# City

# Manager

# Response

From:	James D Chaousis II <jchaousis@ci.rockland.me.us></jchaousis@ci.rockland.me.us>
Sent:	Monday, May 02, 2016 12:42 PM
То:	Louise MacLellan-Ruf
Cc:	abell@ci.rockland.me.us
Subject:	Fwd: Review Standards > Power Generation Facilities Over 10 MW
Attachments:	2016_01.14_Energy_Committee_Meeting_Agenda_Materials_2.pdf; Untitled attachment
	00343.htm

This memo is the first reference of the consultants that I could find

Jim C

Sent from my iPhone

Begin forwarded message:

From: "Larry Pritchett" <<u>larrypritchett.council@gmail.com</u>> Date: January 19, 2016 at 12:37:24 PM EST To: "Eric Laustsen " <<u>candles@danicacandles.com</u>> Cc: "Jim Chaousis'" <<u>jchaousis@ci.rockland.me.us</u>>, <<u>jroot@ci.rockland.me.us</u>>, "'P vanVuuren'" <<u>vvassoc@midcoast.com</u>>, <<u>cjordan@mainevaluation.com</u>>, "'Abbie Knickelbein'" <<u>abbiejn@gmail.com</u>> Subject: Review Standards > Power Generation Facilities Over 10 MW

Hi Eric,

As I assume you are aware the Council enacted last week a moratorium on new applications to build power generation facilities large than 10 Megawatts. As Chair of the Energy Committee, I wanted to reach out to you as Chair of the Planning Board in regard to the steps stipulated in the moratorium for the two committees.

I have attached a PDF that contains both the moratorium as enacted (pages 3 and 4) as well as the steps the Energy Committee began to take at its meeting last Thursday (see pages 1 and 2 for Committee meeting agenda from 7/14, the Committee was working on Agenda Item 5 when the meeting adjourned).

Broadly speaking, Energy is to provide to PB information on areas for review identified to date as well and options for technical support. And, going forward, the Energy Committee is to be a resource for the Board as requested by the Planning Board Chair. I would be glad to meet with you, or attend a PB meeting, to discuss this process.

I also wanted to extend an invitation to have one or two Planning Board members attend the next few Energy Committee meetings (see dates in PDF) to help insure that the information coming from Energy to Planning Board provides a solid starting point for the Board. Let me know how you would like to proceed.

Best, Larry 594-8806

# Committee Meeting Agenda

## Date: January 14, 2016 Meeting

- Members: Larry Pritchett, Bill Pearce, Tony Coyne, Brooks Winner Nathan Davis (Mayor Has Nominated/Pending Council Confirmation)
- Agenda: Larry Pritchett Committee Chair
- Minutes: Bill Pearce {None: When Minutes Completed In Italicized Text In Brackets Below}

# 1 Introduce Nate

# { }

2 Review Moratorium On Power Generation Facilities Over 10 MW

# { }

<u>3 Confirm Energy Meeting Dates Related To Moratorium Schedule</u>
Scheduled To Provide "Issues Summary" For Planning Board
1/14 Thursday 4:30 PM (Council Chambers)
1/21 Thursday 4:30 PM (Council Chambers)
1/25 Monday 4:30 PM (Library Community Room)
Note: Energy Should Vote On Summary For Planning Board On 1/25

Schedule Additional Tentative Meetings On Technical Advisor(s) Question Note: EC Needs To Vote On List Of Options By 2/10

# { }

4 Review Presenters' Slides From August 19th Forum SMRT/Everett

CLF/Cunningham

OPA/Schneider

{ }

# 5 Review Of Questions From Two City Forums

Note: See Separate PDF's from May & August Forums For Community Questions

Note: Request Similar Info From Renew Rockland's Forum

# { }

<u>6 Initial Discussion Of Issues For Planning Board Consideration</u> What is the most appropriate "forum" to address a particular question?

What might be MePUC questions?

What might be MeDEP questions?

What might be local TIF (if requested) questions, but not Planning Board Questions?

What are clearly local regulatory questions?

# { }

# 7 Initial Discussion Of Possible Technical/Legal Advisors (If Time Permits)

# { }

<u>8 Committee Member Tasks Prior To January 21 Meeting</u> Start Initial Draft Of Issues For PB Outline?

Contact CLF?

Contact SMRT?

Contact Woodard & Curran?

Contact Panelist From Renew Rockland Forum?

Any Others At This Stage?

Do an RFI For Technical Assistance?

# CITY OF ROCKLAND, MAINE

## **ORDINANCE AMENDMENT #48**

## IN CITY COUNCIL

December 14, 2015

## ORDINANCE AMENDMENT: Establishing Moratorium On Site Plan Applications For New Grid-Scale Power Generation Facilities

WHEREAS, properties within the City of Rockland have become a focus for a proposal to construct a gas-fired, combined-cycle electric power generation facility; and

WHEREAS, if not properly sited and designed and regulated, grid-scale power generation facilities can be a source of considerable air, water and noise pollution that can adversely impact the neighborhoods and communities where these facilities are located, thereby endangering public health, safety, and welfare; and

WHEREAS, public and professional comments have raised questions as to whether the City's current noise standards are an appropriate tool for addressing the specific types of sounds originating from grid scale combined cycle power generation facilities; and

WHEREAS, the City has no specific ordinance provisions governing acceptable sources or disposal options for the potentially large volumes of water needed for cooling grid scale combined cycled power generation facilities; and

WHEREAS, the City has no specific regulations governing potential impacts from the air emissions associated with large volume open cooling water towers that are utilized at many grid scale power generation facilities; and

WHEREAS, community members have questioned whether the City's commercial and industrial ordinance standards, which were developed for large volume retail and specialty manufacturing, provide appropriate regulation for a grid scale power generation facility when this type of generation facility is located on parcels abutting residential zones or historic districts; and

WHEREAS, appropriate zoning limitations, site plan and performance standards, and other municipal regulations can ameliorate the impacts of grid-scale power generation facilities by requiring their location in industrial areas; by limiting noise, vibration, and emissions; and by requiring appropriate buffering and screening from public ways, residential areas, and other incompatible uses; and

WHEREAS; the development of natural gas fired combined cycle power generation facility would require the construction of a natural gas distribution line into the City to provide fuel; and

WHEREAS; the City's street opening ordinances do not include provisions that provide for adequate inspection of natural gas piping as it is being installed to insure leaks are avoided; and

WHEREAS, the City Council hereby finds that, to avoid the serious public harms that reasonably may ensue from the unregulated siting and development of grid-scale power generation facilities in the City, a moratorium is needed while the City studies, drafts, and adopts one or more zoning or other ordinance amendments to establish reasonable municipal regulations for grid-scale power generation facilities to avoid and/or ameliorate such public harms,

