02-18-15P03:09 RCVD

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**TOWN OF CROMWELL**
**TOWN COUNCIL**
**REGULAR MEETING**
**WEDNESDAY FEBRUARY 11, 2015**
**7:00 PM TOWN HALL ROOM 224/5**

**MINUTES**

Present: Mayor E. Faienza, Deputy Mayor R. Newton, Counsolers A. Waters, A. Spotts, M. Terry, F. Emanuele, S. Banic
Absent:
Also Present: Town Manager J. Sistare, Chief of Police A. Salvatore, Director of Finance M. Sylvester, Director of Public Works L. Spina, Library Director E. Branciforte, Recreation Director S. Schein, Tax Collector D. Sienna, Public and Press

**A. CALL TO ORDER**
Mayor Faienza called the Regular Meeting to order at 7:00 p.m.

**B. PLEDGE OF ALLEGIANCE**
Jon Sistare led the Pledge of Allegiance.

**C. APPROVAL OF AGENDA**
**Motion** made by R. Newton seconded by A. Spotts and *unanimously carried* to approve the agenda as posted.

**D. COMMISSION CHAIRMAN REPORTS/LIAISON REPORTS**
P. Sousa, Liaison Board of Education -Gave an overview of the last two Board of Education Meetings and school activities. The preliminary budget that was presented to them by Superintendent Taulty was a 4.46% increase over last year's budget.

**E. CITIZEN COMMENTS** (*Rules at the end of the agenda)
1. A. Kelly, Willowbrook Road -Stated her opinion regarding L4, revision to the Tax Relief Deferral Program for Elderly and Disabled Homeowners. Ms. Kelly also spoke in favor of item M2, Library Technical Assistant's stipend.
2. L. Gagnon, Commander of American Legion Post #105 -Spoke regarding M.9 and thanked the Town for providing financial assistance to them for the Memorial Day Program.

**F. MAYOR'S REPORT**
Mayor Faienza reported:
- Responded by Ms. Kelly's comment regarding the Tax Relief Deferral Program stating that the program is designed to help the Elderly and Disabled Homeowners remain in their home.
- The Town Manager Search has produced 17 applications so far. The deadline is next week but applications will be accepted all through the process.

- The last business tour went to 14 Alcap Ridge; Mayor Faienza reported that they have done an enormous amount of work so far. The company should be up and running in April or May. They will have an excess of 45,000 - 50,000 extra square feet.
- The next business tours are being set up. They will be visiting GKN in March.
- The next Chamber Division Meeting will be at the Coles Road Firehouse.
- The movie Blue Line continues to be filmed in Town. It is an amazing process to watch.
- Mayor Faienza gave kudos to the Public Works crew, Police Department and Fire Department for the excellent job they are doing with the snow storms.
- Mayor Faienza stated that it is his recommendation to look into returning some of the budget surplus back into the budget.
- Mayor Faienza presented pins to Town Manager Sistare and thanked him for his service to the Town of Cromwell. Jon Sistare was thanked for his professionalism, expertise and knowledge that he brought to the Town as its first Town Manager.

G. TOWN MANAGER'S REPORT

Town Manager Sistare reported:

- The budgets were reviewed with all department heads. He also met with Acting Town Manager A. Salvatore and Finance Director Sylvester regarding the budget.
- The Prescription Cards that were distributed to the Town Residents has saved the participants over $14,700 so far this year.
- The snow budget has averaged $99,000 for the past six years. So far this year $92,000 has been expended.
- He and the Acting Town Manager are in the process of meeting with all department heads to bring the Acting Manager up-to-date.

H. CHIEF OF POLICE'S REPORT

Chief Salvatore reported:

- The Monthly incident report was distributed for January.
- Over 1,200 calls for service have been received this year.
- Chief gave thanks to the Public Works Department and his Officers for the excellent job they have done during the snow events. He is especially thankful that a number of his officers slept over at the station to make sure they would be available to respond for their shift.
- Animal Control Officer Gagnon was successful in catching a dog that was out in the elements for at least three weeks. Ms. Gagnon put many posters out around town and did a 'bacon burn', which lead to a successful capture. The dog is now being held at the pound. Chief Salvatore gave kudos to Ms. Gagnon for the excellent job she did to help this dog.
- The records division continues to catch up with the new software. The work has to complete by March to be eligible for the JAG funds.

- Cromwell's newest Officer, Richard Bianchi, is half way through the FTO program.
- There was a serious accident on Route 3, the person is recovering.
- The Department is preparing for the Travelers Championship.

**I. PUBLIC WORKS DIRECTOR'S REPORTS**

Public Works Director Spina reported:

- The Town Manager had already spoken about the snow budget.
- Mr. Spina submitted his first Cromwell budget.
- He is conducting interviews for the Building Superintendent's position. Three internal candidates applied; two seem to be qualified for the position. Mr. Spina will discuss this with Town Manager Sistare and Acting Town Manager Salvatore.
- The Building Maintenance Department received a $5,000 grant.
- The Engineering Department put the County Line Road project out to bid; it closes on March 6th. They are also working on the design for Valor Green. The sub-divisions are on hold due to the cold temperatures.
- Public Works Director gave kudos to his staff stating "they really know how to do snow well".
- He received an Assessment of the Playground Equipment in a 41 page report. This report will be presented with the budget.

**J. FINANCIAL**

1. Budget Reports

Finance Director Sylvester presented the Budget Reports. Ms. Sylvester reported the expenditures and revenues are coming in as expected.

2. Tax Refunds

**Motion** made by A. Waters seconded by R. Newton and *unanimously carried* to approve Tax Refunds 1 - 10.

**K. STAFF REPORTS**

None

**L. UNFINISHED BUSINESS**

1. Presentation by consulting engineer on possible sites for a new DPW/CWPCA facility with discussion and possible action to follow. -*Tabled*

Left on table.

2. Discussion and possible action to approve proposed Streetlight Program. *Tabled*

**Motion** made by A. Waters seconded by R. Newton and *unanimously carried* to remove from the table.

Jack Hanley from ESCO Energy Services made a presentation regarding the proposed Streetlight Program. (Attached to minutes online at www.cromwellct.com)

Govi Rao, President & CEO of Noveda Technologies (an affiliate of ESCO Energy Services, Inc. which is a wholly-owned subsidiary of ForceField Energy) spoke about the technology option for the streetlight program and gave a short demonstration

Andy Merola, CCM's Energy and Program Development Manager, spoke about the program and what other town's are doing.

**Motion** made by A. Waters seconded by R. Newton and *unanimously carried* to approve moving forward to Step 1, Pre-acquisition Development Financial Models.

3. Discussion and action to approve request from the Mattabassett District to install odor monitors on town property. -Tabled

   Left on table

4. Discussion and action to approve revision to Ordinance 211-21D (2)-Article ~~VII~~ VI Tax Relief Deferral Program for Elderly and Disabled Homeowners of deferred taxes when property is sold. -Tabled

   a. Authorize Mayor Faienza to set the time and date of a public hearing.

**Motion** made by R. Newton seconded by S. Banic and *unanimously carried* to remove from the table.

Tax Collector Sienna presented the request. Handouts regarding how other towns handle Deferred Taxes were distributed to the Council. (Attached)

**Motion** made by A. Spotts seconded by S. Banic and *unanimously carried* to approve proposed change #1.

**Motion** made by R. Newton seconded by F. Emanuele and *unanimously carried* to authorize Mayor Faienza to set time and date of a public hearing.

*Mayor Faienza called for a short recess from 8:47 p.m. - 8:58 p.m.*

**M. NEW BUSINESS**

1. Discussion and action to resubmit the amended State Public Library Building Grant and authorize the Town Manager to sign the grant.

   Library Director Branciforte and members of the Library Commission presented the request.

   Library Commission Chairman Marie Roberto thanked those that helped move this project forward; Mayor Faienza, Counselor A. Spotts, Town Manager Sistare, Town Engineer J. Harriman and Library Director E. Branciforte.

**Motion** made by R. Newton seconded by A. Waters and *unanimously carried* to approve resubmitting the amended Sate Public Library Building Grant and authorize the Town Manager to sign the grant.

2. Discussion and action to extend the Town Hall Union Contract one year with a 2.25% COLA and an annual stipend of $2,600 for the Library Technical Assistant for performing additional IT duties.

   Town Manager Sistare presented the request.

**Motion** made by A. Spotts seconded by R. Newton and *unanimously carried* to approve extending the Town Hall Union Contract one year with a 2.25% COLA and an annual stipend of $2,600 for the Library Technical Assistant for performing additional IT duties.

3. Presentation by Natalie Starr, DSM Environmental Services, Inc. regarding Solid Waste Program. (Attached to minutes)
   Town Manager Sistare introduced the topic and Ms. Starr to the Council. After the presentation there was a short discussion. The consensus of the Council was to try and obtain further information regarding the quantities generated from the Condo Associations and Retirement Homes. They requested that Town Manager Sistare contact them and ask for two years of previous bills to determine whether the town's reimbursement of 1.3 tons per household is accurate.
   a. Action of necessary.
   *No action taken* - The Council will review the report and discuss it at a future meeting. (report attached to minutes on www.cromwellct.com)

*F. Emanuele left the meeting*

4. Discussion and action to set salary for Acting Town Manager.
   Mayor Faienza presented the item.
   The consensus of the Council was to set the salary of the difference of the Town Manager's salary and the Chief of Police's salary. The difference is approximately $449.00 per week.

**Motion** made by R. Newton seconded by A. Spotts and *unanimously carried* to approve as discussed; $449.00 per week.

5. Discussion and action to approve the Field Maintenance Fee Policy.
   Town Manager Sistare and Recreation Director Schein presented the item.

**Motion** made by A. Waters seconded by A. Spotts and *carried* to approve the Field Maintenance Fee Policy.
Aye: S. Banic, E. Faienza, R. Newton, A. Waters, A. Spotts
Nay: M. Terry
*Motion carries*

6. Approve gasoline contract with East River Energy.
   Town Manager Sistare presented the item.

**Motion** made by R. Newton seconded by A. Spotts and *unanimously carried* to approve the three year contract with East River Energy.

7. Discussion and action to approve returning Building Permit fee of $265.00 to Solar City as recommended by Building Official David Jolley.

**Motion** made by A. Waters seconded by R. Newton and *unanimously carried* to approve returning Building Permit fee of $265.00 to Solar City as recommended by Building Official David Jolley.

8. Discussion and action to approve request from Town Clerk DiProto to lease a Map/Scanner Plotter for 60 months.

**Motion** made by A. Spotts seconded by A. Waters and *unanimously carried* to approve request from Town Clerk DiProto to lease a Map/Scanner Plotter for 60 months.

