

Delivering the Upstate Upgrade

How National Grid is rebuilding and modernising our transmission system in Upstate New York

national**grid**



Building our energy future
**Transforming
electricity
transmission**



Introductions



Sally Librera

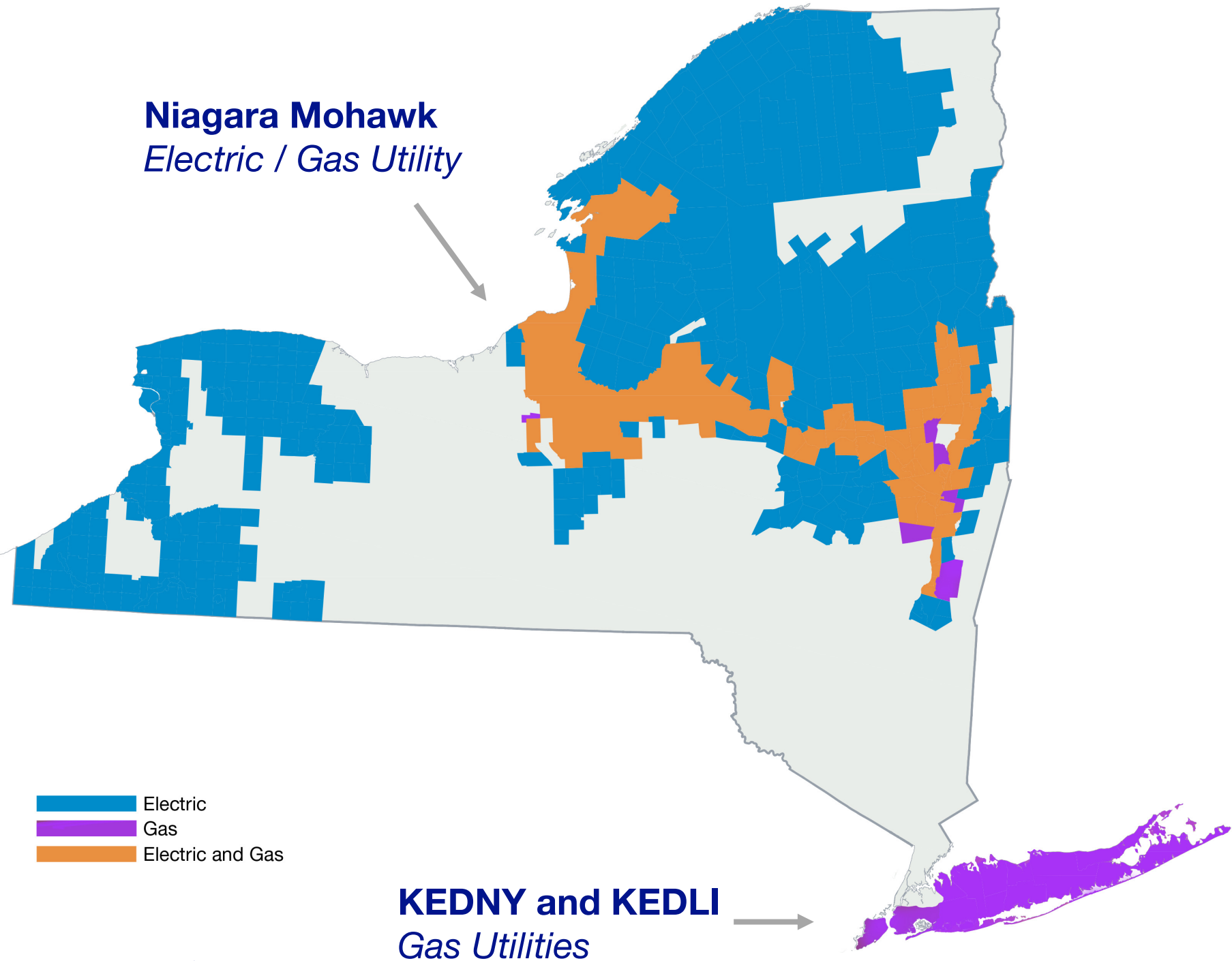
President
New York



Matt Barnett

Chief Operating Officer
New York Electric

National Grid's New York Business



3
Operating
Companies

\$21 Bn
FY25-FY29
Capex

4M+
Customers

\$23 Bn
FY25 Rate Base



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Delivering the Upstate Upgrade