# NOW, THEREFORE, THE CITY OF ROCKLAND HEREBY ORDAINS AS FOLLOWS:

THAT, pursuant to Title 30-A, Maine Revised Statutes, Section 4356, a moratorium is hereby established barring the acceptance of new site plan applications, and the processing of and action upon site plan applications filed with the City on or after December 14, 2015, for the construction of electrical power generation facilities having a capacity in excess of 10 megawatts in the City of Rockland for 180 days. The provisions of this moratorium do not apply to businesses constructing heating or power generation systems to meet on-site heating and/or power needs; and

**THAT**, within 14 days of the Council's adoption of this ordinance in second reading the City's Energy Committee is directed to convey to the Planning Board a summary of any issues that the Committee recommends be considered by the Planning Board based on the forums held by the Committee and the Energy Committee is also directed to provide advice or assistance to the Planning Board as may be requested by the Board's Chairman; and

**THAT**, within 30 days of the Council's adoption of this ordinance in second reading the City Manager, in consultation with the Energy Committee, is directed to provide options for technical experts from which the to Planning Board can select for technical experts to advise the Board as needed the Board may choose in this process; and

THAT, no later than March 4, the City Manager is directed to bring before Council for its consideration a draft of a street opening ordinance that addresses the technical questions, inspection requirements, and responsibility for costs related to the installation of natural gas distribution lines and any other infrastructure changes that should be made in tandem with this work; and

**THAT**, the Planning Board is directed, no later than March 4, 2016, to draft for City Council consideration, an ordinance or ordinances regulating the siting and development of grid-scale power generation facilities in the City of Rockland.

Sponsor: Councilor Jillson Originator: Councilor Jillson

From:	James D Chaousis II <jchaousis@ci.rockland.me.us></jchaousis@ci.rockland.me.us>
Sent:	Monday, May 02, 2016 12:44 PM
То:	Louise MacLellan-Ruf
Cc:	abell@ci.rockland.me.us
Subject:	Fwd: Ordinance Amendment 48 > Moratorium > New > Power Generation Facilities >
	Over 10 MW Capacity
Attachments:	Untitled attachment 00334.pdf; Untitled attachment 00337.htm

This memo supports the timeline

Jim C

Sent from my iPhone

Begin forwarded message:

From: "Larry Pritchett" <<u>larrypritchett.council@gmail.com</u>> Date: February 4, 2016 at 9:35:58 PM EST

**To:** "Eric Laustsen " <<u>candles@danicacandles.com</u>>, "'P vanVuuren'" <<u>vvassoc@midcoast.com</u>>, "'Abbie Knickelbein'" <<u>abbiejn@gmail.com</u>>, "'Brian Harden'" <<u>brden@roadrunner.com</u>>

**Cc:** "'Pearce, Bill'" <<u>billpearce@roadrunner.com</u>>, "'Tony Coyne''' <<u>pntcoyne@gmail.com</u>>, "'Brooks Winner''' <<u>bwinner@islandinstitute.org</u>>, "'Nathan Davis''' <<u>n.kroms.davis@gmail.com</u>>, "'Jim Chaousis''' <<u>jchaousis@ci.rockland.me.us</u>>, "'Audra Bell''' <<u>abell@ci.rockland.me.us</u>>, "Lousie MacLellan-Ruf " <<u>louisemaclellanruf@gmail.com</u>>, "Will Clayton " <<u>williamclayton79@gmail.com</u>>,

<<u>Valli.citycouncil@gmail.com</u>>, "'Bill Jillson'" <<u>BillJillson.Council@GMail.Com</u>>,

<jroot@ci.rockland.me.us>, "Kevin Beal " <kbeal@ci.rockland.me.us>

Subject: Ordinance Amendment 48 > Moratorium > New > Power Generation Facilities > Over 10 MW Capacity

Dear Eric & Members of the Planning Board,

First, to Eric let me say welcome back. Second, on behalf of the Energy Committee let me express our appreciation to Warren for attending the Committee's January 25th meeting as a representative of the Planning Board.

As you are aware, and as we discussed on the phone, on January 11th the City Council enacted a moratorium on new site plan applications for electrical power generation facilities over 10 megawatts in size.

The first task under the moratorium was for the Energy Committee "to convey to the Planning Board a summary of any issues that the Committee recommends be considered by the Planning based on the forums held by the Committee."

Following passage of the moratorium, the Energy Committee met on 1/14, 1/21 and 1/25 to review all of the community questions from the forums as well as the technical information from presentations. The attached bookmarked PDF constitutes the Energy Committee's summary for the Planning Board.

Please let me know how the Planning Board would like to proceed. Representatives from the Energy Committee could attend a Planning Board meeting and present this information. Or, the Energy

Committee and the Planning Board could schedule a joint meeting.

Also, I will note that the Energy Committee has a meeting scheduled for 2/10 to finalize a list of firms with expertise in the areas highlighted to provide technical support to the Planning Board as needed. It is the Energy Committee's intent to provide the Board with at least a couple of choices in each discipline.

Sincerely, Larry 594-8806

## Date: January 25, 2016 Meeting

Members: Larry Pritchett, Bill Pearce, Tony Coyne, Brooks Winner Nathan Davis (Mayor Has Nominated/Pending Council Confirmation)

To: Eric Laustsen & Members Of Planning Board

## Regarding: Ordinance Amendment #48 Development Of Standards For Grid Scale Power Generation Facilities

## 1. Summary/Overview

On January 11, 2016 the City Council enacted a moratorium on site plan applications for new power generation facilities over 10 megawatts in capacity. The moratorium as enacted does not apply to businesses constructing heating or power generation systems to meet on-site heating and/or power needs. The first step under the moratorium is for the City's Energy Committee to provide a summary of issues and questions that the Committee recommends be considered by the Planning Board based on the questions raised and information presented at the community forums facilitated by the Committee in 2015. This document constitutes that summary.

The Energy Committee held three meetings (1/14, 1/21 and 1/25) to review materials and develop this summary for the Planning Board. At the initial meet on January 14th, the Committee discussed at some length the types of power generation facilities that would likely be covered by this moratorium. While wind power projects are being built at sizes over 10 Megawatts, the City's long standing height ordinance precludes the construction of grid scale wind projects in the City. Likewise, solar is being developed at some locations on a scale over 10 megawatts. But a 10 MW solar farm would require 50 acres of land, which makes development on that scale in Rockland unlikely.