9. Discussion and action to appoint The American Legion Carlson-Sjovall Post No. 105 as agent of the Town for the Memorial Day Service and Parade.

**Motion** made by R. Newton seconded by M. Terry and *unanimously carried* to appoint The American Legion Carlson-Sjovall Post No.105 as agent of the Town for the Memorial Day Service and Parade.

10. Authorize Mayor to set time and date of Capital Improvement Program Public Hearing.

**Motion** made by A. Spotts seconded by A. Waters and *unanimously carried* to authorize Mayor Faienza to set time and date of Capital Improvement Program Public Hearing.

**N. APPROVAL OF MINUTES**

1. Regular Meeting January 14, 2015

**Motion** made by A. Waters seconded by A. Spotts and *unanimously carried* to approve the Minutes of January 14, 2015.

2. Special Meeting January 28, 2015.

**Motion** made by A. Spotts seconded by R. Newton and *unanimously carried* to approve the Minutes of January 28, 2015.

**O. RESIGNATIONS**

None

**P. APPOINTMENTS**

**None**

**Q. TOWN COUNCIL COMMISSION LIAISON REPORTS**

**S. Banic**
**M. Terry -ZBA**
**E. Faienza -Board of Finance, Redevelopment Agency and Planning & Zoning.**
**A. Spotts - Board of Education & Blue Line Movie**

**R. GOOD & WELFARE**

**None**

## S. ADJOURNMENT

**Motion** made by A. Spotts seconded by R. Newton and *unanimously carried* to adjourn the meeting at 10:35 p.m.

Respectfully submitted,

Re Matus

Re Matus
Secretary

Rules for Citizen Comments:

1. Each speaker will have a total of 3 minutes to speak on the issues of their choice;
2. The Mayor shall recognize only one speaker at a time;
3. The purpose of the Citizen Comment period is to give the residents of Cromwell, or others, the opportunity to make comments regarding matters of public concern, town policies or actions of the town, and to ask questions of the Council or Town Staff. All questions and comments will be taken under advisement and questions raised may be answered this evening or addressed at a later date. There will be no open debate with the Council members during the public comment period and all questions and comments shall be directed to the Mayor;
4. The Mayor shall have the right to discontinue recognition of any speaker whom the Mayor believes is not using proper decorum for a public meeting; is verbally abusive of a member, or members of the Council, Town Staff, or the public; becomes belligerent; or uses profanity.

Run Date: 02/10/2015
Run Time: 13:47

# Cromwell Police Department

## Incident Statistics Report

### 01/01/2015 00:00 Thru 01/31/2015 23:59

| Call Type Description | Total for Period |
|---|---|
| 911 Hang Up Call | 12 |
| Administrative Matter | 11 |
| Alarm - All types | 76 |
| All Other Offenses | 4 |
| Animal Complaint | 31 |
| Assault, Simple | 2 |
| Assist Motorist | 31 |
| Assist Other Agency | 36 |
| Burglary | 1 |
| Car Seat Installation | 5 |
| Civil Matter | 5 |
| Credit Card/ATM Fraud | 2 |
| Criminal Mischief / Vandalism | 3 |
| Dis Conduct/BOP | 1 |
| Domestic Incident | 5 |
| DUI | 1 |
| Escort | 2 |
| False Pretenses/Swindling | 1 |
| Fight/Disturbance | 1 |
| Fingerprinting | 23 |
| Follow Up | 1 |
| FV Protocol / P.A. | 2 |
| Harrassing Phone Calls | 1 |
| Identity Theft | 1 |
| Impaired / Intox Person | 1 |
| Juvenile Incident | 5 |
| K-9 Assist | 1 |
| Larceny - From Building | 2 |
| Larceny - From MV | 1 |
| Larceny - MV Parts/Access | 1 |
| Larceny -Shoplifting | 4 |
| Larceny, Bad Checks | 1 |
| Larceny- Other | 7 |
| Medical Emergency | 68 |
| Missing Person | 1 |
| MV Accident | 45 |
| MV Abandoned | 3 |
| MV Parking Violation | 28 |
| MV Theft | 2 |

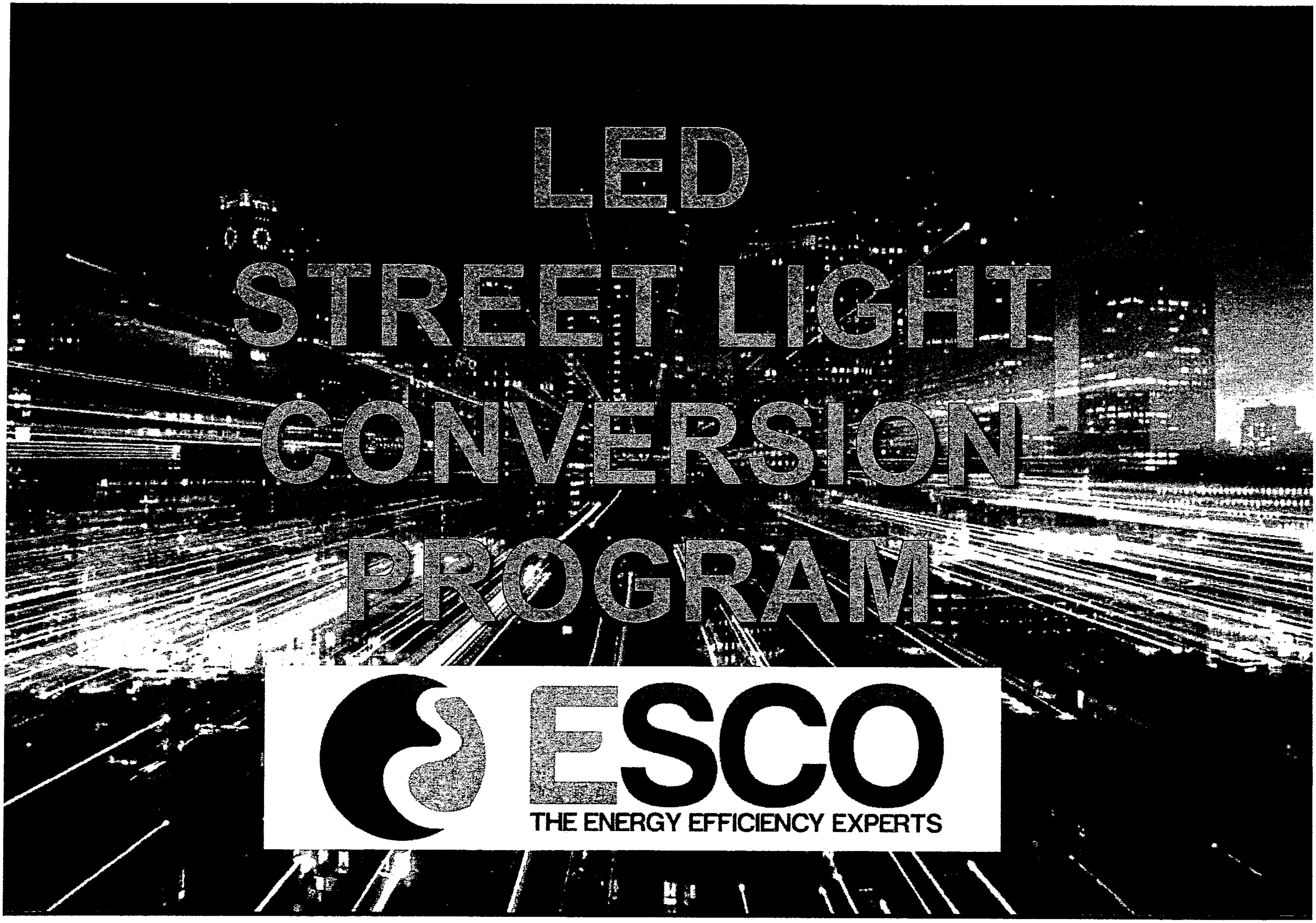
# Cromwell Police Department



## Incident Statistics Report

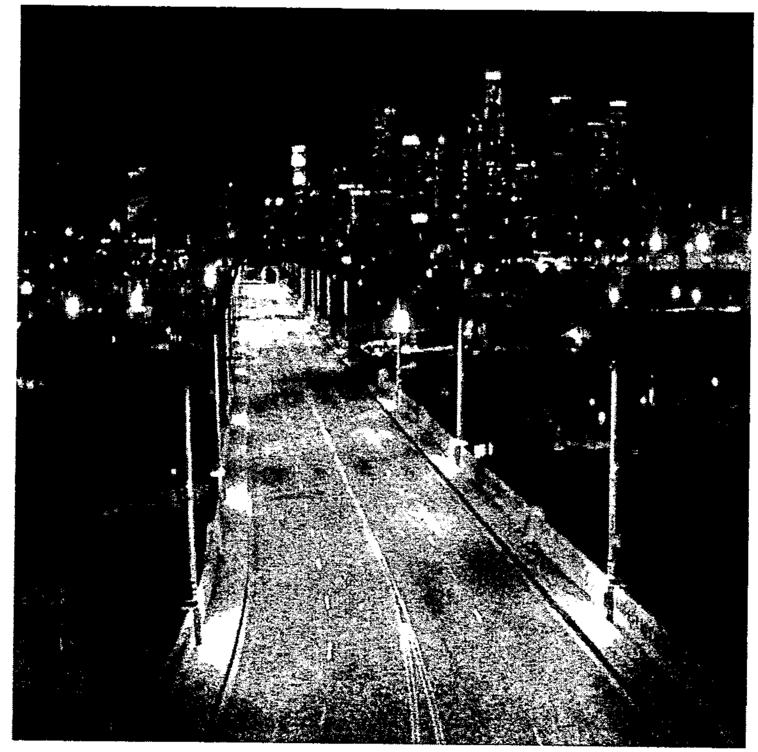
### 01/01/2015 00:00 Thru 01/31/2015 23:59

| Call Type Description | Total for Period |
|---|---|
| MV Violation | 231 |
| Neighbor Dispute | 2 |
| Noise Complaint | 5 |
| Patient Dispute | 1 |
| Property Check | 57 |
| Property Lost/Found | 7 |
| Property Seized | 2 |
| Record Only Call | 3 |
| Road Cond/TCS Out | 29 |
| ROBBERY | 1 |
| See Complainant | 32 |
| Suspicious Activity | 51 |
| TEST CALL | 13 |
| Threaten/Harass/Intimidation | 5 |
| Town Ordinance | 5 |
| Traffic Assignment | 1 |
| Unfounded Complaint | 8 |
| Untimely Death | 1 |
| Unwanted Person | 3 |
| Weapon Law Violations | 1 |
| Well Being Check | 8 |
| **Total:** | 894 |


LED
STREET LIGHT
CONVERSION
PROGRAM
ESCO
THE ENERGY EFFICIENCY EXPERTS

# AGENDA

- Who is ESCO?
- What does ESCO do?
- Why is ESCO here?
- How do I Pay for This?
- How Do We Get Started?



