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How to Help Your Community Reduce Energy



Help Your Community Develop a Roadmap...

Inventory

Prioritization

Audits

Projects

Verification



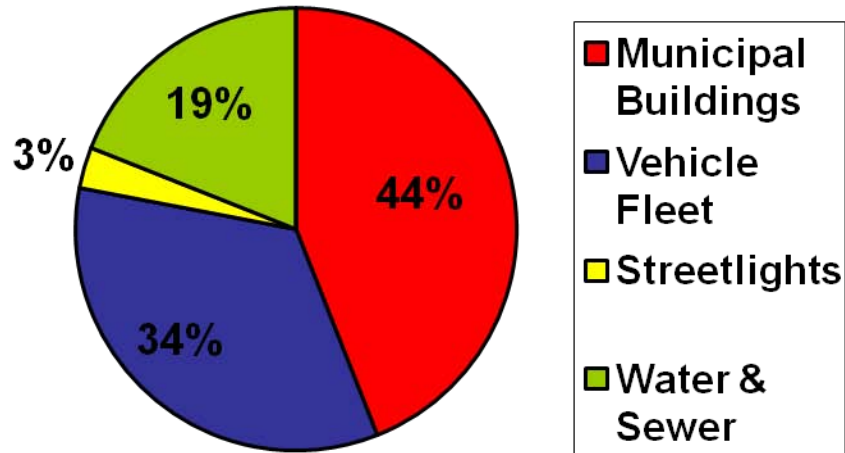
Starting with an Inventory and Benchmarking: How you can assist

- Initial PowerPoint to Board of Selectman
- Email or Memo out to any employees
- Permission for utilities
- Begin Data Collection: Use forms on what and how
- Plug into Software
- Report
- Final Presentation

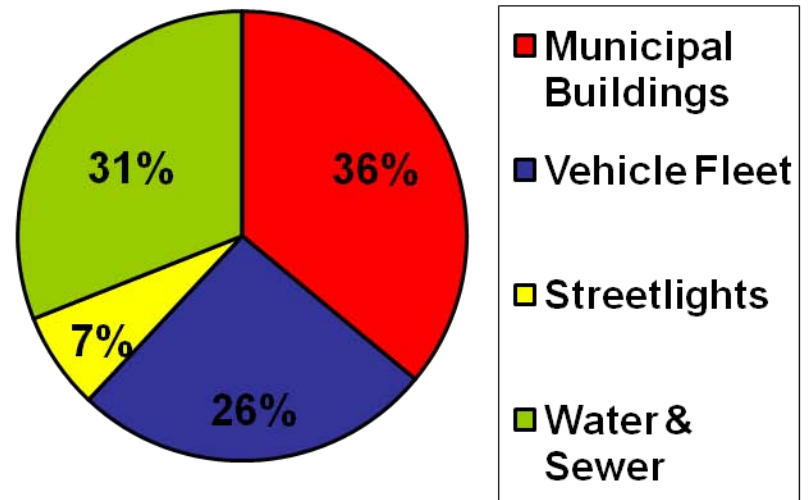


TOWN Municipal Sectors

Energy Use (MMBtu)

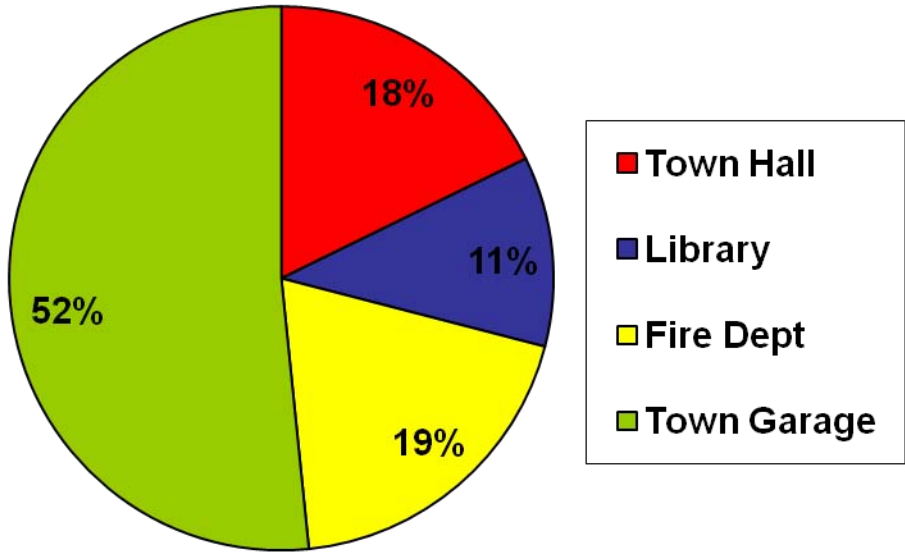


Energy Cost (\$)