After some discussion the Committee concluded that in practice this moratorium would apply to a couple of related power generation technologies. First the moratorium would apply to facilities that use a liquid or gaseous fuel (biogas, natural gas, diesel, etc.) to power a turbine that drives a generator. Second, the moratorium would apply to facilities that burn some form of feedstock or fuel (biomass, natural gas, oil, biogas, etc.) to make steam that in turn drives a generator. Many modern power generation facilities utilize both processes (i.e., biogas or natural gas powers a turbine; the exhaust heat from the turbine is utilized to make steam that in turn powers a steam turbine).

The points detailed below are drafted around these types of technologies. The Committee also discussed that regulations should be crafted with careful thought not to inadvertently preclude renewable energy sources or preclude a business from installing power or heat generation equipment that would lower a business' emissions and energy consumption.

#### 2. Water Utilization, Recycling & Disposal

## A. <u>Background Information:</u>

Historically, many types of electrical power generation facilities utilized large volumes of water. Some of this water was used for equipment cooling. In many cases the largest water utilization was to make steam to drive generators. If this water was used on a "once through basis" (i.e., run through the power plant and then discharged to a water body or released into the air as low Noise Standards & Site Plan Evaluation Mechanism

pressure steam), daily water consumption by an electrical power plant could be on the scale of hundreds of thousands, if not millions, of gallons per day.

However technologies like "Combined Heat and Power" were developed to utilize the heat from the power generation process for manufacturing purposes or building heating and cooling. The U.S. Environmental Protection Agency supported research on these types of technologies in part because CHP type plants can, in a cost effective manner, dramatically reduce if not eliminate daily source water consumption and daily wastewater discharges from power generation facilities.

## B. Key Question(s):

1. Should the City add standards requiring a minimum percentage (50%? 85% or ???) of source water utilized in a combined cycle power generation facility, a combined heat and power facility or in a steam powered electrical generation facility for cooling, steam generation, or hot water distribution be recycled?

2. If the City requires a minimum level of water recycling, should that minimum requirement be reduced, or eliminated, if processed wastewater is the source water for the facility?

3. For a power generation facility, should the City add standards that would set an absolute maximum peak or average water consumption or set standards for drought conditons?

4. Should the city regulate or prohibit (if it does not already) thermal discharges to the municipal stormwater system or new direct thermal discharges to the harbor?

#### 3. Noise Standards & Site Plan Evaluation Mechanism

#### A. Background Information:

Electrical power generators may be driven by direct fuel powered turbines (i.e., natural gas, biogas, etc.) or by steam turbines (i.e., powered by heat recovered from the fuel driven turbines or from biomass or similar stream boilers). Both sides of this process (i.e., the turbine and the steam) may generate substantial noise that can have unique sound attributes.

### B. <u>Key Question(s)</u>:

1. Does the City need to modify its noise standards, or add specific site review noise modeling provisions that would be paid for by the applicant, to insure adequate analysis of potential sounds/noise attributable to processes in these types of electrical power generation facilities?

2. Should the City add local ordinances provisions governing either noise easements or sound mitigation measures on nearby properties?

## 4. Local Air Emissions And Meeting Emissions Reduction Targets

#### A. Background Information:

Burning virtually any fuel (natural gas, oil, biogas, diesel, solid waste, biomass, wood pellets, coal, etc.) generates some level of the air pollutants nitrogen oxides (NOx), sulfur oxides (SOx), particulate matter (PM10) and carbon dioxide (CO<sub>2</sub>). NOx, SOx and PM10 all can contribute to respiratory problems like asthma. In Maine, especially along the coast, these pollutants are the primary source of acid rain which degrades lake water quality and weakens softwood trees.

Carbon dioxide (CO<sub>2</sub>) emissions from burning fossil fuels are generally accepted as a major contributor to climate change. The best available data indicates CO<sub>2</sub> emissions and global warming present significant challenges to the Gulf of Maine due to related warming of the Gulf's historically cold waters and due to CO<sub>2</sub> emission making the Gulf more acidic. The northeast states have a goal of reducing CO<sub>2</sub> emissions by 80% from historic peaks by 2050.

High efficiency systems combined with emissions controls can limit emissions of SOx, NOx, and PM10 to low levels Utilizing technology like "Combined Heat and Power" allows electrical power to be generated and the heat from the power generation process utilized for other purposes. Thus electricity could be produced locally with no increase in emissions (or a reduction in emissions) if the recovered heat from new power generation displaces heat being generated by existing boilers.

## B. Key Question(s):

1. For power generation facilities developed to sell power, as opposed to facilities developed to directly supply a local business' energy needs,, should the City make site plan approval contingent on MeDEP approval of any required air emissions license for the proposed facility combined with an additional submittal by the applicant showing that the MeDEP approved emissions limits will lower air pollutants released locally (by a specific target percentage??) because of other existing local air emissions sources replaced by the facility or by efficiency measures implemented as a part of the project?

## 5. Standards Specific To Open Cooling Towers

#### A. Background Information:

In some cooling tower designs, the water being cooled cascades down an open tower directly exposed to the air as opposed to flowing through coiling coils. Steam/mist will be visibly under some (many) atmospheric conditions around open cooling towers. Utilized on a large scale, an open cooling tower may produce enough steam/fog/mist/precipitants in the immediate area to potentially be a nuisance or to potentially raise traffic safety questions.

#### B. Key Question(s):

1. Should the City either prohibit open cooling towers over a specific size or develop standards by which to evaluate larger open towers and to base conditions that avoid potential localized impacts?

#### 6. Traffic Impacts and Transportation Routes For Trucked Fuel/Feed Stock

#### A. Background Information:

Power generation facilities utilizing compressed natural gas (CNG), biomass (i.e., wood chips, wood pellets, straw, etc.) or solid waste could require more than a dozen 80,000 lb. GVW truck deliveries daily depending on the size of the facility (municipally owned 70 megawatt McNeil Biomass plant in Burlington Vermont as one example).

#### B. Key Question(s):

1. Should the City's site plan standards be revised to allow the City to specify which routes would be used, or the timing of deliveries, to supply the fuel to the facility?

2. Should the City's site plan standards be revised to allow the City to require the developer to pay for road or intersection improvements needed to safely accommodate added truck traffic providing fuel/feedstock to the facility?

# 7. Onsite Fuel/Feedstock Storage, Fugitive Emissions & Emergency Response Plan

# A. Background Information:

A natural gas fueled facility supplied by a pipeline would likely have some onsite fuel storage (either CNG or diesel). A biomass facility could have several days of feedstock stored onsite. A CNG supplied facility would have several trailers parked on site. Also, power generation facilities of these types would require an emergency response plan for both onsite fuel and the generation facility.

