Poulos House Case Study

**Profile**
- **Age:** 92 yrs (Built in 1918)
- **Use:** Single-Family
- **Residence Type:** Two-Story
- **East-Facing
- **Land Square Footage:** 9,250
- **Building Square Footage:** 1,794
- **Exterior Construction:** Stucco
- **Concrete Foundation
- **Has been Remodeled several times
- **Original Windows and un-insulated plaster walls
- **16 yr old boiler (~1994)

**Problem**
- 93% of heated air is lost per hour throughout the winter
- Little or no insulation in attic and walls
- One natural gas leak above boiler
- Basement boiler and water heater are not adequate

**Tests Performed**
- Infrared Scanning
- Blower Door
- Combustion Appliance Safety
- Carbon Monoxide Analyzer
- Natural Gas Detector
- Smoke “puffer”
- Combustion Air Supply

**Audit Results**

<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>1.</strong></td>
<td>Insulate attic and walls for maximum efficiency.</td>
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<td><strong>2.</strong></td>
<td>Install spray-on foam insulation in attic.</td>
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<td><strong>3.</strong></td>
<td>Seal leaks around windows and doors.</td>
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<td><strong>4.</strong></td>
<td>Replace old windows with energy-efficient models.</td>
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<td><strong>5.</strong></td>
<td>Upgrade heating system to a high-efficiency model.</td>
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**Energy Savings and Recommendations**
- **10%** energy savings achievable with recommended actions.
- **20%** energy savings with comprehensive improvements.

**Conclusion**: Implementing the recommended actions will significantly reduce energy consumption and improve the comfort of the household.

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1. Did you follow any of the suggestions on your Energy Audit results given by EZING? If so, which ones and why?
2. Do you feel like the money you spent on the Energy Audit was worth it?
3. Why did you decide to get an energy audit? Were there any negatives?
4. How long did your Energy Audit take? (hours/days?)
5. Has the experience of the Energy Audit changed the way you think and act? Your family?

Yes, absolutely! We are a lot more aware of the energy we use & the way that our home functions throughout the day.