

Preliminary Energy Assessment

Report Overview



Report Main Sections

1. Summary
2. Change-Point Model
3. Cost Analysis
4. Conclusion

I. Summary

Example Summary from Report



Preliminary Energy Assessment

Insert Building Name

Street Address, City, State Zip Code

Summary

The annual potential cost savings for this property is \$1,587 resulting from the annual energy savings of 30,090 kWh. To achieve these savings, RAN-RM suggests implementing the following energy efficiency retrofit solutions:

- Reduce Equipment Schedules
- Decrease Heating Setpoints

If all retrofits are implemented the building would reduce its energy consumption by 12.8%. While this value gives an approximate savings potential, additional analysis is required to determine the cost effectiveness of these recommended measures.

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Potential Cost Savings



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I. Summary

Potential Cost Savings

Summary

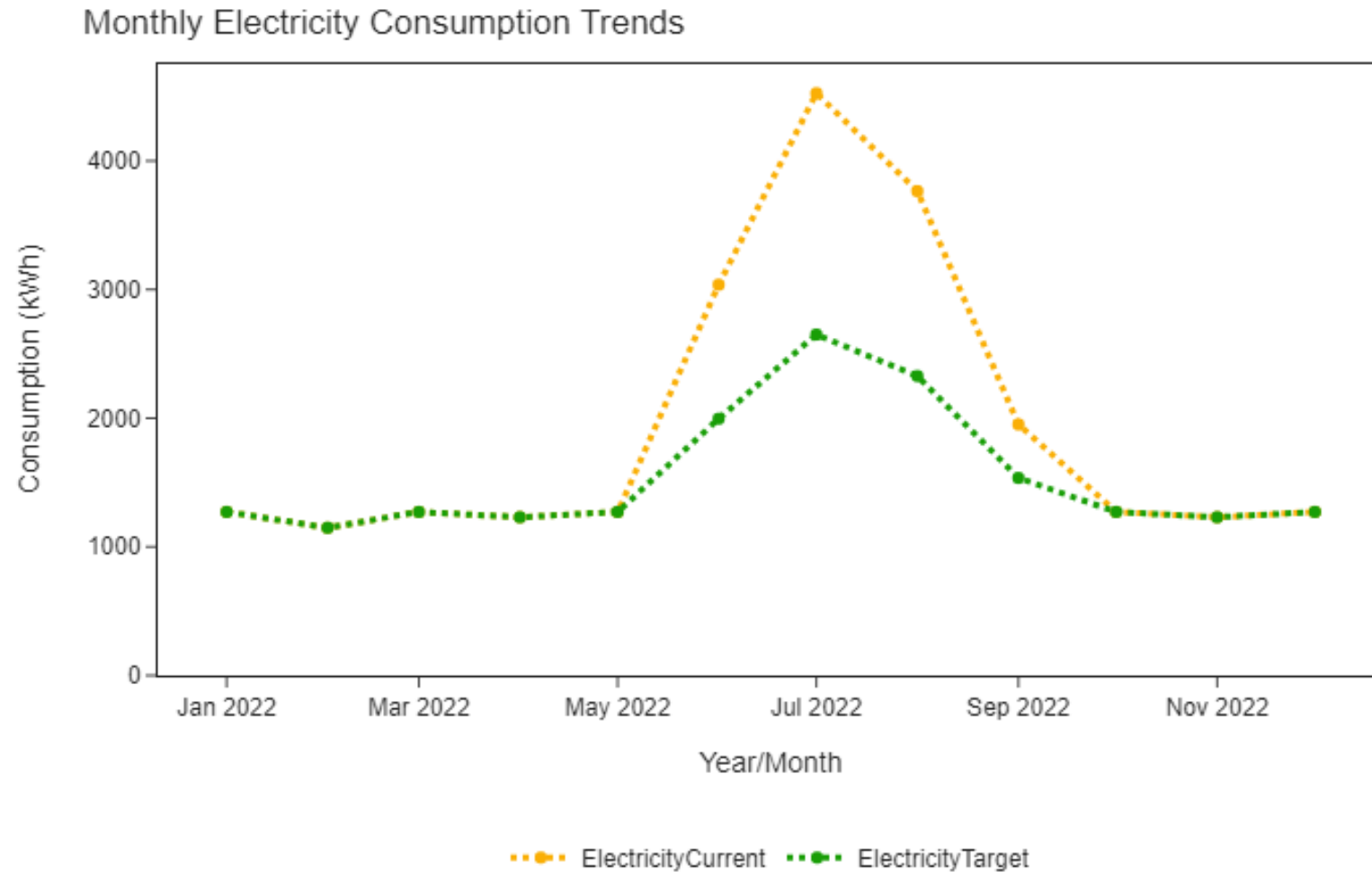
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Recommended Retrofits

