



NEW YORK STATE



Sallan Foundation Energy Codes Forum
September 22, 2008

New York Energy Efficiency Policies

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New York Energy Use

- \$81 billion annualized energy expenditure by New Yorkers
 - The two largest sectors are transportation (about 45%) and residential (about 27%).
 - \$47 billion of the \$81 billion (58 percent) will be spent on petroleum products.
 - \$44 billion (55 percent of total New York State energy expenditures flow out-of-state; and with the outflow of dollars more jobs are exported out-of-state.



New York Electricity Needs

- Over the last 15 years, New York's total electricity sales (all customers) rose by 16%.
 - The fastest growing sector for electricity use was the commercial sector (38%); followed by residential sector (27%); and transportation sector (16%). Sales in the industrial sector fell 37%.
 - The greatest need for new capacity is in NYC due to transmission constraints and growing population.



Energy Efficiency Drivers

- Energy
 - Least cost energy service; energy diversity; energy security
- Economic development
 - New business opportunities and jobs; “clean-tech” industry growth
- Environmental benefits
 - Climate change; pollutant emission reductions; land and water use

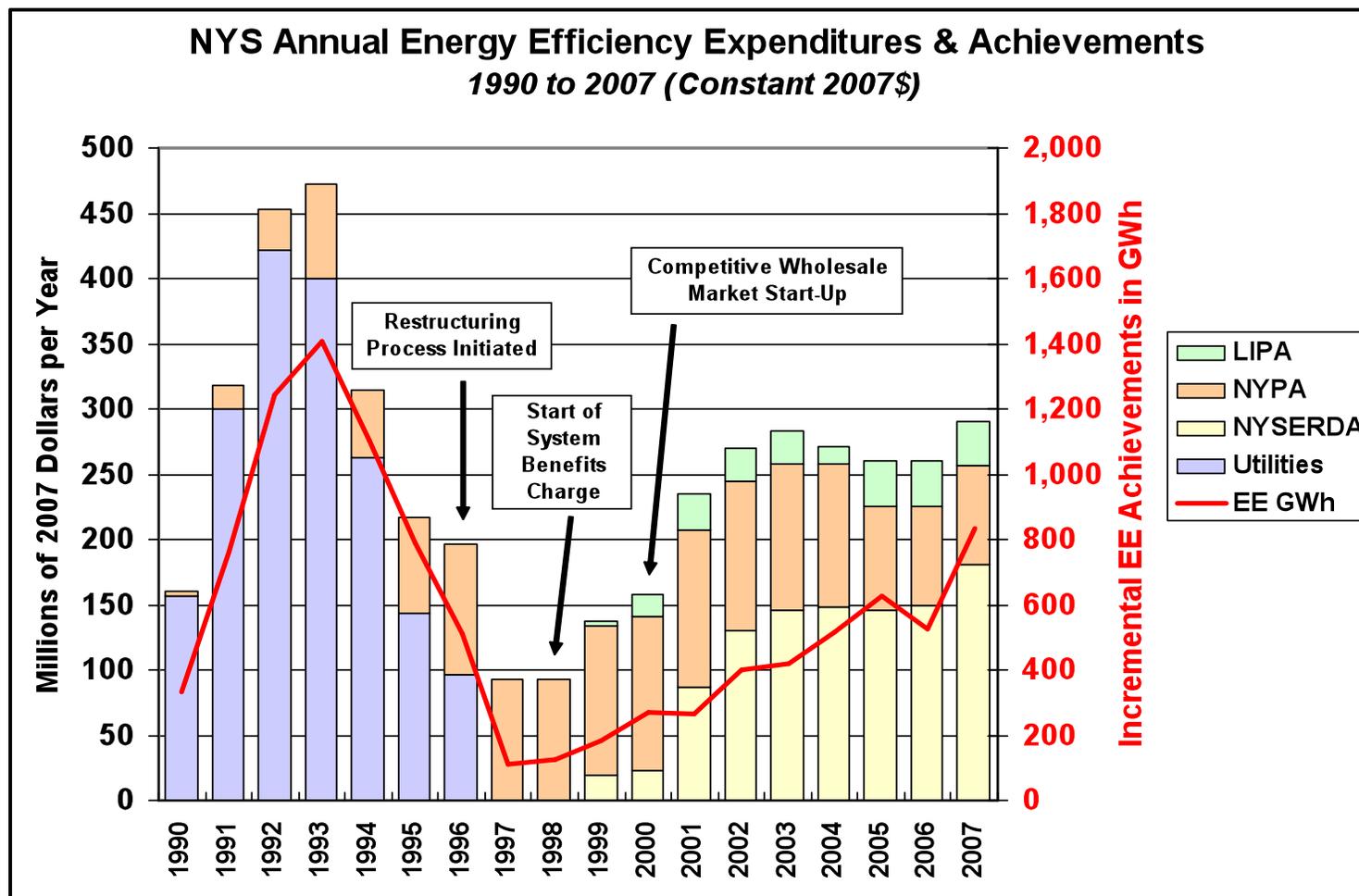


Role of Government

- Government regulations ensure minimum level of efficiency in buildings and appliances;
- Government-ordered or administered programs provide incentives to homeowners, businesses, industries, and institutions to improve energy efficiency beyond the minimum code, and invest in energy R&D.
- Demonstrate real commitment by focusing attention on its own buildings and facilities for improving energy efficiency, demonstrating the use of renewable energy technologies, and use of new innovative design and construction practices and materials use.