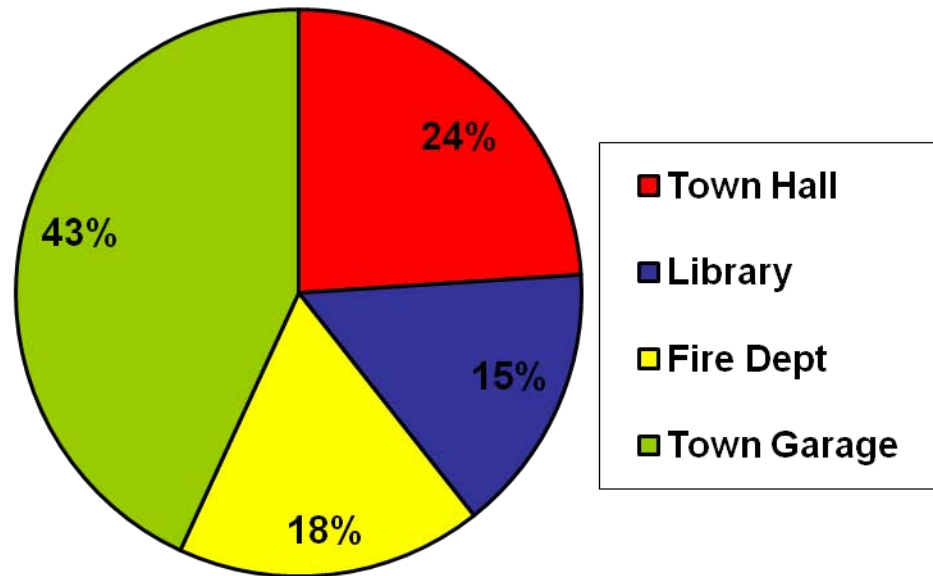


TOWN Municipal Buildings

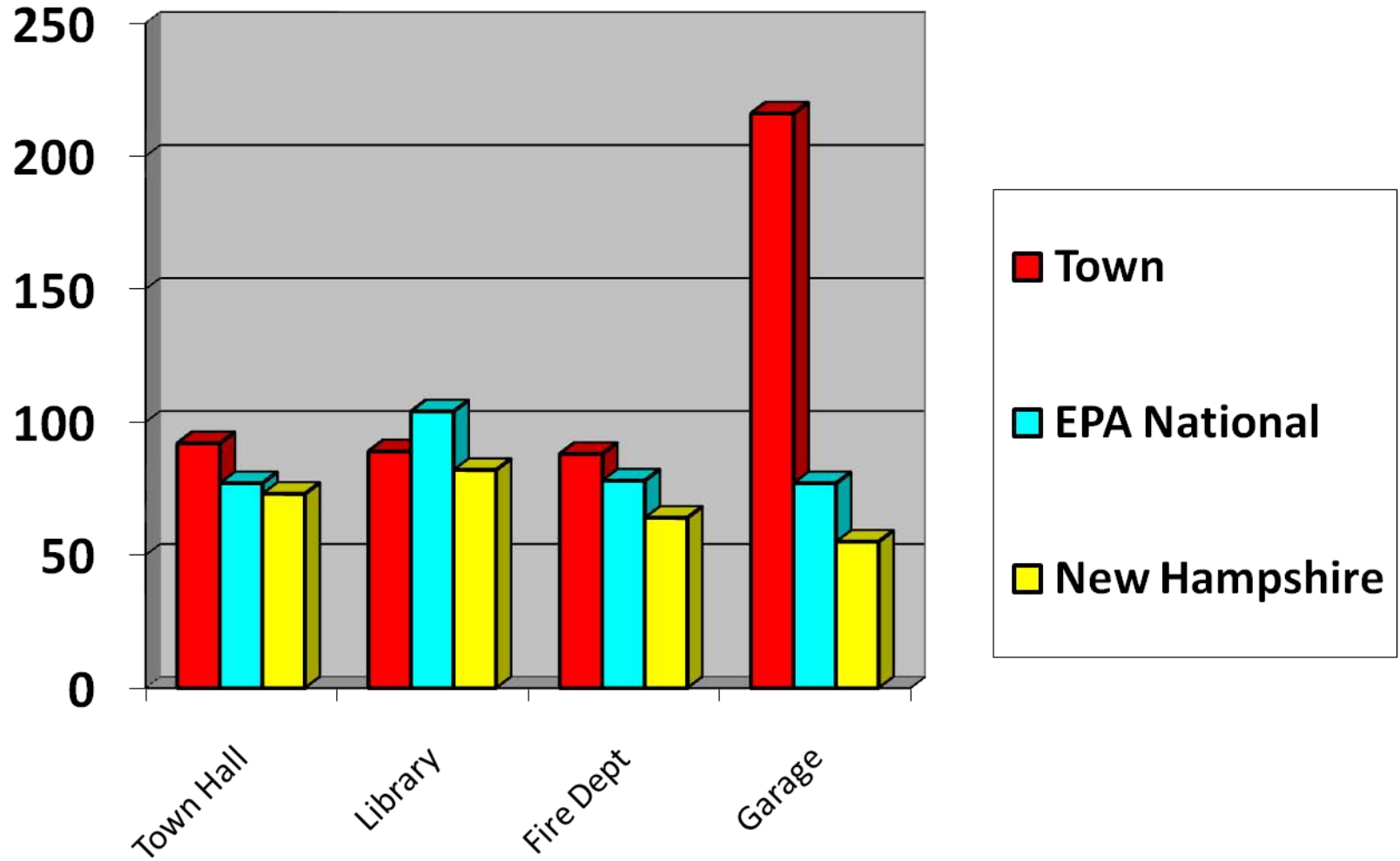
Energy Use (MMBtu)