ESCO
THE ENERGY EFFICIENCY EXPERTS

# Who is ESCO?

- Longest-standing Lighting Retrofit Company in New England
  *Under Continuous, Local Ownership for 20+ Yrs.*

- Award-winning Energy Solutions Partner with NE utilities

- HQ in Lenox, MA with offices and strong presence in CT

ESCO
THE ENERGY EFFICIENCY EXPERTS

# Who is ESCO?

- Wholly-owned subsidiary of ForceField Energy (NASDAQ-traded as FNRG) with market cap of $90 million
- Financial Strength with $20,000,000+ Bonding Capacity
- Fully-insured Energy and Operational Savings ***Guarantee***

ESCO
THE ENERGY EFFICIENCY EXPERTS

# Who is ESCO?

## Program Team

Osmose®

NOVEDA
TECHNOLOGIES

UIC energy LLC

UTILITY SERVICES of the Americas

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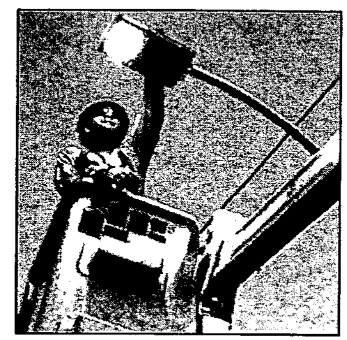
THE ENERGY EFFICIENCY EXPERTS

# What Does ESCO do?

**ESCO partners with your community to develop a successful Street Light Acquisition and LED Conversion Program:**

- Bill Reconciliation, Street Light Audits & GIS Mapping
- Full Support for Street Light Asset Acquisition
- Street Light Design and Fixture Selection Assistance
- Turnkey Project Management, Installation & Maintenance
- Project Finance Modeling and Rebate Processing
- Fully-insured Energy & Operational Savings *Guarantee*
- 24/7 Emergency Response & Maintenance



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# CCM
# LED STREET LIGHT CONVERSION PROGRAM

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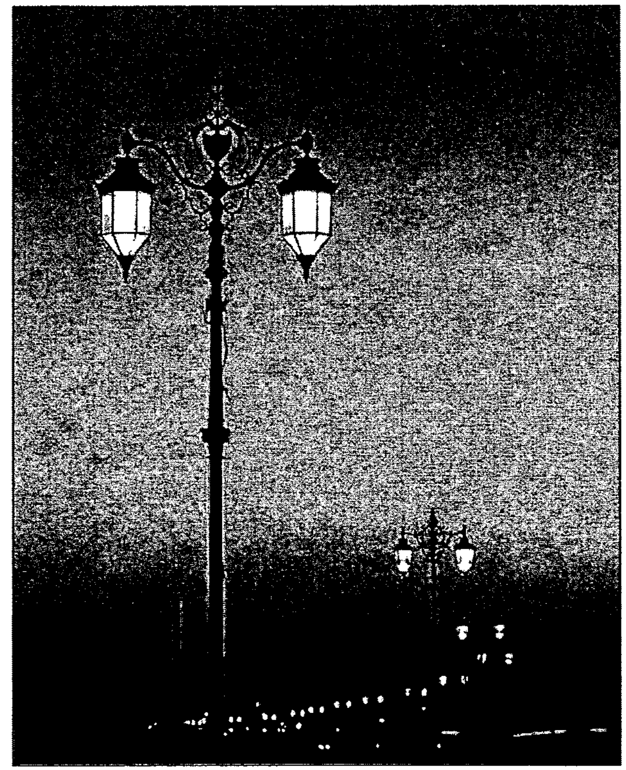
# Program Background

- Most towns in CT do not own their street lights…….
- They ***<u>RENT</u>*** them from CL&P
- CL&P's Rate 116 is used for CL&P-owned street light assets.
- In addition to the cost of energy, each street light is assessed a "Distribution Charge".



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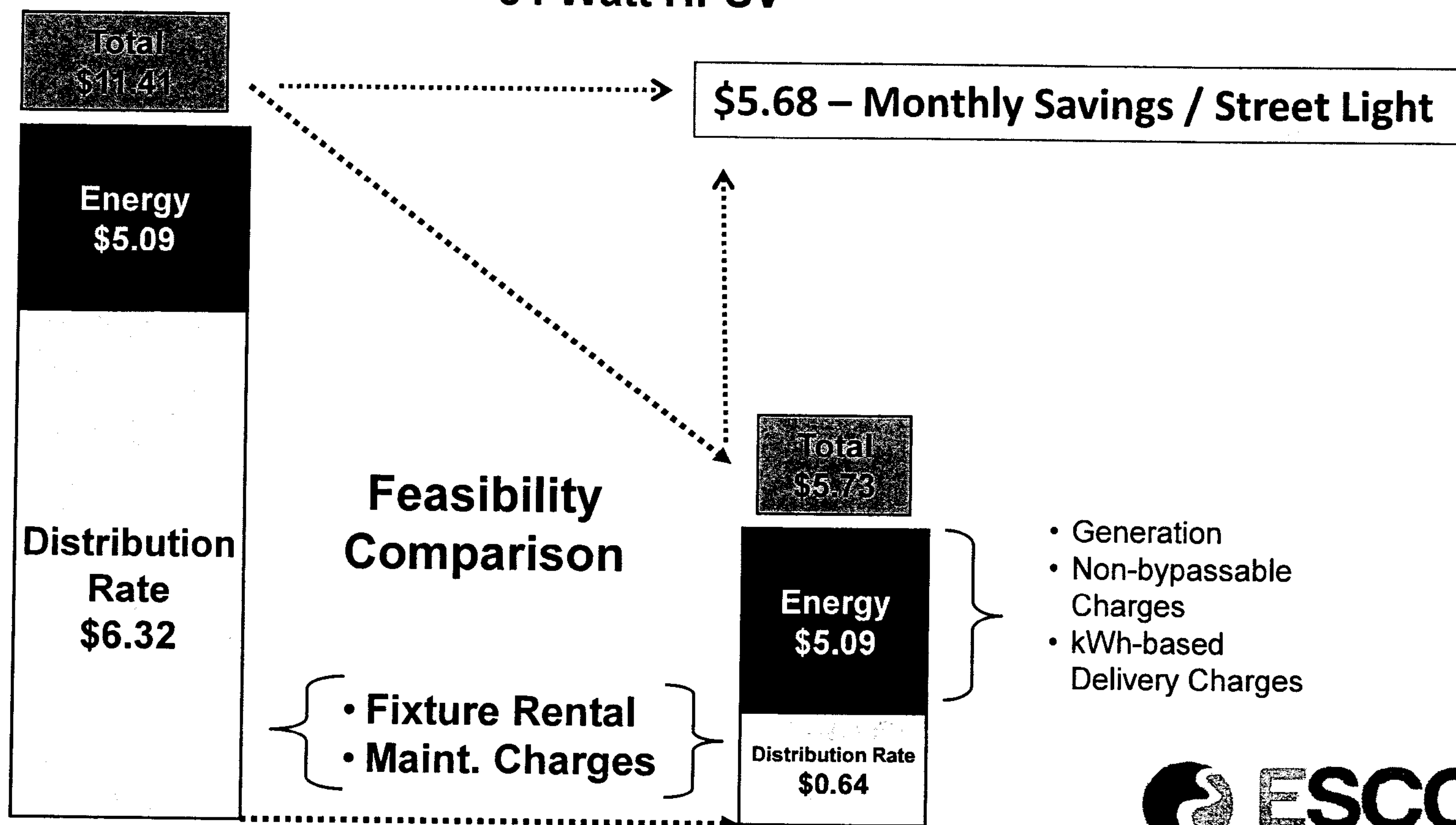
# Difference in CL&P Tariffs

**Rate 116 vs. Rate 117 Monthly Cost Comparison- 84 Watt HPSV**

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# Difference in CL&P Tariffs

**Rate 116 vs. Rate 117 Monthly Cost Comparison-**

**Cromwell – 1,208 Street Lights**

| LED Savings Comparison | HPS | LED | |
|---|---|---|---|
| | Annual Costs | Annual Costs | Annual Savings |
| Annual Energy Charge | $ 68,708 | $ 21,843 | $ 46,865 |
| Annual Distrbution Charge | $ 115,764 | $ 10,675 | $ 105,089 |
| Total | $ 184,472 | $ 32,518 | $ 151,954 |
| | | | 82.4% |

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# Difference in CL&P Tariffs

**CL&P NEW RATES Effective 1/1/15**
**Rate 116 vs. Rate 117 Monthly Cost Comparison-**
**Cromwell – 1,208 Street Lights**

| LED Savings Comparison | Existing | LED | |
|---|---|---|---|
| | Annual Costs | Annual Costs | Annual Savings |
| Annual Energy Charge | $ 82,933 | $ 27,366 | $ 55,567 |
| Annual Distrbution Charge | $ 124,907 | $ 9,027 | $ 115,880 |
| Total | $ 207,840 | $ 36,393 | $ 171,447 |
| | | | 82.5% |

***Increase of $19,493***

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# HOW DO WE PAY FOR THIS LED CONVERSION PROGRAM?

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# How Do We Pay for This?

<u>Financing Options for LED Conversion Projects</u>

- Capital Expenditure
- Tax-Exempt Municipal Lease Financing
- Utility "On-Bill" Finance

***<u>ESCO will work with client to facilitate most beneficial approach</u>***

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# How Do We Pay for This?

## Cromwell – 1,208 Street Lights – Pre- CL&P Rates

| Turnkey Cost & Savings | |
|---|---|
| Audit, GIS Mapping & Tagging - $/Fixture | $ 25 |
| Acquisition from CL&P - $/Fixture | $ 266 |
| LED Retrofit - $/Fixture | $ 355 |
| Controls & Monitoring - $/Fixture | $ - |
| Estimated # of Fixtures | 1,208 |
| | |
| Aqcuisition & Retrofit Total | $780,575.70 |
| | |
| Rebates @ $0.30/kWh | $ 112,704 |
| | |
| NET Turnkey Cost | $ 667,872 |
| | |
| Annual Energy Savings | $ 46,865 |
| NET Annual Maint. Savings | $ 105,089 |
| | |
| Total Annual Savings | $ 151,954 |

| Simple Payback (years) | 4.4 |
|---|---|

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# How Do We Pay for This?

