



NYC ENERGY POLICY TASK FORCE

2006 Status Report

New York City Bar Association Energy Committee

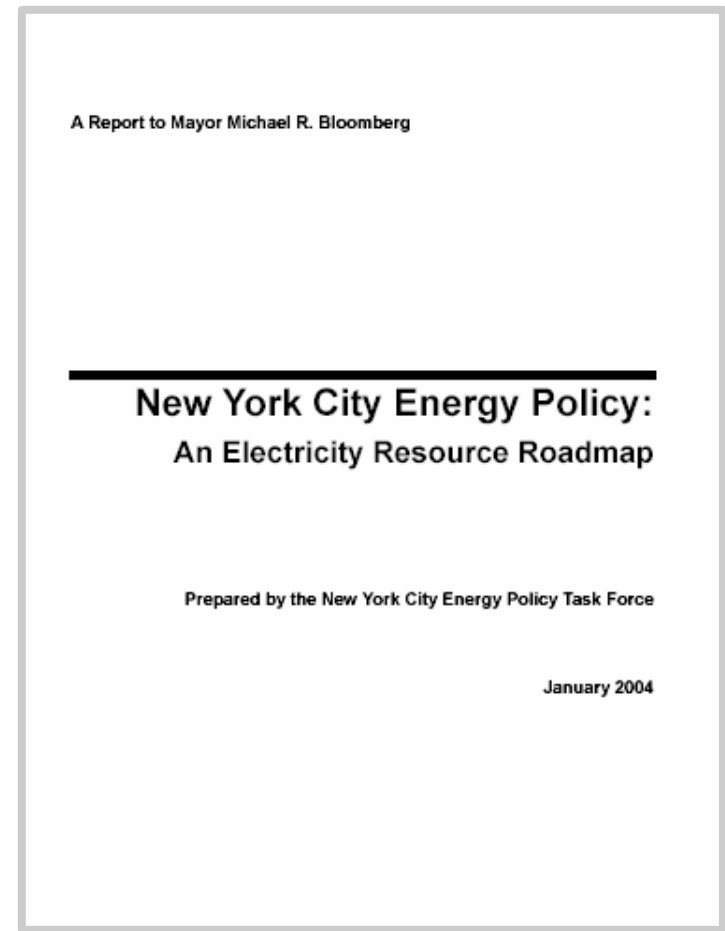
September 12, 2006



EPTF Background: 2004 Task Force Report

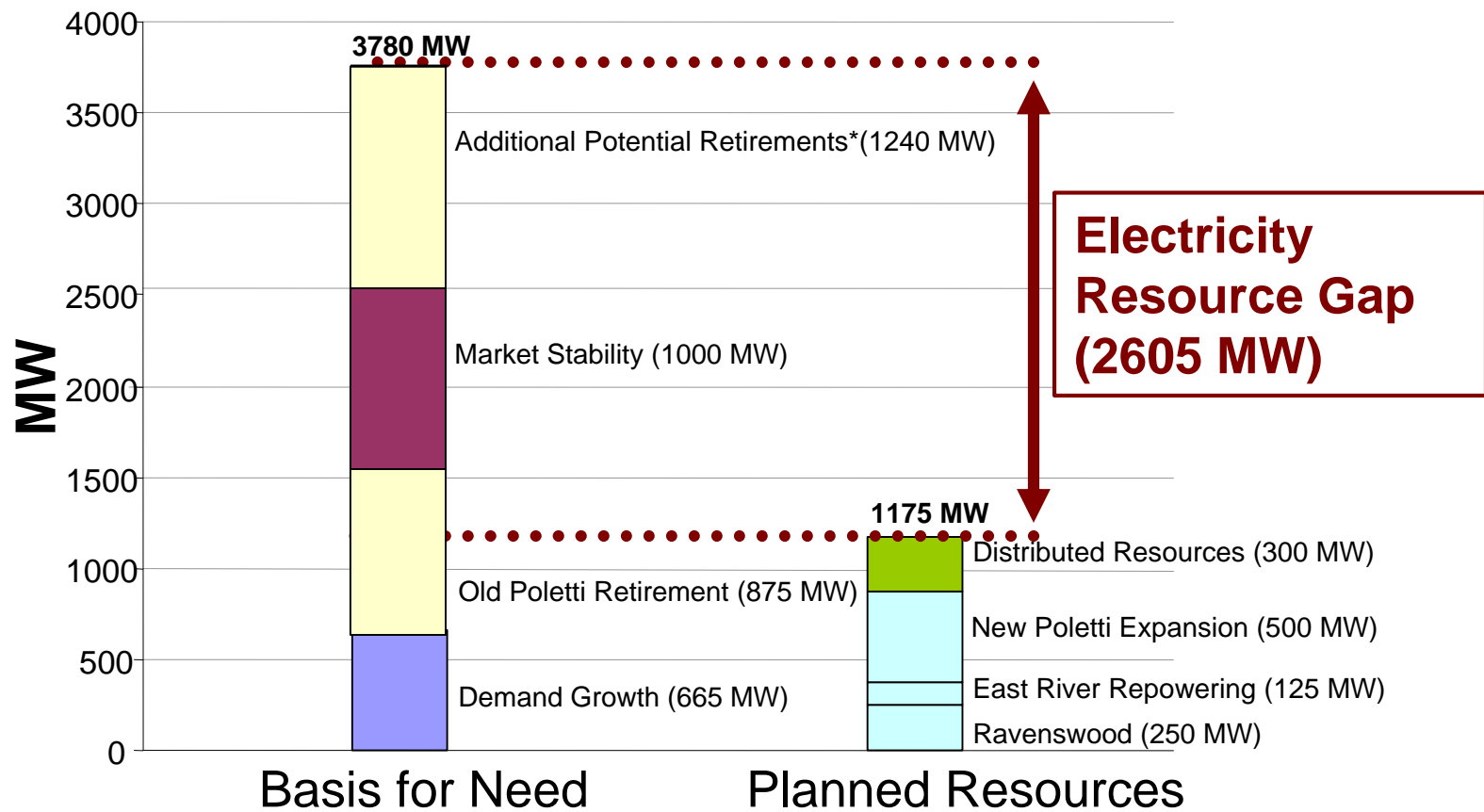
Recommendations in Four Areas

- Energy Supply
- Energy Delivery
- Distributed Resources (DR)
 - Energy efficiency
 - Clean onsite generation
 - Peak load management
- NYC/Leading by Example
 - Energy efficiency
 - Clean onsite generation
 - High-performance building design
 - Peak load management



