

Weaving Energy Efficiency Into the Municipal Fabric - Burlington's Approach

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Weaving it in. . .

- Energy Efficiency as municipal policy / history & results
- Community benefits of EE
- The Fit with Resource Planning
- Furthering integration with community environmental values

Program History. . .

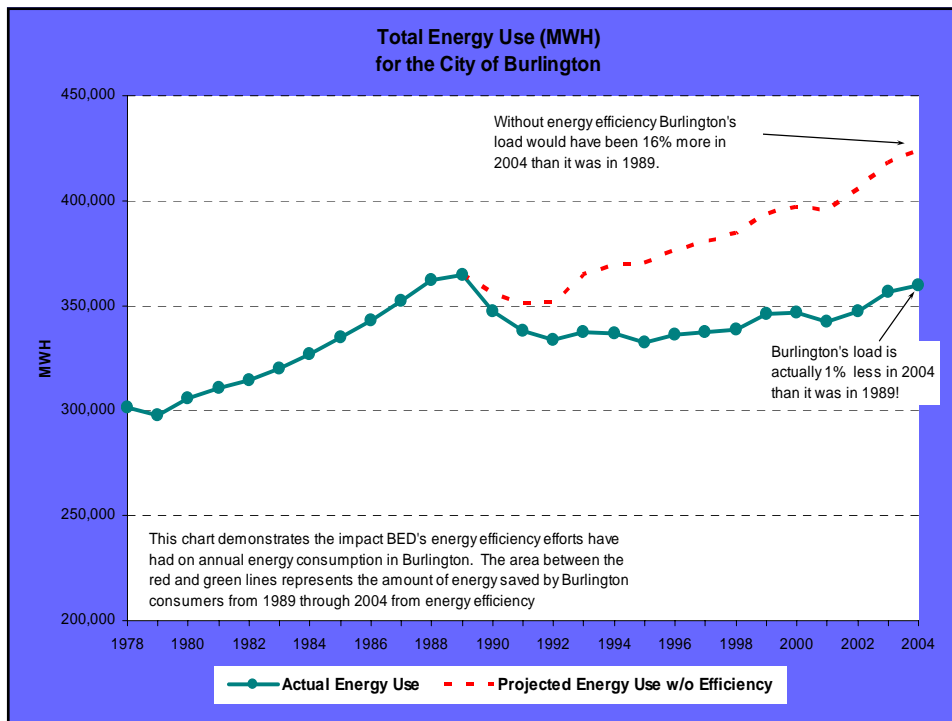
- Early conservation focus
- '90 \$11.3M Muni Bond Vote
- Early program successes
- "Restructuring" phase
- Statewide EEU (Efficiency Vt)
- Establishment of EEC

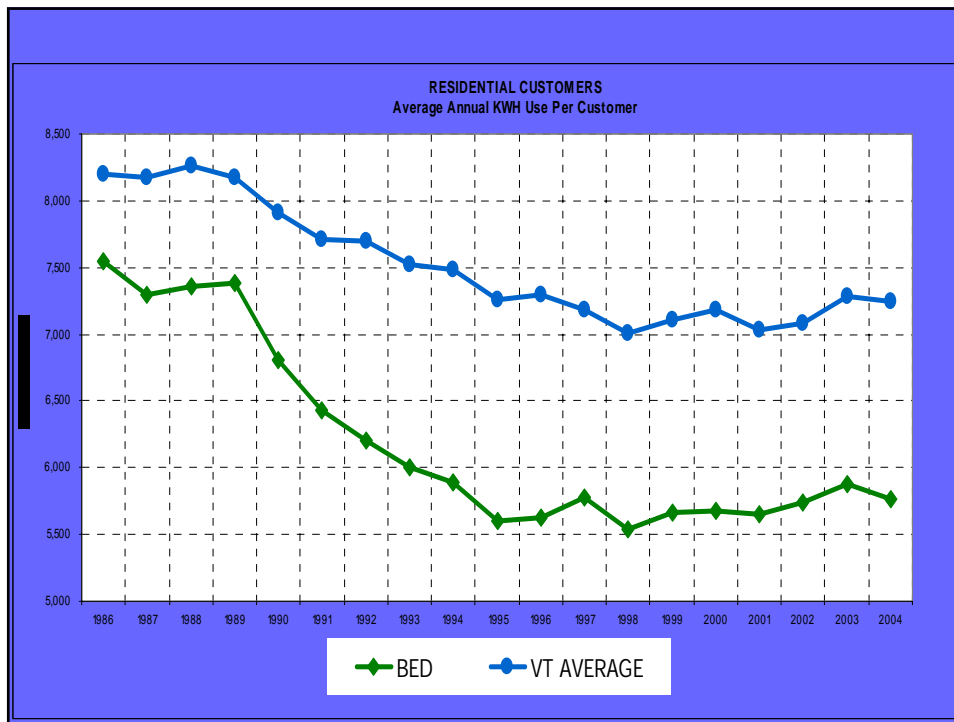
Program Features. . .