## Cromwell – 1,208 Street Lights – NO CONTROLS

| Turnkey Cost & Savings | | |
|---|---|---|
| Audit, GIS Mapping & Tagging - $/Fixture | $ | 20 |
| Acquisition from CL&P - $/Fixture | $ | 266 |
| LED Retrofit - $/Fixture | $ | 351 |
| Controls & Monitoring - $/Fixture | $ | - |
| Estimated # ofUtility Owned Fixtures** | | 1,208 |
| | | |
| TOTAL # of Fixtures | | 1,208 |
| | | |
| Aqcuisition & Retrofit Total | $ | 769,145 |
| | | |
| Rebates @ $0.30/kWh Reduced | $ | 110,442 |
| | | |
| NET Turnkey Cost | $ | 658,703 |
| | | |
| Annual Energy Savings | $ | 55,567 |
| NET Annual Maint. Savings | $ | 115,880 |
| | | |
| Total Annual Savings | $ | 171,447 |

| Simple Payback (years) | 3.8 |
|---|---|

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# How Do We Pay for This?

Cromwell – 1,208 Street Lights – NO CONTROLS

| ESTIMATED ANNUAL MAINTENANCE | |
|---|---|
| Fixtures | 1,208 |
| Management/ Monitoring / Control | $ - |
| Per Fixture Maintenance Cost per month | $ 1.00 |
| Monthly Maintenance Total | $ 1,208 |
| Months | 12 |
| Annual Maintenance Cost | $ 14,496 |

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# How Do We Pay for This?

## Cromwell – 1,208 Street Lights – NO CONTROLS

| Year | Current CL&P Street Light Costs | New CL&P Street Light Costs | Street Light Acquisition & Conversion Annual Costs | Est. Annual Maintenance Costs | New Total Annual Costs | Total Annual Savings |
|---|---|---|---|---|---|---|
| 1 | $ 207,840 | $ 36,393 | $ 50,616 | $ 14,496 | $ 101,505 | $ 106,335 |
| 2 | $ 211,997 | $ 37,121 | $ 50,616 | $ 14,786 | $ 102,523 | $ 109,474 |
| 3 | $ 216,237 | $ 37,863 | $ 50,616 | $ 15,082 | $ 103,561 | $ 112,676 |
| 4 | $ 220,562 | $ 38,621 | $ 50,616 | $ 15,383 | $ 104,620 | $ 115,941 |
| 5 | $ 224,973 | $ 39,393 | $ 50,616 | $ 15,691 | $ 105,700 | $ 119,273 |
| 6 | $ 229,472 | $ 40,181 | | $ 16,005 | $ 56,186 | $ 173,287 |
| 7 | $ 234,062 | $ 40,985 | | $ 16,325 | $ 57,309 | $ 176,752 |
| 8 | $ 238,743 | $ 41,804 | | $ 16,651 | $ 58,456 | $ 180,287 |
| 9 | $ 243,518 | $ 42,640 | | $ 16,984 | $ 59,625 | $ 183,893 |
| 10 | $ 248,388 | $ 43,493 | | $ 17,324 | $ 60,817 | $ 187,571 |
| Totals | $ 2,275,792 | $ 398,495 | $ 253,081 | $ 2,927,367 | $ 810,303 | $ 1,465,489 |

2% Annual Escalation Rate applied to Utiity & Maintenance Costs.

# How Do We Pay for This?

## Cromwell – 1,208 Street Lights – NO CONTROLS

| Year | LED Energy Savings | CL&P Distribution Rate Savings | Total Savings | Lease Payments | Annual Maintenance | Total Cost | Net Cash Flow |
|---|---|---|---|---|---|---|---|
| 1 | $ 55,567 | $ 115,880 | $ 171,447 | $50,616 | $14,496 | $65,112 | $ 106,335 |
| 2 | $ 56,678 | $ 118,198 | $ 174,876 | $50,616 | $ 14,786 | $65,402 | $ 109,474 |
| 3 | $ 57,812 | $ 120,562 | $ 178,373 | $50,616 | $ 15,082 | $65,698 | $ 112,676 |
| 4 | $ 58,968 | $ 122,973 | $ 181,941 | $50,616 | $ 15,383 | $65,999 | $ 115,941 |
| 5 | $ 60,148 | $ 125,432 | $ 185,580 | $50,616 | $ 15,691 | $66,307 | $ 119,273 |
| **TOTAL** | **$ 289,173** | **$ 603,044** | **$ 892,217** | **$253,081** | **$ 75,438** | **$328,519** | **$ 563,698** |

| | | | |
|---|---|---|---|
| **Turnkey Project Costs** | **$** | **769,145** | |
| **Customer Capital Contribution** | **$** | **321,328** | Acquisition |
| **Total Incentives & Rebates** | **$** | **110,442** | |
| **CL&P Finance at 0% - 48 Months** | **$** | **100,000** | |
| **NET FinancedProject Cost:** | **$** | **237,375** | |
| **Lease Rate:** | | **2.55%** | |
| **Escalation Rate:** | | **2.00%** | |
| **NPV of Cash Flow** | | **$497,203** | |

# How Do We Pay for This?

## Cromwell – 1,208 Street Lights – WITH CONTROLS

| Turnkey Cost & Savings | |
|---|---|
| Audit, GIS Mapping & Tagging - $/Fixture | $ 20 |
| Acquisition from CL&P - $/Fixture | $ 266 |
| LED Retrofit - $/Fixture | $ 351 |
| Controls & Monitoring - $/Fixture | $ 90 |
| Estimated # ofUtility Owned Fixtures** | 1,208 |
| | |
| TOTAL # of Fixtures | 1,208 |
| | |
| Aqcuisition & Retrofit Total | $ 878,302 |
| | |
| Rebates @ $0.30/kWh Reduced | $ 110,442 |
| | |
| NET Turnkey Cost | $ 767,860 |
| | |
| Annual Energy Savings | $ 55,567 |
| NET Annual Maint. Savings | $ 115,880 |
| | |
| Total Annual Savings | $ 171,447 |

| Simple Payback (years) | 4.5 |
|---|---|

ESCO
THE ENERGY EFFICIENCY EXPERTS

# How Do We Pay for This?

Cromwell – 1,208 Street Lights – WITH CONTROLS

| ESTIMATED ANNUAL MAINTENANCE | |
|---|---|
| Fixtures | 1,208 |
| Management/ Monitoring / Control | $ 2.25 |
| Per Fixture Maintenance Cost per month | $ 1.00 |
| Monthly Maintenance Total | $ 3,926 |
| Months | 12 |
| Annual Maintenance Cost | $ 47,112 |

ESCO

THE ENERGY EFFICIENCY EXPERTS

# How Do We Pay for This?

## Cromwell – 1,208 Street Lights – WITH CONTROLS

| Year | Current CL&P Street Light Costs | New CL&P Street Light Costs | Street Light Acquisition & Conversion Annual Costs | Est. Annual Maintenance Costs | New Total Annual Costs | Total Annual Savings |
|---|---|---|---|---|---|---|
| 1 | $ 207,840 | $ 36,393 | $ 73,892 | $ 47,112 | $ 157,397 | $ 50,443 |
| 2 | $ 211,997 | $ 37,121 | $ 73,892 | $ 48,054 | $ 159,067 | $ 52,930 |
| 3 | $ 216,237 | $ 37,863 | $ 73,892 | $ 49,015 | $ 160,771 | $ 55,466 |
| 4 | $ 220,562 | $ 38,621 | $ 73,892 | $ 49,996 | $ 162,508 | $ 58,053 |
| 5 | $ 224,973 | $ 39,393 | $ 73,892 | $ 50,996 | $ 164,281 | $ 60,692 |
| 6 | $ 229,472 | $ 40,181 | | $ 52,015 | $ 92,196 | $ 137,276 |
| 7 | $ 234,062 | $ 40,985 | | $ 53,056 | $ 94,040 | $ 140,021 |
| 8 | $ 238,743 | $ 41,804 | | $ 54,117 | $ 95,921 | $ 142,822 |
| 9 | $ 243,518 | $ 42,640 | | $ 55,199 | $ 97,840 | $ 145,678 |
| 10 | $ 248,388 | $ 43,493 | | $ 56,303 | $ 99,796 | $ 148,592 |
| Totals | $ 2,275,792 | $ 398,495 | $ 369,461 | $ 3,043,747 | $ 1,283,819 | $ 991,973 |

# How Do We Pay for This?

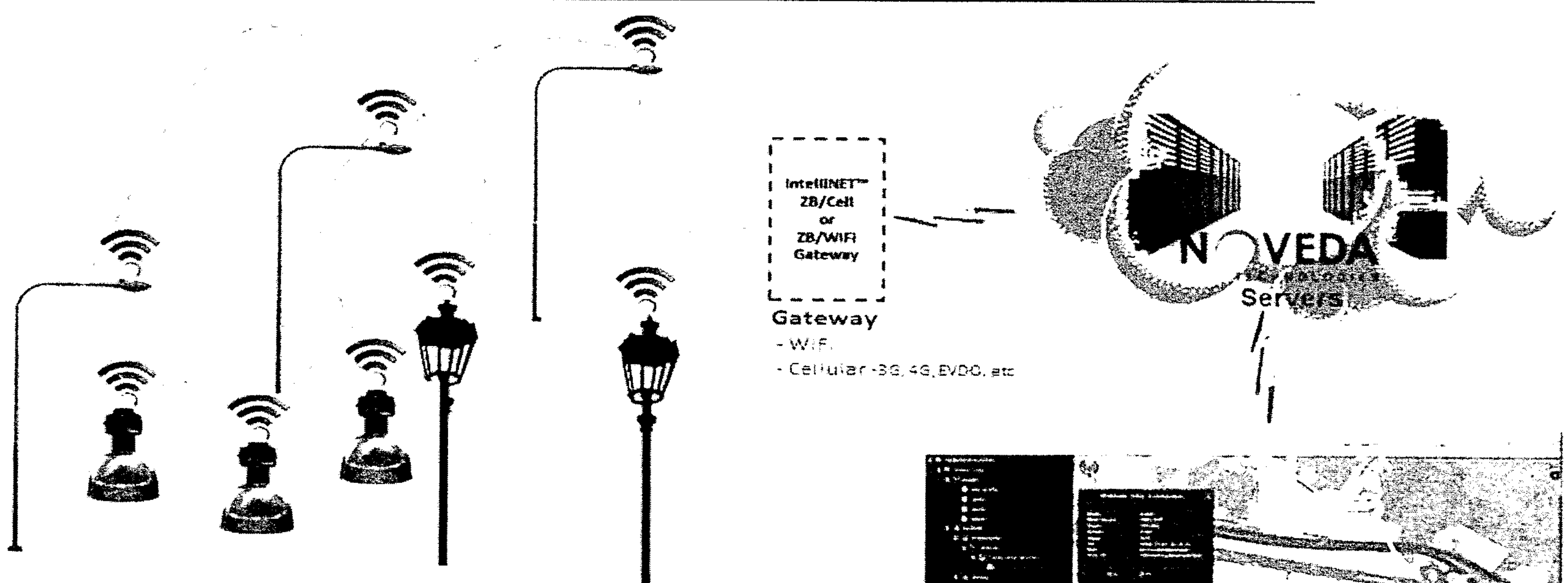
## Cromwell – 1,208 Street Lights – WITH CONTROLS

