

OUR MISSION

**Lead the transition to a carbon-free,
economically vibrant New York** through
customer partnerships, innovative energy solutions,
and the responsible supply of affordable, clean and
reliable electricity.



New York State has challenged itself to go after big decarbonization targets...

100%

Zero-carbon electricity by 2040

40%

Reduction in GHG emissions by 2030

9 GW

Offshore wind by 2035

3 GW

Storage by 2030 (15GW by 2040)

35%

Benefits to disadvantaged communities

70%

Renewable energy generation by 2030

85%

Reduction in GHG emissions by 2050

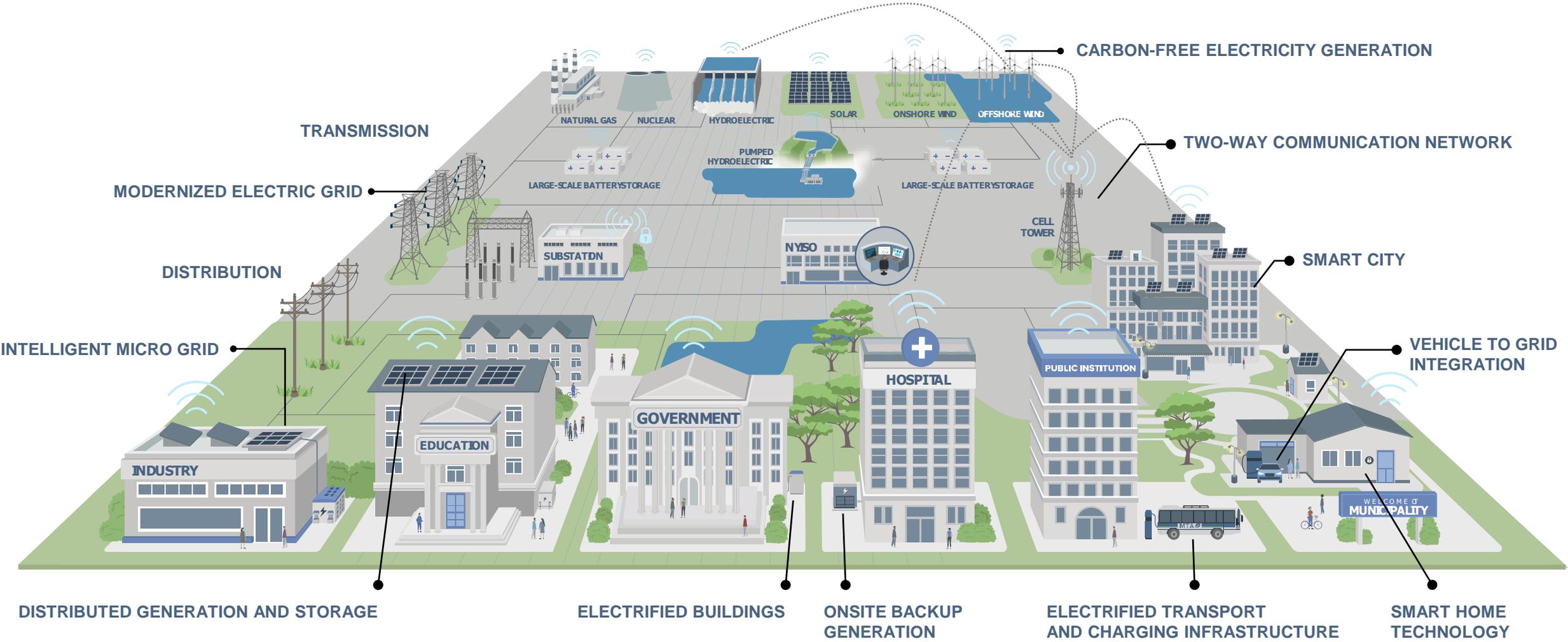
6 GW

Distributed solar by 2025

185_{TBTU}

Energy consumption savings by 2025

We envision that New York State's grid of the future accommodates many functionalities



The future grid will be...

