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# Energy Highway Initiative

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**July 9, 2012**

**Jill C. Anderson**

Director of Energy Policy  
& Chief of Staff

New York Power Authority

# Presentation Outline

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

## **The Time for Powerful Ideas**

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.

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# Task Force

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**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

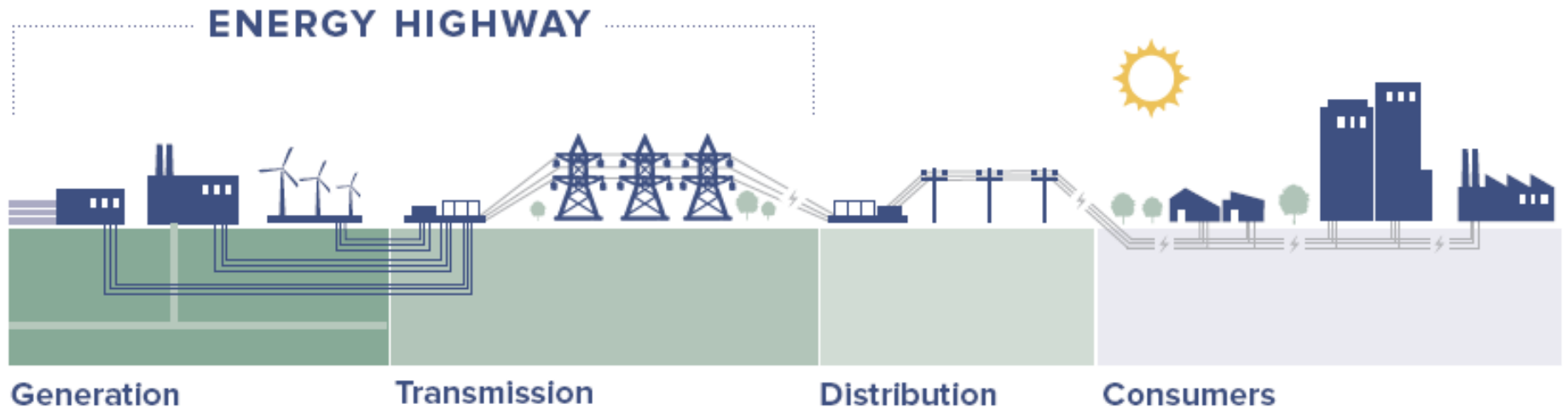


**Garry A. Brown** Chairman  
New York State Public Service Commission



**Francis J. Murray, Jr.** President & Chief Executive Officer  
New York State Energy Research and Development Authority

# Energy Highway Overview



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## The Energy Highway addresses these realities:

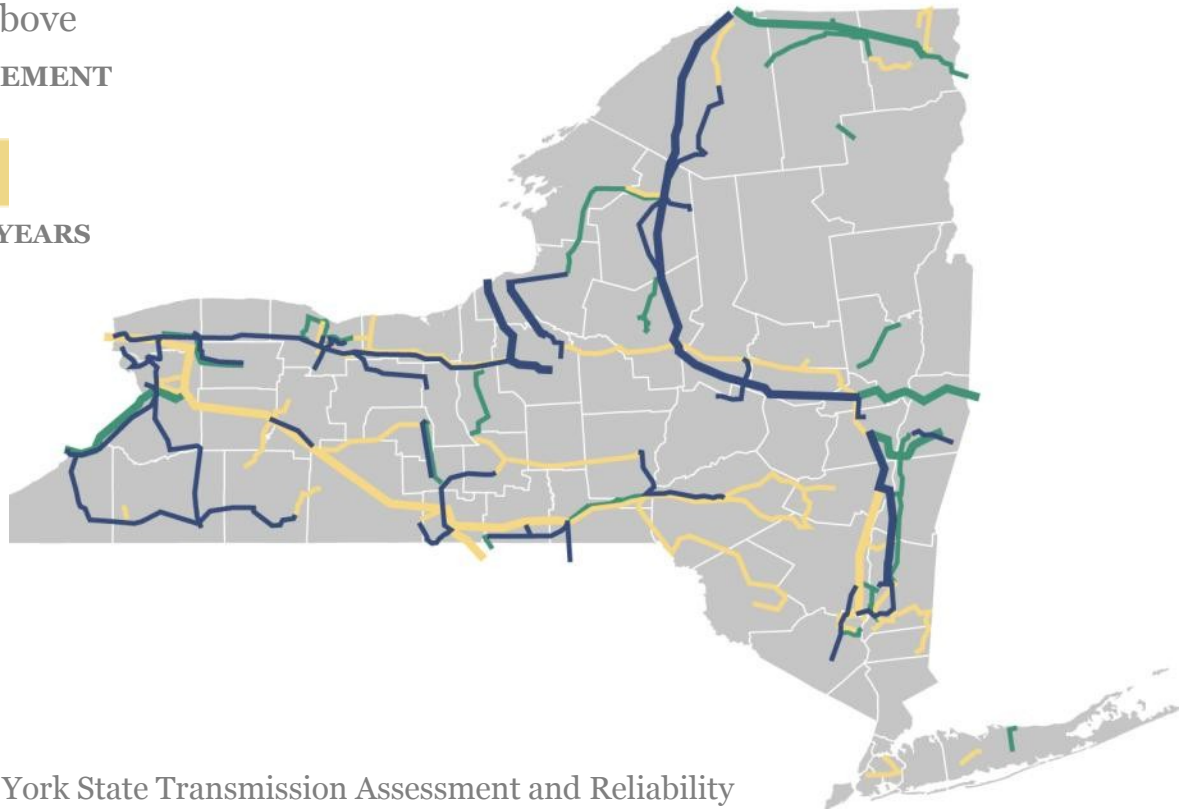
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- Aging generation and transmission infrastructure
- Opportunity for economic development and job creation
- Congestion on the transmission system
- Preparing for upcoming environmental regulations
- Evolving the next generation of the grid

