

Transportation Advisory Panel

Meeting 3

October 21, 2020

www.Climate.ny.gov



**Climate Action
Council**

Meeting Procedures

Before beginning, a few reminders to ensure a smooth discussion:

- **Panel members should be on mute when not speaking.**
- **Video is encouraged for Panel members, in particular when speaking.**
- **We will not be muting individuals for this discussion; the chair will call on members individually, at which time please unmute.**
- **If technical problems arise, please contact Gina McIntyre at gina.mcintyre@dot.ny.gov**

Agenda

- **Welcome/Introductions**
 - **Clean Transportation Roadmap Presentation**
 - **Developing Recommendations/Assignments**
 - **Liaisons/Cross Sector Collaboration**
 - **Expert/Stakeholder Input**
 - **Next Steps**
-
- www.Climate.ny.gov

Panel Member Introductions

Transportation Advisory Panel Members

**Marie Therese
Dominguez, Chair**
NYSDOT

Jared Snyder
NYSDEC

Paul Allen, M. J.
Bradley &
Associates

Dimitris Assanis,
Stony Brook
University

Steve Finch, AAA
Western & Central
New York

Albert Gore III, Tesla

Kendra Hems,
Trucking Association
of New York

Elgie Holstein,
Environmental
Defense Fund

Renaë Reynolds,
New York City
Environmental
Justice Alliance

Porie Saikia-Eapen,
Metropolitan Transit
Authority

John Samuelson,
Transport Workers
Union of America
AFL-CIO

Nick Sifuentes,
TriState
Transportation
Campaign

Kerene Tayloe, WE
ACT for
Environmental
Justice

Julie Tighe, NYS
League of
Conservation Voters

Craig Turner, Buffalo
Niagara
International Trade
Gateway
Organization

Nancy Young,
Airlines for America

Bob Zerrillo, New
York Public Transit
Association

Clean Transportation Roadmap

Clean Transportation Roadmap

> Key Goals

- Chart possible courses to 2030/2050 GHG emissions targets for transportation sector
- **Inform CAC Transportation Advisory Panel** by answering key questions:
 - How much GHG reduction will current transportation policies achieve? How much more is needed to meet 2030/2050 goals?
 - What are current and future trends? What should initial priorities be?
 - What policy options can best accelerate adoption? How much would they cost? How could NYS fund these?
 - How much GHG reductions can come from ZEVs? How much GHG reduction can come from other strategies like clean fuels, increased transit, TDM? What policies help realize these savings?
- Help align and inform policies of NYS agencies working on clean transportation initiatives

