# Litchfield Town hall Building Committee

Litchfield Energy Task Force Presentation

#### Intro

- 3+ years, 8 regular members
  - Your service is Commendable
  - Your Passion to Serve Litchfield
  - We share that Passion
- Task Members
  - Brian Malarkey Energy Efficiency Consultant
  - James Keithan Electrical Engineer
  - Jeffrey Benson Mechanical Engineer

# Guiding Ideals

- Set example as County Seat
  - Lead don't follow
- World Class Community
  - Desirable destination
- Do the Job Right
  - Be Proud of the result

# Building Use and Life

- Municipal Offices
  - Records
  - Communications
- Meeting Place
  - Boards
- Comfortable, Clean
  - Several decades, most Municipal buildings

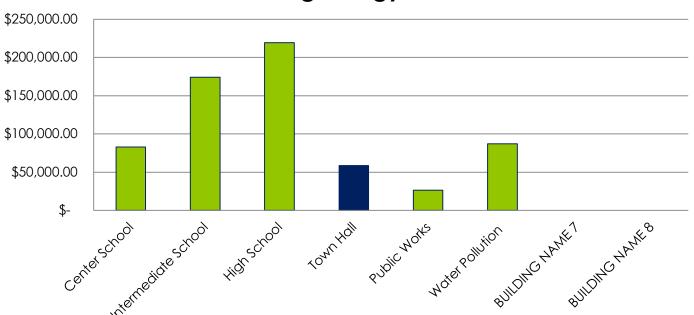
### Citizen Comments

- From 2008 Hearing
  - < 1% attended, 0.5% had comment
    </p>
- Our favorite;
  - "Will it be built with energy efficiency in mind?"
- Strongest case in our opinion,
  - Build with least long term cost

Current Energy Costs

# Today's Energy Cost

#### **Building Energy Costs**



# Energy Cost Profile

- One time costs TBD
  - Construction Furniture Systems HVAC
- Current Recurring Costs
  - Lighting

~ \$8,5000/year

- Heating ~ \$50,000/year
- Assuming 20 year lifespan 4% inflation
  - \$1.8 million energy only
  - Conservative Lifetime savings \$400,000

# Real Life Example

• Who Would buy a \$20 Light bulb?

Lamp Type	Illumination	Year	TRUE	Cost	Cost	Lifetim e		
Туре	Method	Invented	Wattage	Purchase	Operate	Years	To C for 2	)wn !0 yrs
Incadescent	Heated wire in a vacuum	1879	75	\$ 2.00	) \$ 65.70	5	\$ <sup>*</sup>	1,322.00
Commonation		1075	1.5	<b>.</b> 0.00	)	4 10	S	278.80
Compact Flourescent	Glowing Gas	1975	15	\$ 8.00	) \$ 13.14	4 10	Ş	270.00
LED	Light Emitting Diode	1993	5	\$ 10.00	3.38	3 20	\$	185.20

Buildings work like this too

### Real Life ROI

- Return on Investment Mechanical
  - Present Heating cost tied to fossil fuels
  - Cost increases 4 40% per year
- Modern solutions <u>harvest</u> energy
  - o 300% efficient or more
  - Cost increased 2.9% Jan 2011 CL&P rate increase
- Without Incentives ROI in 5 years
  - With incentives 3 years, with savings after

How to Get There?

#### Clean Construction Incentives

- Connecticut Energy Efficiency Fund
  - ► Several new construction incentives
  - Up to \$750,000.00

### Other Incentives

- Municipal Action Plan
  - Funded, dedicated help from CL&P
- o IF:
  - We choose to conserve

# What is the Cost of Cheap?

- Increased Maintenance
- Increased Fuel
- More Closely a Victim of Inflation
- From existing Town Hall Data:
  - Constant Fuel cost Increase
  - As much as 40% . . . Or more

Who has Done It?

#### Success Stories

- Who has tried this?
  - Warren, CT
  - Half Moon, NY
  - City Council of Torrington approves LED lighting – May 3 2011
- What was the Outcome?
  - Savings, pride, community

## Next Steps

- Contact Connecticut Energy Efficiency Fund
- Determine what qualifies
- Apply for Incentives

#### Conclusions

- Economy and Conservation Coexist
- Cost savings Goals focus long term
- It Makes Sense to -
  - Save in long term
  - Hedge against Inflation costs
  - Demonstrate our Values as a Town
- Anything less Burdens our Children
  - Higher maintenance costs cause cutbacks

#### Contacts

- CL&P Energy Conscious Blueprint
  - Richard Asselin richard.asselin@nu.com
- Clean Communities Program
  - Diana McCarthy-Bercury mccard@nu.com
- Connecticut Energy
   Finance Investment Authority
  - O BOD Wall bob.wall@ctcleanenergy.com