

## Enfield Energy Committee Minutes

"To identify energy savings for the Town and energy savings opportunities for the community".

Our current goal is to reduce the Town's total energy consumption by 25% (relative to the 2007 baseline data) by the end of the 2011 calendar year.

Meeting Date: Tuesday, Jan 25, 2011, Time: 5:15 PM

Location: Whitney Hall Conference Room,  
23 Main Street, Enfield, NH

### I Call to order

The meeting was called to order at 1718 by Kim

EEC Members Present: Kim, Steve, Charlie, Larry, Richard, Kim, Wendell

Guests: Leeds Buchard LED Conversions

Nate Miller Upper Valley Regional Planning Commission

### II Approval of minutes

o Meeting Minutes, Nov 23, 2010

o Motion to approve minutes was made by Rich and seconded by Larry. minutes were approved unanimously.

### III Public Comment

o Nate Miller, Upper Valley Lake Sunapee planning commission, working with Enfield on updates to the Master Plan - spoke with us about Enfield's Energy Chapter.

Nate is on loan to the town one day a week. Has been with the Upper Valley Regional Planning Commission for 5 years, primary job focus is transportation planning. Nate is helping Enfield with planning, and Enfield's Master Plan. 1995 was the last adopted Master Plan.

Mike Mccrory, also from UV Regional Planning, is focused on town energy issues and will help us specifically with the energy chapter. The UV Regional Planning Commission has a staff of 9 and are located in the whitman building on Water Street in Lebanon.

Since this is funded by ETAP (Energy Technical Assistance Program), we will be required to use the appropriate database for entering our energy usage and allow for it to be public data (which it already is, or should be).

### IV Old Business

o Enfield's Energy Policy chapter for Master Plan (Charlie)

Also see the Village map and district chart

We spent some time going over Charlie's energy chapter outline. See the detailed notes at the end of the minutes. It was agreed that Charlie, Kim, Nate and Mike would meet to continue work on this and follow a format similar to other chapters. Nate will pass on the drafts of the two chapters that have already been started.

- o EECBG Lighting Grant update (LEDConversion Updated Doc)

- Review additions for new lighting, and brochure on Photo controls

After a review of the updated proposal document, Steve made a motion to accept project as describe in the documents above, with the addition of the 88W package at Whitney Hall and two lights at the Police Department, pending approvals from Chief Crate for PD work and Steve Schneider for Whitney Hall work, and David Crate for fire station work. Wendell seconded, it was unanimously approved.

There may still be an additional \$1500 - \$2000 left over which we might be able to use to replace maybe two wall pack lights at the community center or to put a light on the flagpole by the laundromat.

Kim to check who owns flagpole in the parking lot.

- o Plainfield Energy Expo -- Saturday Jan 29, 2011

Announcement. There is a plainfield energy expo.

Two free movies friday night (at hayes auditorium at kua), "no impact man" and "crude awakening".

- o List of Enfield people with renewable energy projects

Rich read two responses which expressed reluctance to publicize their renewable energy systems. The board will think about ways to gather the information we're looking for with these surveys while addressing people's privacy concerns.

- o Police Dept TED report (kim, update)

We reviewed data, there is a definite large base load, next step to identify the load. Kim will try to set up the next meeting at PD to put current probe on each breaker output to identify which circuit has the load.

- o Solar Roller (solar power demonstration trailer/float)

need a trailer

- o Alternative transportation ideas in the parade

maybe get the GEM electric car from lakeview auto to pull the solar roller trailer?

- Info/display on Veteran's Park lighting

- Action Items: Look for pictures of old and new energy sources, find hay wagon for Rolling Solar Display, research environmentally firework display (Laser show!?!)

o Whitney Hall energy audit?

Not yet received

o DPW Lighting audit (National Grid)?

Not yet received

o Town building energy usage, next report for all of 2010

charlie has 2010 core building usage for last 6 months of 2010

whitney electric usage is down

PD has made the most improvement in usage.

#### V New Business

Rich received in the mail an advertisement for <http://www.communityenergyinc.com>

It was not immediately clear what this program is other than an opportunity to support renewable energy and have the cost charged to your electric bill. Steve to investigate what this is.

#### VI Other Items

o Next meeting, Tues, Feb 22, 2011

#### List of Accomplishments:

- Tracking Enfield buildings energy usage, electrical, fossil fuels, vehicles
- Google map of streetlights
- No Idling signs around town
- MEAP grant for Energy analysis and audit of Whitney Hall
- Energy Policy audit for Enfield
- ARRA grant (\$19,000) for Veteran's park and Main St lighting upgrades

#### VII Adjournment

We adjourned at 7:13 PM.

