BuildSmart NY

Five Cities Energy Master Plans
Albany - Buffalo - Rochester - Syracuse - Yonkers

Energy Master Planning Kick-Off
October 30, 2013
AGENDA

**Morning program**
- 9:00  Introductions
- 9:10  Welcome and program overview
- 9:25  Getting started
- 10:00 Break
- 10:15 Lessons from Arlington County and other exemplar plans
- 10:45 Relevant State and regional initiatives
- 11:30 City Presentations (Yonkers, Syracuse, Rochester)

**Afternoon program**
- 1:00  Lunch
- 2:00  City Presentations (Buffalo, Albany)
- 3:00  Closing panel discussion
- 4:00  Next steps

BuildSmartNY  Five Cities Energy Master Plans
Albany • Buffalo • Rochester • Syracuse • Yonkers
Jill Anderson
Chief of Staff & Director of Energy Policy
New York Power Authority
GOALS OF FIVE CITIES ENERGY MASTER PLANS

- Reduce energy consumption
- Strengthen reliability of cities’ energy infrastructure
- Create jobs in clean energy industries
- Contribute to a cleaner environment
THESE WILL BE PLANS OF ACTION

Aspirational
Ambitious
Achievable
Accessible
Accountable
Adaptable
IT’S NOT JUST A PLAN...

IT’S A PROCESS!

Milestone 1
Conduct Assessment

Milestone 2
Establish Goals

Milestone 3
Develop Plan

Milestone 4
Implement Policies and Measures

Milestone 5
Evaluate Progress & Report Results

Engage Stakeholders

Five Cities Energy Master Planning Process

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Five Cities Energy Master Plans
Albany • Buffalo • Rochester • Syracuse • Yonkers
KEY PLAN COMPONENTS

Energy Master Plan

- Clear goals and targets
- Detailed initiatives to achieve goals
- Strategies for on-going implementation and planning
ROLES & RESPONSIBILITIES

Cities’ role

- Designate staff to participate in the planning process
- Set goals and targets; evaluate solutions
- Take ownership of the plans and the implementation
- Track and report on progress
- Update plans, as needed
- Build relationships with the other cities

NYPAs on-going role

- Facilitate information sharing and collaboration across the cities
- Pursue strategic initiatives that cut across all five cities
- Finance energy efficiency upgrades and clean energy solutions, where applicable
OTHER STATE ENERGY PRIORITIES

- NY Energy Highway
- NY Green Bank
- The NY-Sun Initiative
GETTING STARTED

- Setting the context
- Basic information
- Glossary of terms
- Plan outline
- Timeline overview
- Stakeholder engagement
- Data analysis
- Technical Working Group
Katherine Rougeux
Office of Strategic Planning
New York Power Authority
Did you know that...

- **Buffalo** deployed the first electric street lights in the United States, leading to its nickname “City of Light”

- **Albany** opened one of the first commercial airports in the world, and the first municipal airport in the United States

- **Rochester** was America’s first Boomtown, with its population doubling in under 10 years

- **Syracuse** was one of the first in the United States to adopt electricity as a transportation motive power

- **Yonkers** was the home of first the elevator factory in the world
SETTING THE CONTEXT: FIVE CITIES, ONE EFFORT

Together, the five cities

...have a population of 908,000. If they were one city, it would be the 11th most populous city in the U.S.

...have an area of 158 square miles, the size of Denver, Colorado
BASIC INFORMATION

- **Audience:** General public
- **Plan voice:** From the cities
- **Implementers:** The cities
- **Design:** NYPA template for consistency and branding
  - Fonts and colors
  - Icons
  - Template for plan pages
  - Various template graphics
GLOSSARY OF TERMS

- **Goals**: high-level desired results, usually quantifiable (e.g., 30% reduction in GHG emissions)
- **Objectives**: something that specific efforts/actions are intended to accomplish (e.g., improve energy efficiency of buildings)
- **Targets**: a quantifiable detailed performance requirement (e.g., retrofit 10% of city-owned buildings by 2020)
- **Initiatives**: policy changes, establishment of offices, hiring of staff, development of new programs, release of campaigns, and other actions that support attainment of objectives
- **City**: the municipality, including executive levels, agencies, staff, and property
- **Stakeholders**: non-city individuals who have interest in the plan’s success and outcomes, including experts, academic, institutions or other entities representing interests of the cities.
- **Action Areas**: Energy Planning & Coordination, Energy Distribution and Supply, Energy Efficiency in Buildings, Transportation
- **Consultants**: Energy Master Plan Development Consultants to the five cities
PLAN OUTLINE