| Year | LED Energy Savings | CL&P Distribution Rate Savings | Total Savings | Lease Payments | Annual Maintenance | Total Cost | Net Cash Flow |
|---|---|---|---|---|---|---|---|
| 1 | $ 55,567 | $ 115,880 | $ 171,447 | $73,892 | $47,112 | $121,004 | $ 50,443 |
| 2 | $ 56,678 | $ 118,198 | $ 174,876 | $73,892 | $ 48,054 | $121,946 | $ 52,930 |
| 3 | $ 57,812 | $ 120,562 | $ 178,373 | $73,892 | $ 49,015 | $122,907 | $ 55,466 |
| 4 | $ 58,968 | $ 122,973 | $ 181,941 | $73,892 | $ 49,996 | $123,888 | $ 58,053 |
| 5 | $ 60,148 | $ 125,432 | $ 185,580 | $73,892 | $ 50,996 | $124,888 | $ 60,692 |
| **TOTAL** | **$ 289,173** | **$ 603,044** | **$ 892,217** | **$369,461** | **$ 245,173** | **$614,634** | **$ 277,584** |

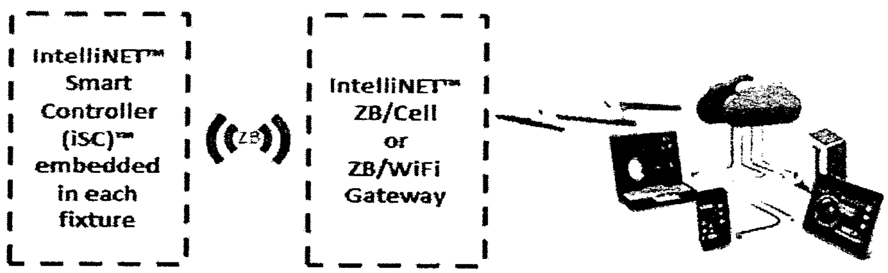
| | | |
|---|---|---|
| **Turnkey Project Costs** | **$ 878,302** | |
| **Customer Capital Contribution** | **$ 321,328** | Acquisition |
| **Total Incentives & Rebates** | **$ 110,442** | |
| **CL&P Finance at 0% - 48 Months** | **$ 100,000** | |
| **NET FinancedProject Cost:** | **$ 346,532** | |
| **Lease Rate:** | **2.55%** | |
| **Escalation Rate:** | **2.00%** | |
| | | |
| **NPV of Cash Flow** | **$244,482** | |

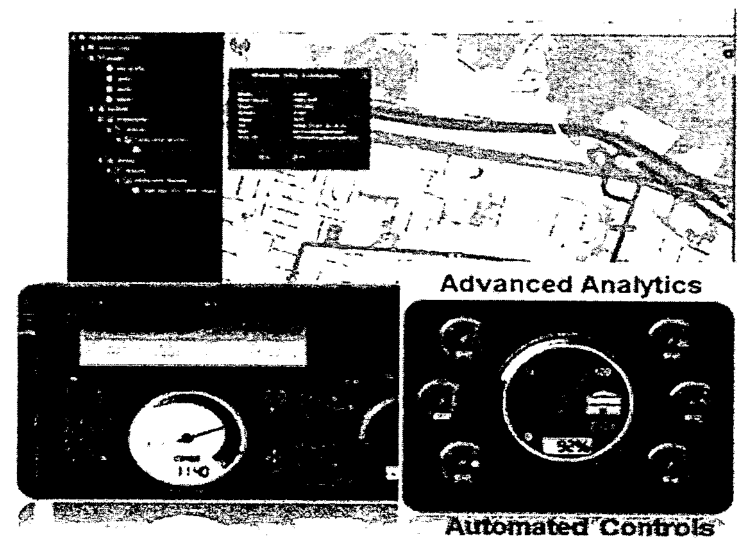
NOVEDA TECHNOLOGIES

# Application of the IntelliNET™ Luminaire Management System




Each luminaire contains an embedded iSC™ which establishes the InelliNET™ mesh network, controls and conductivity with strategically located Gateways and to host servers with highly reliable connectivity.



# HOW DO WE GET STARTED?

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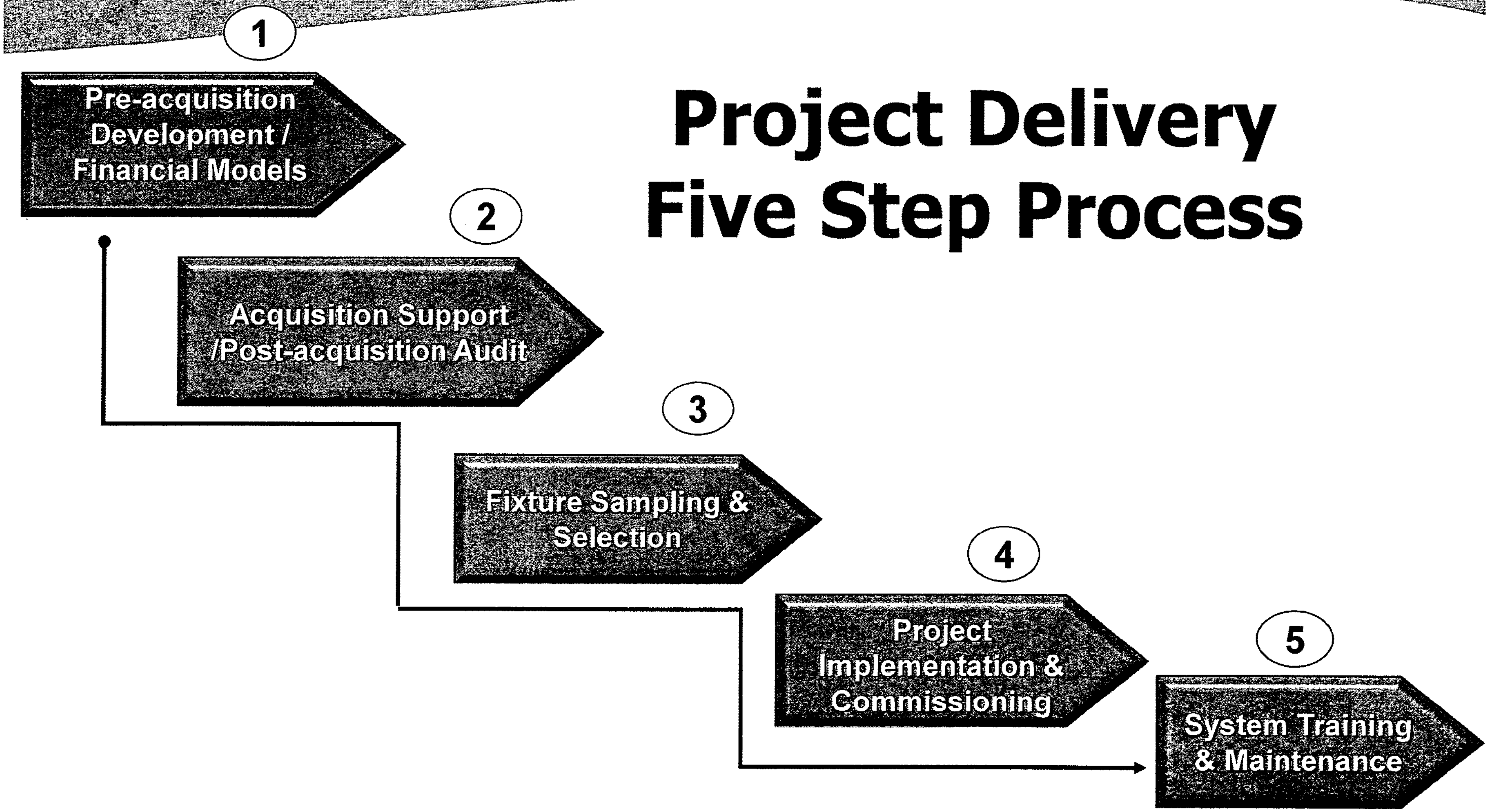
# ESCO's LED STREET LIGHT CONVERSION PROCESS

ESCO
THE ENERGY EFFICIENCY EXPERTS

# Project Delivery Five Step Process

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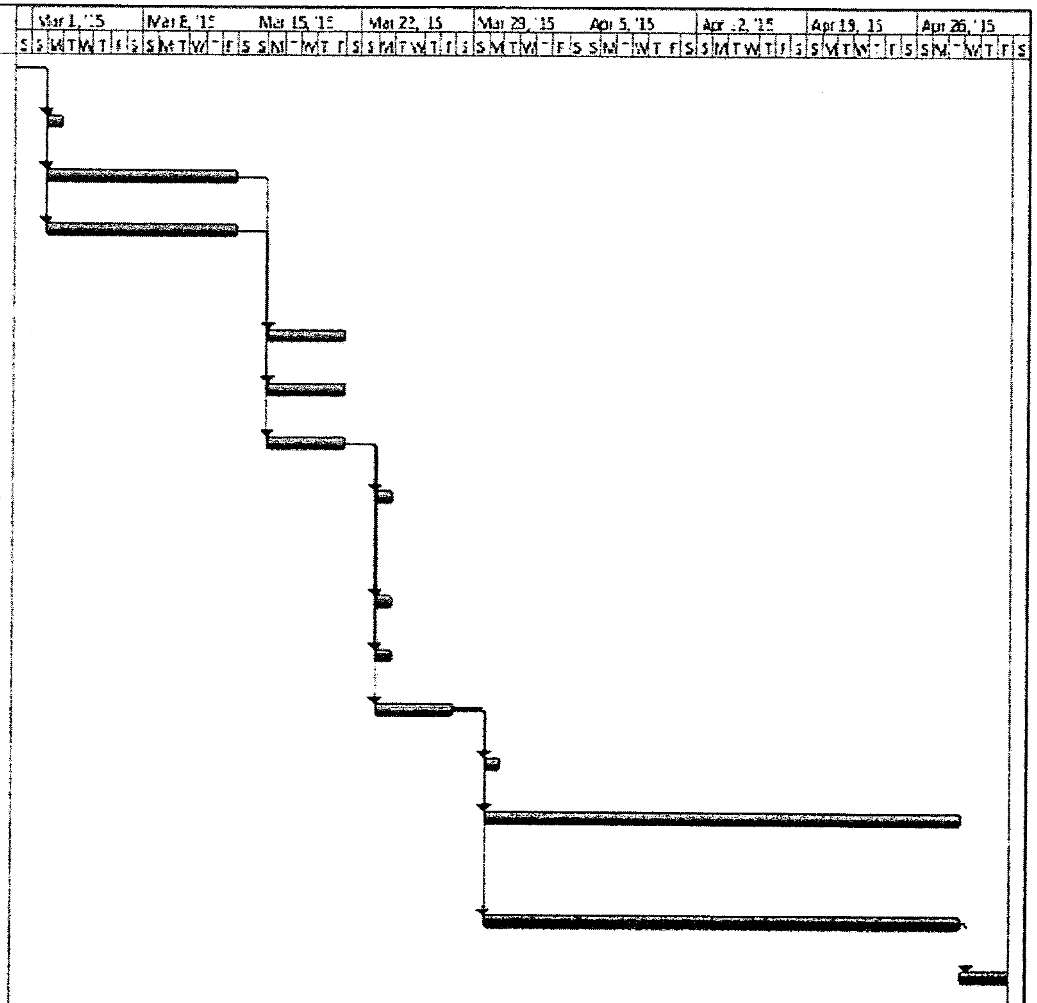
# Project Time Line

