is billing us from \$80,000 to close to \$100,000 per year to do the 'MNV'S' report yearly. They do claim a savings, but he has serious doubts about the savings. The Chair asked about Friar Assoc- architects for the project, as they had projected energy savings. Mr. Donaldson said he's looked at the Benchmarking and has questions about the figures, as he knows that there are more computers in the building, and that may be eating up the savings. Conn-Ed is not taking that into consideration, as they are still showing significant savings - like \$600,000 per year. He said he sent the MNV's to Celtic for them to look them over and advise him on whether they need to do something else.

Grace Adams asked for clarification about Conn-Ed, and Mr. Donaldson explained that its Conn-Ed Solutions which is a division of Conn-Ed, and they do work here in the northeast.

Other discussion ensued about the computers that are supposed to monitor the entire energy system, and Mr. Donaldson confirmed that it does work, but that individuals are constantly complaining about being either too warm or too cold - sometimes in the same room. So - he's going to issue all the head custodians a temperature sensor to check temperatures. If they find that the temps are at the designated temperature, they will not change anything. He added that they've had a problem at Barrows, because they could not reach the designed temperature. Next, discussion turned to whether the solar panels were off-setting the energy costs as this was added after the building was constructed - and was not part of the original design - in spite of the fact that it's an all-electric building. Mr. Donaldson said they are investigating the billing and credit, but he is looking at possibly added propane heaters to part of the building - as there are two different heating systems. It's supposed to distribute heat from one side where the sun heats up the room through the glassed areas - and move this to other parts of the building where its cool. They also have radiant hot water panels along the window wall, the floor, as well as the kindergarten and pre-k wing. There are about 30 electric boilers; so they are looking to replace these with propane - which could be a significant savings.

**Micro-grid report** - Mr. Donaldson updated the Commission on the progress informing them that Frair Associates was awarded the contract to develop it, and the (Building) Committee has instructed them to investigate installing con-gen in the Middle School instead of just the generators. So they

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came back with a proposal that has a five year pay-back. Originally, the project planned to install the Solar Panels in the field surrounding the track as they knew that the Middle School roof would need to be replaced soon. But now they are looking at replacing the roof as this would be eligible for School Facilities reimbursement - but may not be the full amount that they typically get. It's a \$2 million project, but they may get up to 70% reimbursement. So they have put the project off until 2016 in the hope that they can get the roof and Co-Generation done first; then the solar would probably go on in 2017. They're not sure how this will affect the DEEP Grant for the Micro-grid. They got an extension on the grant until August 2016. The Solar is not really part of the grant, but the Co-Gen and the interconnection between Sweeney and the Middle School is - so they need to get that completed by the end of August next year. The idea is to complete the Co-Gen for the Middle School to serve as a shelter and to provide up to about 100kW, and this would power Sweeney 100%. Sweeney's load is only 60 kW, and it's a trade off to go entirely with the Co-Gen, or look at putting in a switching gear and eliminating some of the circuits that are not needed for the shelter. The Chair asked if the solar would be eligible for State reimbursement grant for the school. Mr. Donaldson said it is, and has been assigned a project number - it's just awaiting Legislative authorization - and Bonding Commission to approve it after that. Joe Gardner added that they are going to install a lighter roof on the building. The current one is a stone ballast roof, so when they take that off, the new roof will still be able to handle the extra weight of the Solar panels. When they re-did the High School roof, they had a Structural Engineer analyze the roof - but found that it would not bear the weight of the solar panels; otherwise they would have put a huge system on the High School. Mr. Donaldson added that the original plan had calculated that the solar panels would add ten pounds per square foot, but now they have learned that they will be about 4 to 5 pounds per square foot - so they are lighter. More discussion ensued about changing technology that is improving solar panels and to reduce weight - so it may be possible later to look at installing solar on the buildings like the High School.

**Miscellaneous - Virtual Net Metering** - The Chair reiterated that the Energy Commission recommended that the Town have its staff look into virtual net metering. Joe Gardner said that he asked the new Economic Development Director will be contacting Solar City to see what they're doing in Putnam and Norwich. He advocated putting one - either on the Town Landfill or the South Windham site that the Town owns; we could level off about five acres as its nearly level now. Much discussion ensued

**Update on street lights** - The Chair asked Joe Gardner about whether we should inviting Eversource to meet with the Commission - or if we should just advocate going on our own with a private contractor. Joe said that originally, the Town Manager and Controller wanted to ask Eversource to give us a price on upgrading the lights to LED, and what they would charge us - hopefully less. But when he spoke with the Eversource account executive - he wasn't enthusiastic about doing the conversion; and the figures for converting to LED didn't appear to show much savings. It seemed as though Eversource - is likely to outsource maintenance - so there's likely to be more delay during any storm damage repair. So, after weighing this information, Joe said he would discuss the idea with the Town Manager - of issuing an RFP to get prices from private contractors. Much discussion ensued, with the Commission supporting this idea as the most expeditious way of getting control of the Town's street lighting system. Joe cautioned that this is only for the head of the light fixture, as we would still be leasing the distribution lines, poles, and control arms for the fixtures. The Chair opined that the one thing she liked about Tanko Lighting is that they were going to analyze every light fixture, and make a

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recommendation on whether it was adequate or improperly had light spilling onto a residence. Joe Gardner agreed, and said that Eversource has no plan to do this. The Chair said that the Commission advocates and supports the Town doing this.

**Proposal re: improved mileage for town vehicles from Tom Markland** - *Mr. Markland said he's worked on cars for awhile, and can improve efficiency by 20%. He made a presentation with power point slides to demonstrate his point. The Chair agreed, that the Town's vehicles use a lot of fuel, especially the police cars - as they get very poor mileage. Mention was made of employing hydropower, and electric vehicle charging stations that will soon appear at retail outlets - such as Wal-Mart and BJ's. Also - using programmable thermostats at Public Housing Facilities like Ashton Towers.*

Meeting was adjourned at 7:55 PM

Respectfully submitted, James Finger