- Integration into City's development process
- Efficiency Ordinances:
 - Time of Sale, Efficiency Baselines
- Integration into utility CS
- Population-wide focus
- Comprehensive "positive cash flow" approach

Program Results Highlights

- \$13 million has been invested by BED, Customers, another \$13 million
- Close to 1 million lifetime megawatt hours
- 11 winter, 6 summer coincident peak MW
- In 2004, Burlington as a whole used the same amount of electricity it used in 1989





Community Benefits of Energy Efficiency Programs: Pro-environment, Pro-economy

- Efficiency projects in place will avoid the release close to 900,000 tons of CO₂ and related pollutants
- Participating customers have reduced their retail electric costs by \$6.7 million
- Efficiency project dollars are kept in the community and recycled, strengthening the local economy

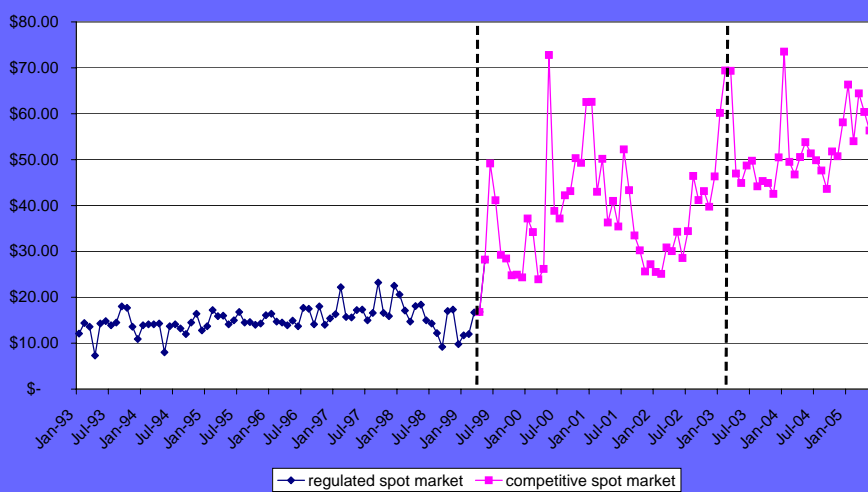
But has it broken the bank?