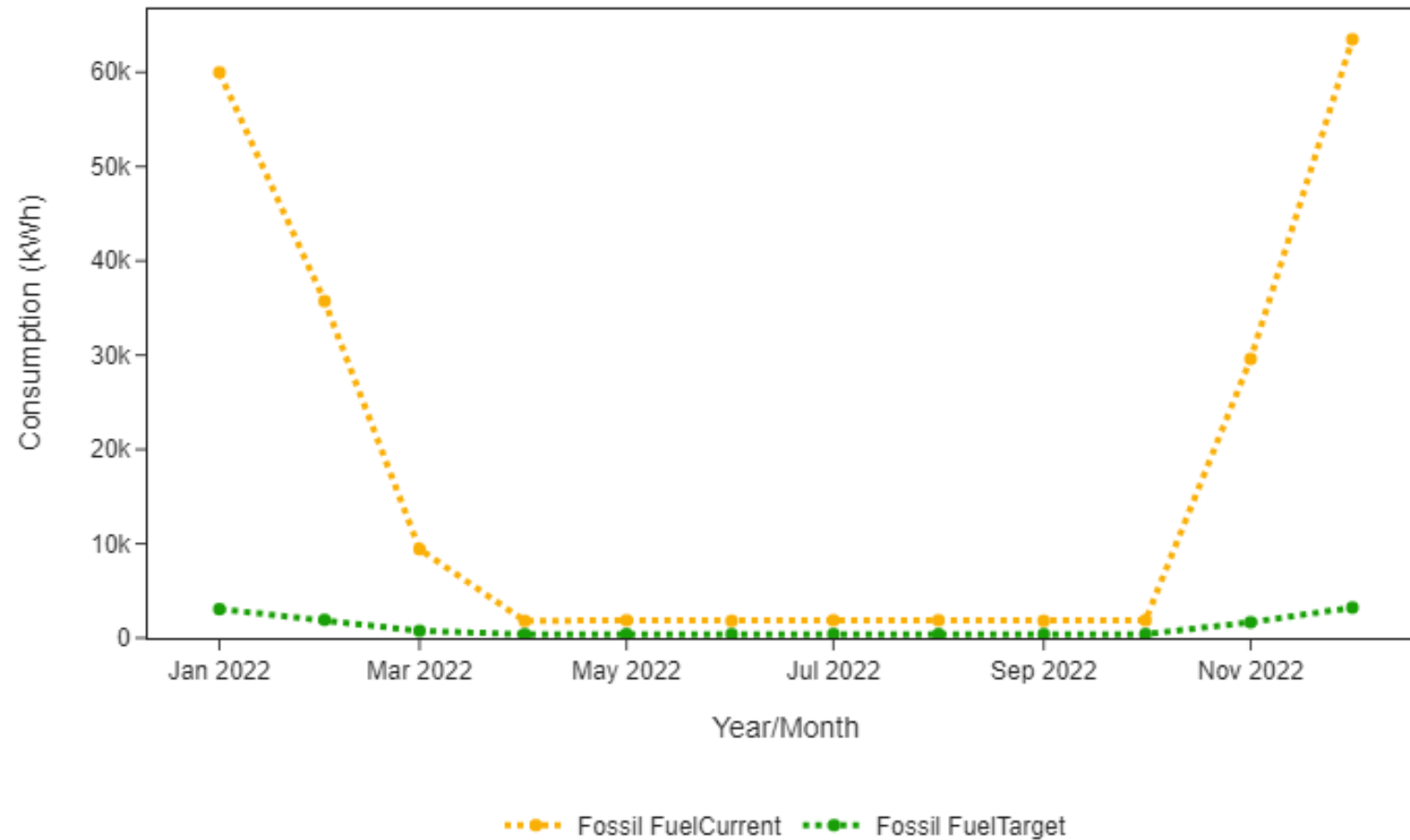
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II. Utility Data