EPTF Background: 2004 Report Findings

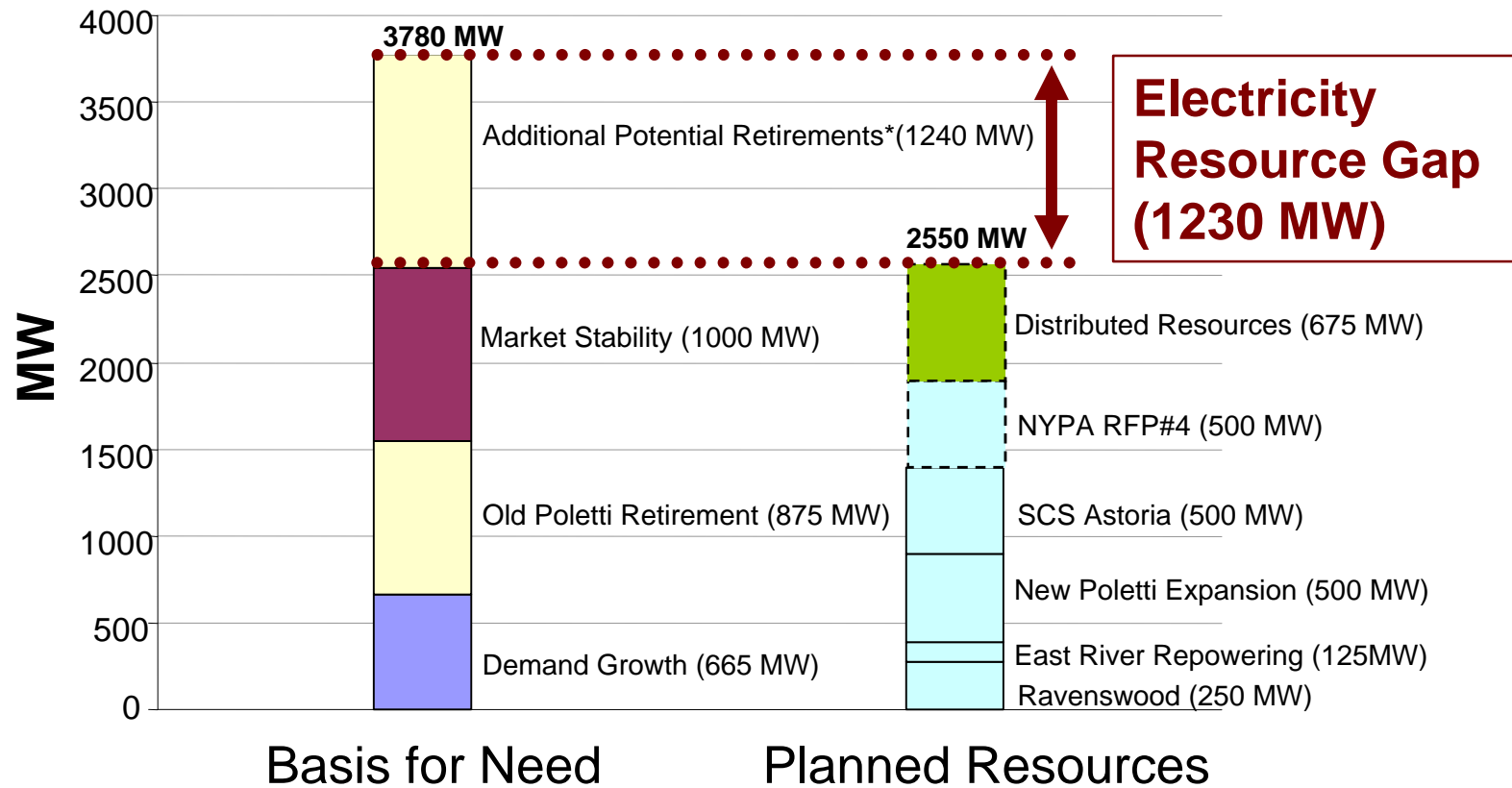
Electricity Resource Needs 2004-2008



* Assumes that 1/3 of the total capacity of plants over 45 years old will be retired in the next 5 years.

Current Status of Resources

Electricity Resource Needs 2006-2008



* Assumes that 1/3 of the total capacity of plants over 45 years old will be retired in the next 5 years.

Key Activities and Accomplishments

Supply – New Resources

Generation Project	In Service Date	Capacity (MW)
SCS Astoria	May-06	500
New NYPA Poletti	Dec-05	500
East River Repowering Project (ERRP)	Apr-05	125 (net)

Transmission Project	In Service Date	Transfer Capability (MW)
M29 Line / Sprain Brook - Sherman Creek	Spring 2009	345

Distributed Resources - Peak Load Reduction / Efficiency	In Service Date	Capacity (MW)
New Con Edison Initiative	2005-2010	675

Key Activities and Accomplishments Cont.

Distributed Resources

New Con Edison DSM/DG Initiative:

- Created by Public Service Commission (PSC) in Con Edison electric rate order (case # 04-E-0572), March 2005
- Introduced programs in April 2006
- Over \$224M in new funding to achieve up to **675 MW** in peak demand reduction
- Three-Year Program
- Two categories:
 - System-Wide (150 MW)
 - Targeted (150 MW)
 - SBC III (~375 MW)



Key Activities and Accomplishments Cont.