# New York's Aging Transmission System

Artist rendering: 115kV and above

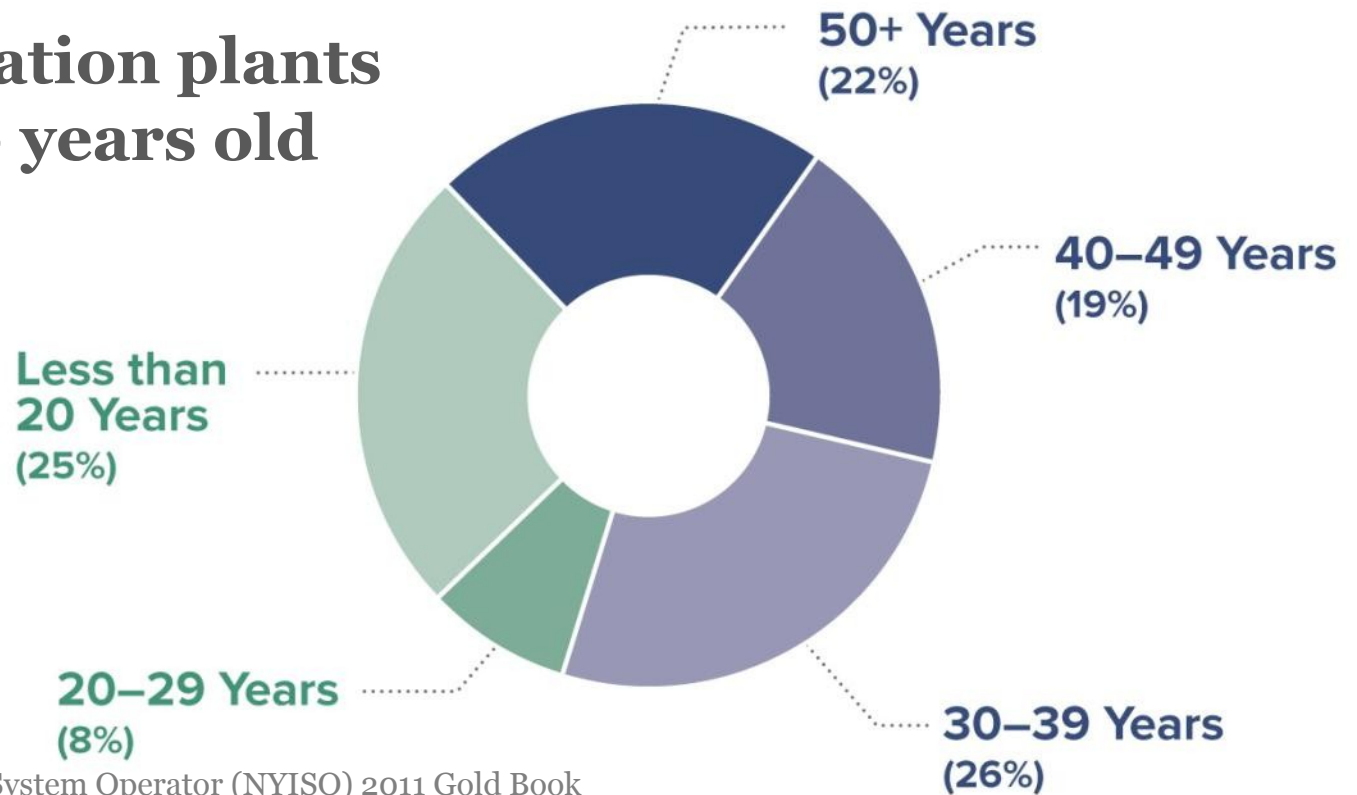
EXPECTED TIME FRAME FOR REPLACEMENT



**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**



Source: New York Independent System Operator (NYISO) 2011 Gold Book

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# Task Force Objectives

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- **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**

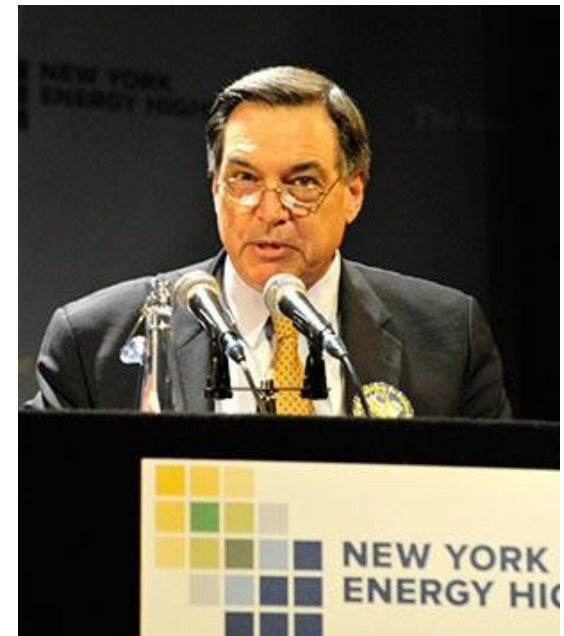
Responses to the RFI due  
*85 individual responses, over 130 ideas*



# Energy Highway Summit



Over 400 Summit attendees at Columbia University on April 4, 2012



Keynote speaker:  
Federal Energy Regulatory  
Commission (FERC)  
Chairman,  
Jon Wellinghoff