# B. Key Question(s):

1. Are any revisions needed to the City's site plan standards to insure appropriate screening and safety measures are required for onsite fuel storage or any other hazardous materials utilized?

2. Are any specific revisions needed to the City's site plan standards to address any potential fugitive emissions of fuels or other chemicals from a power generation facility?

3. Do the City's site plan standards (or other ordinances) require the developer to pay for any municipal costs related to the development of emergency response plans for the facility?

# 8. Development Of Properties on Zone Boundaries

# A. Background Information:

In some locations in the City properties in Commercial or Industrial zones on which a grid scale electrical power generation facility could be located are adjacent to, or across the street from, residential zones or existing residential uses.

# B. Key Question(s):

1. Should any supplemental revisions to setback, screening, or sound standards be added for grid scale power generation projects where the property on which the facility is proposed abuts a residential zone (or an existing residential use)?

# 9. Development Of Properties Abutting High Value Wetlands

# A. Background Information:

In some locations properties in Commercial or Industrial zones on which a grid scale electrical power generation facility could be located are adjacent to high value wetlands.

# B. <u>Key Question(s)</u>:

1. Should any supplemental revisions to setback, screening, sound or other standards be added for grid scale power generation projects where the property on which the facility is proposed abuts high value wetlands?

# 10. Fiscal Capacity Standard For Developer

# A. Background Information:

Grid scale electrical power generation facilities require multi-million dollar level of investment to bring to full operational status.

## Decommissioning Costs

## B. Key Question(s):

1. Is the City's financial capacity requirement adequate to insure that once permits are granted the facility will likely be completed and the City is not at any significant risk of acquiring a partially completed project due to unpaid taxes in the future?

## 11. Decommissioning Costs

## A. Background Information

Smaller power generation facilities likely raise no unique questions once closed than a range of other commercial and industrial uses the City permits. However larger power generation facilities (30 MW, 75 MW, 250 MW) may be of a scale that the facility would present substantial financial challenges to repurpose or demolish when closed down.

## B. Key Question

Should the City create a mechanism by which facilities over a specified size would be required to set aside some percentage of annual revenue from the sale of electricity generated into a City verifiable escrow account that can be used solely for decommissioning?

# 12. Questions Raised That Appear Not To Be Site Plan Or Zoning Questions

When the community forums were held, City Council had approved an option on both the current Public Services Garage site and the adjacent City Hall property with a developer who was considering constructing a combined heat and power generation facility up to 74 Megawatts in capacity. Many of the questions raised and concerns expressed can be translated into regulatory standards.

A few of the questions raised at the forums appear straightforward to consider as conditions to insure community benefits from the sale of public land. But the Energy Committee could not clearly identify any site plan aspect to these questions (or in one case noted below there is a local regulatory questions, but the issue appears to be mostly a street opening question and possibly not a site plan question). The Energy Committee decided to note these here in case there might be a Site Plan/Zoning facet to these which the Committee missed. And, all of these questions would appear valid if a developer requested a Credit Enhancement Agreement, or any similar form of City support.

## A. Not Displacing Cleaner Local Distributed Generation

Conservation Law Foundation's presentation, "Getting Natural Gas Right," at the August forum included the point that a natural gas powered facility should not displace cleaner local distributed sources of power generation

#### B. Local Community Benefit

Some new construction of power generation is targeted to meet local electrical needs (or even consumption of just one business, home or institution). Larger projects are often developed to sell power to the New England grid. In this later scenario the benefits are regional. One key question is what benefits associated with grid scale power generation projects benefit the local community? A second question is whether the city should consider negotiating monetary and/or non-monetary community benefits with the developer?

C. Standards For High Pressure Steam Lines/Safety Response to Steam Leaks

The Moratorium clearly envisions possible revisions to City's street opening ordinance to address natural gas lines and related questions. The moratorium does not mention steam lines. But thermal and pressure and joint standards may also warrant review.

## 13. Documents From Local Forums

The following documents are available on the City web site (and can be easily emailed to members of the Planning Board by the Energy Committee).

- A. May 26th Forum: EMI Slides & Energy Committee Record of Public Comments
- B. August 19th Forum: Greg Cunningham/Conservation Law Foundation Slides
- C. August 19th Forum: Tim Schneider/Public Advocate Slides
- D. August 19th Forum: Kathleen Everett/SMRT Slides
- E. August 19th Forum: Energy Committee Compilation of Community Questions

From: Sent: To: Cc: Subject: James D Chaousis II <jchaousis@ci.rockland.me.us> Monday, May 02, 2016 12:46 PM Louise MacLellan-Ruf abell@ci.rockland.me.us Fwd: Comps Commission and Energy Plants

Comps question

Jim C

Sent from my iPhone

Begin forwarded message:

From: "Larry Pritchett" <<u>larrypritchett.council@gmail.com</u>> Date: February 10, 2016 at 9:13:46 AM EST To: "Jim Chaousis" <<u>ichaousis@ci.rockland.me.us</u>> Subject: RE: Comps Commission and Energy Plants

Hi Jim,

Energy Committee has not referred anything to Comps. When I talked with Eric, he did not mention Comps either.

Larry

From: Jim Chaousis [mailto:jchaousis@ci.rockland.me.us] Sent: Wednesday, February 10, 2016 09:02 To: 'Larry Pritchett' Subject: Comps Commission and Energy Plants

Larry,

I am writing to inquire whether the Energy Committee tasked the Comprehensive Planning Commission with Energy Plant considerations. There were concerns that this process be done transparently to the point that the City Manager was purposefully kept at bay. I have been monitoring and assisting the Energy Committee and Planning Board in this very sensitive issue but I stumbled across the Comps Agenda. I wouldn't want this effort to pull away from the Energy Committee and Planning Boards transparent efforts. It is clearly outside their ordinance charge and outside the moratorium charge. Please advise.

