

Proposed Lebanon Peaking Project



**Connecticut
Light & Power**

The Northeast Utilities System

Key Points

- Why peaking generation is being proposed
- Our approach to the state's request
- Design elements for the proposed facility
- Benefits

Background

- State identified need for additional 500 megawatts of "quick start" power
- Connecticut law required CL&P to file peaker proposals
- There are 11 proposed projects for peaking generation
- Alternatives to meet the peak need:
 - Buy & import power at higher market rates
 - "Brownouts"
 - Build the peaker

CL&P's approach

- Use existing CL&P property
- Easy connection to electrical grid
- Operate at cost without mark-up
 - All operations benefit the customer
 - No financial incentive for CL&P to run the units
 - Estimate need of approximately 100 hours per year
 - Not an "open license"
 - In 2007, Connecticut peaking plants ran between 10 and 178 hours.

Design

- Stack height 90-120 feet
- Fuel storage tank and unloading station with spill containments
- Water supply
 - Proposed from Windham to facility
- Existing road sufficient for construction traffic
- Affected area would be repaved

Minimize visual impact

- Base elevation 10 feet below street level
- Earthen mounds/berms
- Plant evergreens along Card Street

Fully enclosed

- Sound proofing around engines
 - Present levels during quietest conditions at abutting properties
35-36 dB

- Levels during quietest conditions at abutting properties at full operation
37-44 dB
- During daytime, will be below state limit of 55 dB
- Less than that of a normal conversation (60 dB)

Environmental considerations

- Highly efficient facility
- Ultra-low sulfur diesel fuel
- State of the art pollution controls
 - 90% cleaner than traditional diesel
- Regulated emissions annually
 - Peaking plant (100 hrs.) = 4,560 lbs.
 - Route 32 (2 miles) = 252,000 lbs.

Security

- Locked gates; fully security fence
- 24/7 monitoring cameras
- Manned during inspections, maintenance, fuel unloading

Fuel delivery

- Initial deliveries to fill tank
- Refill only when needed; trucks not idling on Card Street

Lighting

- Low-intensity, shielded, focused on facility

Benefits to Lebanon

- Estimated additional tax revenues – over \$18 million in the first 5 ½ years of operation
- Positive growth of 20-25% in grand list
- Potential funding for town
- Potential impact on tax rate

Benefits to Connecticut

- Additional, reliable, quick start power to meet customers' needs during high demand or if equipment fails
200 megawatts = 150,000 homes
- Most cost-efficient solution for customers
- Help keep prices down during high demand

Summary

- Proposed project - not yet approved
- Quick start resource
- State of the art facility
- Operate at cost without mark-up
- All operations benefit the customer
- Tax revenue to Lebanon

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