Today's Agenda

01

Overview of New York's Electric System

02

Overview of the Upstate Upgrade

03

Delivering the Upstate Upgrade

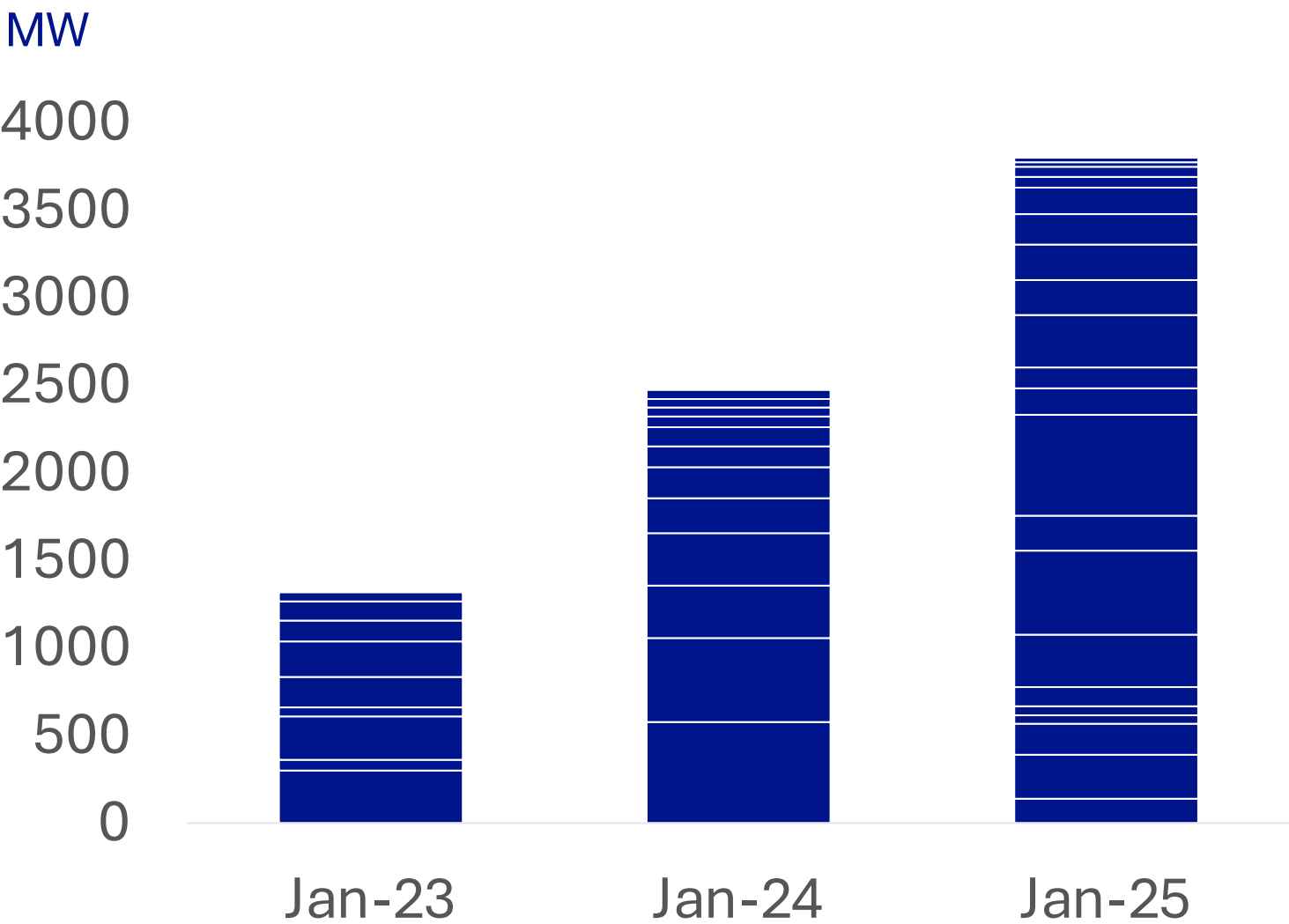
04

The Upstate Upgrade's Role in
the Five-Year Framework

Electric load growth is returning to New York

New York Load Queue

10+ MW Projects



Chip Fabrication



Advanced Manufacturing

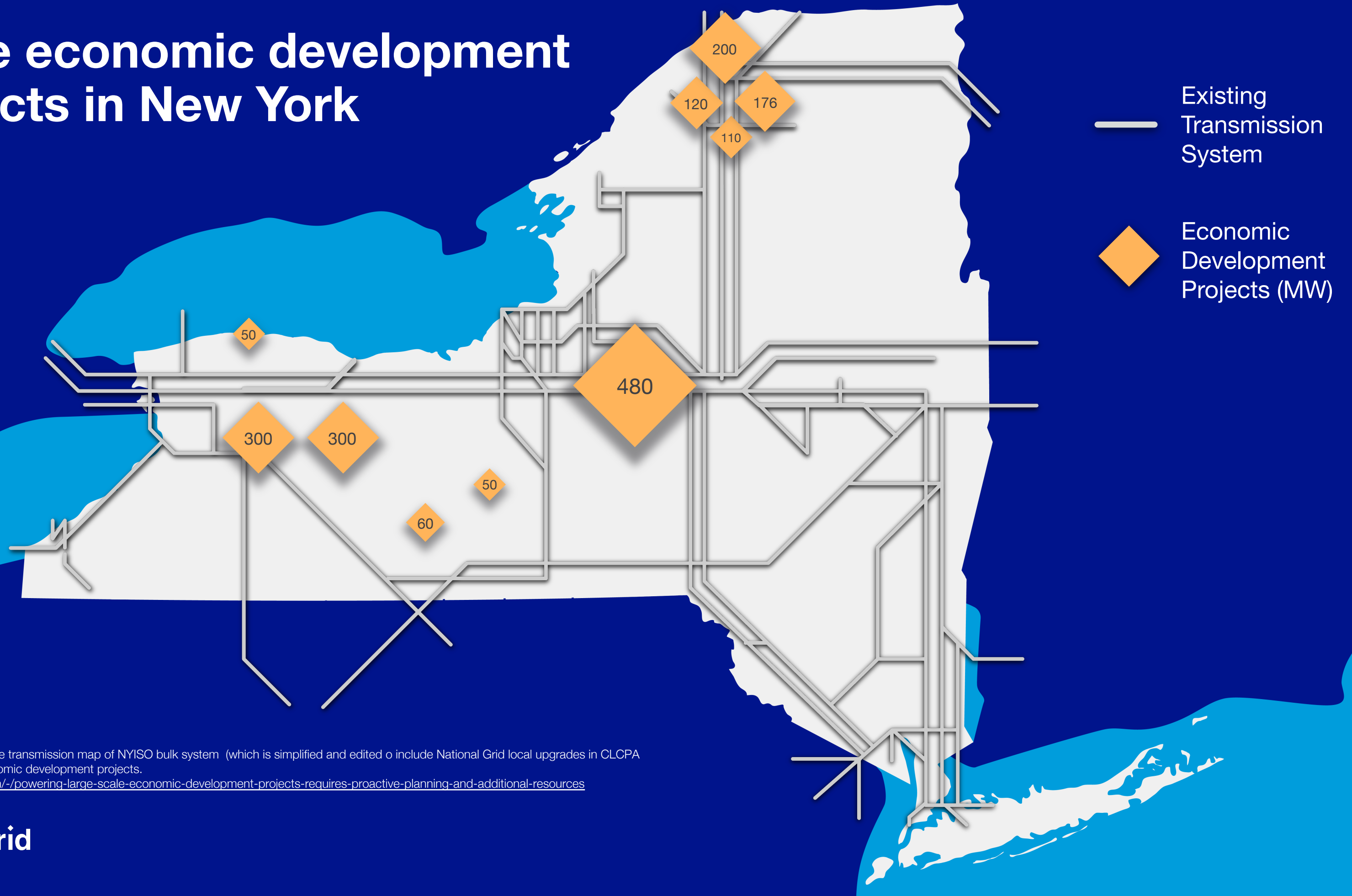


We've seen growth in large load projects seeking to interconnect in New York

Data Centers

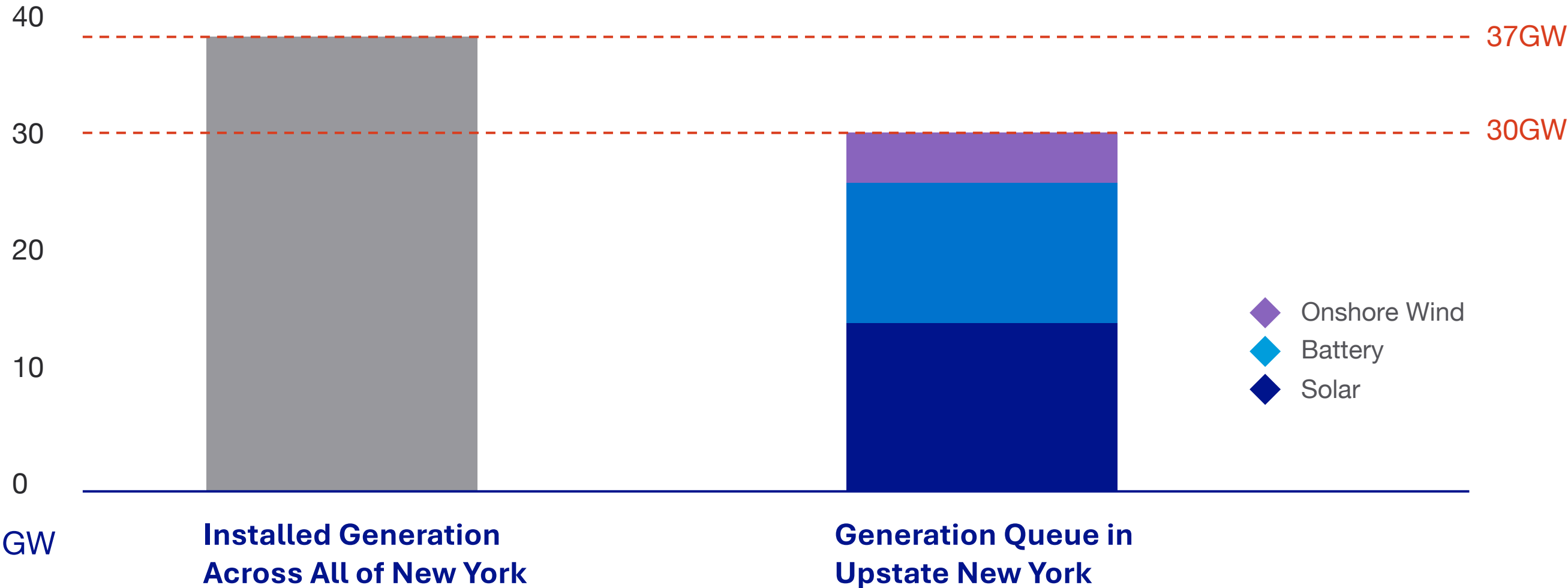


Large economic development projects in New York

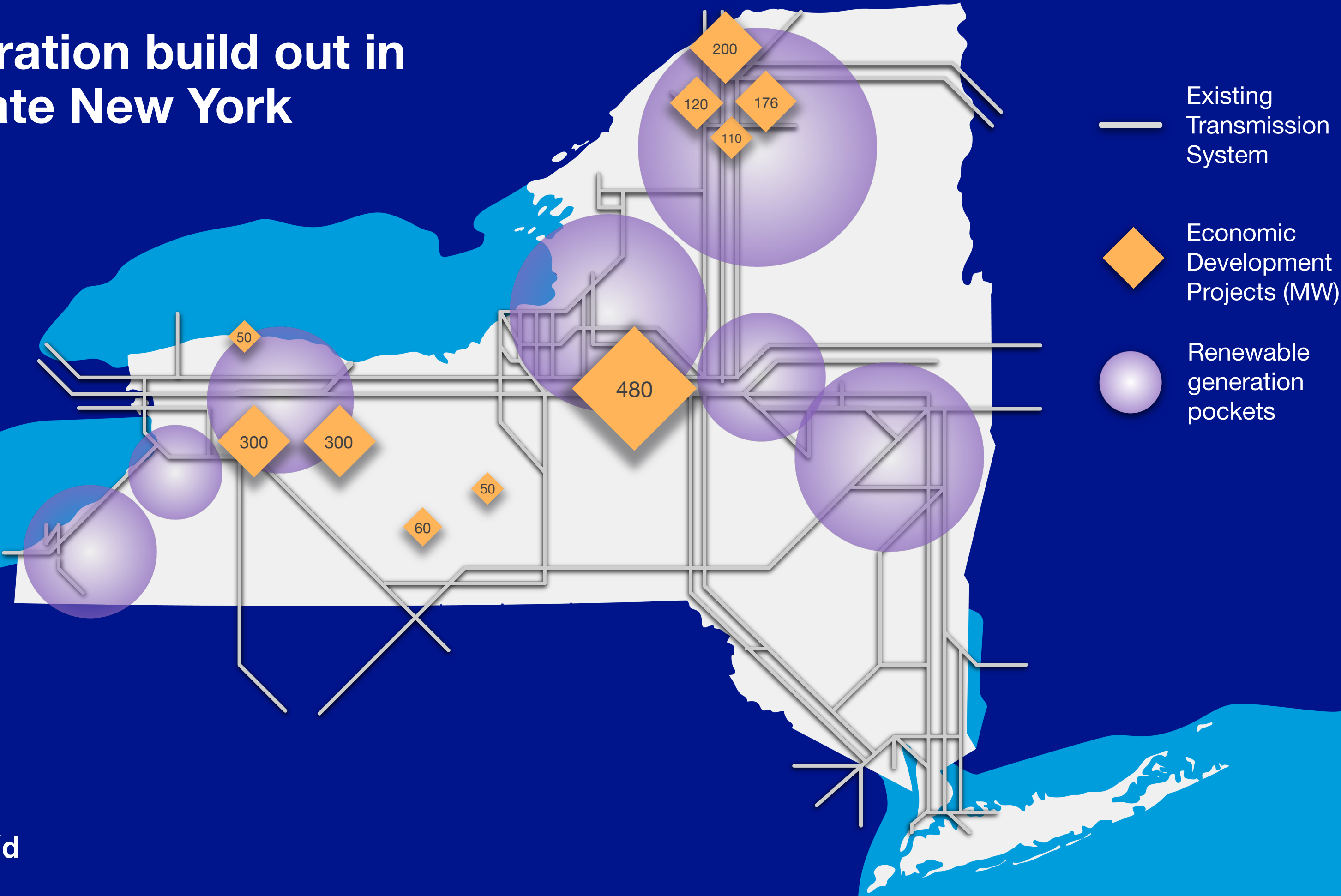


Source: NYISO for base transmission map of NYISO bulk system (which is simplified and edited to include National Grid local upgrades in CLCPA program) and for economic development projects.
<https://www.nyiso.com/-/powering-large-scale-economic-development-projects-requires-proactive-planning-and-additional-resources>