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# Summary of RFI Responses

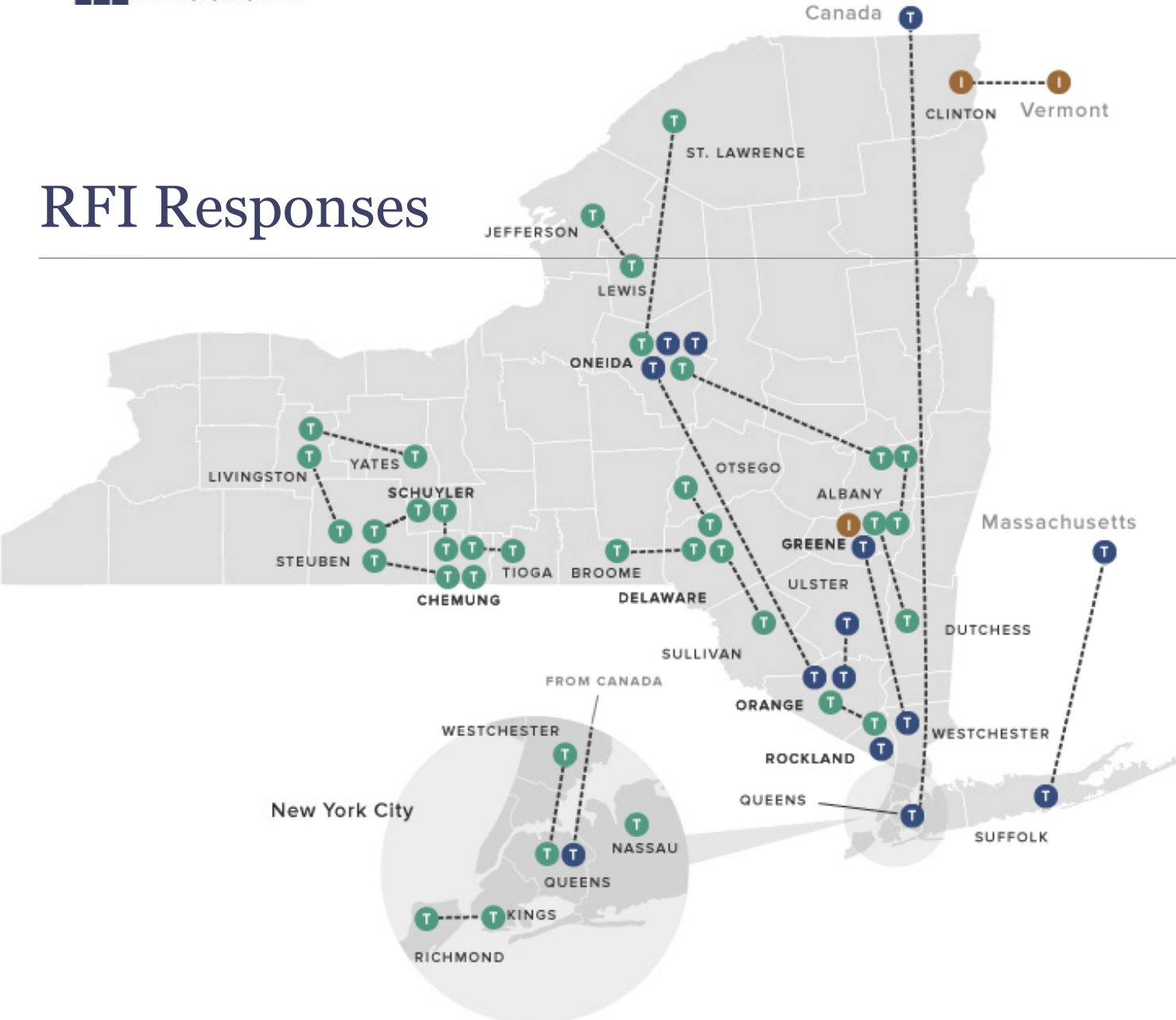
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85 Respondents identifying over 130 proposals