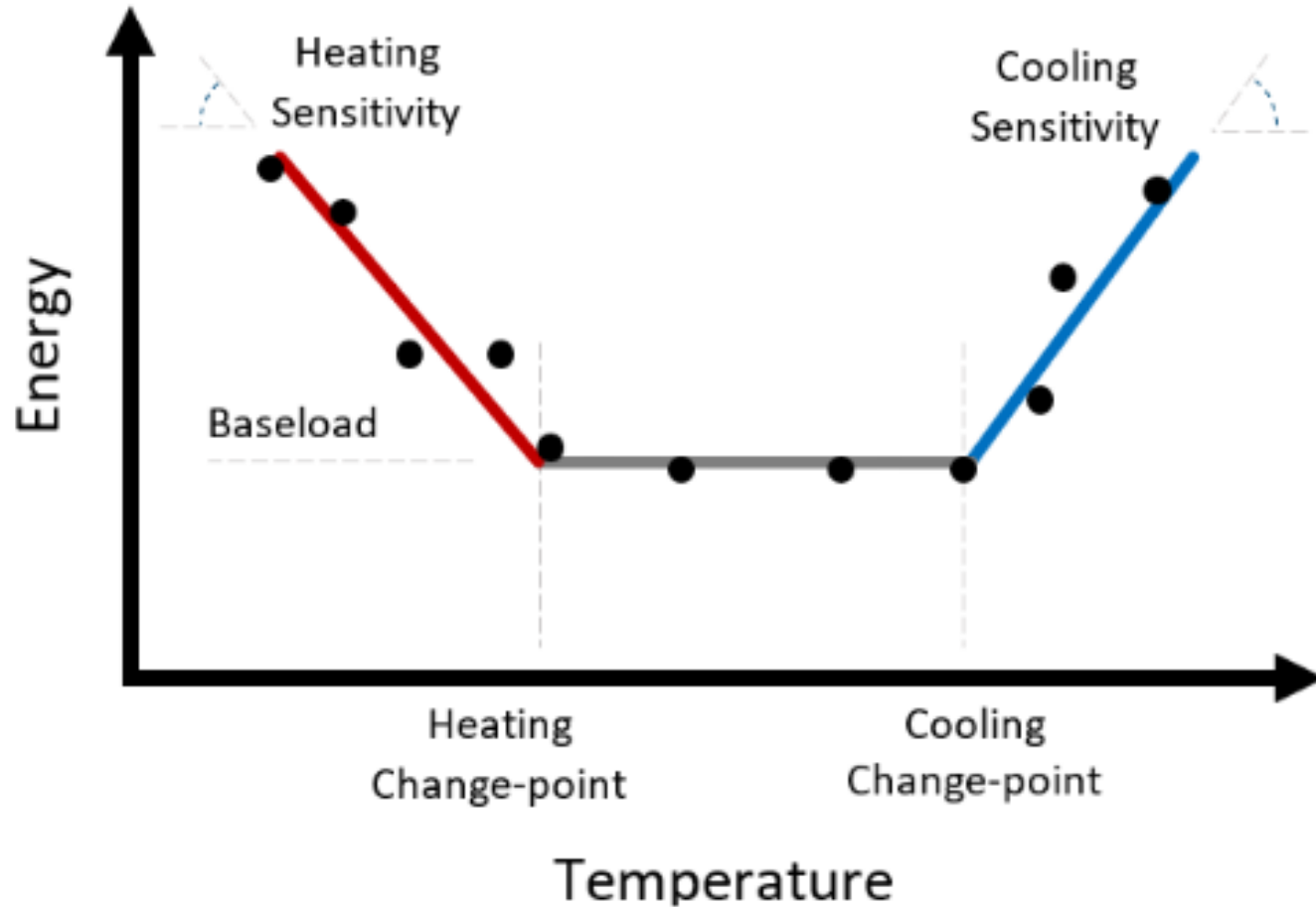


II. Utility Data

Monthly Fossil Fuel Consumption Trends



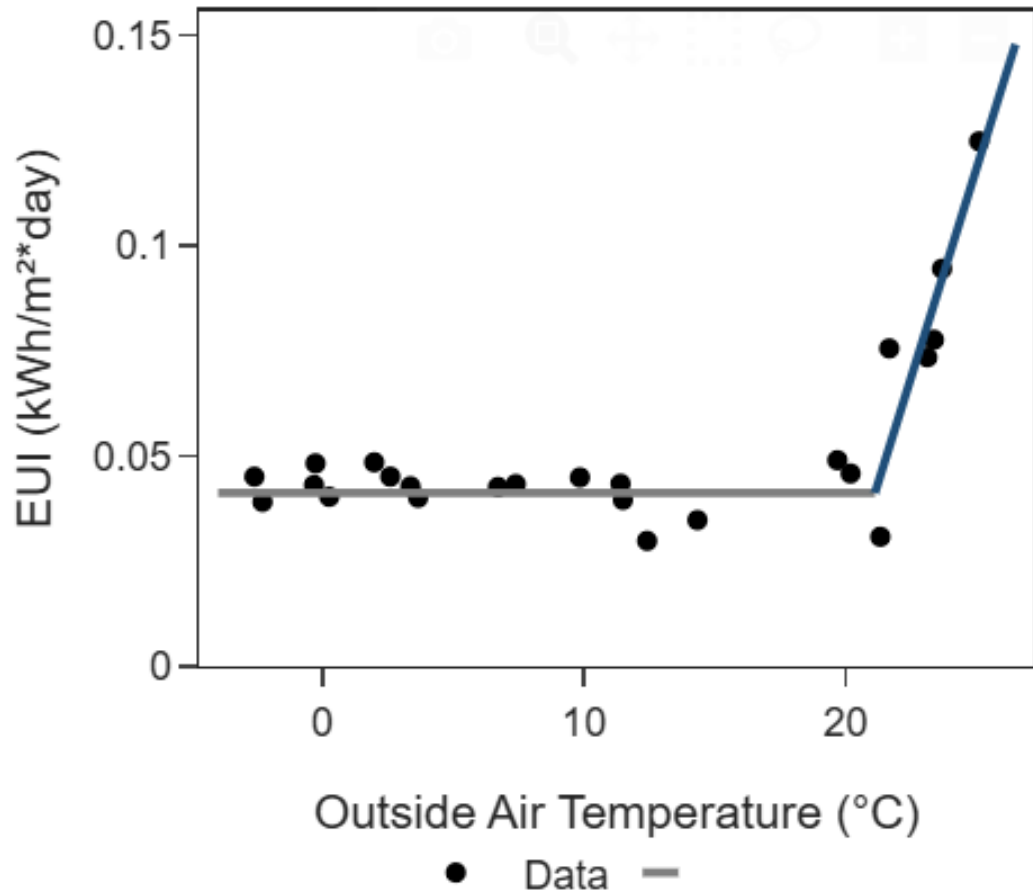
III. Change-Point Model