Upstate New York is experiencing a massive buildout of on-shore generation

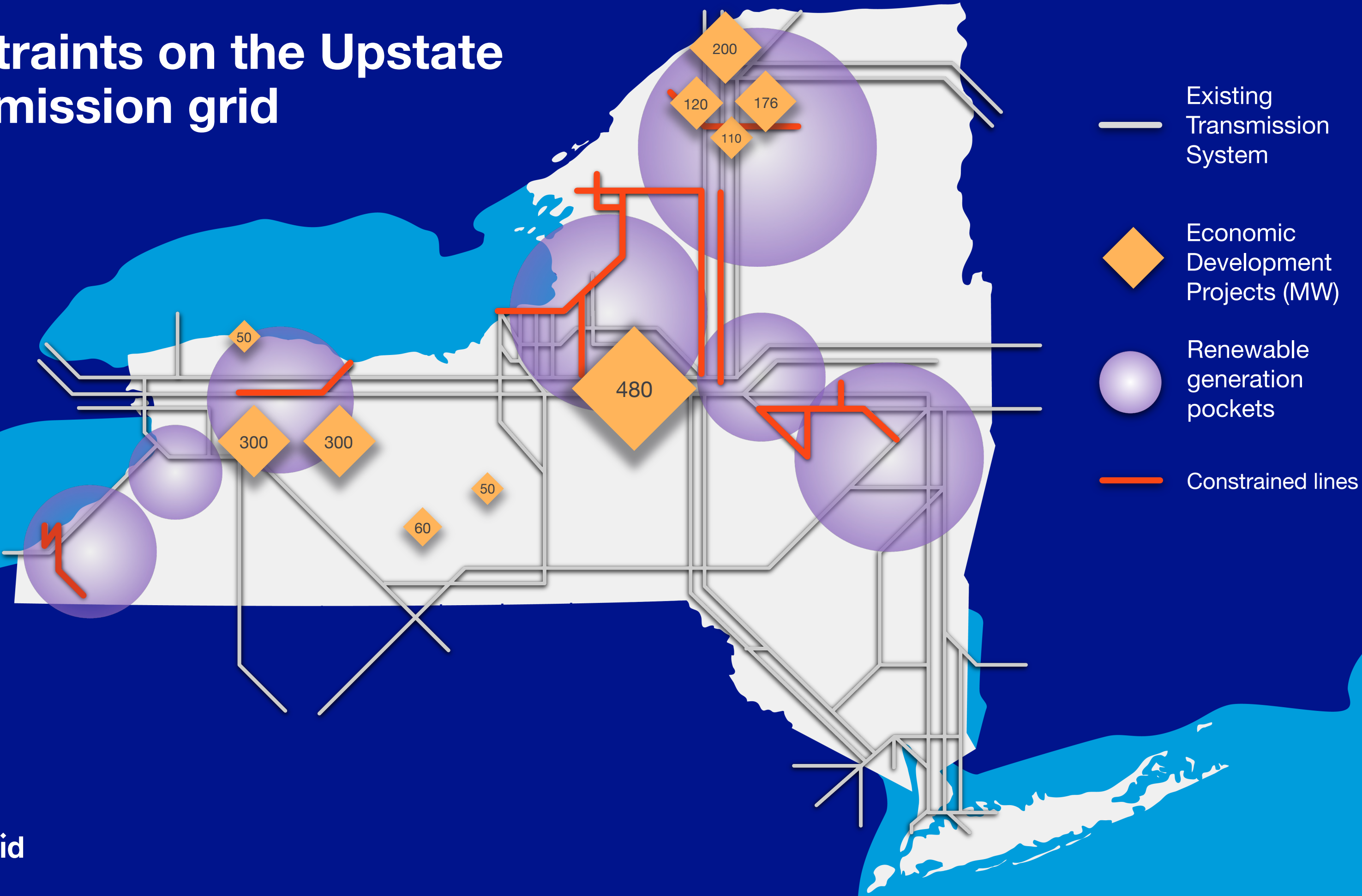


Generation build out in Upstate New York

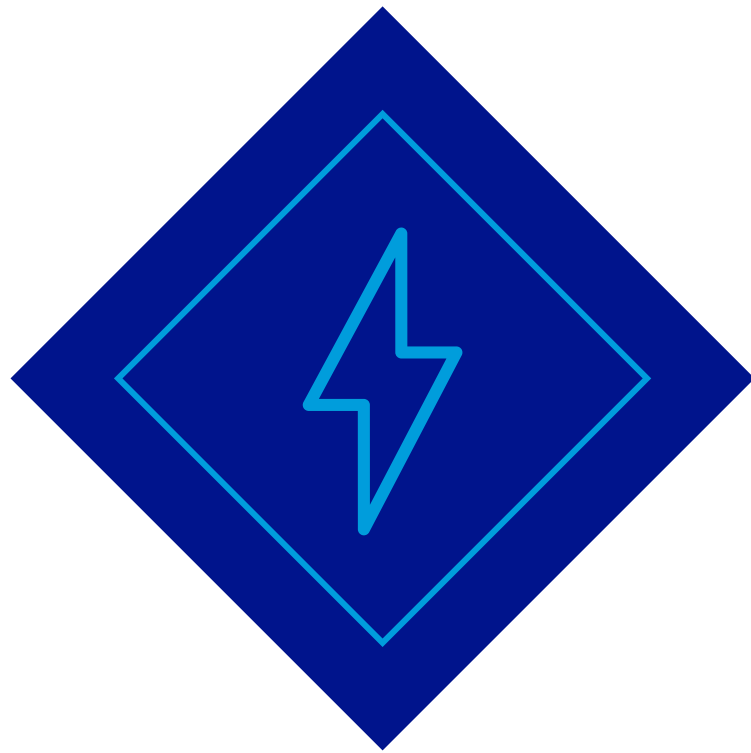


Transmission is the
“missing link”
to **connect new generation**
and meet **rising demand**

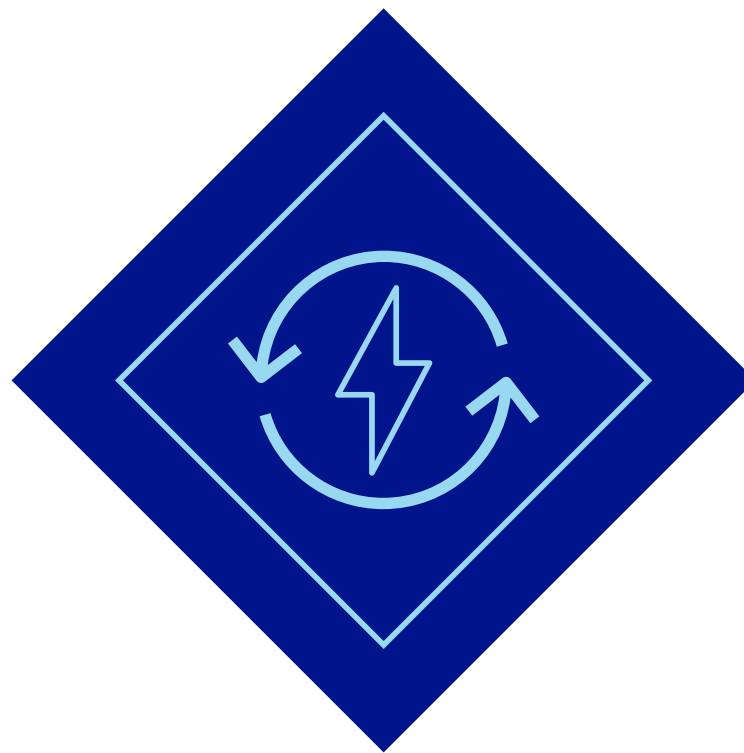
Constraints on the Upstate transmission grid



Rebuilding our transmission system is a “win-win” proposition for New York and for our customers