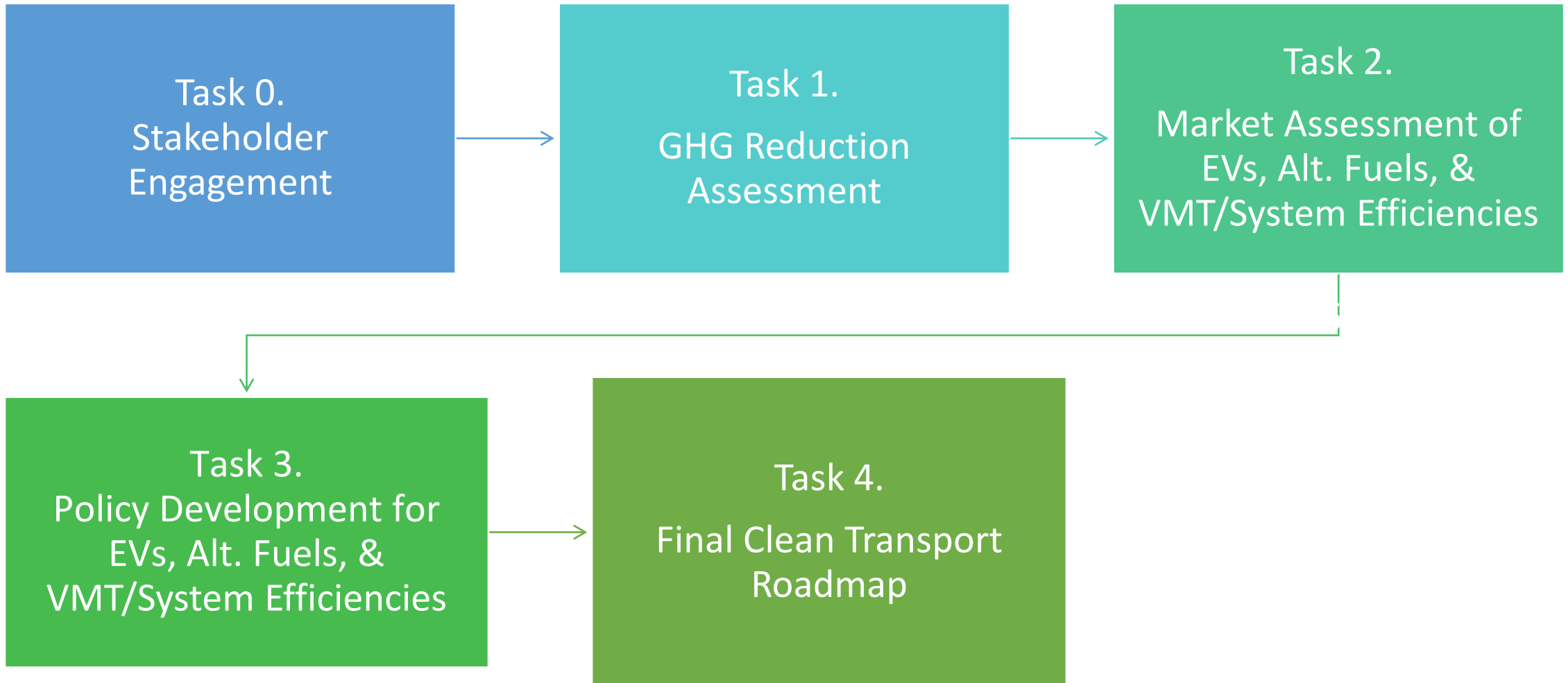
> Team of consultants led by Cadmus Group

> Will be complemented by additional analysis of electric grid impacts, EV infrastructure needs

How the Roadmap Fits In

	CAC Transportation Advisory Panel	Clean Transportation Roadmap
Core Activity	<ul style="list-style-type: none"> Develop GHG emission reduction policy recommendations for the transportation sector for NYS 	<ul style="list-style-type: none"> Conduct GHG emission reduction analysis and modeling, and identification of potential policy packages, for the transportation sector for NYS
Expected Results	<ul style="list-style-type: none"> Recommendations of clean transportation policies for the CAC to put forward 	<ul style="list-style-type: none"> Report outlining potential clean transportation policy mixes to get to 2030/2050 GHG emission reduction goals Accompanying analysis of underlying market factors and expected policy impacts of various actions that could be taken
Project Structure	<ul style="list-style-type: none"> Appointed outside expert panel led by NYSDOT 	<ul style="list-style-type: none"> NYSERDA and State agency steering committee directing consultant, informed by outside experts
Timeline	<ul style="list-style-type: none"> Draft recommendations by Dec 2020 Final recommendations by Spring 2021 	<ul style="list-style-type: none"> EV policy analysis by Nov 2020 Other policy analysis by Mar 2020 Final report May 2020