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



**MAP KEY**

- T DC Transmission
- T AC Transmission
- I 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

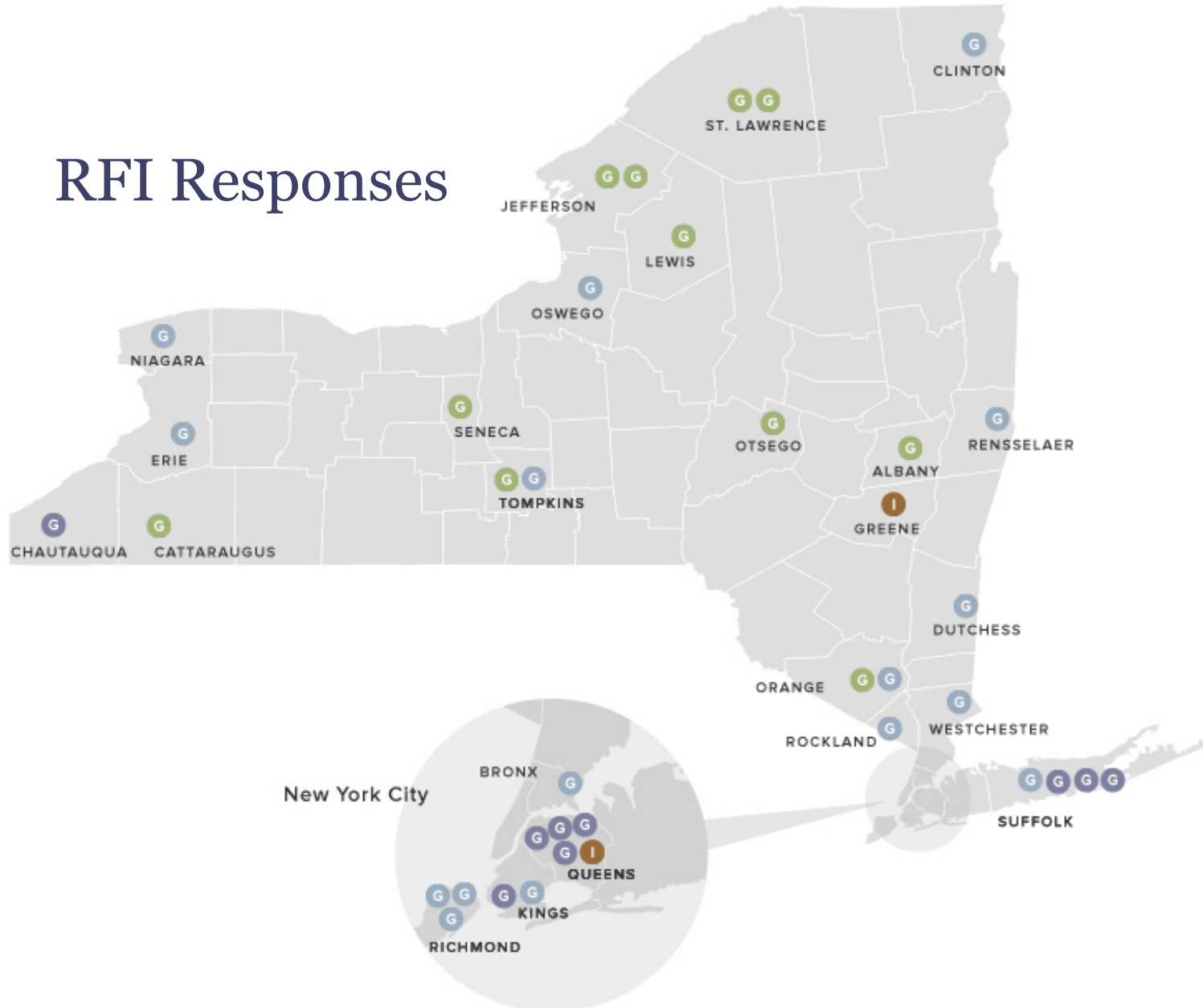
- Show All
- Show Existing
- Show New
- Show Upgrade