◆ **Enable buildout of in-state generation**

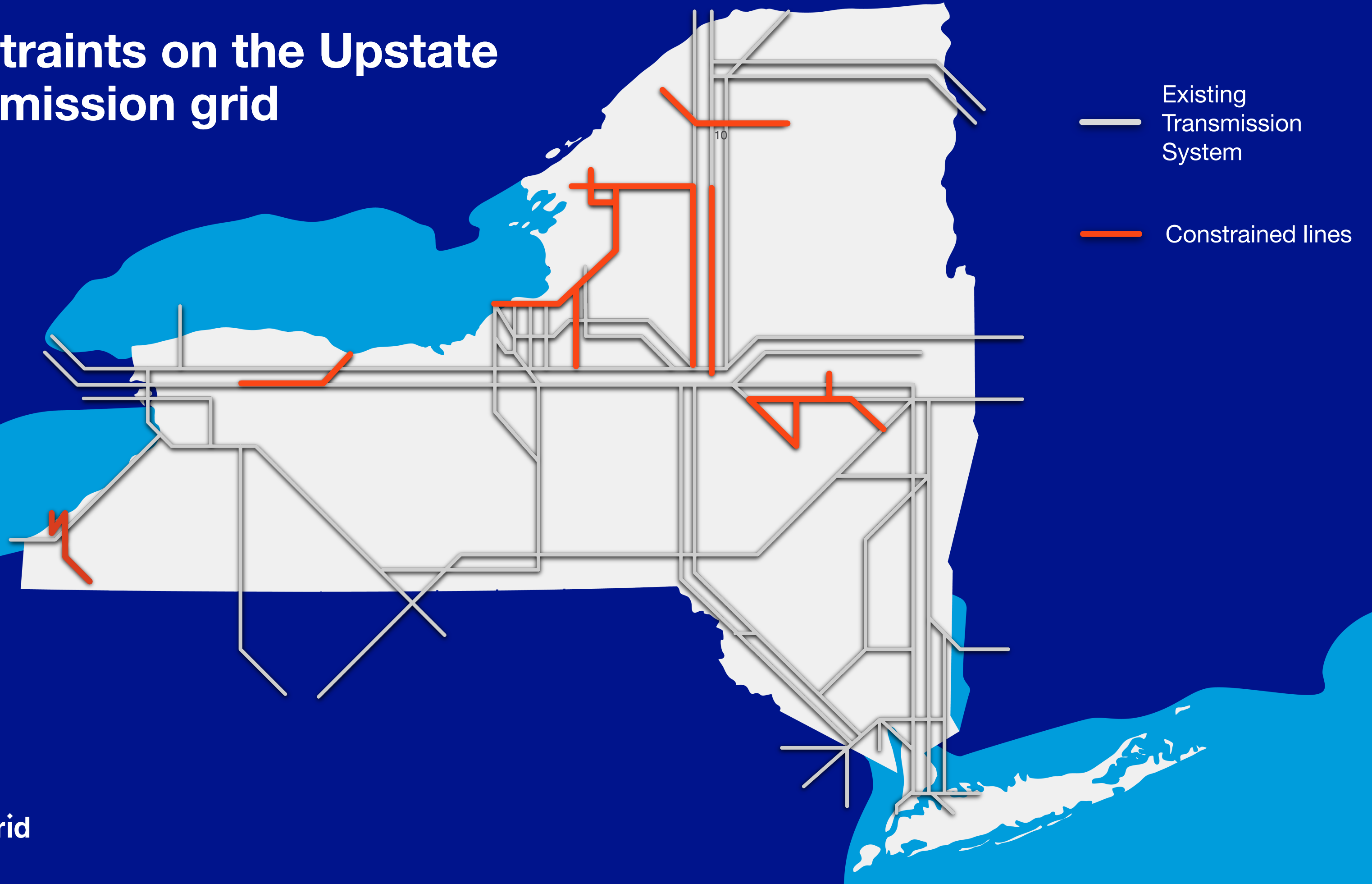


◆ **Bolster system resilience and reliability**

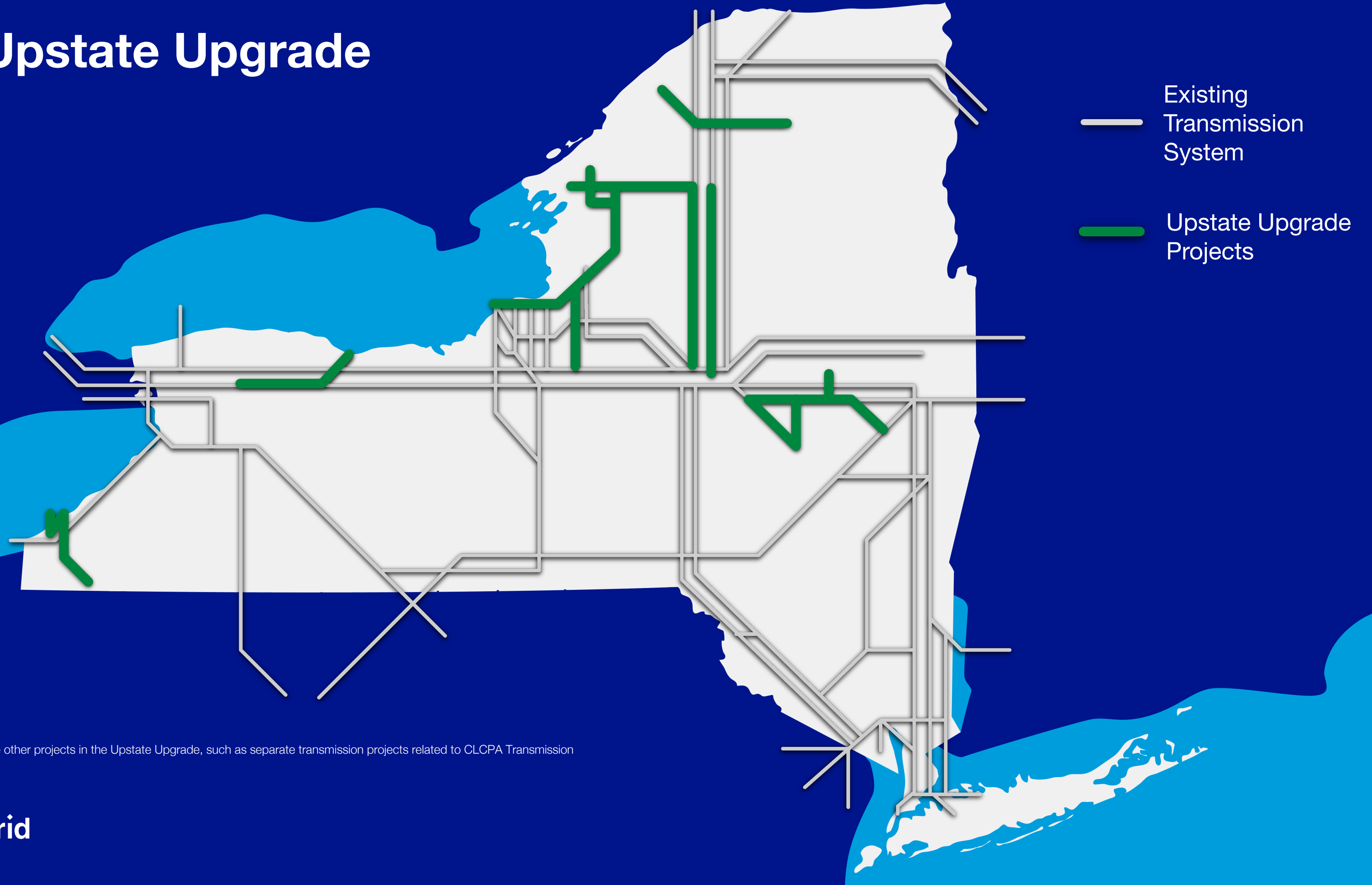


◆ **Support economic development**

Constraints on the Upstate transmission grid



The Upstate Upgrade



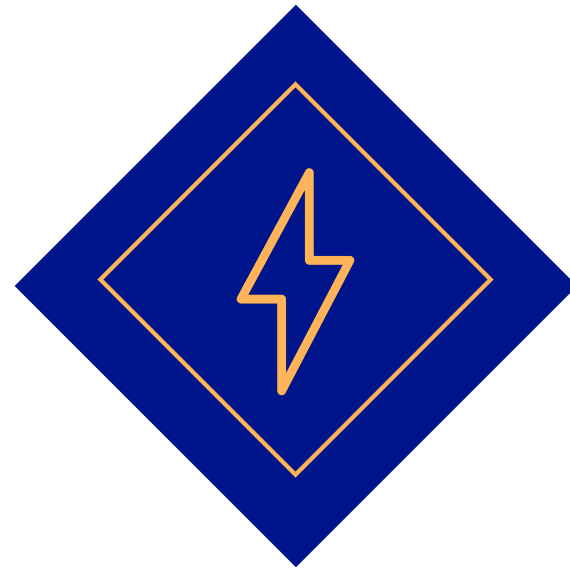
Note: Does not include other projects in the Upstate Upgrade, such as separate transmission projects related to CLCPA Transmission