Energy Cost (\$)



TOWN Building Energy Intensity



Sample Next Steps in Report

- Behavioral Change Program at Library and Recycling Station
- Weatherization and Insulation of Library
- Consider LED streetlights. The cost of electricity for streetlights was 16%
- Reduce Fuel Consumption for Vehicle Fleet by analyzing routes and usage



The Building Audit Process: How you can assist

- Help find an auditor
- Help on how to fund auditor
- Walk Through of Building with an Auditor
- Identify target building based on walk-through and inventory
- Presentation to Select Board

NEXT: What other audits are important for the community?

A Sustainable Energy Future

- Sustainability in the broader context
- Community health and well-being
- Energy efficiency and conservation = greenhouse gas reductions and cost savings
- Implement “Smart Growth” and “Low Impact Development”



Case Study: Town of Temple

- Temple – population 1,600 approx.
- Plans and regulations involved in regulatory audit

“Energy and climate change issues must now be considered as factors limiting development, in a manner similar to other natural resource constraints. This audit process will identify the inconsistencies, from an energy perspective, between the Master Plan and the Zoning Ordinance, and the Site Plan and Subdivision Regulations.”

Case Study: Town of Temple

The major findings:

Land Use Patterns – Nodes of mixed use development (residential, commercial, and civic uses) surrounded by lower density clusters of residential development and natural resources would allow for reduced travel requirements.

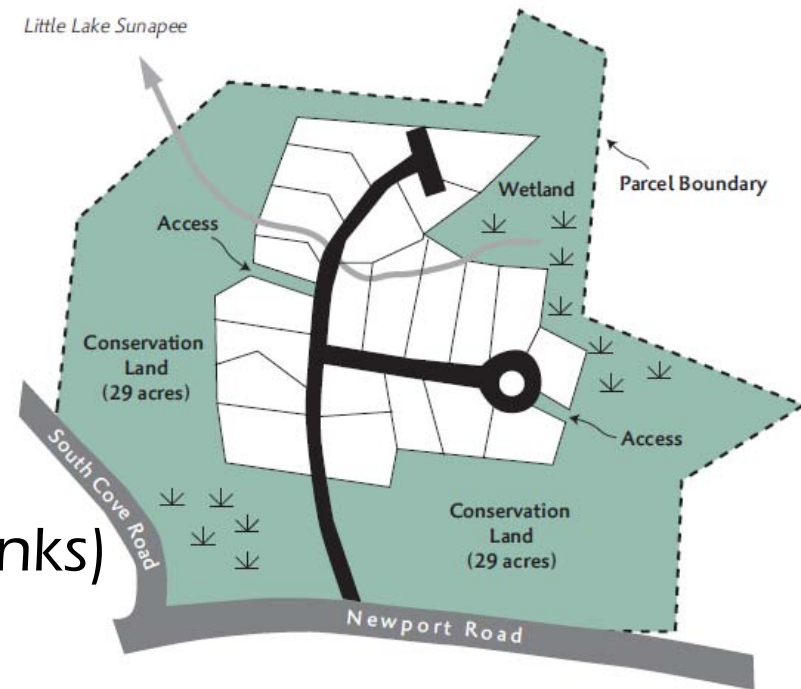
-Mix of Uses – A greater mix of uses at key locations (like the Village) would allow for a reduction in vehicles trips, and would encourage walking and biking. It would also create a greater density of activity that might warrant a transit stop (or a simple park and ride) in the future.

-Diversity of Residential Units – If a more diverse range of unit types were allowed in the community, there would be an opportunity to use developed parcels more efficiently, and provides housing options for a wider range of residents.

-Transportation Infrastructure – There is a need to consider the direct relationship between the land use pattern in Temple, and the travel and transportation needs of the community. Nodes of greater density (think village crossroads) would provide for some transportation alternatives.

Master Plan, Ordinances and Regulations

- Master Plan – adopt an *Energy Chapter* (enables action and planning)
- Revise existing ordinances and regulations to incorporate *energy efficiency and conservation*
 - conservation subdivision
 - lighting and parking standards
 - access management
 - site design requirements
 - building standards
 - transportation planning
 - open space planning (carbon sinks)
- Adopt *incentives* for voluntary implementation



Strong Collaboration and Public Support

Action Items at the Local Level

- “Municipal Operations” as the model of energy efficiency
- Participation on LECs by elected officials, land use boards and commission members
- Develop a Road Map of goals and action items (timeframe, funding, assigned lead)
- Annual workshop to review accomplishments, new/revised action items, report to the Town



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