...more distributed

...more complex

...less controllable

NYPA VISION 2030

STRATEGIC PRIORITIES



Preserve and enhance the value of our hydropower assets



Pioneer the path to decarbonization while ensuring reliability, resilience, and affordability



Partner with our customers and the state to meet their energy goals



Be the leading transmission developer, owner, and operator for New York State



Repurpose the New York Canal System while driving operational efficiency

FOUNDATIONAL PILLARS

Digitization



Environmental, Social, and Governance



Diversity, Equity, and Inclusion



Enterprise Resilience



Resource Alignment



1 Climate Leadership and Community Protection Act

ASSET MANAGEMENT AT NYPA IS:

- Leveraging technology and data to better monitor asset performance
- Shared decision-making informed by data
- A focus on continual improvement
- Optimizing customer value

**NYPA supports the ISO 55001
standard for generation and
transmission**

ASSET SAVVY

Policy Implementation

NYPA will make decisions based on a **fiscally prudent**, whole-life value Asset Management approach, to optimize the **performance, cost** (capital and operating), and **risk** of the assets throughout their lifecycle, while ensuring **safety, reliability, resilience, environmental**, and **regulatory compliance** to support achievement of customer, stakeholder, New York State, and organizational goals.



ASSET SAVVY

Issues • Actions • Results

culture noun

cul-ture | \ 'kəl-çər ④ \

Definition of *culture* (Entry 1 of 2)

- a** : the customary beliefs, social forms, and material traits of a racial, religious, or social group
also : the characteristic features of everyday existence (such as diversions or a way of life) shared by people in a place or time
// popular culture
// Southern culture
- b** : the set of shared attitudes, values, goals, and practices that characterizes an institution or organization
// a corporate culture focused on the bottom line
- c** : the set of values, conventions, or social practices associated with a particular field, activity, or societal characteristic
// studying the effect of computers on print culture
// Changing the culture of materialism will take time ...
— Peggy O'Mara
- d** : the integrated pattern of human knowledge, belief, and behavior that depends upon the capacity for learning and transmitting knowledge to succeeding generations



culture verb

cultured; culturing | \ 'kəlç-rɪŋ ④, 'kəl-çə-\

Definition of *culture* (Entry 2 of 2)

transitive verb

- : CULTIVATE
- a** : to grow in a prepared medium
// culture microorganisms
- b** : to start a culture from (see CULTURE entry 1 sense 3)
// culture soil

ASSET SAVVY

Issues • Actions • Results



COLLABORATION AT THE SPEED OF TRUST

ASSET SAVVY

Issues • Actions • Results



A Message From Joe Kessler

Dear Colleagues,

It is my honor to welcome you to the inaugural issue of the *Asset Savvy* Newsletter, a quarterly publication to keep you abreast of our journey toward becoming the first end-to-end digital utility in the nation. *Asset Savvy* is our approach to applying techniques and technologies that make optimal use of our generation and transmission holdings. Each issue will bring a mix of stories from around Utility Operations that showcase what you and your colleagues are doing to bring the *Asset Savvy* mindset to life.

Our digitization efforts are rooted in our pursuit of three strategic pillars: Innovation, Cost Leadership and Customer Success. All told, these are bold but achievable goals that will require involvement from each and every employee. Being *Asset Savvy* is our vehicle to getting there; hence, it is important that we recognize the many *Asset Savvy* efforts occurring across our organization.

In our very first *Asset Savvy* Newsletter, you will read about some of the projects, programs and employees that embody what it is to be *Asset Savvy*. These include everything from our deployment of unmanned aircraft systems to the implementation of a grid asset performance management program that uses analytics to monitor the long-term health of transmission assets, to two NYPA engineers who oversaw projects that change the way teams approach troubleshooting and problem solving.

There's no question that our assets are NYPA's bread and butter. That is why it is important that we be *Asset Savvy* in everything we do. We are proud to share our achievements and hope this newsletter serves to inspire you to continue the amazing work that you and your teams are doing every day.