The Upstate Upgrade is BIG work with BIG benefits



70

construction
projects



1000

miles of transmission
modernized



1700

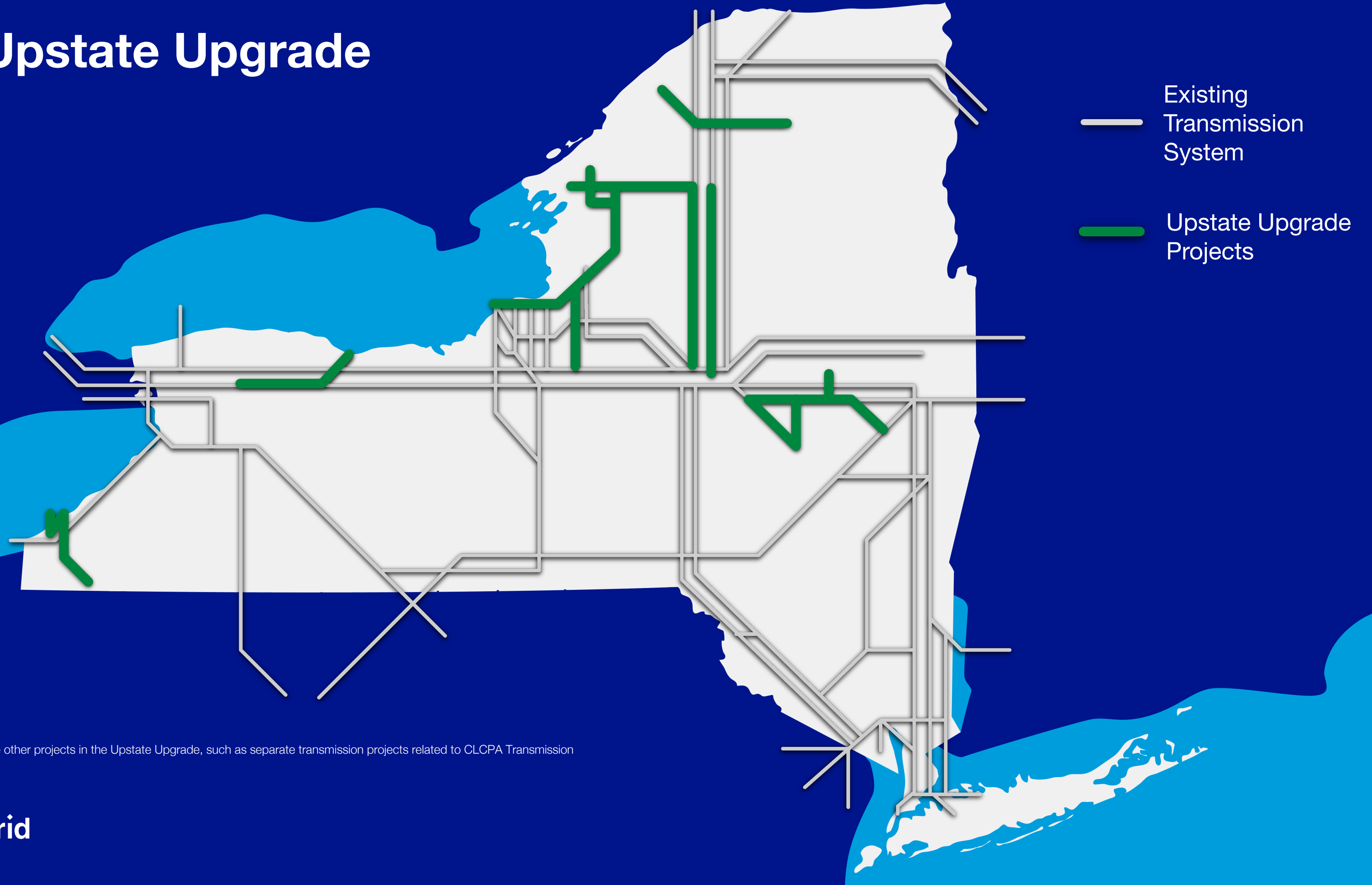
local construction
jobs



\$2bn

in local economic
benefits

The Upstate Upgrade



Note: Does not include other projects in the Upstate Upgrade, such as separate transmission projects related to CLCPA Transmission

Our **transmission investments** are underpinned by a strong policy, regulatory and stakeholder framework.

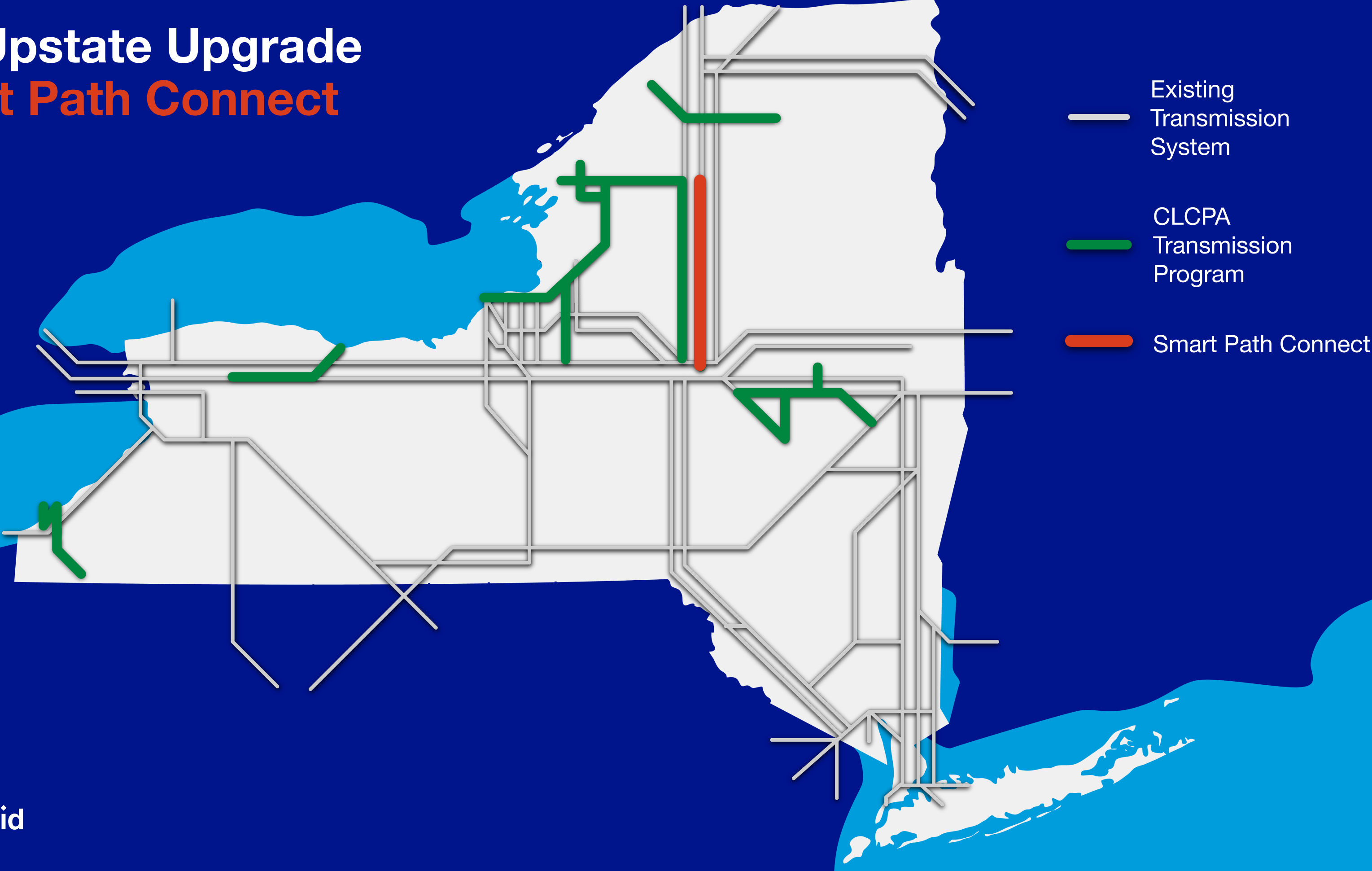


Today, we'll show you how
we're delivering the Upstate
Upgrade – **and delivering
on our five-year financial
framework.**