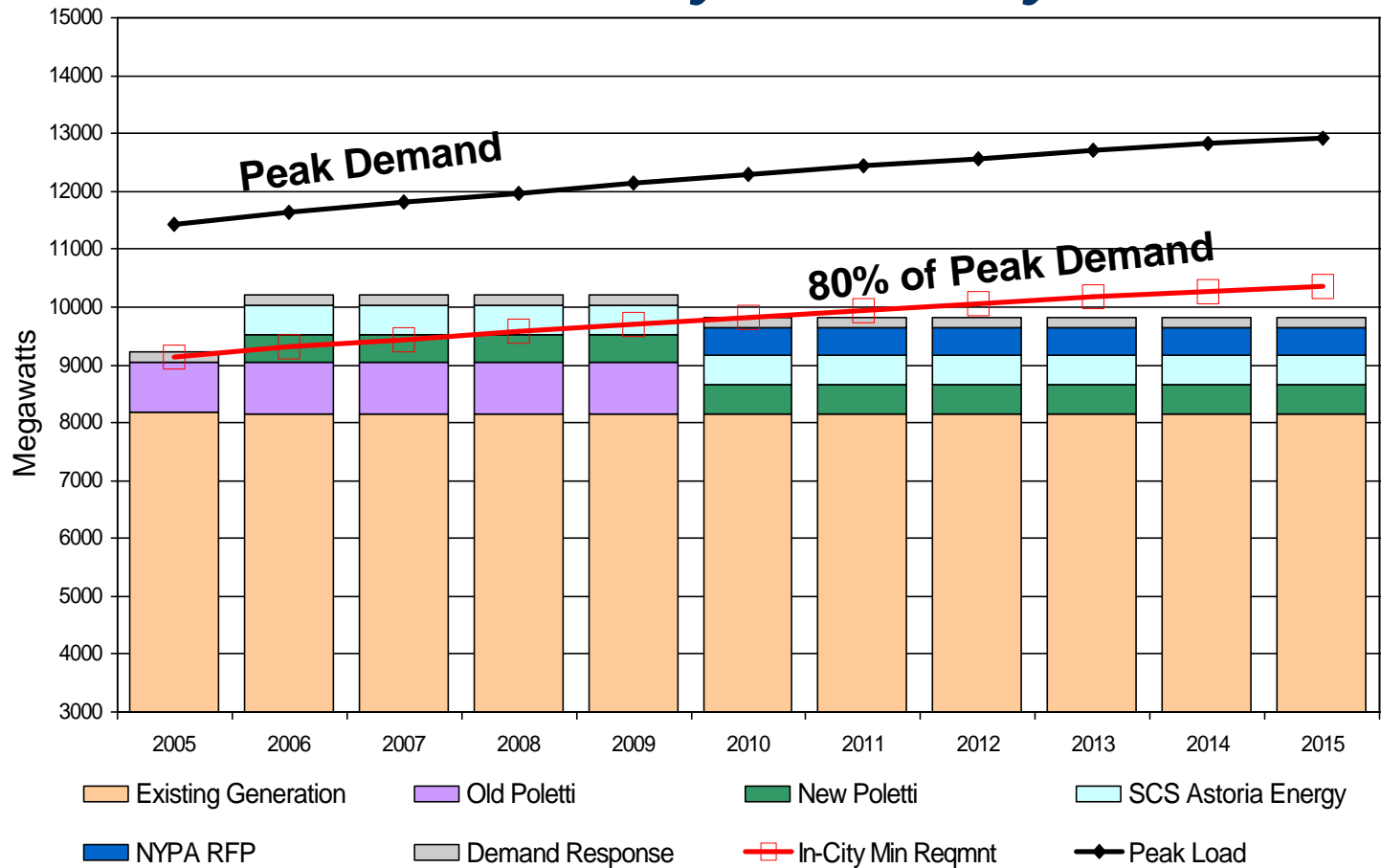
Supply – Planning

System Reliability Assurance Study (SRAS):

- Completed by Con Edison in December 2005
- Study findings:
 - Reliability need date - **2012**
 - If new demand-side initiatives are successful, reliability need date - **2014**
 - Distributed Resources and new transmission capacity appear to be cost-effective resources to meet future needs

Projected Status of Resources

Electricity Reliability Needs 2005-2015



Source: Based on NYISO RNA and Con Edison SRAS

Key Activities and Accomplishments Cont.

Energy Delivery Infrastructure

Energy Infrastructure Master Plans:

- Created in Con Edison Steam Rate Case (03-S-1672)
 - Set baseline demand
 - Examine the major service options (electric, gas, steam)
 - Identify major cost and considerations for each option
- Two Distributed Resources cost savings scenarios:
 - 10 percent peak load reduction
 - 40 percent peak load reduction

Key Activities and Accomplishments Cont.

Energy Delivery Infrastructure

Energy Infrastructure Master Plan Phases:

	PHASE I	PHASE II
Neighborhood	<ul style="list-style-type: none">• Hudson Yards• Lower Manhattan	<ul style="list-style-type: none">• Greenpoint/Williamsburg• Downtown Brooklyn
Status	Completed	In Progress

Key Activities and Accomplishments Cont.

Energy Delivery Infrastructure

PHASE I FINDINGS:

Distributed Resources could defer infrastructure needs from 2-4 years

Hudson Yards

- Upgrades at Murray Hill Substation (2010)
- 1 West Side switching station (2012)
- 2 West Side area substations and distribution systems (2013, 2021)
- Main extensions: 8,800 ft. (2025)
- 1 regulator upgrade (2010)
- 1 new regulating station (2025)

Lower Manhattan

- 5th transformer at WTC Substation (2015)