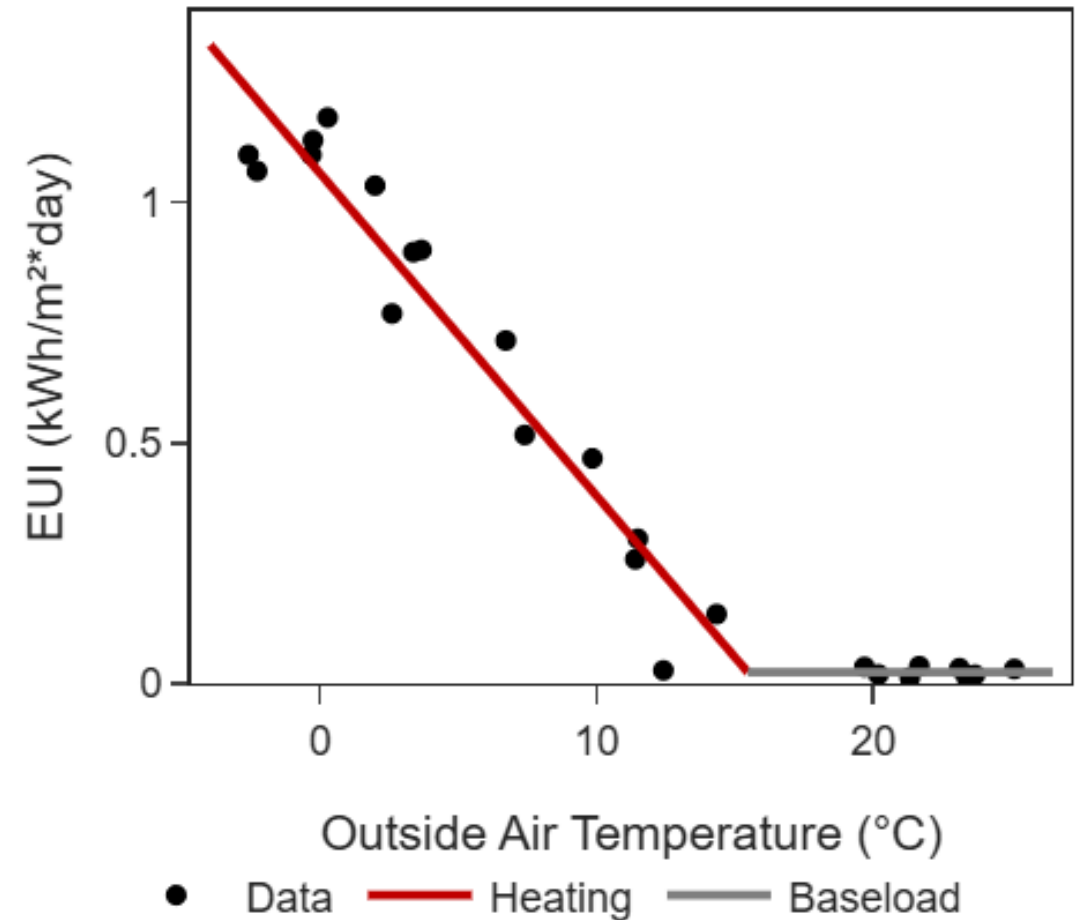
- Steep angles indicate inefficient buildings.
- Red lines are for heating.
- Blue lines are for cooling.
- Grey lines are for baseload.