Jim C

# CITY OF ROCKLAND COMPREHENSIVE PLANNING COMMISSION

# Meeting Agenda Thursday, February 11, 2016, 7pm

# **City Council Chambers**

- 1) Call to order and roll call
- 2) Adjustments to Agenda, if needed

# 3) Previous Meeting Minutes:

a) January 28, 2016

# 4) New Business:

- a) Continuation of Energy Plant discussion specific to protection of Rockland Harbor, air emissions, and ground/surface water protection
- b) Presentation by Eric Galant on Water Resources and Marine Resources Chapters
- c) Discussion on Chapter 14 and methods for tracking strategy implementation completion

# 5) Old Business:

- a) Pending draft Plan Updates:
  - \* Ch. 1 Population & Demographics
  - \* Ch. 2 Local Economy
  - \* Ch. 3 Agricultural & Forestry Resources (awaiting Galant presentation)
  - \* Ch. 4 Marine Resources (awaiting Galant presentation)
  - \* Ch. 7 Housing
  - \* Ch. 8 Transportation
- b) Historic Preservation Ordinance
- c) Park Street / Payne Avenue Gateway & Zoning Review
- d) Camden Street Smart Code
- 6) Next meeting date(s):

February 25, 2016 March 3, 2016

7) Adjournment

From:	James D Chaousis II <jchaousis@ci.rockland.me.us></jchaousis@ci.rockland.me.us>
Sent:	Monday, May 02, 2016 12:52 PM
То:	Louise MacLellan-Ruf
Cc:	abell@ci.rockland.me.us
Subject:	Fwd: Grid Scale Power > Ordinance > Engineers > Woodard & Curran/SMRT

Larry referenced in this email of getting together with me on contracts. That never happened

Jim C

Sent from my iPhone

Begin forwarded message:

From: "Larry Pritchett" <<u>larrypritchett.council@gmail.com</u>>
Date: February 26, 2016 at 11:54:22 AM EST
To: "'Eric Laustsen '" <<u>candles@danicacandles.com</u>>
Cc: <<u>jroot@ci.rockland.me.us</u>>, "'Jim Chaousis'" <<u>jchaousis@ci.rockland.me.us</u>>, "Kevin Beal "
<<u>kbeal@ci.rockland.me.us</u>>
Subject: RE: Grid Scale Power > Ordinance > Engineers > Woodard & Curran/SMRT

Hi Erik,

Woodard & Curran as well as SMRT (the firms Energy recommended the City utilize) are available on Tuesday 3/2 as well as Thursday 3/11. I'll work with JimC to have a agreement got services ready ahead of 3/2 (assuming you want to proceed as discussed). Any idea when Kevin will have the added revisions done so I can send it along to Dan and Mike?

Thanks, Larry

From: Larry Pritchett [mailto:larrypritchett.council@gmail.com]
Sent: Thursday, February 25, 2016 21:54
To: Eric Laustsen
Subject: Grid Scale Power > Ordinance > Engineers > Woodard & Curran/SMRT

Hi Erik,

I have talked to both Dan Kelly and Mike Chonko on Wednesday. Dan is working on a large energy project in RI and was unsure if he would be back on Tuesday. He was going to let me know today. I left him a voice mail message this evening on his cell phone.

Larry

From: Sent: To: Cc: Subject: James D Chaousis II <jchaousis@ci.rockland.me.us> Monday, May 02, 2016 12:46 PM Louise MacLellan-Ruf abell@ci.rockland.me.us Fwd: Comps Commission and Energy Plants

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Begin forwarded message:

From: "Larry Pritchett" <<u>larrypritchett.council@gmail.com</u>> Date: February 10, 2016 at 9:19:17 AM EST To: "Jim Chaousis'" <<u>ichaousis@ci.rockland.me.us</u>> Subject: RE: Comps Commission and Energy Plants

I'll call Adam Ackor and see if he attended the meeting and see what I learn.

LP

**From:** Jim Chaousis [<u>mailto:jchaousis@ci.rockland.me.us</u>] **Sent:** Wednesday, February 10, 2016 09:14 **To:** 'Larry Pritchett' **Subject:** RE: Comps Commission and Energy Plants

This concerns me. No authority figure is involved with sensitive action of a city commission. I will stay out of it but the City Council should be aware.

Jim C

From: Larry Pritchett [mailto:larrypritchett.council@gmail.com] Sent: Wednesday, February 10, 2016 9:14 AM To: 'Jim Chaousis' <<u>jchaousis@ci.rockland.me.us</u>> Subject: RE: Comps Commission and Energy Plants

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I am writing to inquire whether the Energy Committee tasked the Comprehensive Planning Commission with Energy Plant considerations. There were concerns that this process be done transparently to the point that the City Manager was purposefully kept at bay. I have been monitoring and assisting the Energy Committee and Planning Board in this very sensitive issue but I stumbled across the Comps Agenda. I wouldn't want this effort to pull away from the Energy Committee and Planning Boards transparent efforts. It is clearly outside their ordinance charge and outside the moratorium charge. Please advise.

Jim C

# CITY OF ROCKLAND COMPREHENSIVE PLANNING COMMISSION Meeting Agenda Thursday, February 11, 2016, 7pm

# **City Council Chambers**

- 1) Call to order and roll call
- 2) Adjustments to Agenda, if needed

## 3) Previous Meeting Minutes:

a) January 28, 2016

## 4) New Business:

- a) Continuation of Energy Plant discussion specific to protection of Rockland Harbor, air emissions, and ground/surface water protection
- b) Presentation by Eric Galant on Water Resources and Marine Resources Chapters
- c) Discussion on Chapter 14 and methods for tracking strategy implementation completion

# 5) Old Business:

- a) Pending draft Plan Updates:
  - \* Ch. 1 Population & Demographics
  - \* Ch. 2 Local Economy

- \* Ch. 3 Agricultural & Forestry Resources (awaiting Galant presentation)
  \* Ch. 4 Marine Resources (awaiting Galant presentation)
- \* Ch. 7 Housing
- \* Ch. 8 Transportation
- b) Historic Preservation Ordinance
- c) Park Street / Payne Avenue Gateway & Zoning Review
- d) Camden Street Smart Code
- 6) Next meeting date(s):

February 25, 2016 March 3, 2016

7) Adjournment

From: Sent: To: Cc: Subject: James D Chaousis II <jchaousis@ci.rockland.me.us> Monday, May 02, 2016 12:47 PM Louise MacLellan-Ruf abell@ci.rockland.me.us Fwd: COMPS > Energy > Moratorium > Questions

Jim C

Sent from my iPhone

Begin forwarded message:

From: "Larry Pritchett" <<u>larrypritchett.council@gmail.com</u>> Date: February 11, 2016 at 4:55:53 PM EST To: "'Jim Chaousis'" <<u>ichaousis@ci.rockland.me.us</u>> Subject: FW: COMPS > Energy > Moratorium > Questions

FYI

From: Nathan Davis [mailto:n.kroms.davis@gmail.com]
Sent: Thursday, February 11, 2016 15:57
To: Larry Pritchett
Cc: Amy Files; Adam Ackor; <u>Valli.citycouncil@gmail.com</u>
Subject: Re: COMPS > Energy > Moratorium > Questions

I'll just chime in to note that regardless of Comps vs PB, I am happy with the work Energy has done. In particular, the guidance we sent to PB regarding issues to consider was comprehensive and careful. -Nate

On Feb 11, 2016, at 2:59 PM, Larry Pritchett <<u>larrypritchett.council@gmail.com</u>> wrote:

Hi Amy,

I started getting questions (voice mail messages) yesterday about Comps and the moratorium on new applications for grid scale power generation. As you know, I try not to respond until I have the information on which the question(s) are based and can talk with the folk involved.