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#### DETAILED NOTES on Energy Chapter ideas:

Review of Charlie's outline of the energy chapter for the Master Plan.

zoning which is in place in enfield at this time. produced a chart comparing different existing zoning districts and a new district which charlie is proposing as part of this plan.

energy audit which was performed by MEEP talks about having an energy future vision for the town. this is addressed in section one of charlies plan in progress. next two sections are land use and transportation which are the two biggest energy usage in town, and they are vehicles and buildings, trying to address muni and residential use of both in this plan.

energy management has to do with record keeping as a planning tool. meep report usage by building use, street lighting use and vehicle use with vehicle use being our biggest cost and energy use. master plan hopes to address this.

charlies map zoning changes addresses top left portion of the town where the majority of the people live and travel through. not much on the south east side of town, most of our traffic runs east to lebanon/hanover.

nate: charlie thinks like a planner.

opportunities to survey residents to see transportation planning commission identified three regions of enfield, enfield, enfield center, shaker village  
charlie map connects those three areas

recreational travel is more on route 4a (bike traffic)

route 4 east area of the community business district will be some substantial public input on the pinkish reduced cb district area on the map (tiff district water extension). if water extends out there it will put development pressure on the area

want to get community input on the form of the development design charette invite citizens in town and land owners in that area to discuss how that development might play out. the purpose of the charette is to develop a vision for the form and function of the future of that area, and then take a look at whatever zoning might be in place now which might negatively impact that vision.

master plan is looking at village center concept in the three nodes  
village center zone (proposed) makes lot size smaller to fit more people in where transportation exists.

discussion about pedestrian and bike paths on route 4 and 4a and encouraging safe walking / bike routes. transportation / enhancement funding might be available within the next year. master plan talks about enhanced shoulder, rail trail pedestrian access. called a few specific areas 4a to shaker

village might be useful to extend that to enfield center.

telecommuting part of an entire realm of "transportation demand management", there is a group which the town is involved in the upper valley transportation management association (TMA vital communities) mission is to encourage employers to incorporate incentives for their employees to reduce transportation demands, dartmouth college instituted a parking buyback where they pay their employees to not have a parking permit to encourage them to use the bus/carpool. encourage the town to continue to work with that group.

waste management: is that part of energy? its in another chapter, but some of them overlap.

alisa: where would internet fit in. fastroads project. high speed available from shaker hill road out to grafton. supposed to allow residents to connect to fiber. 12 to 18 months should be available.

we have 81 miles of maintained town roads the town maintains 58 miles of it; 13.78 miles of class 4 roads (route 4, route 4a and other state maintained roads); not including route 4 or 4a (state roads)

shaker hill and main street are state roads, but we maintain them. 17 trucks in the fleet

looking at trading road maintenance areas so that lebanon plows out by exit 16

and someone else might

route 4a has bike/pedestrian area which ends at the enfield town line. they ran out of money and the properties are closer to the road in enfield making it more difficult.

enhanced bike / pedestrian paths covers wider shoulders, making the fog line fit on the pavement.

charlie: thinks it is important that energy committee all be on the same page.

next steps: mike mccrory to meet with us.

committee agrees that the work charlie has done to date has been great and is going in the right direction, couple of things still need to be fleshed out, but overall there is no objection to the direction which he is taking.

the chapter will have to be in same template format as other chapters, while

we might not have a transportation section in our plan, we can reference other chapters.

charlie and kim will work with mike and nate to arrange for their presence at a future meeting, and in the meantime planning commission will work with members of the committee to continue work on the energy chapter.

would like to get energy chapter within the next 2-3 months, the energy chapter is being developed from scratch. there are 12 chapters that will be part of the plan. the 1995 version had 17 chapters. other chapters to keep in mind are land use (which should be put together by spring), transportation, community facilities and services (which includes solid waste).

Action item: Charlie - Draft a survey for town meeting, put together survey for February meeting.

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DETAILED NOTES on LIGHT UPGRADE:

Additional work to be done

Whitney hall.

Flag 1500 watt

Wall pack. Keep existing fixture retrofit the guts, metal halide loose about 30% of their output after 6 months.

Not sure if it is a 200 watt or 400 watt fixture in there now. if 400w would put in 8r 88watts puts out 7500 lumens, if it is a 250 he might step down to 5r and draws 55 watts. price diff is couple hundred dollars.

light on police station is high pressure sodium (yellow light). leds were never intended to replace hps which is a wash light, led is more directional floor lighting. thinks it is a 400w

but it wont give the same coverage. thinks second light on a motion detector would cover. labor up to \$500 if they had to home run it to the breaker panel, tho they might be able to cheat it off the existing light.

depot street and union street are utility company lights.

wall pack on union street is 150 watt fire station.

photo cells are \$13.30

flags have their own photo cell and granite sign has its own sign.

for the 4 pole lights it is behind the power panel

advantage of putting photo cells is it would give more control over when the lights come on. would need one for the four light posts.