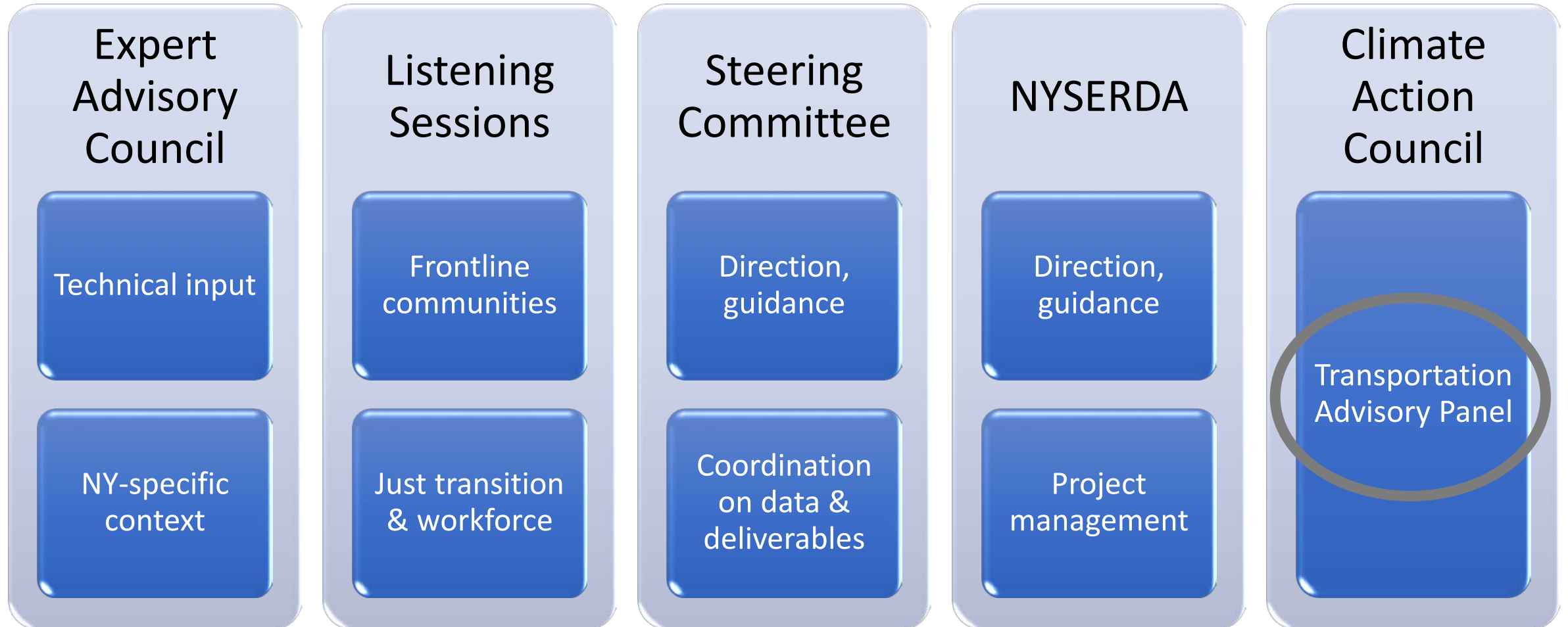
Roadmap Task Overview



Roadmap Timeline

Deliverable	Expected Completion Date	Briefings for Advisory Panel
EV Market Assessment	September 2020	11/3: EV mkt assessment 11/19: EV & EVSE forecasts
EV Policy Analysis	November 2020	12/18: EV policy analysis
Mobility Market Assessment	February 2021	2/18: Mobility mkt assessment
Alt Fuel Market Assessment	February 2021	2/18: Alt fuel mkt assessment
Mobility Policy Analysis	March 2021	3/18: Mobility policy analysis
Alt Fuel Policy Analysis	March 2021	3/18: Alt fuel policy analysis
Economic Impacts Analysis	April 2021	TBD: Econ impact analysis
Final Report	May 2021	TBD: Final report

Roadmap Roles and Responsibilities



Modeling Overview

Model	Purpose	Type	Modes
Diffusion Model	Estimates ICEV, BEV, PHEV, HEV, FCEV annual sales between today and 2050 at the county-level under various policies.	Consumer choice diffusion model based on stated preference model	Light-duty vehicles
VE-State	Used to estimate VMT, mode shift, and costs of various policies.	Multi-stage hybrid model	All on-road vehicles
NY-VISION	Integrate all sub-sectors and all modeling together	Spreadsheet / PowerBI accounting tool	All modes (on-road, rail, marine, air)
IMPLAN	Estimate economic impacts of various policies and programs.	Economic input-output model	Linked to NAACS code sectors of economy
EVSE Acct. Tool	Estimate number, typology, and electricity load of EV chargers	Hybrid model	All ELECTRIC on-road vehicles
Side Analyses	TCO of vehicles, TCO of refueling infrastructure	Various	Various

Complementary Research

> Distribution System Analysis

- Led by Nexant
- Analyzing the impacts from additional electrification of the transportation sector on the electric grid at the distribution level
- Results expected in January 2021, to inform broader Roadmap analysis

> Integration with Pathways

- Led by E3
- Integrating modeling results from Roadmap and distribution system analysis back into the Pathways model
- Analyzing the impacts from additional electrification of the transportation sector on the electric grid at the transmission level
- Results expected in April 2021