Unfortunately, I had an Energy Committee meeting last evening and am on the road today and have a Council meeting this evening. I eventually talked with Adam and then I got a copy of the COMPS meeting agenda and much later I talked with Valli. Two ideas to think about:

(1) To the extent that COMPS as a body may have questions specific to the Moratorium, I would toss out the idea that the Commission send a couple of folk to next Tuesday's Planning Board Meeting when Energy will be presenting the committee's recommendations to the Planning Board and discussing with PB the road forward. (2) To the extent Comps has energy policy questions for the Comprehensive Plan update, how about scheduling a meeting with Comps and Energy? The Energy Committee is tasked with city energy policy tasks and questions under existing ordinances.

I should be available in a narrow time window from about 5:00 PM to 5:45 PM this afternoon if you want to chat. I had a fairly extended conversation with Adam, so he can probably pass on 85% of what I know.

My own perspective (and I think it is Nathan's as well) is that Moratorium related tasks are going well. I hope we all can address (most) process concerns floating around and keep this moving forward.

I will add that I regret the Comps vs PB dynamic that developed for some. The first time I (and I think Bill) saw a draft on the moratorium it was tasked to PB. I asked Kevin and he pointed out the Chapter 16 compared to Chapter 19 distinction, which made sense to me.

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Many Thanks! Larry 594-8806 From:James D Chaousis II < jchaousis@ci.rockland.me.us>Sent:Monday, May 02, 2016 12:49 PMTo:Louise MacLellan-RufCc:abell@ci.rockland.me.usSubject:Fwd: Planning Board > Site Plan Standards > Grid Scale Power Generation Facilities

This is the first mention of specific consultants

Jim C

Sent from my iPhone

Begin forwarded message:

From: "Larry Pritchett" <<u>larrypritchett.council@gmail.com</u>>
Date: February 17, 2016 at 12:21:54 AM EST
To: "Eric Laustsen " <<u>candles@danicacandles.com</u>>
Cc: "Jim Chaousis'" <<u>jchaousis@ci.rockland.me.us</u>>, "'Nathan Davis'" <<u>n.kroms.davis@gmail.com</u>>,
<<u>jroot@ci.rockland.me.us</u>>, "'P vanVuuren'" <<u>vvassoc@midcoast.com</u>>
Subject: Planning Board > Site Plan Standards > Grid Scale Power Generation Facilities

Dear Eric,

Nathan and I talked some after the meeting to see if there were any missteps or omissions on Energy's side. Given how the "next steps" conversation evolved, we both regretted not bringing up one point. At Energy's meetings the Committee discussed the types of technical assistance the Planning Board might need.

The Committee identified four areas: (1) Engineering (i.e., water utilization, cooling towers, sound, etc.); (2) Environmental (i.e., air emissions, water discharge, potential wildlife impacts, etc.); (4) Site Law (i.e., how to best address specific major projects questions within the Maine's Site Plan Review framework); and (4) Energy Policy.

The first two (Engineering and Environmental) can be met by a single firm like Woodard and Curran (and others) that provide both technical engineering services and environmental assessment services. As per Tuesday evening's discussion, the Energy Committee will move ahead to line up a specific firm in this area for this project.

The Energy Committee also made recommendations on firms for the City to potentially utilize in this process for both the Site Law aspects and for Energy Policy questions. On the Site Law side the Energy Committee recommended the law firm of Jensen Baird Gardner and Henry.

JBGH has extensive experience supporting municipalities in developing site plan standards in complex areas of the law and supporting Planning Boards in the Site Plan review process. A range of parties (municipal officials, planners, engineers, environmental organizations, etc.) suggested the City consider JBGH for this work.

The Energy Committee also recommended the Conservation Law Foundation as a resource in this

process on energy policy and energy law. CLF's attorney's would not draft ordinance language for the City (JBGH obviously would if hired). But CLF's New England wide energy perspective could provide useful context.

The Energy Committee did not address the question of what the division of labor might be between the City's in house legal Counsel and outside legal services that has specific expertise in the areas in question. Energy was developing a list of firms with skills that could address all the areas identified in the specified time frame.

Not bringing up JBGH and CLF in this evening's meeting was a clear omission on Nathan's and my part. The next steps conversation came late in the meeting and neither Nathan nor I thought of this point until after the meeting.

Best, Larry 594-8806

From:	James D Chaousis II <jchaousis@ci.rockland.me.us></jchaousis@ci.rockland.me.us>
Sent:	Monday, May 02, 2016 12:50 PM
То:	Louise MacLellan-Ruf
Cc:	abell@ci.rockland.me.us
Subject:	Fwd: Rockland > Technical Specifications > Site Plan Review > Grid Scale Power
	Generation Facilities
Attachments:	Untitled attachment 00352.pdf; Untitled attachment 00355.htm

Jim C

Sent from my iPhone

Begin forwarded message:

From: "Larry Pritchett" <<u>larrypritchett.council@gmail.com</u>> Date: February 22, 2016 at 7:51:24 AM EST To: "Jim Chaousis'" <<u>ichaousis@ci.rockland.me.us</u>>, "Eric Laustsen " <<u>candles@danicacandles.com</u>> Subject: FW: Rockland > Technical Specifications > Site Plan Review > Grid Scale Power Generation Facilities

FYI

From: Larry Pritchett [mailto:larrypritchett.council@gmail.com]
Sent: Monday, February 22, 2016 07:35
To: 'Mike Chonko'; 'Dan Kelley'; <u>JCaplinger@TRCsolutions.com</u>
Subject: Rockland > Technical Specifications > Site Plan Review > Grid Scale Power Generation Facilities

Morning Dan, Mike and Juliette,

I, as chair of the City's Energy Committee, have spoken to each of you about the potential for SMRT, Woodard & Curran and/or TRC to provide technical assistance to the City's Energy Committee and Planning Board as a part of the ongoing process to update to the City's site plan standards covering power generation facilities.

The City intends to make a final decision on which firm, or combination of firms, to utilize at a meeting this Wednesday evening (i.e., 2/24). I have previously provided to all three firms the Energy Committee's 1/25 outline of questions/issues to be considered while updating the City's Site Plan standards (see attached).