| ID | | Task Mode | Task Name | Duration | Start | Finish |
|---|---|---|---|---|---|---|
| 1 | | | Notice to Proceed | 1 day | Fri 2/27/15 | Fri 2/27/15 |
| 2 | | | Kick-Off Meeting | 1 day | Mon 3/2/15 | Mon 3/2/15 |
| 3 | | | Comprehensive Street Light GIS Audit | 10 days | Mon 3/2/15 | Fri 3/13/15 |
| 4 | | | Sample Fixture Installation & Replacement Plan Development | 10 days | Mon 3/2/15 | Fri 3/13/15 |
| 5 | | | Fixture Selection | 5 days | Mon 3/16/15 | Fri 3/20/15 |
| 6 | | | Data Reconciliation & Rebate Evaluation | 5 days | Mon 3/16/15 | Fri 3/20/15 |
| 7 | | | Savings & Cost Evaluation | 5 days | Mon 3/16/15 | Fri 3/20/15 |
| 8 | | | Submit audit report incl savings, cost & rebates | 1 day | Mon 3/23/15 | Mon 3/23/15 |
| 9 | | | Set Up Storage & Field Office | 1 day | Mon 3/23/15 | Mon 3/23/15 |
| 10 | | | Procurement/Release of Fixtures | 1 day | Mon 3/23/15 | Mon 3/23/15 |
| 11 | | | Order All Fixtures | 5 days | Mon 3/23/15 | Fri 3/27/15 |
| 12 | | | Fixture Inventory upon arrival | 1 day | Mon 3/30/15 | Mon 3/30/15 |
| 13 | | | Fixture installation and as built documentation | 22 days | Mon 3/30/15 | Tue 4/28/15 |
| 14 | | | Ongoing Commissioning | 22 days | Mon 3/30/15 | Tue 4/28/15 |
| 15 | | | Project Close Out & Punch List | 3 days | Wed 4/29/15 | Fri 5/1/15 |



# The Process

1. <u>Pre-Acquisition Development</u>

ESCO gathers information from CL&P :

– Streetlight Inventory
– Street Light Maintenance Records
– Net Book Value Estimate for Town Acquisition

ESCO develops preliminary Scope of Work with estimated Project Costs

ESCO completes  Financial Analysis – with estimated Costs & Savings and Financing Model

ESCO THE ENERGY EFFICIENCY EXPERTS

# The Process

2. <u>Acquisition & Post-Acquisition Audit</u>

**Town completes acquisition of Street Lights from CL&P**

**ESCO performs a physical GIS audit to include:**

- The Global Positional System (GPS) location (latitude & longitude) of each fixture
- Fixture type
- Wattage
- Pole mounting, Fixture height, mast arm length, etc.
- Pole type
- Street name
- Physical characteristics and/or physical issues that may impact the project

**ESCO conducts Post-Acquisition reconciliation with CL&P and verifies conversion to Rate 117**

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# The Process

3. <u>Fixture Samples / Fixture Selection / Control Options</u>

   ESCO facilitates Lighting design/Fixture selection

   – LED samples identified and installed
   – Gather feedback from stakeholders/residents
   – Town selects LED type to be implemented
   – Town selects street light control options to be implemented

   ESCO develops final Scope of Work and detailed Implementation Plan for Town approval

   Town issues Notice to Proceed

# The Process

## Top-tier LED Street Light Products

UIC energy LLC

LEOTEK®

HOLOPHANE®

GE Lighting

ForceField ENERGY

CREE®

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# The Process

4. <u>Project Implementation & Commissioning</u>

ESCO implements installation phase

- LED Street Lights installed per plan
- GIS audit verified and any required tagging completed
- Weekly progress reports are uploaded to GIS map
- Any discrepancies or modifications are addressed and completed
- ESCO performs detailed final system commissioning, inspections and obtains all CL&P sign-offs and certifications

ESCO provides required training for LED and control systems operation and reviews communications plan

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# The Process

***ZERO-Landfill Recycling***

- Cobra head street lights will be packaged in gaylord boxes on skids
- USofA will provide transportation of material to our recycling facility
- All wire, plastic, glass, capacitors, aluminum, steel and transformers will be recycled with a *zero landfill policy*
- High pressure sodium lamps (HPS) will be recycled at a USEPA approved facility
- Certificate of Recycling provided for all street lights received

UTILITY SERVICES of the Americas

ESCO THE ENERGY EFFICIENCY EXPERTS

# The Process

5. <u>Maintenance, Emergency Response & Rebates</u>

   ESCO provides all maintenance functions as directed by the town to include:

   - Any routine maintenance as required
   - 24/7 On-call Emergency Response

   ESCO will process and submit all paperwork required to ensure all rebates and financial incentives are secured on behalf of the town and verifies that the proper Rate 117 is in effect.

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The cleanest and most cost-effective energy is the energy you save through conservation measures

ESCO

THE ENERGY EFFICIENCY EXPERTS

[redacted]

To: Jonathan Sistare

From: Doug Sienna , Tax Collector

Proposed Revision to Article VI TAX RELIEF DEFERRAL PROGRAM FOR ELDERLY AND DISABLED HOMEOWNERS. 211-21D (2)

Now reads:

Any such lien shall have a priority in the settlement of the qualifying taxpayer's estate, and shall be valid without any limitations of time. All deferred taxes shall be reimbursed to the town within one hundred and eighty (180) days of the death of the qualifying taxpayer(s) or the sale, transfer or other conveyance of the real property, whichever occurs first. Taxes not paid within 180 days shall accrue interest commencing on day 181 days at the same rate and shall be subject to the same rules provided for by state law with respect to payment and the collection of delinquent real property taxes.

Proposed Change: 1

Any such lien shall have a priority in the settlement of the qualifying taxpayer's estate, and shall be valid without any limitations of time. All deferred taxes shall be reimbursed to the town within one hundred and eighty (180) days of the death of the qualifying taxpayer(s) . Taxes not paid within 180 days shall accrue interest commencing on day 181 days at the same rate and shall be subject to the same rules provided for by state law with respect to payment and the collection of delinquent real property taxes.

Upon the Sale, Transfer or other conveyance of the real property, all deferred taxes become due and payable on the date of transfer. Taxes not paid shall accrue interest at the same rate and shall be subject to the same rules provided for by state law with respect to payment and the collection of delinquent real property taxes.

Proposed Change: 2

Any such lien shall have a priority in the settlement of the qualifying taxpayer's estate, and shall be valid without any limitations of time. All deferred taxes shall be reimbursed to the town within one hundred and eighty (180) days of the death of the qualifying taxpayer(s) **or Upon** the sale, transfer or other conveyance of the real property, whichever occurs first. Taxes not paid within 180 days shall accrue interest commencing on day 181 days at the same rate and shall be subject to the same rules provided for by state law with respect to payment and the collection of delinquent real property taxes.

| | | | | |
|---|---|---|---|---|
| Deferred Taxes | | | | |
| | | | | |
| Clinton | | | Immediately on death or Sale | |
| Berlin | | 860 828 7123 | will call back | |
| Colchester | | 860 537 7210 | will call back | |
| columbia | | 860 228 0230 | will call back | |
| e hampton | | 860 267 2300 | will call back | |
| hrbran | | 860 228 5971 | will call back | |
| mansfield | | 860 429 3306 | will call back | |
| norwalk | | 203 854 7730 | will call back | |
| portland | | 860 342 6737 | Due Upon death or tranfer | |
| willington | | 860 487 3111 | due upon death or transfer | |
| coventry | | 860 742 4066 | due upon death or transfer | |
| guilford | | 203 453 8016 | date of death or transfer | |
| new haven | | 203 946 8051 | date of death or sale | |
| tolland | | 860 871 3657 | date of death or transfer | |
| glastonbury | | 860 652 7615 | date of death 90 days or transfer | |
| durham | | 860 349 1165 | filing date probate bill sent to probate | |
| manchester | | 860 647 3011 | 6 mos from date filed in probate | |
| rocky hill | | 860 258 2717 | 30 days upon death or transfer of ownership | |
| wallingford | | 203 294 2135 | 6 months | |
| middletown | | 860 344 3429 | upon death or when not primary resident | |
| Cromwell | | | Within 180 day of death or sale,transfer or other conveyance of Propety | |
| | Immediately | | | 1 |
| | Will call Back | | | 7 |
| | due upon death or transfer | | | 6 |
| | date of death 90days or transfer | | | 1 |
| | filing date probate bill sent to probate | | | 1 |
| | 30 days upon death or transfer of ownership | | | 1 |
| | upon death or when not primary resident | | | 1 |
| | 6 months | | | 1 |
| | 6 mos from date filed in probate | | | 1 |
| | Within 180 day of death or sale,transferor other conveyance | | | 1 |
| totals | | | | 21 |
| | 30 calls | | | |
| | | | | |

# Systems Analysis of the Town of Cromwell's Solid Waste Management Program

DSM ENVIRONMENTAL SERVICES, INC.
Resource Economists
Environmental Scientists

# Scope of Work

- Conduct an independent evaluation of the current residential solid waste and recycling collection system including:
  - Town's policy for reimbursement of solid waste disposal fees for residential properties.
- Scope of work included:
  - Estimate residential waste disposal and recycling
  - Estimating expenditures for solid waste management, in addition to Town budget
  - Recommend any changes that might reduce system costs, and reduce costs to the Town.