III. Change-Point Model

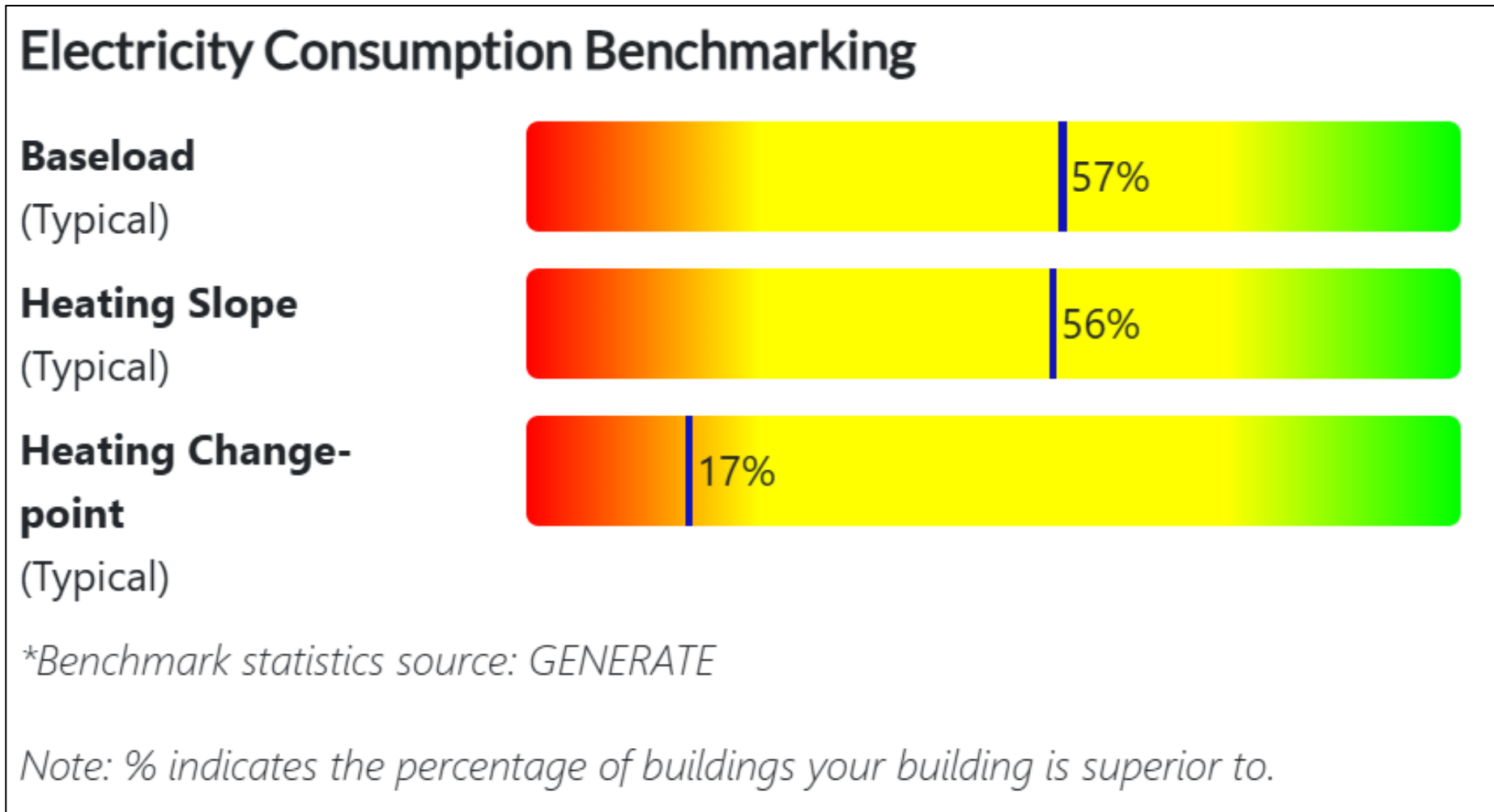
Cooling Change-Point Model Example



Heating Change-Point Model Example