The City could revise those into a Request for Services/Request for Qualifications format. Or, we could proceed using that outline as the reference document (or specific subsections of it) for any scope of services.

I want to be sure all firms have the same information. So, would a conference call today (Monday 2/22) or tomorrow (Tuesday 2/23) be helpful? Let me know how it seems simplest to proceed from each of your firms' perspective.

Also, please let me know if any of the items identified on the 1/25 outline are outside what you would consider your respective firms clear area of expertise. When I last spoke to Dan, he tossed out the idea of splitting/sharing the tasks (i.e., for example, one firm doing the water components and another doing sound).

The City has no objection to that approach. I will call each of you early afternoon today if I had not received a reply to this email. Thanks to all of you for considering assisting the City on this project. Each firm is welcome to attend the Energy Committee's meeting on Wednesday 2/24 (at 4:30 in Council Chambers) as well.

Sincerely, Larry R. Pritchett, Chair City of Rockland Energy Committee Phone: (207) 594-8806

## Date: January 25, 2016 Meeting

Members: Larry Pritchett, Bill Pearce, Tony Coyne, Brooks Winner Nathan Davis (Mayor Has Nominated/Pending Council Confirmation)

To: Eric Laustsen & Members Of Planning Board

## Regarding: Ordinance Amendment #48 Development Of Standards For Grid Scale Power Generation Facilities

# 1. Summary/Overview

On January 11, 2016 the City Council enacted a moratorium on site plan applications for new power generation facilities over 10 megawatts in capacity. The moratorium as enacted does not apply to businesses constructing heating or power generation systems to meet on-site heating and/or power needs. The first step under the moratorium is for the City's Energy Committee to provide a summary of issues and questions that the Committee recommends be considered by the Planning Board based on the questions raised and information presented at the community forums facilitated by the Committee in 2015. This document constitutes that summary.

The Energy Committee held three meetings (1/14, 1/21 and 1/25) to review materials and develop this summary for the Planning Board. At the initial meet on January 14th, the Committee discussed at some length the types of power generation facilities that would likely be covered by this moratorium. While wind power projects are being built at sizes over 10 Megawatts, the City's long standing height ordinance precludes the construction of grid scale wind projects in the City. Likewise, solar is being developed at some locations on a scale over 10 megawatts. But a 10 MW solar farm would require 50 acres of land, which makes development on that scale in Rockland unlikely.

After some discussion the Committee concluded that in practice this moratorium would apply to a couple of related power generation technologies. First the moratorium would apply to facilities that use a liquid or gaseous fuel (biogas, natural gas, diesel, etc.) to power a turbine that drives a generator. Second, the moratorium would apply to facilities that burn some form of feedstock or fuel (biomass, natural gas, oil, biogas, etc.) to make steam that in turn drives a generator. Many modern power generation facilities utilize both processes (i.e., biogas or natural gas powers a turbine; the exhaust heat from the turbine is utilized to make steam that in turn powers a steam turbine).

The points detailed below are drafted around these types of technologies. The Committee also discussed that regulations should be crafted with careful thought not to inadvertently preclude renewable energy sources or preclude a business from installing power or heat generation equipment that would lower a business' emissions and energy consumption.

## 2. Water Utilization, Recycling & Disposal

## A. Background Information:

Historically, many types of electrical power generation facilities utilized large volumes of water. Some of this water was used for equipment cooling. In many cases the largest water utilization was to make steam to drive generators. If this water was used on a "once through basis" (i.e., run through the power plant and then discharged to a water body or released into the air as low pressure steam), daily water consumption by an electrical power plant could be on the scale of hundreds of thousands, if not millions, of gallons per day.

However technologies like "Combined Heat and Power" were developed to utilize the heat from the power generation process for manufacturing purposes or building heating and cooling. The U.S. Environmental Protection Agency supported research on these types of technologies in part because CHP type plants can, in a cost effective manner, dramatically reduce if not eliminate daily source water consumption and daily wastewater discharges from power generation facilities.

## B. Key Question(s):

1. Should the City add standards requiring a minimum percentage (50%? 85% or ???) of source water utilized in a combined cycle power generation facility, a combined heat and power facility or in a steam powered electrical generation facility for cooling, steam generation, or hot water distribution be recycled?

2. If the City requires a minimum level of water recycling, should that minimum requirement be reduced, or eliminated, if processed wastewater is the source water for the facility?

3. For a power generation facility, should the City add standards that would set an absolute maximum peak or average water consumption or set standards for drought conditons?

4. Should the city regulate or prohibit (if it does not already) thermal discharges to the municipal stormwater system or new direct thermal discharges to the harbor?

#### 3. Noise Standards & Site Plan Evaluation Mechanism

#### A. Background Information:

Electrical power generators may be driven by direct fuel powered turbines (i.e., natural gas, biogas, etc.) or by steam turbines (i.e., powered by heat recovered from the fuel driven turbines or from biomass or similar stream boilers). Both sides of this process (i.e., the turbine and the steam) may generate substantial noise that can have unique sound attributes.

#### B. <u>Key Question(s)</u>:

1. Does the City need to modify its noise standards, or add specific site review noise modeling provisions that would be paid for by the applicant, to insure adequate analysis of potential sounds/noise attributable to processes in these types of electrical power generation facilities?

2. Should the City add local ordinances provisions governing either noise easements or sound mitigation measures on nearby properties?

#### 4. Local Air Emissions And Meeting Emissions Reduction Targets

#### A. Background Information:

Burning virtually any fuel (natural gas, oil, biogas, diesel, solid waste, biomass, wood pellets, coal, etc.) generates some level of the air pollutants nitrogen oxides (NOx), sulfur oxides (SOx), particulate matter (PM10) and carbon dioxide (CO2). NOx, SOx and PM10 all can contribute to respiratory problems like asthma. In Maine, especially along the coast, these pollutants are the primary source of acid rain which degrades lake water quality and weakens softwood trees.

Carbon dioxide (CO2) emissions from burning fossil fuels are generally accepted as a major contributor to climate change. The best available data indicates CO2 emissions and global warming present significant challenges to the Gulf of Maine due to related warming of the Gulf's historically cold waters and due to CO2 emission making the Gulf more acidic. The northeast states have a goal of reducing CO2 emissions by 80% from historic peaks by 2050.

High efficiency systems combined with emissions controls can limit emissions of SOx, NOx, and PM10 to low levels Utilizing technology like "Combined Heat and Power" allows electrical power to be generated and the heat from the power generation process utilized for other purposes. Thus electricity could be produced locally with no increase in emissions (or a reduction in emissions) if the recovered heat from new power generation displaces heat being generated by existing boilers.