Developing Recommendations

Developing Recommendations

Structure- Develop recommendations in subject areas:

- Electrification and fuels
- Market-based programs, funding and financing
- Public transportation
- Smart Growth/System Optimization

Designate work groups for each

Electrification and Fuels

- *Pathways goals for 2030*
 - **Electrification:** 60-70% passenger vehicle sales; 35-50% of medium/heavy duty truck sales
 - **Fuels:** 40% of diesel is renewable
- *Initiatives underway include:*
 - **Passenger cars:** DEC's ZEV mandate, subsidies
 - **Trucks:** Medium/Heavy Duty MOU, VW, transit bus electrification initiative
 - **Charging infrastructure:** Make Ready, NYPA programs, NYSERDA incentives, Climate Smart Communities funding

Electrification and Fuels

- ***Policies/programs to drive the transition to electrified cars and trucks***
 - Potential regulatory policies could include next generation ZEV rules adopted by California to implement the 2035 100% sales target; Advanced Clean Truck rule adopted by California.
 - Potential complementary policies could include incentives, pricing, charging infrastructure/technology, and policies to ensure benefits to disadvantaged communities
 - Analyses needed:
 - Identify infrastructure requirements to support the transition and mechanisms to deploy that infrastructure
 - Identify challenges/opportunities and lifecycle cost/benefit
- ***Policies/programs to reduce the carbon intensity of transportation fuels***
 - Potential regulatory policy could be a Low Carbon Fuel Standard: eligible low-carbon fuels could include electricity, green hydrogen and advanced renewable biofuels
 - Consider life-cycle emissions
 - Evaluation of challenges/opportunities, including reduction of co-pollutants and cost impacts, considering experience in other states.
- ***Discussion***

Market-Based Policies, Financing and Funding

- ***Programs underway, in development or under consideration***
 - Transportation and Climate Initiative: potential multistate cap-and-invest program that would cap and reduce emissions and provide a funding source for investments with emphasis on investing for the benefit of disadvantaged communities
 - New York Green Bank
 - Identify challenges/opportunities and contribution to CAC goals; evaluate adequacy of funding for clean transportation investments needed
- ***Potential policies and programs***
 - Market-based: could include participation in TCI or other approaches
 - Financing: strategies to animate private capital; based on the Green Bank or other approaches?
 - Other ways of funding transportation investments
- ***Discussion***

Public Transportation

- ***Identify policies and programs that would double the availability/accessibility of public transportation services statewide - other than the Metropolitan Transportation Authority (MTA) - by 2035***
 - Identify resources to support network expansion projects identified by MTA in their twenty-year needs study
 - Identify strategies to provide operating/capital support
 - Identify strategies to address transit deserts
 - Assess options for vehicle types/connectivity with micro transit
 - Invest in pedestrian infrastructure to enhance safety/access to bus stops
 - Identify strategies for using tax increment financing for modernization/enhancement of bus/rail facilities/equipment
- ***Discussion***

Smart Growth/System Optimization

- ***Adopt policies that incentivize construction of all new roadway, residential, and commercial development along certain census tracts to be adjacent to public transportation routes by 2035***
 - Identify supportive land use/infrastructure policies that provide access to transportation for users of all abilities
 - Identify barriers such as home rule and provide incentives to address
 - Develop policies on last-mile freight delivery/warehousing
 - Incorporate strategic design features including sidewalks, pedestrian and facilities, crosswalks and pedestrian, other into reconstruction activities
 - Identify modal bottlenecks that result in excess idling and carbon emissions for candidate projects
- ***Discussion***