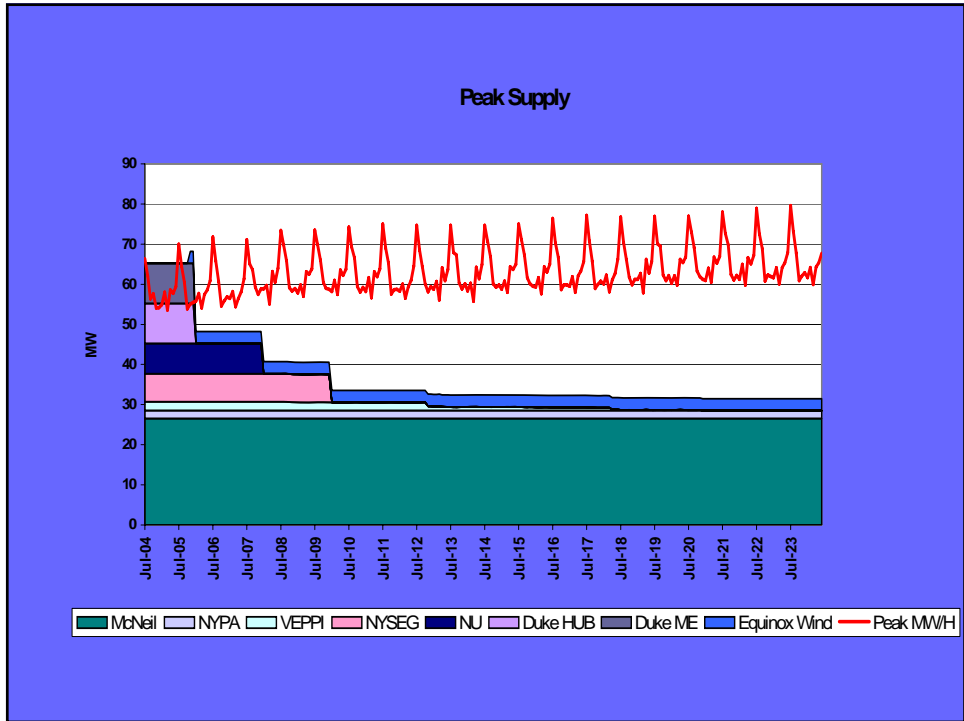
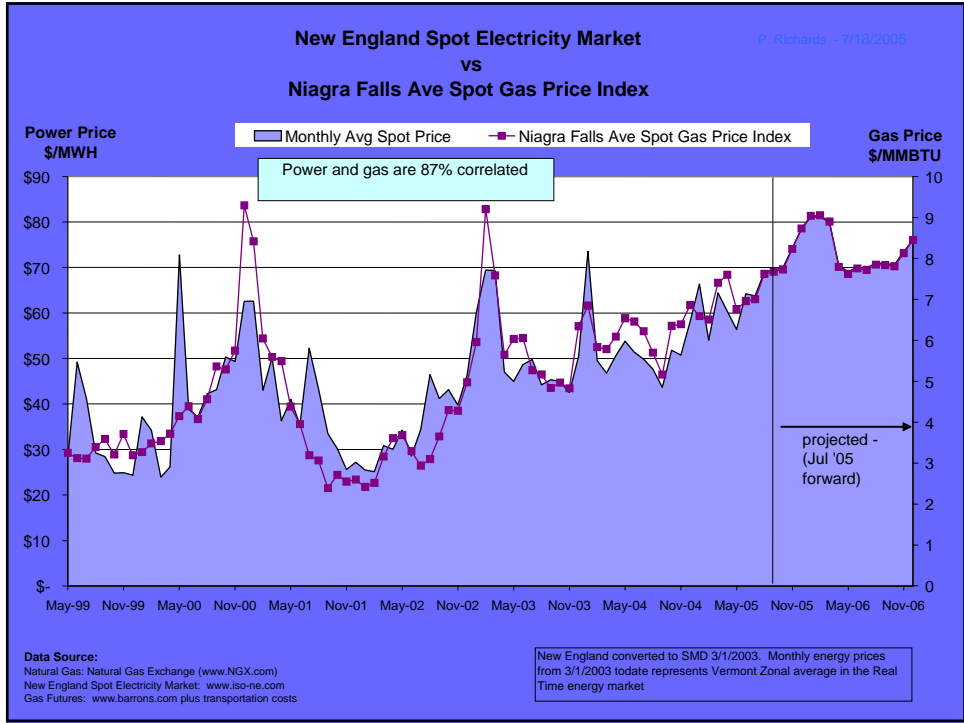
Overall total measure cost since 1991, including utility and customer \$\$'s:

