Energy Savers:
Your one stop shop for energy efficiency upgrades

Peter Ludwig
Energy Efficiency Programs Manager
CNT Energy
Energy Savers: One Stop Shop

- Energy Analysis
- Cost-effective energy-saving recommendations
- Low-cost financing through our partner, Community Investment Corporation
- Align scope and assist Owner in accessing appropriate utility rebates and programs
- Construction Management & Oversight
- Track building performance to ensure savings
Energy Savers Success!

- 7,500 units upgraded for efficiency
- 350 jobs created
- 1,714,800 gas therms saved
- Collective savings of over $6 million
Energy Analysis

• Building the relationship
• Addressing owner’s needs
• Identifying savings opportunities
• Conveying benefits of energy efficiency
Best Payback

Worse

Upgrade windows

Upgrade boiler

Upgrade boiler controls/balance system

Better

Air-seal & insulate roof

Payback time

Percent savings
## Cost-effective Recommendations

### Sample Energy Efficiency Investments

Based on a typical three-story, 24-unit masonry structure with 24,000 square feet of heated space.

<table>
<thead>
<tr>
<th></th>
<th>Cost</th>
<th>Annual savings</th>
<th>Simple payback</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Building envelope</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Air seal and insulate roof</td>
<td>$15,500</td>
<td>$4,500</td>
<td>3.4 years</td>
</tr>
<tr>
<td><strong>Mechanical systems</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Replace boiler</td>
<td>$24,000</td>
<td>$2,020</td>
<td>11.9 years</td>
</tr>
<tr>
<td>Install boiler controls</td>
<td>$4,500</td>
<td>$1,440</td>
<td>3.1 years</td>
</tr>
<tr>
<td>with outdoor reset control</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Replace radiator and main line</td>
<td>$2,800</td>
<td>$850</td>
<td>3.3 years</td>
</tr>
<tr>
<td>air vents</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td><strong>Electrical/lighting</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Compact fluorescent lamps</td>
<td>$160</td>
<td>$60</td>
<td>2.7 years</td>
</tr>
<tr>
<td><strong>Total for all measures</strong></td>
<td>$46,960</td>
<td>$8,870</td>
<td>5.3 years</td>
</tr>
</tbody>
</table>

### Total Savings on Energy Costs

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<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Savings over 5 years</td>
<td>$44,350</td>
<td></td>
</tr>
<tr>
<td>Savings over 10 years</td>
<td>$88,700</td>
<td></td>
</tr>
<tr>
<td>Savings over 15 years</td>
<td>$133,050</td>
<td></td>
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</tbody>
</table>
Quality Installation is crucial

CNT Energy helps owners:

• Develop an implementation plan
• Solicit and help review bids from contractors
• Monitor installation
• Ensure quality
Ensuring ongoing savings

CNT Energy will:

• Review energy bills
• Provide annual performance report
• If building is not performing as well as expected, we will perform a building tune-up
What are the benefits?

- Increased cash flow
- Average 30% energy savings
- Savings of $10,000/year for a typical 24-unit building
- Tenant comfort and retention
- Improved HVAC systems: higher efficiency, better maintenance, longer life
- Access to low cost financing & we will help access relevant utility rebates

CNTenergy
Success Story: 7549 S. Essex

Building owner: Checkmate Realty and Development
Building type: 4-story, 23-unit brick apartment building
Financing: CIC low-interest loan of $85,000

Energy efficiency upgrades completed
- Air sealing
- Roof cavity insulation
- Replaced aging, inefficient boiler
- Installed new boiler controls
- Water heater replaced with 95% efficiency rated unit
- Insulated heating and hot water pipes
Success Story: 7549 S. Essex

Energy savings

- Projected energy savings: 33%
- Projected annual cost savings: $13,630
- Projected simple payback: 4.5 years
For more information

Energy Savers Team

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Thank you

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