I. Letter from President of NYPA
II. Overview: Five Cities Energy Master Plans (& Cities)
III. Letter from the Mayor
IV. Introduction to City Energy Master Plan
V. Executive Summary
VI. Energy Planning & Coordination
VII. Energy Distribution and Supply
VIII. Energy Efficiency in Buildings
IX. Transportation
X. Moving Forward
XI. Five Cities Conclusion

For each Action Area:
- Goal(s)
- Existing conditions, challenges, and programs
- Initiatives to achieve goals
- Implementation matrix
TIMELINE OVERVIEW

Nov 2013 - Jan 2014
- Data collection
- Baseline analysis & key finding

Feb - Apr 2014
- Prelim Recommendations
- Plan outline
- Draft plan content

May - July 2014
- Draft plan with graphics
- Final plan

Stakeholder engagement

Technical Working Group

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STAKEHOLDER ENGAGEMENT

**Stakeholder Advisory Board:**
- Provide advice and ideas on potential content for the plan
- Help develop the goals
- Act as a critical sounding board for initiatives being considered for the plan
- Provide support in analyzing various strategies for achieving the goals
- Help get the word out on the plan and its goals to the greater community
- Support its on-going implementation, tracking, reporting, and updating
STAKEHOLDER ADVISORY BOARD MEMBERS

Potential Members:
- Elected officials
- Local utilities
- Academic and research institutions
- Major employers/businesses
- Business groups
- Real estate groups
- Environmental organizations
- Community groups

How to find them:
- Evaluate existing stakeholder groups
  - Cleaner, Greener Communities
  - Regional Economic Development Councils
- Consider additional relevant stakeholders
- Ensure diversity in perspectives and expertise
**STAKEHOLDER ENGAGEMENT**

- **Nov 2013 - Jan 2014**
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**Stakeholder engagement**

- **Meeting #1:**
  - Review existing programs and data
  - Discuss goals and initiative ideas
  - Identify challenges and solutions

- **Meeting #2:**
  - Review baseline analysis and findings
  - Revisit goals and initiatives

- **Meeting #3:**
  - Discuss promising initiatives: costs benefits, and chances for success

- **Meeting #4:**
  - Review contents of draft plan

- **Larger community presentation(s):**
  - Obtain public input on goals and plan

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_BuildSmartNY_
Steven Baumgartner
Energy Engineer, Associate Principal
Happold Consulting
### DATA COLLECTION

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Data collection</td>
<td>Baseline analysis &amp; key finding</td>
<td>Prelim Recommendations</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Plan outline</td>
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<tr>
<td></td>
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<td>Draft plan content</td>
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<td>Draft plan with graphics</td>
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<td></td>
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<td>Final plan</td>
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</table>

- **Draft Outline of Data Collection**
  - Data to collect “Day One”
  - Analysis of Data

- **Consistent:** general accounting protocols

- **Understand end-product:** from exemplar plans and plan aspirations
DATA COLLECTION BEST PRACTICES

- Existing data collection
- Assessment of accuracy
- Further collection
- Process explanation (logging and tracking)

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## Data Collection Tracking Log

### City of Albany

<table>
<thead>
<tr>
<th>Date</th>
<th>Type of Entry</th>
<th>Description</th>
<th>Program Area</th>
<th>File Name/Location</th>
<th>Accuracy of Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 Nov 13</td>
<td>Call placed</td>
<td>Talked to Don Smith at DOT, he said that he'd send over a pdf of relevant traffic counts for the city</td>
<td>Transportation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16 Nov 13</td>
<td>Data Collected</td>
<td>Requested pdf of Traffic counts/schedules from Don Smith</td>
<td>Transportation</td>
<td>traffic.albany.dot/counts.pdf</td>
<td>95%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>VHB server</td>
<td></td>
</tr>
</tbody>
</table>
Objective: ensure consistent standards and analysis across the five plans
Role of Working Group members:
- Participate in collaborative meetings to discuss approaches and share best practices
- Set standard methodologies, assumptions, and metrics for data collection, analysis, and policy development

Commitment:
- 3-4 calls covering all four program areas; plus
- One call focused on each program area,
- Email correspondence, and
- Regular communications on Share-point