### 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)

**June 29, 2012**

Summary of responses posted to website

**July 31, 2012**

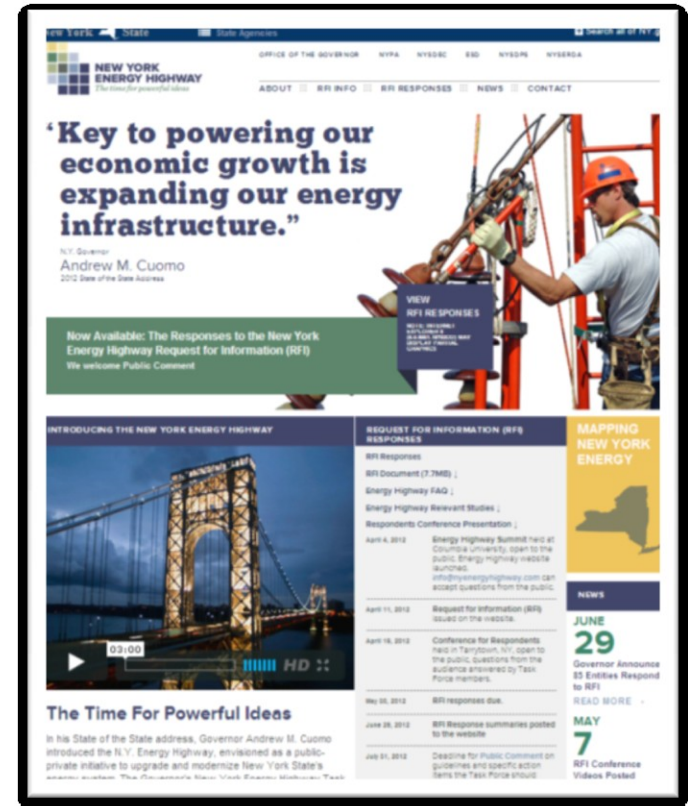
Public comment period closes

**Now through Fall**

Detailed review of responses continues

**Fall 2012**

Action Plan issued

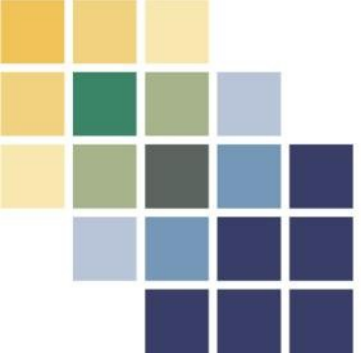


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# Energy Highway Action Plan

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- 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



# NEW YORK ENERGY HIGHWAY

*The time for powerful ideas*

**“Key to powering our economic growth is expanding our energy infrastructure.”**

N.Y. GOVERNOR

Andrew M. Cuomo

2012 State of the State Address