The Upstate Upgrade

Smart Path Connect



Smart Path Connect

❖ **1GW**

increase in power
delivered

❖ **\$400M**

in electricity congestion
savings

❖ **1M**

tons of CO₂ avoided
each year



Smart Path Connect
will enter service
later this year

❖ **100+**

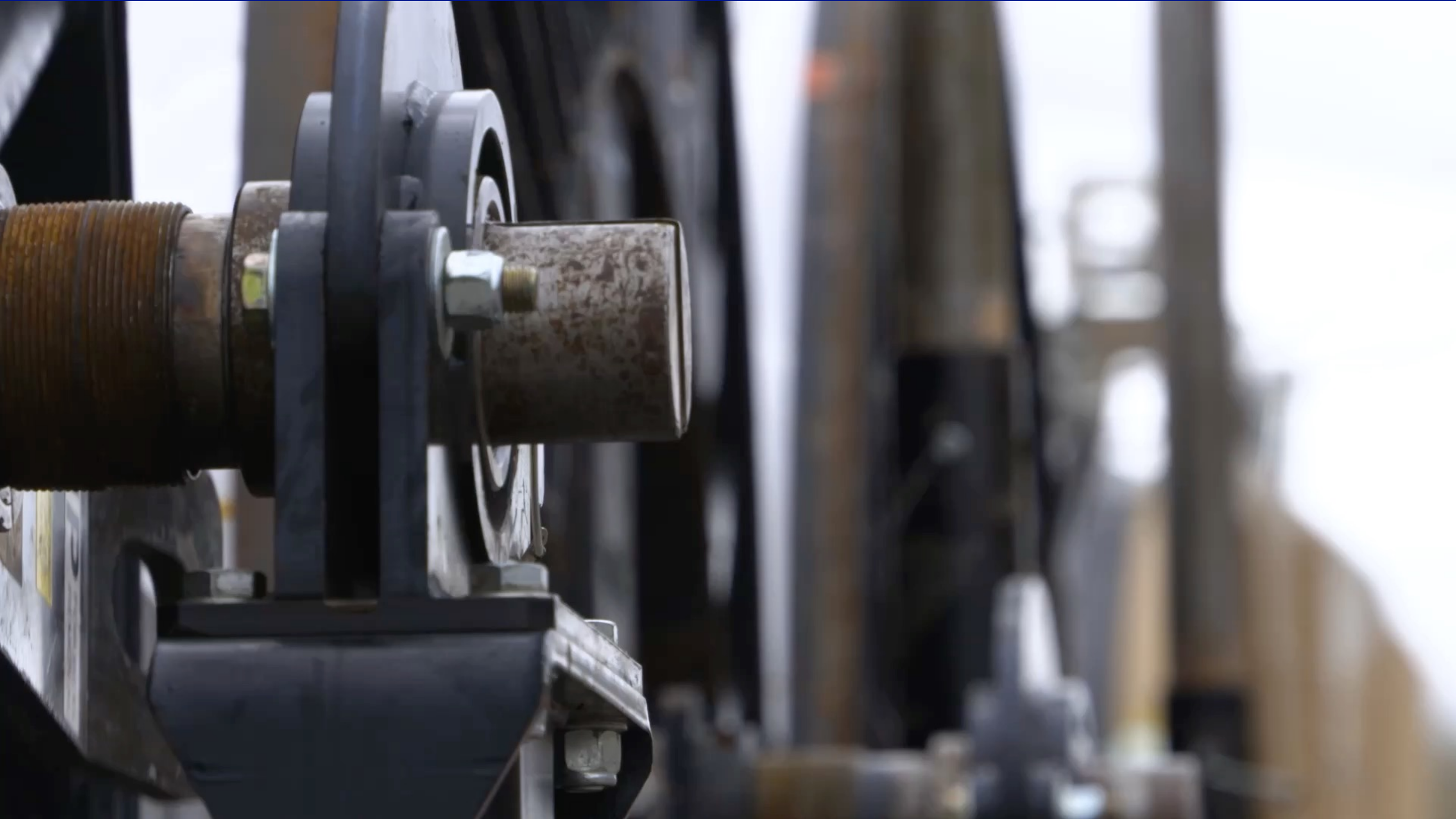
circuit-miles upgraded to
operate at **345K volts**

❖ **600+**

steel structures installed

❖ **1M+**

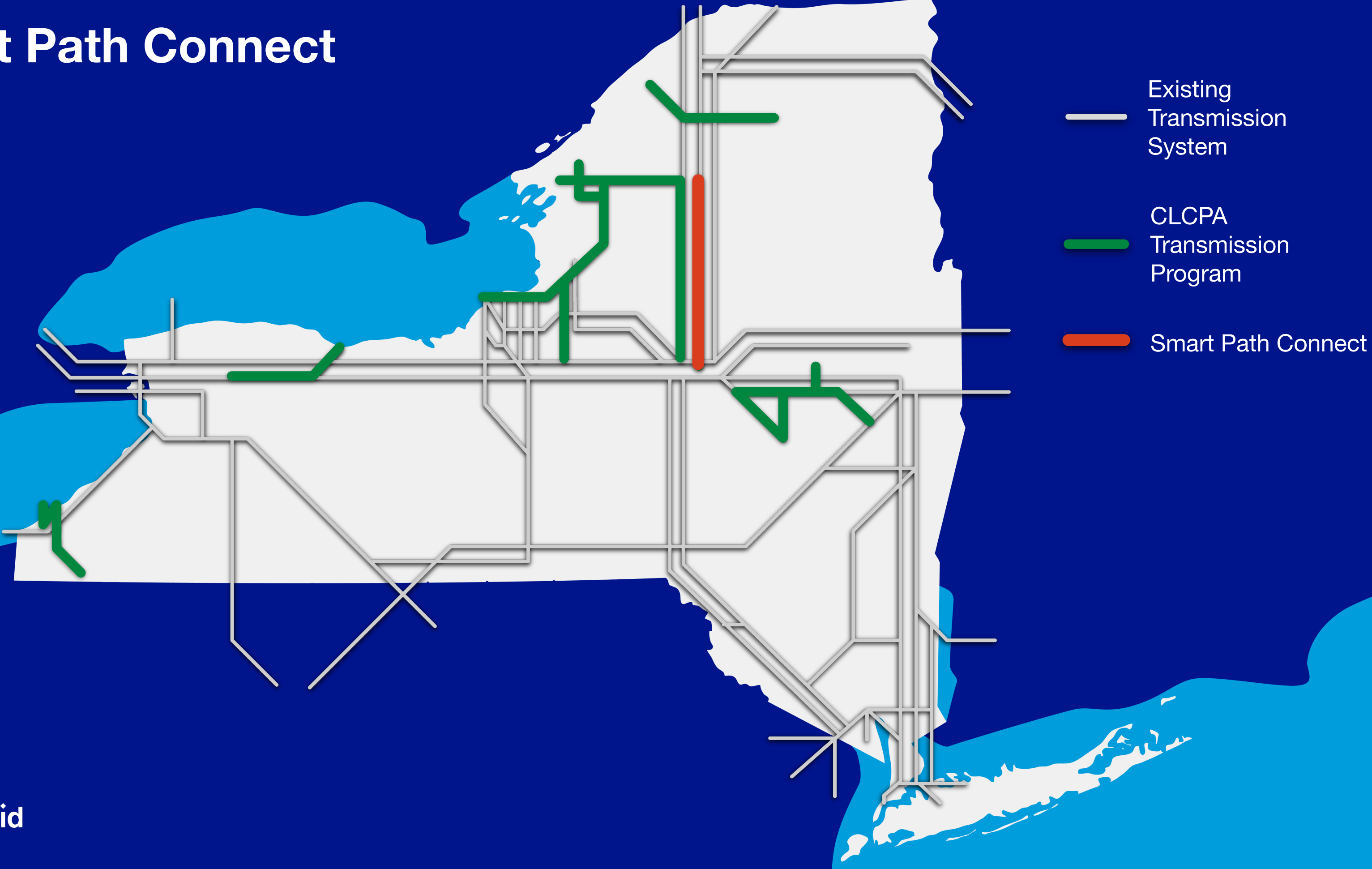
man-hours worked



We evolved our **execution model** to deliver **Smart Path Connect**

- ❖ **Partnership** with Burns and McDonnell
- ❖ **Strategic approach** to resourcing & supply chain
- ❖ **Stakeholder engagement** leveraging local know-how

Smart Path Connect



CLCPA Local Transmission

- The **CLCPA program** will rebuild and revitalize large segments of our “local” transmission system across Upstate.

These projects are broken into two phases:

1

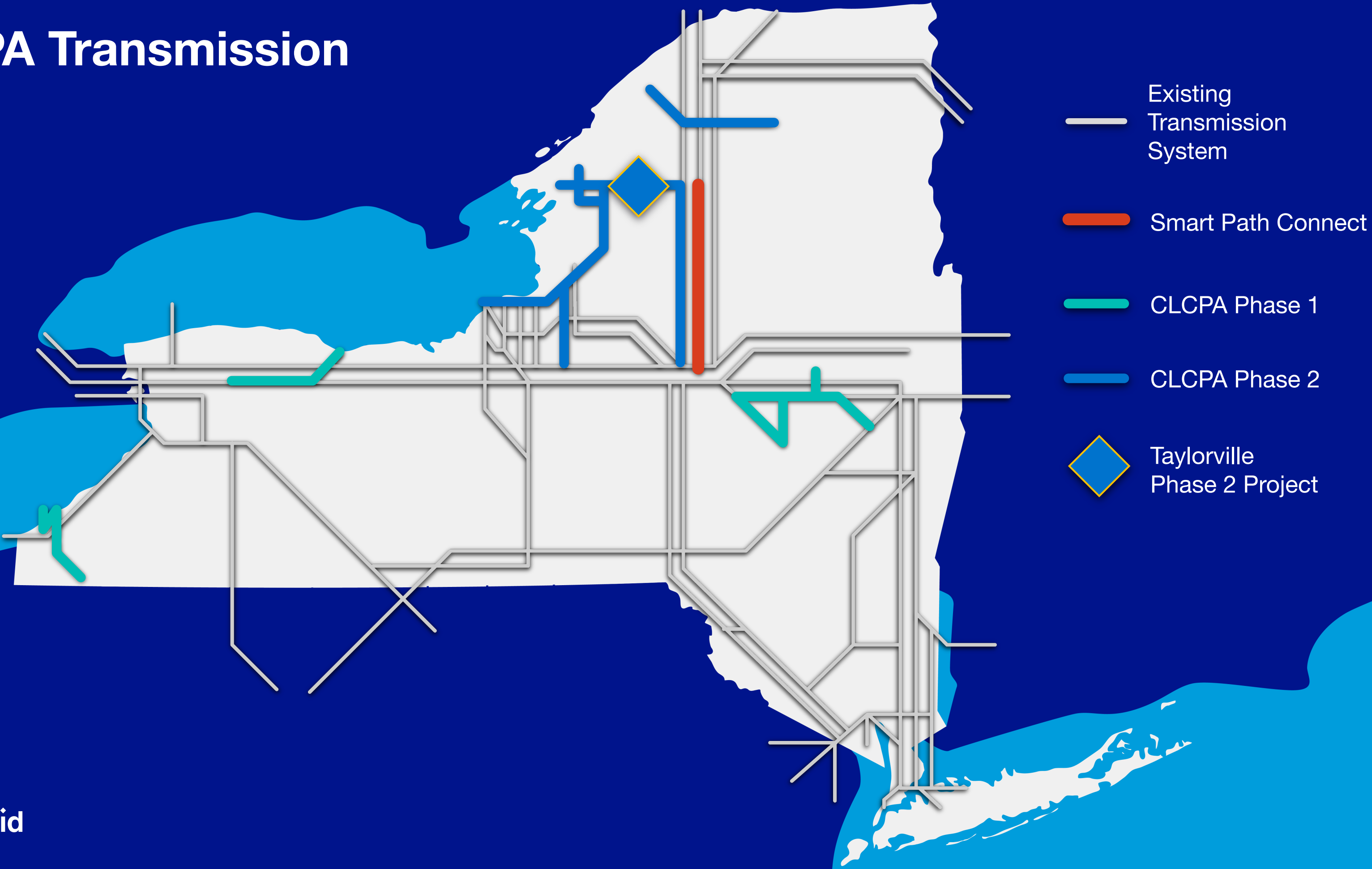
Pre-existing asset condition needs

2

Targeted upgrades to “unbottle” generation



CLCPA Transmission





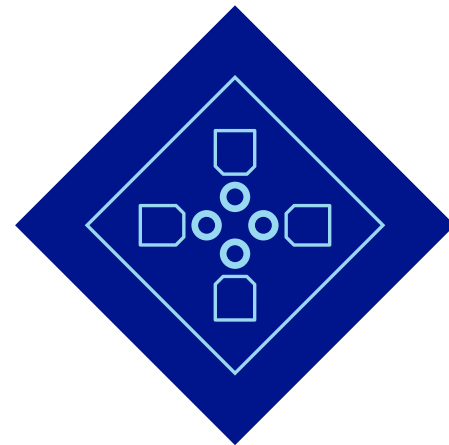
CLCPA Local Transmission

Phase 1 and Phase 2

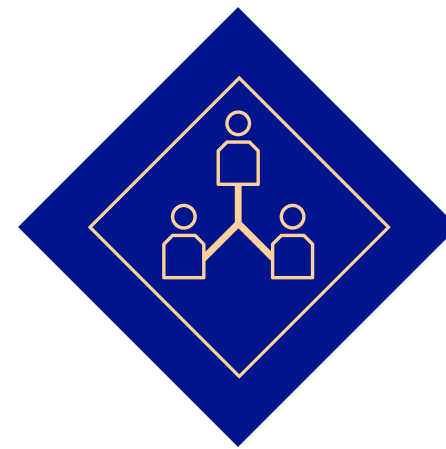
How we'll deliver the CLCPA Program by 2030:



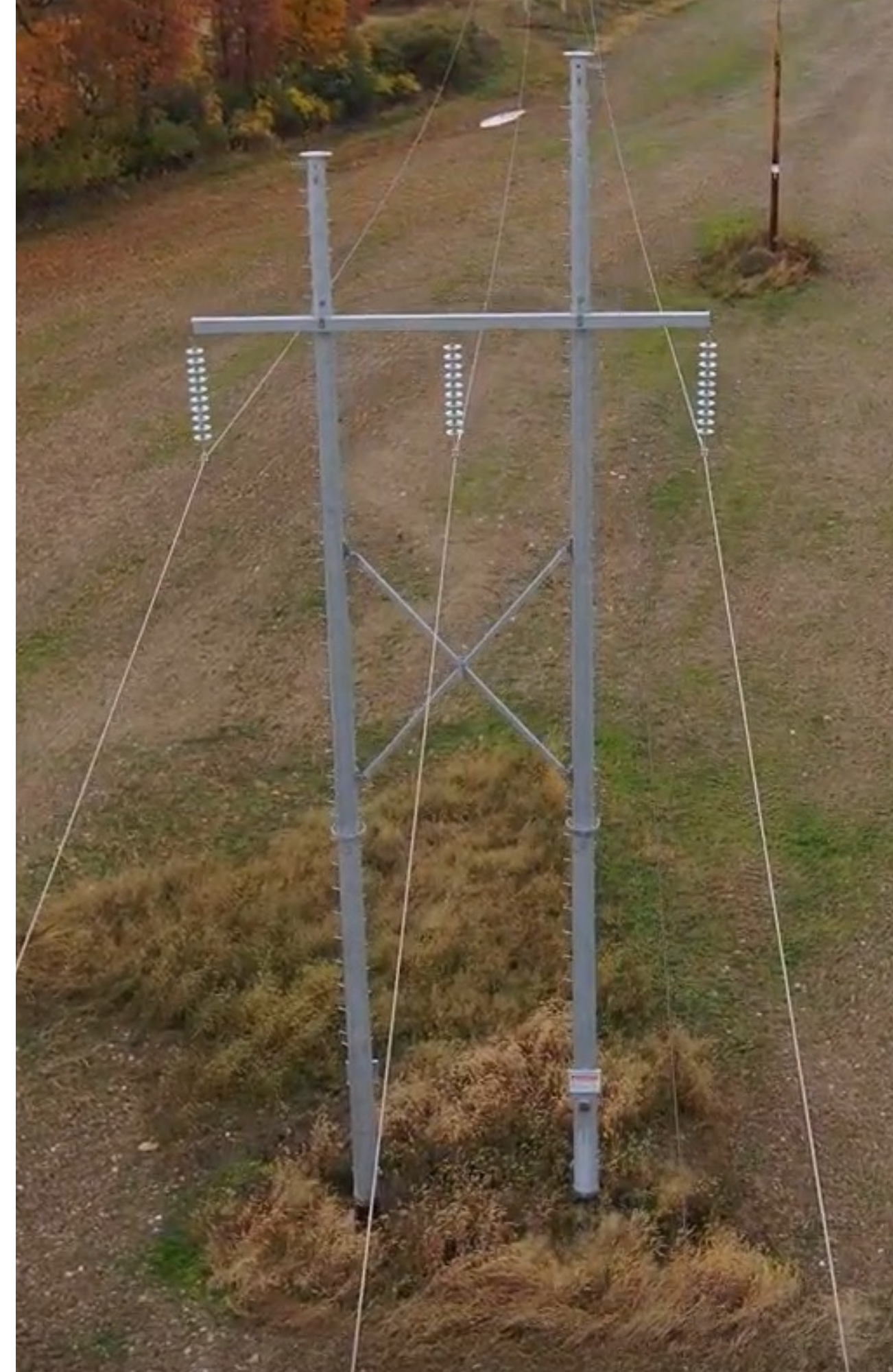
Partnerships



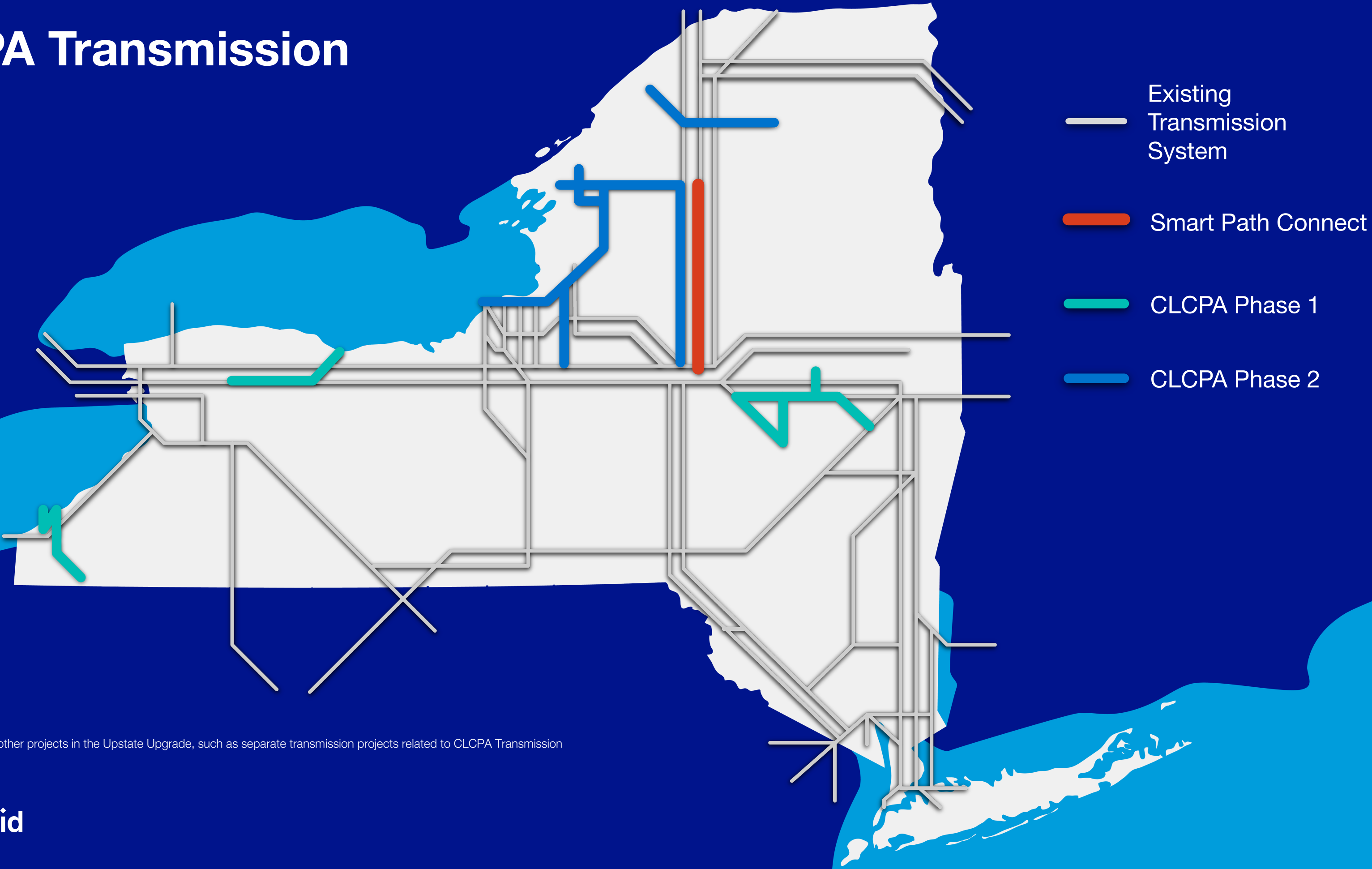
Strategic Approach
to Resourcing and
Supply Chain