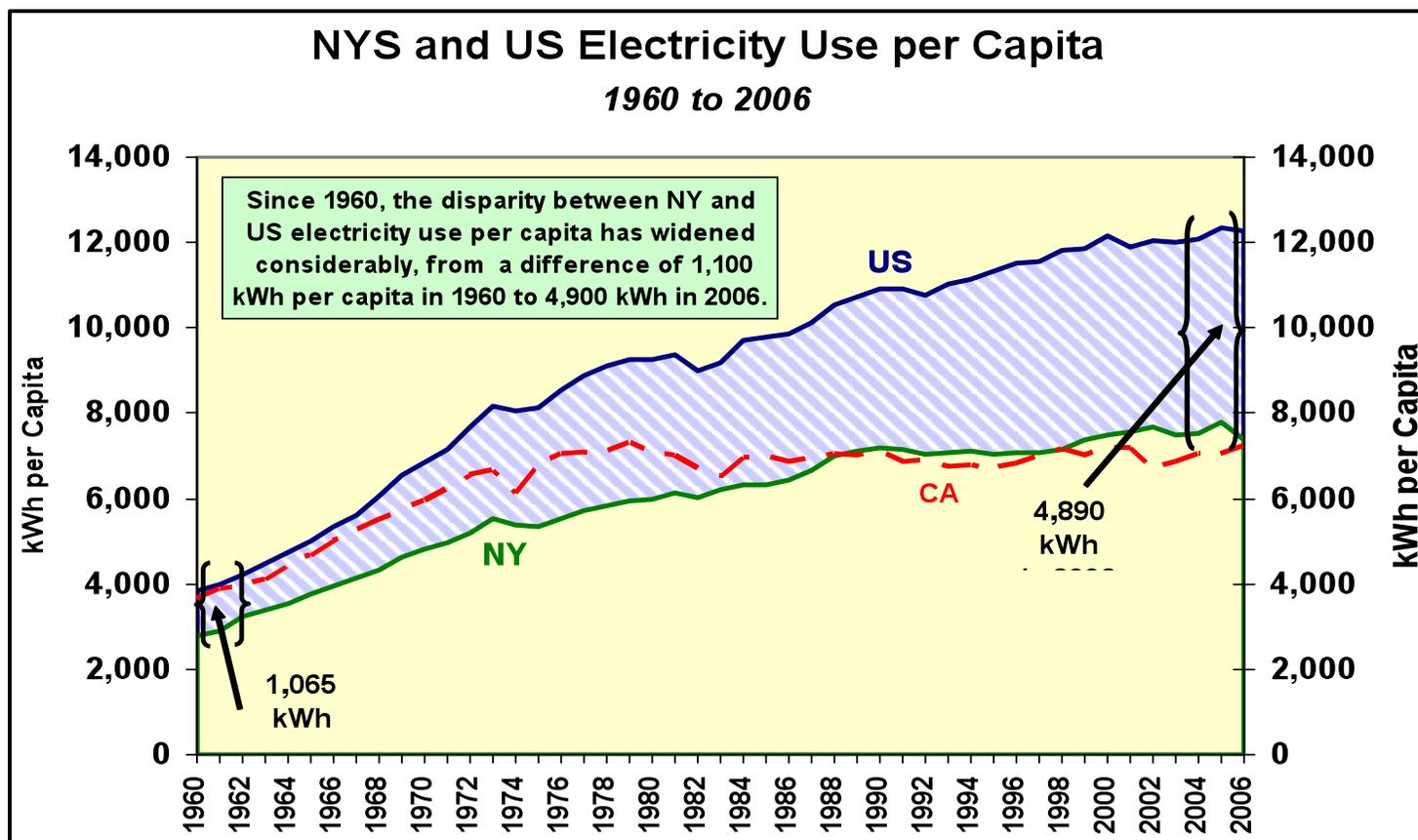


EE Spending & Achievements





Electricity Use Comparison





Policy Framework

- Clean Energy Portfolio Standard
 - 40% clean energy goal
 - 15% energy efficiency by 2015 (15 by 15)
 - 25% renewable energy by 2013 (RPS)
 - Required a significant increase in efficiency program funding to meet goals
 - All agencies ramping up programs



Planned EE Expenditure

| <u>Program</u> | <u>Total Efficiency Funding (Annual)</u> |
|-------------------------------------|--|
| NYSERDA – SBC (2006 through 2011) | \$175,000,000 |
| EEPS (2009 through 2011) | \$172,000,000 |
| NYPA (2008 through 2015) | \$185,000,000 |
| LIPA (2009 through 2019) | \$100,000,000 |
| DHCR (approx. annual federal funds) | <u>\$64,000,000</u> |
| <i>Total Funding Level</i> | <i>\$696,000,000</i> |



Energy Conservation Construction Code

- Department of State responsible for regularly updating ECCC based on model codes.
- On January 1, 2008, the Codes Division completed process to update the ECCC, incorporating the provisions of the *International Energy Conservation Code* (IECC) into our statewide regulations.
- *The 2003 IECC Commercial, and 2004 IECC Residential Codes are now in effect.*



Updating the Code

- In April 2008, a separate rule-making was completed, incorporating the 2004 edition of ASHRAE 90.1 as a referenced standard of our Energy Code.
- By incorporating the 2004 edition of ASHRAE 90.1, our Energy Code will improve energy efficiency in commercial buildings, particularly in the area of commercial lighting systems, a savings of 20%-50%.



NEW YORK STATE



Updating the Code – Part 2

- The New York State Energy Technical Subcommittee has completed an expedited session review process for the 2009 ECCC, which will incorporate the 2006 IECC .
- Scheduled to be complete in the 2nd quarter of 2009, effectively bringing New York State in line with the ICC code adoption process.



Code Limitations

- Does not apply to renovations unless more than 50% of building systems are affected by renovation.
- Historic *properties*, not just *buildings*, are exempt from code.
- Difficult to measure success.
- State adopts the code, municipalities enforce it.



Code Enforcement

- Best code in the world is meaningless without compliance.
- State offers training and enforcement assistance.
 - *3rd party training reached 1500 students; direct outreach reached 600 students across state in 2008.*
 - *Developing “Inspector’s Guides” and web-based training materials.*
- Ultimately up to local governments to actually enforce the code.



NEW YORK STATE



Discussion