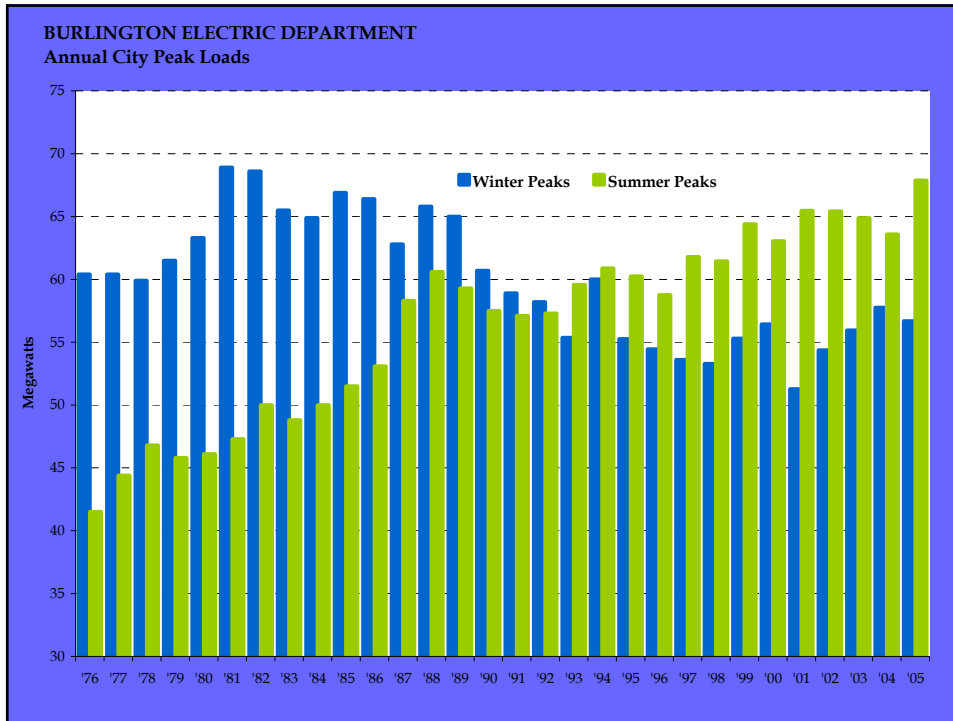
\$27 / lifetime mwh

(\$24 in 2004)

Monthly Average
New England Wholesale Price for Electricity
Jan '93 - Jun '05







Future Directions

- Clear economic opportunity for EE
- Focus on summer savings
- Increase load response efforts
- Continue to monitor/raise baseline standards (codes)
- Continue community integration activities

Burlington's Climate Action Plan...

- Plan adopted by City Council in 2000
- Five broad strategies to reduce GHG emissions by 156,000 tons annually
- Plan highlights need to raise public awareness, to educate, and to motivate people
- Energy efficiency a cornerstone

Energy Efficiency is a cornerstone of a broader sustainability strategy

Burlington's Legacy Plan

- **The Strategy** build a culture of sustainability within the community
- **The Challenge** broaden citizen understanding of the need to revitalize the city center and its environs
- **The Action** develop a long-term community vision, based on sustainability principles
- **The Process** Involve more than 1,000 citizens in 18-month dialogue about the city in the Year 2030
- **The Result** Legacy Project Action Plan and annual meetings and report cards to monitor progress

Resources and Contacts

- Burlington Electric Dept.
(IRP & EE annual report)
www.burlingtonelectric.com
- City of Burlington
www.ci.burlington.vt.us
- Burlington Legacy Project
www.cedo.ci.burlington.vt.us/legacy
- Ten Percent Challenge Program
www.10percentchallenge.org