Stakeholder
Engagement

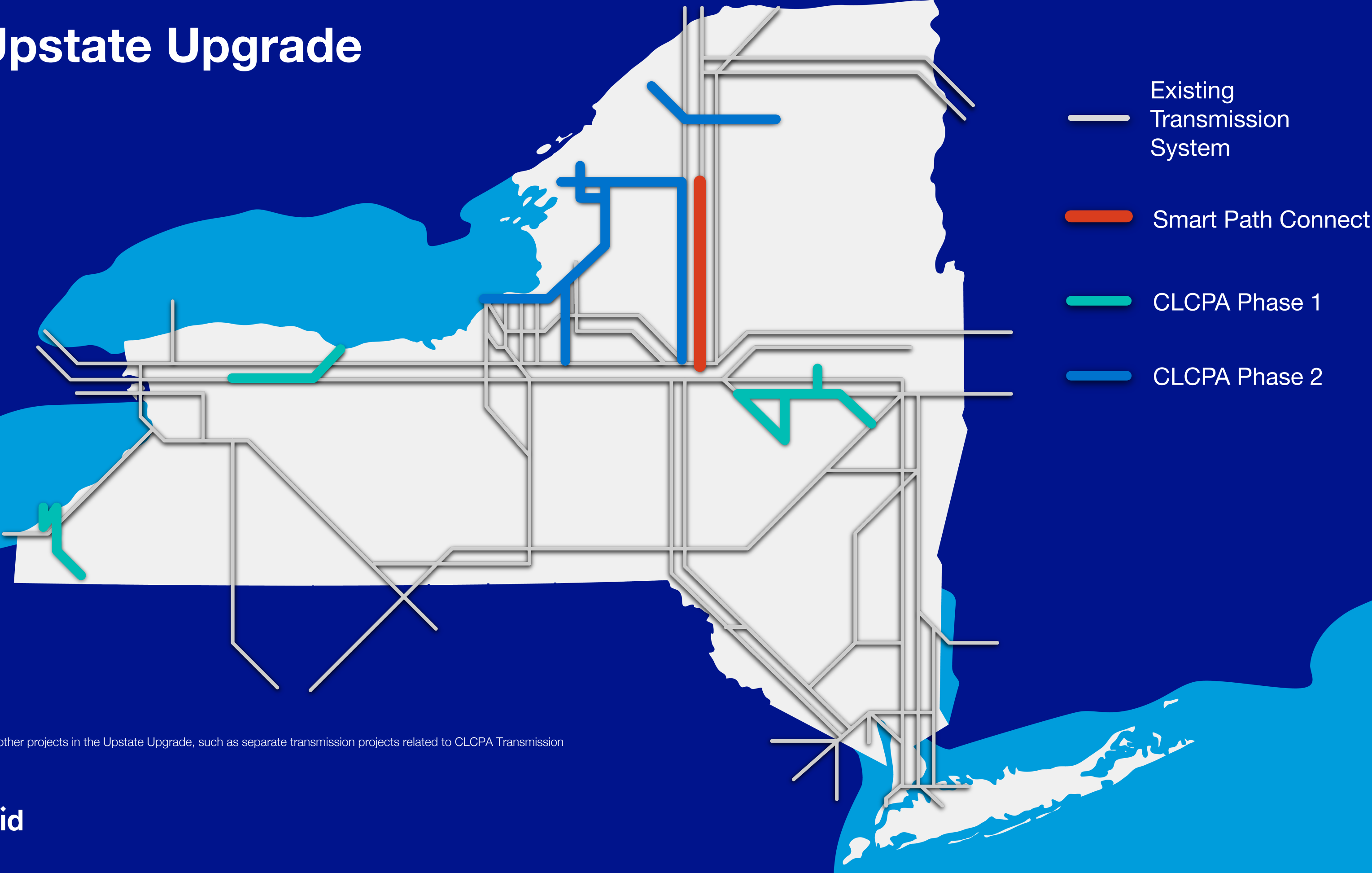


CLCPA Transmission



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The Upstate Upgrade



The Upstate Upgrade will be a key driver of New York's investment growth



\$4Bn

Total investment from the **Upstate Upgrade**

How we'll recover that investment:

Statewide Cost-Share

- Smart Path Connect
- CLCPA Phase 2

NiMo Rate Case

- CLCPA Phase 1
- Other Transmission Projects

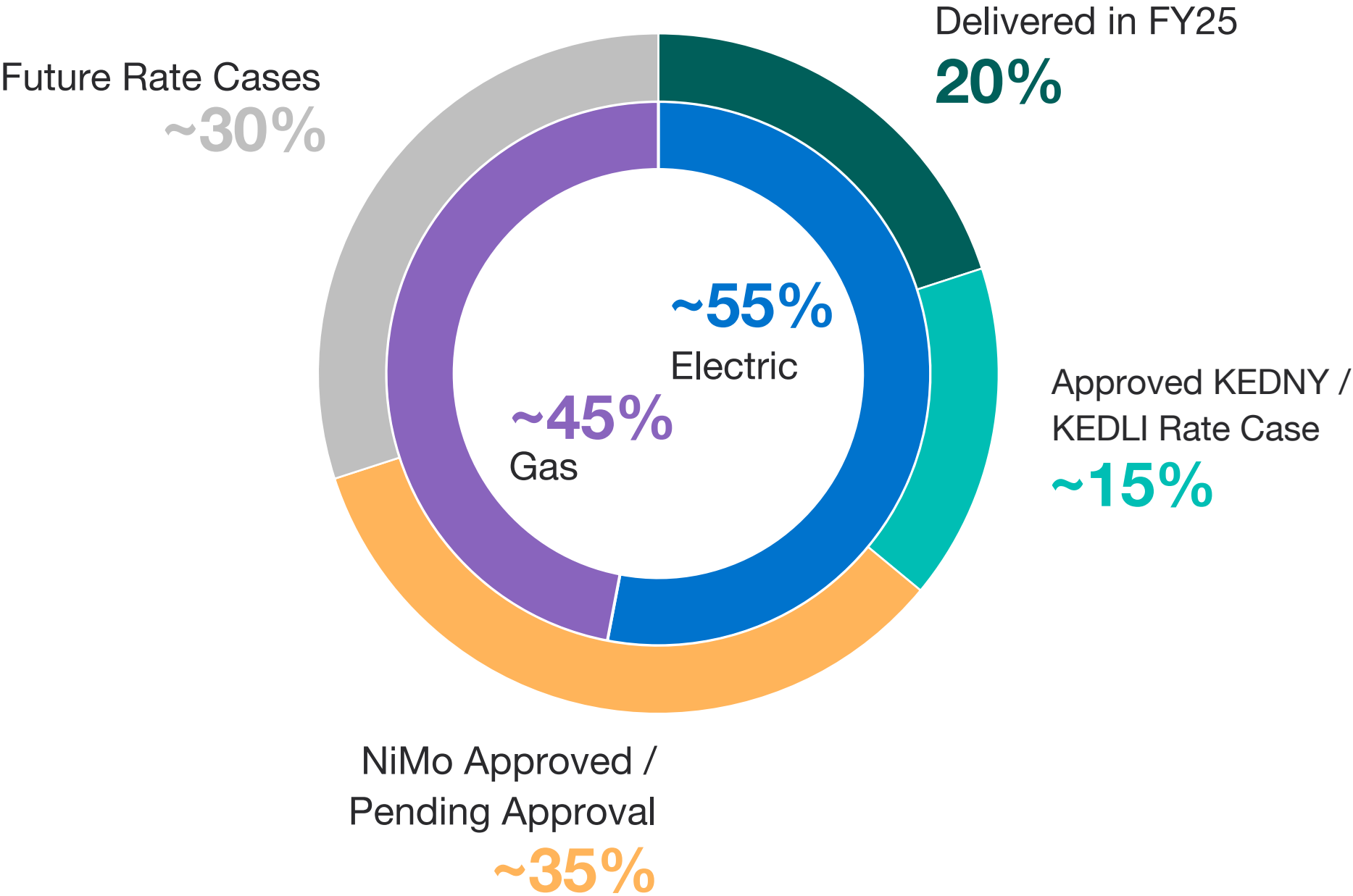
The NiMo rate case received critical stakeholder support

Signatory support for the NiMo Joint Proposal includes:



Our New York business is set up to deliver our five-year capital commitments

New York Capex Over FY25-FY29 Contributes Almost 30% of the Five-Year Framework





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