- Main extensions: 4,600 ft (2015)



Key Activities and Accomplishments Cont.

Leading by Example



Wind Power Purchase:

- 20 MW of wind energy beginning in 2008 for NYC & NYCHA
- NYPA purchased energy on behalf of SENY governmental customers
- Contracts are with Horizon Wind Energy LLC
- The City's commitment, through NYPA, allowed for the development of Phase II of Horizon's Maple Ridge Wind Farm.

Key Activities and Accomplishments Cont.

Leading by Example

Green Building Law (Local Law 86 of 2005):

- Signed by Mayor in October 2005
- Requires new City buildings, over \$2M, to be built according to the USGBC's LEED standard with additional energy and water efficiency requirements
- Rules also apply to private development receiving over \$10M of capital funding (or over 50% of project costs) from the City
- Implementation guidelines under development

Key Activities and Accomplishments Cont.

Leading by Example

Green Building (Economic Development):

- EDC & HPD include green language in RFPs for private development
- To date, EDC is involved with green development proposals that could total nearly 8 million square feet and over \$2.5 billion
- Projects include the redevelopment of the Bronx Terminal Market, the HUB, East River Science Park, Flushing Muni-Lot 1, and the Lower East Side Girls Club

EPTF Status Report - 2006

Highlights:

- Significant progress in all 4 areas
- Significant new and planned resources
 - New reliability need date of 2012-2014
- Major new Distributed Resource initiative to achieve up to 675 MW in reduced demand over 3 years
- Creation of new comprehensive energy infrastructure planning process
- Multiple City-led renewable energy and green building activities