# Why DSM Environmental (DSM)

- Contractor through CCSWA
- Incorporated in 1988, and since then have worked throughout the US and abroad on solid waste management:
  - Large Cities – Boston, NYC, Columbus, Knoxville, Wilmington
  - Medium Cities and Towns – Concord, NH, Middletown RI
  - Small Towns – Oxford County (Maine), Hartford, VT
- Specialties include:
  - Refuse and recycling collection system analysis to reduce costs
  - Program budgeting and user fee system development, including implementation assistance
  - Waste and recyclables sorting to determine materials recovery
- DSM's recent work in CT:
  - 2010 Waste Characterization Study
  - Governor's Working Group on Solid Waste Management
  - Assistance with implementation of cart based recycling in Hartford
  - CT DEEP technical assistance contract for municipalities on UBP

# Current Town Solid Waste Management System

- Subscription curbside collection:
  - The majority of 1–4 family households receive curbside weekly refuse and EOW recycling collection through a single hauler
  - Roughly 1700 condominium units are served and no information is available on recycling
- Transfer station (no MSW):
  - Residents can drop-off bulky items, yard waste, recycling and other special wastes at no charge

# Quantities Generated

- *Estimated* Residential Waste Disposal
  - Based on scale data from All Waste invoicing
  - No data from condominiums or other MF units
  - Assumes 5,500 households

| Year | Curbside (tons) | Containerized/Other (tons) | Total (tons) |
|---|---|---|---|
| FY 2009 / 2010 | 3,324 | 2,670 | 5,993 |
| FY 2010 / 2011 | 3,181 | 2,555 | 5,737 |
| FY 2011 / 2012 | 3,261 | 2,619 | 5,880 |
| FY 2012 / 2013 | 3,118 | 2,504 | 5,622 |
| FY 2013 / 2014 | 3,170 | 2,546 | 5,716 |

# Quantities Generated

- *Estimated* Residential Recycling
  - Based on data from CRRA/MIRA
  - Mostly All Waste deliveries
  - Includes 30 tons of roll-off recycling (single stream) from 2010 - 2012 from:
    - Either transfer station (would include commercial cardboard), or condominium complexes

| Year | Recycling (Tons) | Households (Households) | Pounds per household (Lbs) |
|---|---|---|---|
| FY 2010 | 1,049 | 5,500 | 381 |
| FY 2011 | 984 | 5,500 | 358 |
| FY 2012 | 897 | 5,500 | 326 |
| FY 2013 (1) | 869 | 5,500 | 316 |

# Additional Quantities Managed

- Bulky and Demolition Waste Disposal
  - Transfer Station – Roughly 750 tons of bulky and demolition waste are handled (or roughly 270 lbs. per Cromwell household).
  - Undetermined volume of bulky and demolition waste also collected curbside through arrangements with subscription haulers

# Benchmarking

- Cromwell residential waste generation (per household) higher than MA municipalities
  - Data below shows average curbside household
- Cromwell recycling appears lower than average in MA municipalities
  - Curbside route may be 570 lbs./household, but little data on other households' recycling

| Municipal Data | MSW (lbs) | Bulky (lbs) | Recycling (lbs) | Total (lbs) |
|---|---|---|---|---|
| **MA DEP CY 2012** | | | | |
| Includes Bulky | 1,576 | | 519 | **2,095** |
| Excluded Bulky (1) | 1,441 | *NA* | 484 | ***1,925*** |
| **MA DEP CY 2013** | | | | |
| Includes Bulky | 1,569 | | 498 | **2,067** |
| Excluded Bulky | 1,411 | 261 | 460 | **2,132** |
| **CROMWELL FY 13 - 14** | | | | |
| Curbside Route | 2,078 | 270 | 316 | **2,664** |

# Average MSW Disposal Rate

- Scale data from curbside routes indicate single family households disposed an average of 2,078 pounds last year
  - Single family homes generally have higher disposal (and recycling) coefficients
- No data on condominium disposal rate
  - A disposal coefficient of 1.3 tons per household (2,600 pounds) is very high!

# System Costs

- Refuse and recycling collection (paid by residents)
  - Curbside
  - Condominiums
- Disposal (paid by Town through taxes)
- Transfer Station (paid by Town through taxes)
  - Operations
  - Contract Costs

# Collection

- Estimated costs of 1.2 million (rounded) per year based on:

| Collection Service | *Units ($)* | *Description* | *Units* | *Description* | Total Cost ($) |
|---|---|---|---|---|---|
| Curbside Collection | 216 | Annual Cost ($) Per Household | 3,050 | Households | $658,800 |
| Containerized Collection | 200 | Estimated Cost ($) Per Ton Collected | 2,546 | Estimated Tons Collected | $509,210 |
| **Total Estimated Cost:** | | | | | **$1,168,010** |

# Disposal Costs

- Roughly $360,000 spent on MSW disposal costs last year
  - Curbside reimbursement through scale records
  - Condos/Senior housing at 1.3 tons per household
  - Both at "spot" market tip fee – no town contract

| Reimbursements | Curbside ($) | Condos/Senior Housing ($) | Total ($) | Curbside *Cost/Ton* | Condos/Senior Housing *Cost/Ton* | Average *Cost/Ton* |
|---|---|---|---|---|---|---|
| FY 2009 / 2010 | $ 209,058 | $ 173,732 | $ **382,790** | $ 62.90 | $ 68.00 | $ **65.12** |
| FY 2010 / 2011 | $ 219,512 | $ 175,747 | $ **395,259** | $ 69.00 | $ 68.79 | $ **68.91** |
| FY 2011 / 2012 | $ 224,999 | $ 176,288 | $ **401,287** | $ 69.00 | $ 69.00 | $ **69.00** |
| FY 2012 / 2013 | $ 203,867 | $ 162,236 | $ **366,103** | $ 65.39 | $ 63.50 | $ **64.54** |
| FY 2013 / 2014 | $ 198,098 | $ 162,236 | $ **360,334** | $ 62.50 | $ 63.50 | $ **62.95** |

# Transfer Station

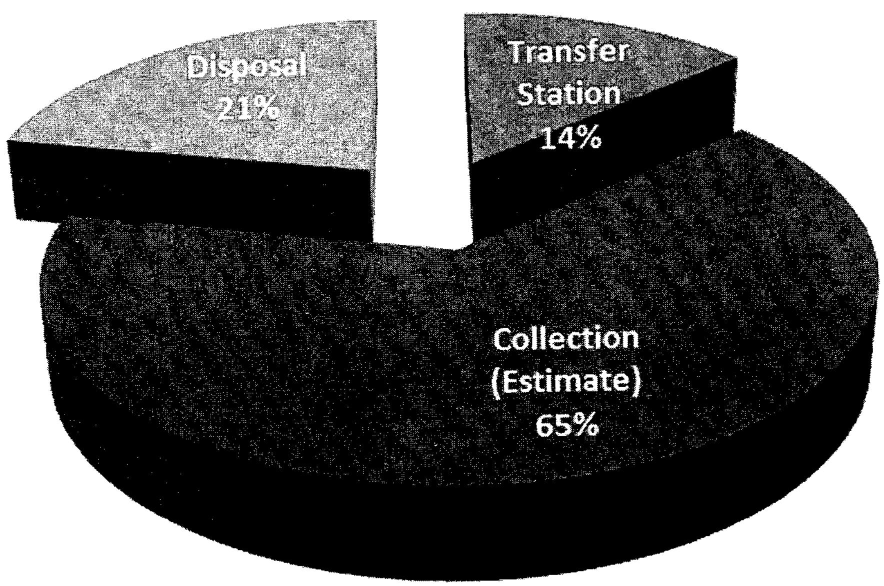
- Roughly 250k budget of which majority is contract services

| TRANSFER STATION | | ($) | Source |
|---|---|---|---|
| Wages | $ | 65,397 | Budget |
| Part-Time Wages | $ | 22,957 | Budget |
| Overtime Wages | $ | 10,000 | Budget |
| ***Contract Services*** | ***$*** | ***139,056*** | See Breakdown |
| Equipment Maintenance | $ | 1,000 | Budget |
| Departmental expenses | $ | 1,500 | Budget |
| Materials | $ | 2,800 | Budget |
| Gasoline & Fuel | $ | 5,950 | Budget |
| Capital Items | $ | 2,500 | Budget |
| **Total:** | $ | 251,160 | |

| CONTRACT SERVICES BREAKDOWN | | ($) | Source |
|---|---|---|---|
| Bulky Waste | | | |
| Transfer | $ | 20,601.00 | Invoices |
| Tip Fee | $ | 53,069.45 | Invoices |
| Mattresses | | | |
| Transfer | $ | 5,156.80 | Invoices |
| Processing | $ | 19,080.00 | Invoices |
| Tip Fee | $ | 1,699.15 | Invoices |
| Brush Grinding | $ | 21,000.00 | Budget |
| Leaf Recycling | $ | 8,000.00 | Budget |
| Special Wastes | | | |
| Propane Tanks | $ | 1,100.00 | Budget |
| Freon, etc | $ | 6,500.00 | Budget |
| Tires | $ | 1,400.00 | Budget |
| Oil, Filters, Antifreeze | $ | 650.00 | |
| TS General Permit | $ | 800.00 | Budget |
| Total: | $ | 139,056.39 | |

# System Costs

- Biggest opportunity to reduce system costs may be out of municipal control



# Comparing Solid Waste Services and Costs

- Cromwell vs Other CT Towns

# Collection

- Roughly 80 CT Municipalities representing roughly 57% of households offer some type of residential curbside collection service
  - Refuse and recycling, or just recycling
- While town controlled collection may save residents money, savings appear to be not as great as they might be in other CT municipalities
  - When adding disposal costs paid by Cromwell to estimated curbside collection costs, monthly household costs are roughly $23.50
  - This compares to an estimated $30 to as much as $60 per household found in many other communities throughout CT, the higher end appearing to be in Fairfield County.