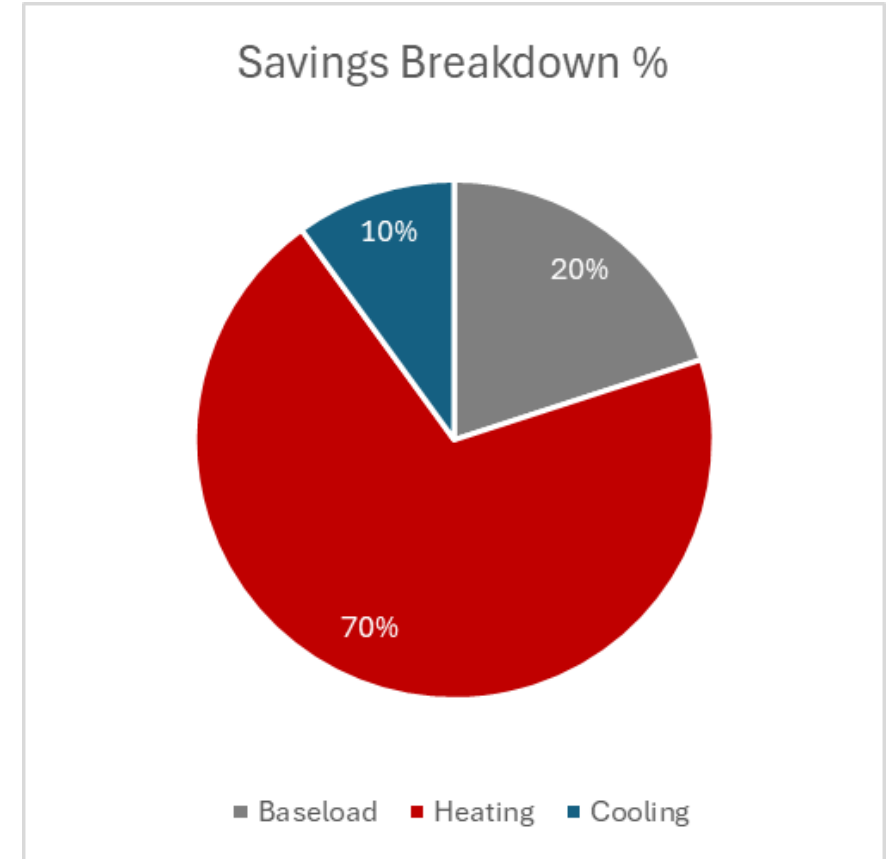
III. Change-Point Model



III. Cost Analysis

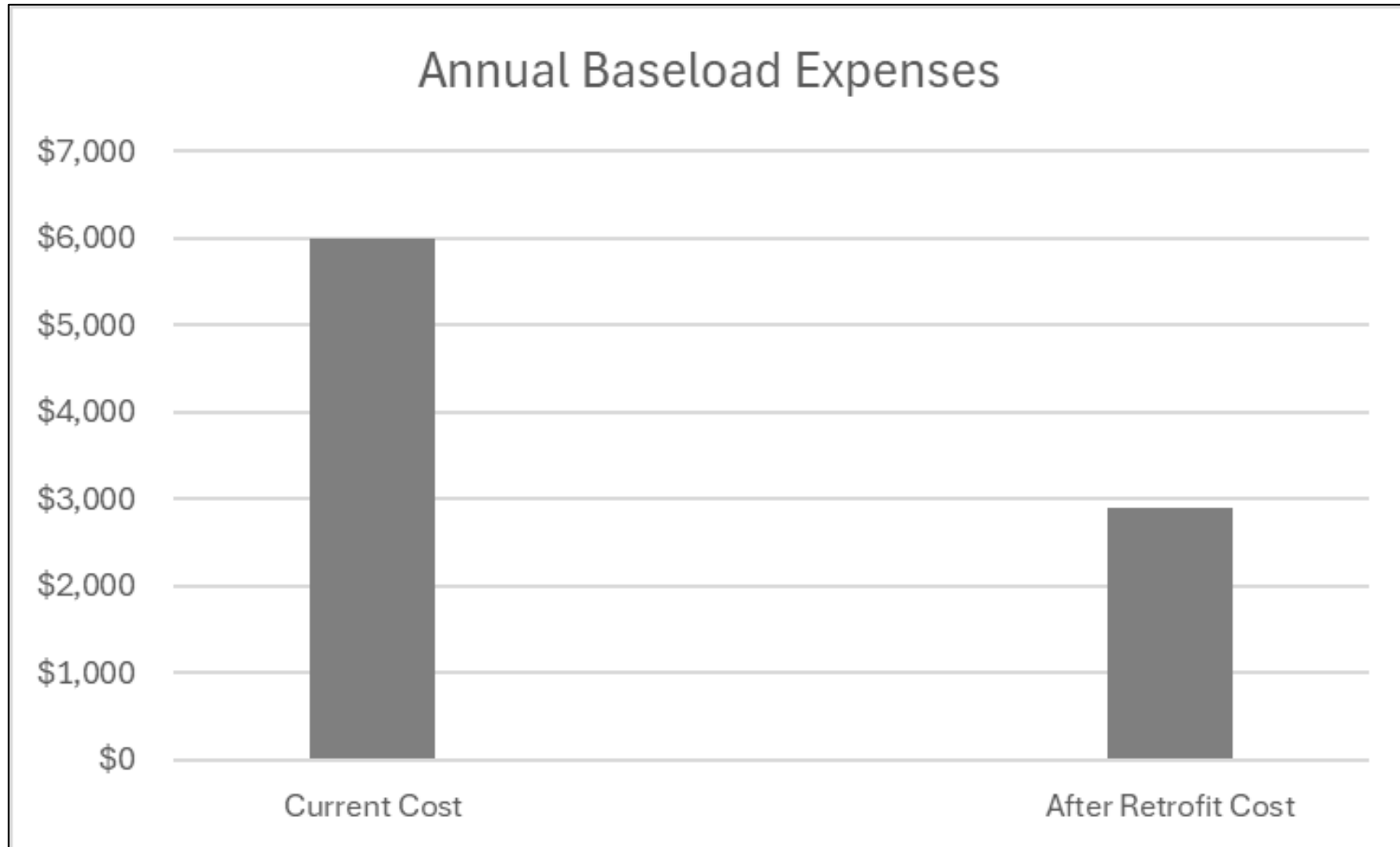
We break savings into three sections:

- Baseload
- Heating
- Cooling

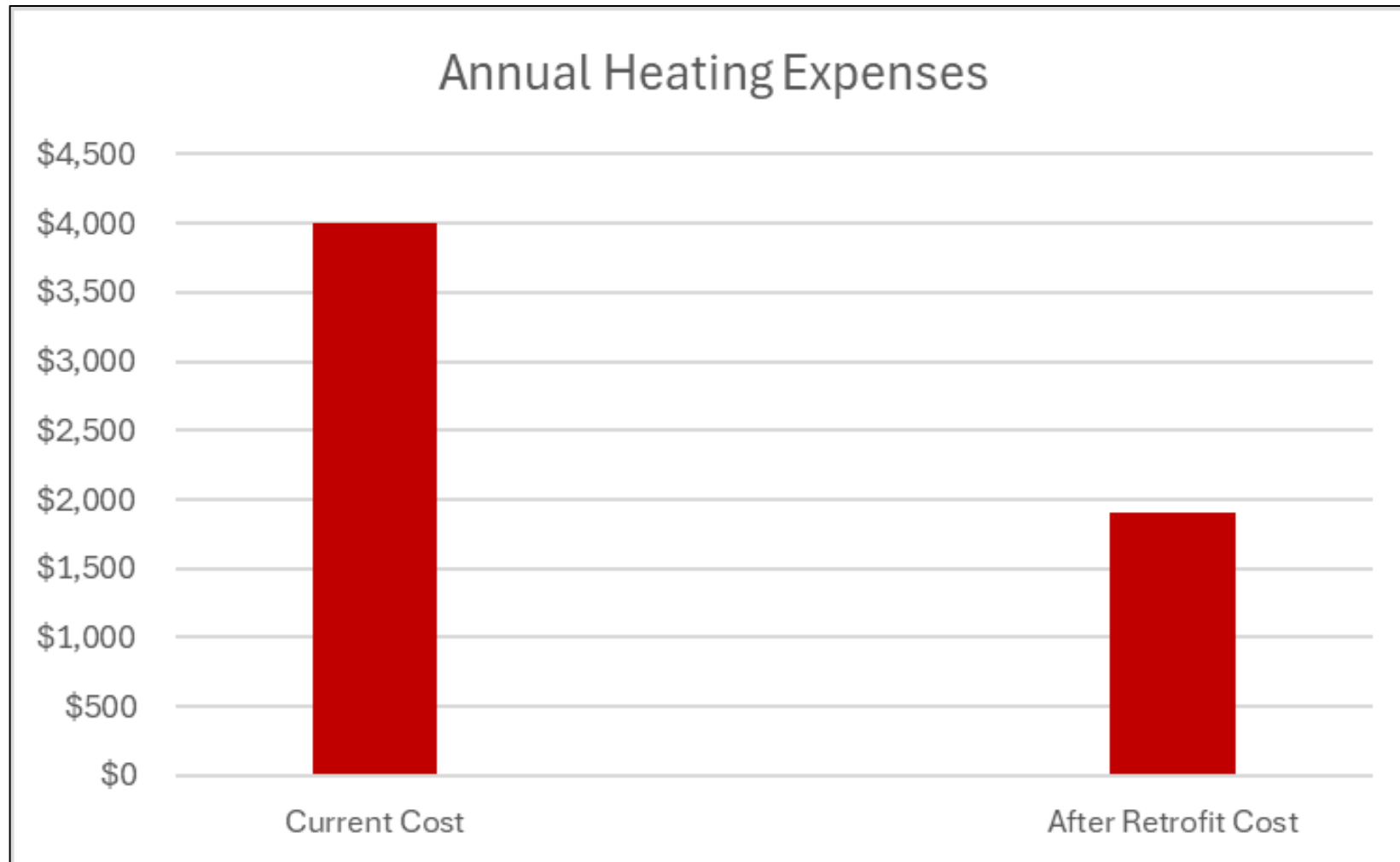


Typical Savings Breakdown

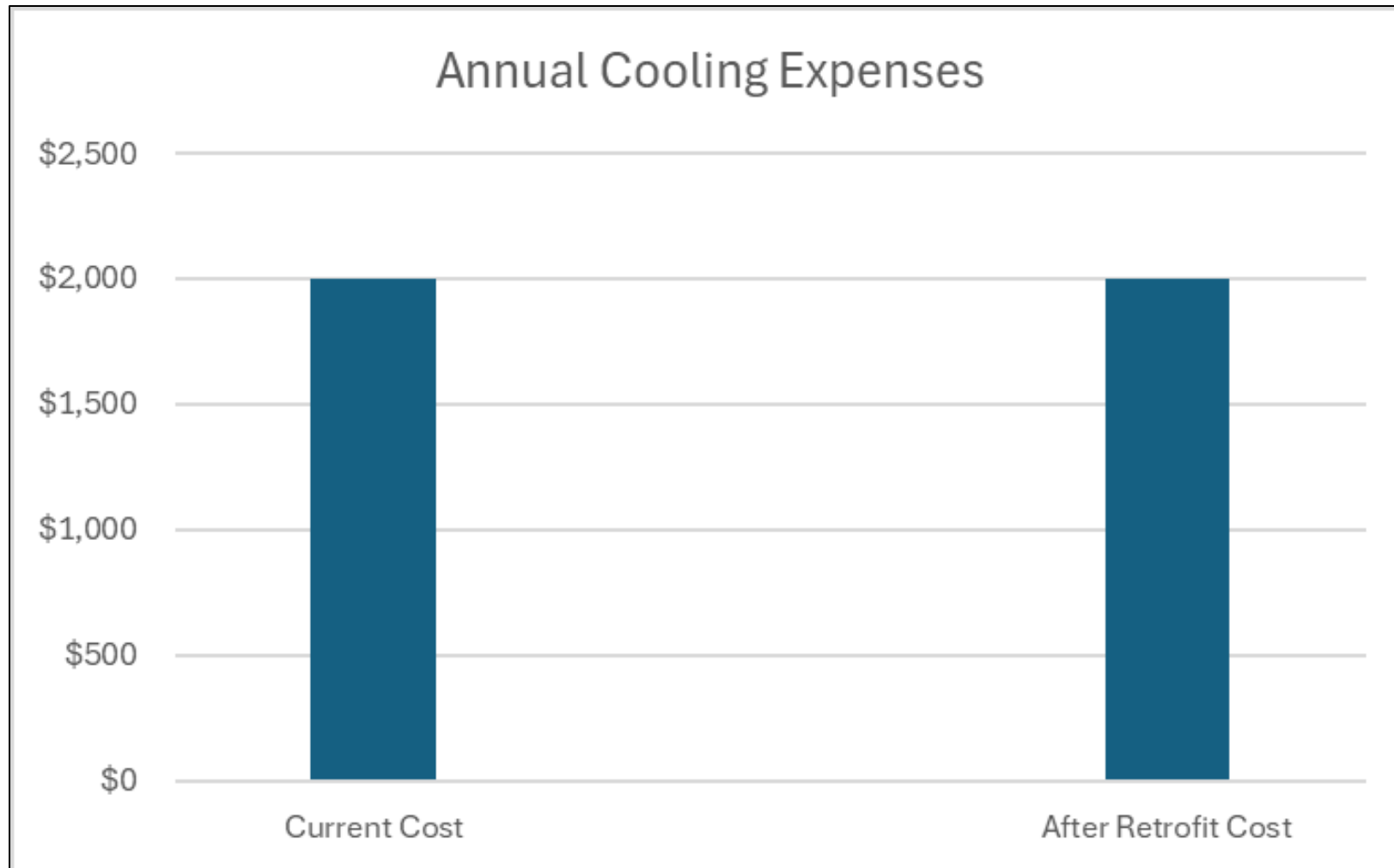
III. Cost Analysis



III. Cost Analysis



III. Cost Analysis



IV. Conclusion

Example Conclusion from Report

4. Conclusion

In this preliminary examination RAN-RM has determined that this property can save \$1,587 on annual utility bills. To achieve these savings the following retrofit measures are recommended.

- Reduce Equipment Schedules
- Decrease Heating Setpoints

If all retrofits are implemented the facility can save 16.4 % on electricity consumption and 11.7% on fossil fuel consumption. With these two values the total energy reduction can be calculated as 12.8%. Given this value, RAN-RM has decided not to conduct further analysis on this property in a level 1 energy audit. We thank you for your submission and wish you luck in your future energy related endeavors.

IV. Conclusion

Conclusion

In this preliminary examination RAN-RM has determined that this property can save \$1,587 on annual utility bills. To achieve these savings the following retrofit measures are recommended.

- Reduce Equipment Use (Better Controls and Scheduling)
- Decrease Heating Setpoints (Programmable Thermostats)
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Recommended Retrofits

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Potential Energy Savings %



Questions?