#### B. Key Question(s):

1. For power generation facilities developed to sell power, as opposed to facilities developed to directly supply a local business' energy needs,, should the City make site plan approval contingent on MeDEP approval of any required air emissions license for the proposed facility combined with an additional submittal by the applicant showing that the MeDEP approved emissions limits will lower air pollutants released locally (by a specific target percentage??) because of other existing local air emissions sources replaced by the facility or by efficiency measures implemented as a part of the project?

## 5. Standards Specific To Open Cooling Towers

#### A. Background Information:

In some cooling tower designs, the water being cooled cascades down an open tower directly exposed to the air as opposed to flowing through coiling coils. Steam/mist will be visibly under some (many) atmospheric conditions around open cooling towers. Utilized on a large scale, an open cooling tower may produce enough steam/fog/mist/precipitants in the immediate area to potentially be a nuisance or to potentially raise traffic safety questions.

#### B. Key Question(s):

1. Should the City either prohibit open cooling towers over a specific size or develop standards by which to evaluate larger open towers and to base conditions that avoid potential localized impacts?

#### 6. Traffic Impacts and Transportation Routes For Trucked Fuel/Feed Stock

#### A. Background Information:

Power generation facilities utilizing compressed natural gas (CNG), biomass (i.e., wood chips, wood pellets, straw, etc.) or solid waste could require more than a dozen 80,000 lb. GVW truck deliveries daily depending on the size of the facility (municipally owned 70 megawatt McNeil Biomass plant in Burlington Vermont as one example).

## B. Key Question(s):

1. Should the City's site plan standards be revised to allow the City to specify which routes would be used, or the timing of deliveries, to supply the fuel to the facility?

2. Should the City's site plan standards be revised to allow the City to require the developer to pay for road or intersection improvements needed to safely accommodate added truck traffic providing fuel/feedstock to the facility?

# 7. Onsite Fuel/Feedstock Storage, Fugitive Emissions & Emergency Response Plan

# A. Background Information:

A natural gas fueled facility supplied by a pipeline would likely have some onsite fuel storage (either CNG or diesel). A biomass facility could have several days of feedstock stored onsite. A CNG supplied facility would have several trailers parked on site. Also, power generation facilities of these types would require an emergency response plan for both onsite fuel and the generation facility.

# B. <u>Key Question(s)</u>:

1. Are any revisions needed to the City's site plan standards to insure appropriate screening and safety measures are required for onsite fuel storage or any other hazardous materials utilized?

2. Are any specific revisions needed to the City's site plan standards to address any potential fugitive emissions of fuels or other chemicals from a power generation facility?

3. Do the City's site plan standards (or other ordinances) require the developer to pay for any municipal costs related to the development of emergency response plans for the facility?

# 8. Development Of Properties on Zone Boundaries

# A. Background Information:

In some locations in the City properties in Commercial or Industrial zones on which a grid scale electrical power generation facility could be located are adjacent to, or across the street from, residential zones or existing residential uses.

# B. Key Question(s):

1. Should any supplemental revisions to setback, screening, or sound standards be added for grid scale power generation projects where the property on which the facility is proposed abuts a residential zone (or an existing residential use)?

# 9. Development Of Properties Abutting High Value Wetlands

## A. Background Information:

In some locations properties in Commercial or Industrial zones on which a grid scale electrical power generation facility could be located are adjacent to high value wetlands.

## B. <u>Key Question(s)</u>:

1. Should any supplemental revisions to setback, screening, sound or other standards be added for grid scale power generation projects where the property on which the facility is proposed abuts high value wetlands?

# 10. Fiscal Capacity Standard For Developer

## A. <u>Background</u> Information:

Grid scale electrical power generation facilities require multi-million dollar level of investment to bring to full operational status.

## Decommissioning Costs

## B. Key Question(s):

1. Is the City's financial capacity requirement adequate to insure that once permits are granted the facility will likely be completed and the City is not at any significant risk of acquiring a partially completed project due to unpaid taxes in the future?

## 11. Decommissioning Costs

## A. Background Information

Smaller power generation facilities likely raise no unique questions once closed than a range of other commercial and industrial uses the City permits. However larger power generation facilities (30 MW, 75 MW, 250 MW) may be of a scale that the facility would present substantial financial challenges to repurpose or demolish when closed down.

## B. Key Question

Should the City create a mechanism by which facilities over a specified size would be required to set aside some percentage of annual revenue from the sale of electricity generated into a City verifiable escrow account that can be used solely for decommissioning?

## 12. Questions Raised That Appear Not To Be Site Plan Or Zoning Questions

When the community forums were held, City Council had approved an option on both the current Public Services Garage site and the adjacent City Hall property with a developer who was considering constructing a combined heat and power generation facility up to 74 Megawatts in capacity. Many of the questions raised and concerns expressed can be translated into regulatory standards.

A few of the questions raised at the forums appear straightforward to consider as conditions to insure community benefits from the sale of public land. But the Energy Committee could not clearly identify any site plan aspect to these questions (or in one case noted below there is a local regulatory questions, but the issue appears to be mostly a street opening question and possibly not a site plan question). The Energy Committee decided to note these here in case there might be a Site Plan/Zoning facet to these which the Committee missed. And, all of these questions would appear valid if a developer requested a Credit Enhancement Agreement, or any similar form of City support.

## A. Not Displacing Cleaner Local Distributed Generation

Conservation Law Foundation's presentation, "Getting Natural Gas Right," at the August forum included the point that a natural gas powered facility should not displace cleaner local distributed sources of power generation

## B. Local Community Benefit

Some new construction of power generation is targeted to meet local electrical needs (or even consumption of just one business, home or institution). Larger projects are often developed to sell power to the New England grid. In this later scenario the benefits are regional. One key question is what benefits associated with grid scale power generation projects benefit the local community? A second question is whether the city should consider negotiating monetary and/or non-monetary community benefits with the developer?

C. Standards For High Pressure Steam Lines/Safety Response to Steam Leaks

The Moratorium clearly envisions possible revisions to City's street opening ordinance to address natural gas lines and related questions. The moratorium does not mention steam lines. But thermal and pressure and joint standards may also warrant review.

## 13. Documents From Local Forums

The following documents are available on the City web site (and can be easily emailed to members of the Planning Board by the Energy Committee).

- A. May 26th Forum: EMI Slides & Energy Committee Record of Public Comments
- B. August 19th Forum: Greg Cunningham/Conservation Law Foundation Slides
- C. August 19th Forum: Tim Schneider/Public Advocate Slides
- D. August 19th Forum: Kathleen Everett/SMRT Slides
- E. August 19th Forum: Energy Committee Compilation of Community Questions