# Disposal

- DSM believed Cromwell's policy of paying for residential solid waste disposal but not offering any type of curbside collection is unusual
- Findings from DSM Survey of 12 out of a total of 18 municipalities that, like Cromwell, rely on haulers to provide subscription refuse (and recycling) collection services but were thought to pay for disposal found:
  - Litchfield residents may choose any Litchfield registered hauler for trash collection but the Town pays tipping fees for trash tipped by these haulers at MIRA, who bills the town directly.
  - Harwinton pays for residential disposal and recyclables tipped at MIRA (CRRA) facilities but collected by subscription haulers, and MIRA bills the Town directly.
  - Greenwich, Trumbull, East Haddam, Woodbridge and Westport pay disposal costs for subscription haulers (as well as residents) who tip at their respective Town transfer stations.
- DSM was unable to identify any municipalities that reimburse haulers or generators (such as condominium complexes) directly for disposal costs

# Cromwell Transfer Station

- Free Permit
- No Fees
- Generous *limitations*

| MATERIAL | DEFINITION | PERMIT | LIMITATIONS (PER DAY) |
|---|---|---|---|
| BULKY WASTE | Household furniture, non-metal fixtures, etc. | Yes | No |
| MATRESSES & BOX SPRINGS | | Yes | 6 units per day |
| APPLIANCES- FREON CONTAINING | AC's, dehumidifiers, freezers, and refrigerators, all doors removed | Yes | 2 items per day |
| CLEAN FILL (NO DIRT) | Concrete, bricks & asphalt | Yes | 3 cubic yards |
| DEMOLITION | Construction & demolition materials - 8' length maximum, roofing & siding - | Yes | 3 cubic yards |
| CLEAN WOOD | Non-painted, non-stained & non-treated wood. | Yes | No |
| BRUSH | Brush and tree limbs - maximum length 8' | Yes | No |
| LEAVES | | No | No |
| SCRAP METAL | Bicycle, tools, water heaters, lawn chairs, bed frames, washers, dryers, microwaves | No | No |
| OIL FILTERS | Drain oil into oil tank at facility | No | No |
| PROPANE TANKS | | No | 2 – 20lb or smaller |
| WASTE ANTI-FREEZE | Antifreeze only | No | 5 gallons |
| WASTE OIL | Crank case, transmission, kerosene, diesel and hydraulic - not from machines | No | 5 gallons |
| TIRES | Up to 23" high performance passenger tire and 19.5" light truck accepted. All must be off rim. | Yes | 4 tires |
| BATTERIES | Lead Acid- automobile, truck, motorcycle, boat etc., Nickel Cadmium- Cell phones with or without batteries | No | No |
| ELECTRONICS | Computers, Monitors, Mice, Keyboards, Printers, TV's, VCR's and DVD Players. | No | No |
| CLOTHES AND SHOES | Clean garments only in plastic bags | No | No |
| CORRUGATED CARDBOARD | Flattened | No | No |
| NEWSPAPER | | No | No |
| PHONE BOOKS/MAGAZINES | Catalogs & magazines accepted | No | No |
| PLASTIC CONTAINERS | Coded #1 thru #7 within recycling triangle on container | No | No |
| GLASS FOOD CONTAINERS | Rinsed and contaminant free | No | No |
| METAL FOOD CONTAINERS | Rinsed and contaminant free | No | No |

# Examples of Transfer Station Fees

- Reviewed fees charged at some CT transfer stations
  - Many with high permit fee but also accept MSW

| MUNICIPALITY | PERMIT FEES | | | BULKY ITEMS | | | | | | OTHER MSW | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Annual | Senior | 2nd | C&D Fee | Unit | Brush Fee | Unit | Bulky Waste Fee | Unit | Trash Fee | Unit |
| Meriden | $20 per visit | | | Not Accepted | | No Charge (after $20) (1) | | No Charge (after $20) | | Not Accepted | |
| Woodstock | $150 | $75 | | $10 - $50 | Per Load (2) | $0 | Under 3" diameter | See Table 13 | | No Charge | |
| Darien | $120 | $0 | $0 | No Charge | | No Charge | | | | No Charge | |
| Glastonbury | $95 | | | No Charge | | $0 | No limit | No Charge | | No Charge | |
| Newtown | $90 | $80 | $5 | $75 | Cubic Yard | $10 | Cubic Yard | | | 32-gal limit per day | |
| Bethel | $50 | $40 | $10 | | | $10 - $35 | Car or Truck load | See Table 13 | | $0.20 | Pound |
| Roxbury | $40 | | $10 | | | | | See Table 13 | | $25.00 | Pickup Load |
| New Canaan | $40 | | | $125 | Ton | $100 | Ton (200 lbs. free) | | | No Charge | |
| Glastonbury | $25 | | $0 | $3 | Per Visit | $3 | Per Visit | See Table 13 | | $3.00 | Per Visit |
| Ridgefield | $20 | | | 0.04 | Per Pound | $100 | Ton ($5 Min.) | 0.04 | Per Pound | $84.44 | Ton |
| Watertown | $20 | | | $20 | Cubic Yard | $10 - $25 | Cubic Yard | $10 | Min Fee | $3.00 | 32-gal bag |
| Columbia | $20 | | $0 | $40 | Cubic yard | $5 | Cubic Yard | $40 | Cubic yard | No Charge | |
| Wethersfield | $5 | | | $25 | 1/2CY | $25 | 1/2 CY | See Table 13 | | 32-gal limit per day | Up to 260 Lbs. |
| Enfield | $5 | | | $140 | Per Ton | | | See Table 13 | | $7.00 (or $140 per ton) | |
| Wilton | $0 | | | Fees charged | | | | Fees charged | | $4.50 | 32 gal bag |
| Weston | $0 | | | 0.17 | Per Pound | Not Accepted | | See Table 13 | | $1.50 | 32-gal bag |
| Southbury | $0 | | | $80 | Cubic Yard | $80 | Cubic Yard | See Table 13 | | No Charge | |
| East Haddam | | | | | | $40 | Per Ton | $100 | Per Ton | | |

# Bulky Waste Fees at Transfer Stations

- Not unusual to have fees for most non hazardous items
- However fees are for items disposed, not recycled, to encourage diversion

| | Woodstock | Glastonbury | Bethel | Roxbury | Ridgefield | Watertown | Columbia | Wethersfield | Enfield | Wilton | Weston | Southbury | East Haddam |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PERMIT FEE** | $150 | $25 | $50 | $40 | $20 | $20 | $20 | $5 | $5 | $0 | $0 | $0 | |
| **BULKY ITEMS** | | | | | | | | | | | | | |
| Mattresses | $6 | $3 per visit (unclear if this is per load) | $10 - $25 | $20 | $0.04 per lb. | $20 | | $15 | $140 / ton | Fees are charged based on $4.50 punch | | $20 | $100/ ton |
| Box Spring | $6 | | $10 - $25 | $20 | $0.04 per lb. | $20 | | $15 | $140 / ton | | | $10 | $100/ ton |
| Sleeper Sofa | $9 | | $25 | | $0.04 per lb. | $25 | | | $140 / ton | | $ 0.17 per lb. | $25 | $100/ ton |
| Couches | $9 | | $25 | | $0.04 per lb. | $15 | $10 | $15 | $140 / ton | | $ 0.17 per lb. | $20 | $100/ ton |
| Chairs, Small Furniture | $5 | | | | $0.04 per lb. | $15 | | $10 | $140 / ton | | $ 0.17 per lb. | $30 | $100/ ton |
| **APPLIANCES** | | | | | | | | | | | | | |
| Without CFC's | | | $20 | | | $10 | $7 | $15 | | | $10 | $10 - $20 | |
| With CFC's (Freon) | $15 | $8 | $30 | $10 - $30 | | $20 | $7 | $10 | $20 | 13.5 | $10 | $20 | $10 |
| Loose Scrap Metal | | | $0.20 per | | $0.15 per lb. | | | | Free | | | | |
| **ORGANIC MATERIALS** | | | | | | | | | | | | | |
| Grass Clippings | Not Accepted | | | | | | | $3 per 32 gallor | Free | | Not Accepted | | |
| Leaves | | | No Charge | | | | | | Free | | Not Accepted | | |
| Tire (Passenger) | $4 | $3 | | | $0.15 per lb. | $5 | $2 | $2 | | $4.50 | $3 | $6 | $2 |

# CONCLUSIONS

- Analysis of Cromwell's Solid Waste Management System

# Conclusions

- Collection
  - Curbside costs are relatively low so savings from a town contract may not be great
  - Not enough information on condominium collection costs but assumed some efficiency through management contracting
  - To achieve these savings, Town would need to manage collection and add this to their budget or institute an Enterprise Fund or UBP Fee Structure
- Disposal Reimbursements
  - Practice of direct reimbursements for disposal unusual when Town does not manage the collection system
  - Based on household count, there appear to be some residential property owners who do not benefit from the practice
  - Policy of reimbursing condominiums for 1.3 tons per unit is too generous.
    - Most households that recycle generate less than 1 ton per year, and with aggressive recycling some households generate as little as ½ ton per year, as do smaller households.

# Alternatives for Disposal Reimbursement

- Discontinue policy as Town does not control waste
- Continue policy but require scale data for all reimbursements, or offer alternative:
  - Weigh refuse from complex at least twice per year and calculate a weight per unit served for reimbursement, or
  - Use an updated disposal coefficient
    - Census data (1994) found condominium households average 1.9 persons compared with 2.6 persons national average (73%)
    - In the absence of weigh data (or more recent occupancy data), reimburse condominium complexes at 73 percent of prior year's average weight per single family household served

| Unit | Description |
|---|---|
| 3,170 | Tons |
| 3,050 | Single Family (SF) Households |
| 1.04 | Tons Per SF Household |
| 73% | *Percent Occupancy (Condo of all households)* |
| 0.76 | Tons Per Condominium Household |

# Conclusions – Transfer Station

- DSM would recommend a transfer station permit requirement for users dropping off any material:
  - Will help ensure small businesses or residents of other towns do not use the facility.
  - Small permit fee ($25 per year for the first permit, and $15 for a second) would help track users as well as raise revenues to help offset costs, particularly those for hard to handle materials.
- DSM would recommend some limitations and/or fees:
  - Minimal fees on items (such as $10 per bulk item or per cubic yard of demo waste) and/or greater limitations on the volume allowed per year would help limit abuse, raise revenues and encourage some households to pursue reuse options.

# Conclusions – Recycling

- Public Act 14–94 set an ambitious statewide recycling goal of 60% by 2014. Municipalities will have to play a role.
- Cromwell's contribution is unclear since recycling among condominium units and multi–family dwellings is unknown.
  - Available data indicates there is opportunity to increase recycling as per household annual disposal and recycling coefficients of above 2000 and below 400 pounds respectively fall below the expected range for high performing municipal recycling programs.
  - A survey of recycling at the condominium complexes could be conducted, along with some verification of curbside route data weights to provide a more accurate estimate of existing recycling to compare against other communities and the State goal.