Energy Highway Initiative

July 9, 2012

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New York Power Authority
Presentation Outline

• Energy Highway Task Force
• Need for the Energy Highway
• Task Force Objectives
• Timeline
• Response Received
• Next Steps

Governor Andrew M. Cuomo, in his 2012 State of the State address, put forward a sweeping public-private initiative to upgrade and modernize New York State’s electric power system.
Task Force

**Gil C. Quiniones (Co-Chair)** President & Chief Executive Officer
New York Power Authority

**Joseph Martens (Co-Chair)** Commissioner
New York State Department of Environmental Conservation

**Kenneth Adams** President, Chief Executive Officer & Commissioner
Empire State Development

**Garry A. Brown** Chairman
New York State Public Service Commission

**Francis J. Murray, Jr.** President & Chief Executive Officer
New York State Energy Research and Development Authority
Energy Highway Overview
The Energy Highway addresses these realities:

• Aging generation and transmission infrastructure

• Opportunity for economic development and job creation

• Congestion on the transmission system

• Preparing for upcoming environmental regulations

• Evolving the next generation of the grid
New York’s Aging Transmission System

**Artist rendering:** 115kV and above

**EXPECTED TIME FRAME FOR REPLACEMENT**

0–10 YEARS 11–20 YEARS 21–30 YEARS

**Source:** Artist rendering, adapted from New York State Transmission Assessment and Reliability Study (STARS) 2009 Transmission Condition Assessment Map
New York’s Aging Generating Facilities

42% of generation plants are over 40 years old

Task Force Objectives

• **Reduce constraints** on the flow of electricity within New York State

• Promote **economic development, job creation and investment in New York State**

• **Expand diversity** of downstate power generation

• **Enhance reliability** of the electric system

• Encourage development of **renewable generation**

• **Increase efficiency** of power generation
Timeline

**April 4, 2012**  
Summit held at Columbia University  
*over 400 people attended*

**April 11, 2012**  
Request for Information (RFI) issued

**April 19, 2012**  
Conference of Interested Parties in Tarrytown  
*over 250 people attended*

**May 30, 2012**  
Responses to the RFI due  
*85 individual responses, over 130 ideas*
Summary of RFI Responses

85 Respondents identifying over 130 proposals
Over 25,000 megawatts (MW) of new and existing capacity

- **Generation**: existing, repowering existing upstate and downstate, renewables upstate and offshore
- **Transmission**: upgrade existing AC, build new DC
- **Other ideas**: fuel cells, gas pipelines, energy storage
RFI Responses

Transmission Map

MAP KEY
- DC Transmission
- AC Transmission
- Idea Transmission

NOTE: All RFI responses and locations (if given by county in RFI response) are CONCEPTUAL and none have been endorsed by the Energy Highway Task Force. Comments welcome until July 31 for consideration in drafting the Action Plan.
RFI Responses

Transmission Map

Generation Map

- Show All
- Show Existing
- Show New
- Show Upgrade

MAP KEY

- Generation-Renewable
- Generation-Repowering
- Generation - Traditional
- Ideas

NOTE: All RFI responses and locations (if given by county in RFI response) are CONCEPTUAL and none have been endorsed by the Energy Highway Task Force. Comments welcome until July 31 for consideration in drafting the Action Plan.

Download PDF of Map
## Timeline (continued)

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>June 29, 2012</td>
<td>Summary of responses posted to website</td>
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<tr>
<td>July 31, 2012</td>
<td>Public comment period closes</td>
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<tr>
<td>Now through Fall</td>
<td>Detailed review of responses continues</td>
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<tr>
<td>Fall 2012</td>
<td>Action Plan issued</td>
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Energy Highway Action Plan

• Action Plan will be issued by the Task Force in Fall 2012

• Will be informed by the responses to the RFI and comments received from the public and stakeholders

• It is envisioned that the Plan will help create the environment that would be needed to spur private-sector actions
“Key to powering our economic growth is expanding our energy infrastructure.”

N.Y. GOVERNOR
Andrew M. Cuomo
2012 State of the State Address