Transportation Advisory Panel Members

**Marie Therese
Dominguez, Chair**
NYSDOT

Jared Snyder
NYSDEC

Paul Allen, M. J.
Bradley &
Associates

Dimitris Assanis,
Stony Brook
University

Steve Finch, AAA
Western & Central
New York

Albert Gore III, Tesla

Kendra Hems,
Trucking Association
of New York

Elgie Holstein,
Environmental
Defense Fund

Renaë Reynolds,
New York City
Environmental
Justice Alliance

Porie Saikia-Eapen,
Metropolitan Transit
Authority

John Samuelson,
Transport Workers
Union of America
AFL-CIO

Nick Sifuentes,
TriState
Transportation
Campaign

Kerene Tayloe, WE
ACT for
Environmental
Justice

Julie Tighe, NYS
League of
Conservation Voters

Craig Turner, Buffalo
Niagara
International Trade
Gateway
Organization

Nancy Young,
Airlines for America

Bob Zerrillo, New
York Public Transit
Association

Liaisons/Cross Sector Collaboration

Areas of cross sector-collaboration

- **Land Use & Local Government Panel – *This Panel will also be reviewing the topic of Adaptation and Resilience:* Anticipate meeting in late Oct 2020 and mid-November**
- **Agriculture and Forestry: Anticipate meeting in mid-November**
- **Power Generation: Anticipate meeting in mid-November**
- **Just Transition Working Group: Anticipate meeting in late Oct 2020 and Feb 2021**
- **Climate Justice / Environmental Justice Working Group: Anticipate meeting in late Oct 2020 and Feb 2021**

Transportation Advisory Panel Members

**Marie Therese
Dominguez, Chair**
NYSDOT

Jared Snyder
NYSDEC

Paul Allen, M. J.
Bradley &
Associates

Dimitris Assanis,
Stony Brook
University

Steve Finch, AAA
Western & Central
New York

Albert Gore III, Tesla

Kendra Hems,
Trucking Association
of New York

Elgie Holstein,
Environmental
Defense Fund

Renaë Reynolds,
New York City
Environmental
Justice Alliance

Porie Saikia-Eapen,
Metropolitan Transit
Authority

John Samuelson,
Transport Workers
Union of America
AFL-CIO

Nick Sifuentes,
TriState
Transportation
Campaign

Kerene Tayloe, WE
ACT for
Environmental
Justice

Julie Tighe, NYS
League of
Conservation Voters

Craig Turner, Buffalo
Niagara
International Trade
Gateway
Organization

Nancy Young,
Airlines for America

Bob Zerrillo, New
York Public Transit
Association

Expert/Stakeholder Input

Expert/Stakeholder input

- Stakeholder/expert groups for informal outreach
- Schedule for public input

Transportation Advisory Panel Members

**Marie Therese
Dominguez, Chair**
NYSDOT

Jared Snyder
NYSDEC

Paul Allen, M. J.
Bradley &
Associates

Dimitris Assanis,
Stony Brook
University

Steve Finch, AAA
Western & Central
New York

Albert Gore III, Tesla

Kendra Hems,
Trucking Association
of New York

Elgie Holstein,
Environmental
Defense Fund

Renaë Reynolds,
New York City
Environmental
Justice Alliance

Porie Saikia-Eapen,
Metropolitan Transit
Authority

John Samuelson,
Transport Workers
Union of America
AFL-CIO

Nick Sifuentes,
TriState
Transportation
Campaign

Kerene Tayloe, WE
ACT for
Environmental
Justice

Julie Tighe, NYS
League of
Conservation Voters

Craig Turner, Buffalo
Niagara
International Trade
Gateway
Organization

Nancy Young,
Airlines for America

Bob Zerrillo, New
York Public Transit
Association

Next Steps/Open Discussion

www.Climate.ny.gov

Transportation Advisory Panel Members

**Marie Therese
Dominguez, Chair**
NYSDOT

Jared Snyder
NYSDEC

Paul Allen, M. J.
Bradley &
Associates

Dimitris Assanis,
Stony Brook
University

Steve Finch, AAA
Western & Central
New York

Albert Gore III, Tesla

Kendra Hems,
Trucking Association
of New York

Elgie Holstein,
Environmental
Defense Fund

Renaë Reynolds,
New York City
Environmental
Justice Alliance

Porie Saikia-Eapen,
Metropolitan Transit
Authority

John Samuelson,
Transport Workers
Union of America
AFL-CIO

Nick Sifuentes,
TriState
Transportation
Campaign

Kerene Tayloe, WE
ACT for
Environmental
Justice

Julie Tighe, NYS
League of
Conservation Voters

Craig Turner, Buffalo
Niagara
International Trade
Gateway
Organization

Nancy Young,
Airlines for America

Bob Zerrillo, New
York Public Transit
Association