Sincerely,

Joseph F. Kessler
EVP & COO Utility Operations
New York Power Authority



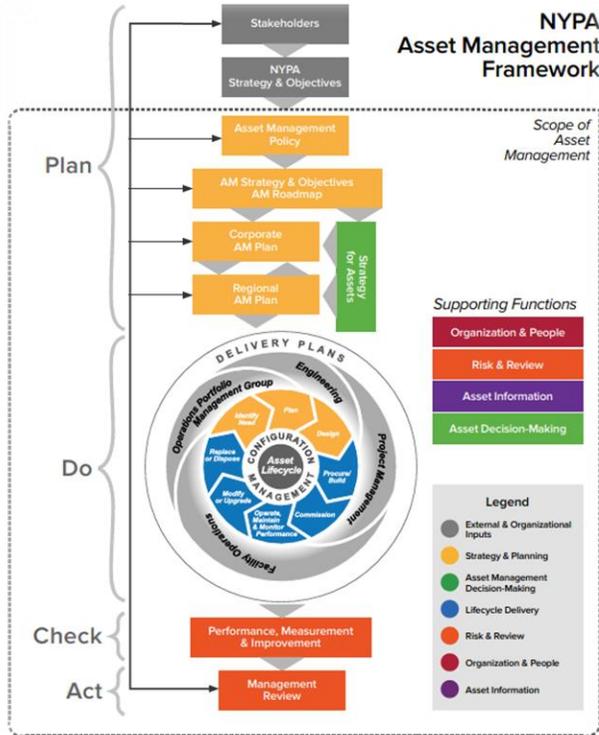
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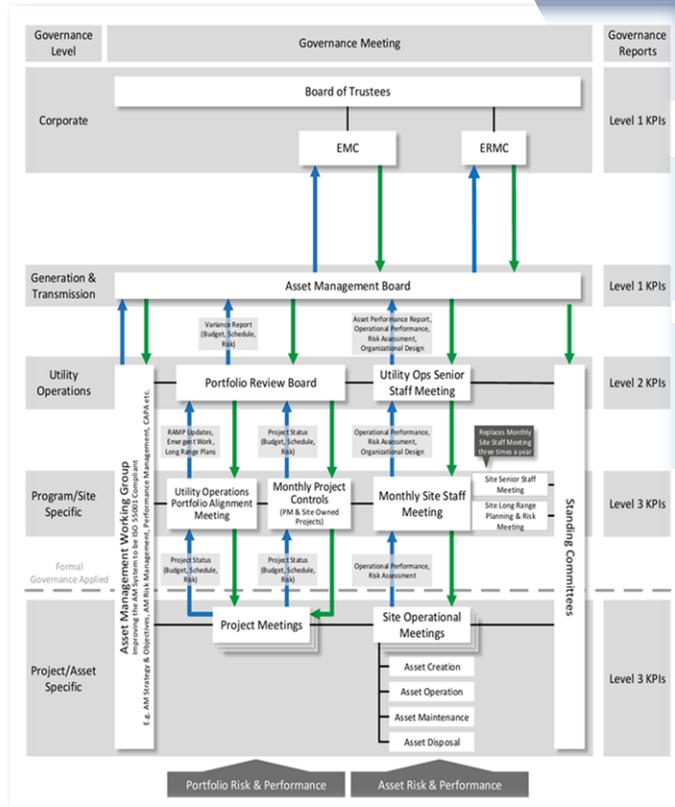
Issues • Actions • Results

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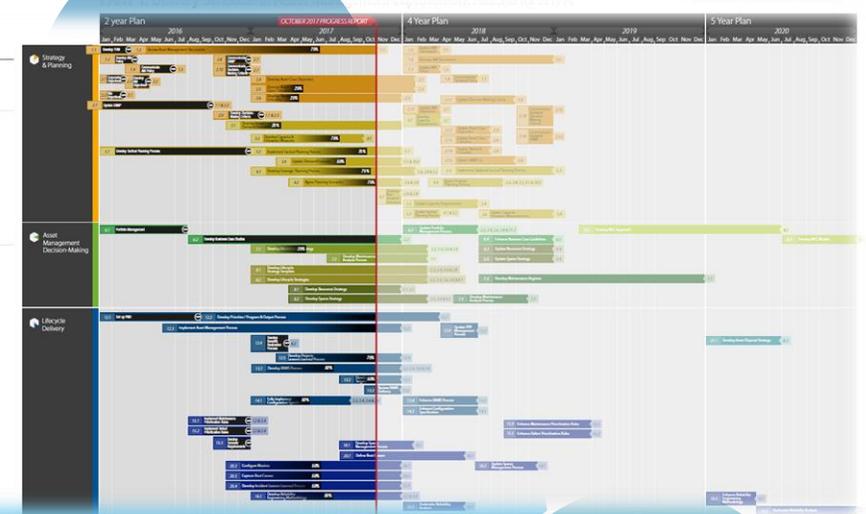
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Asset Management



STRATEGY



NEW YORK STATE OF AUTHORITY

Task	Start	End	Owner	Progress
NYPA ISO 55001 Certification	4/1/19	12/31/19	Regional Manager	0%
Improve the AM System to be ISO 55001 Compliant	3/21/19	12/25/19	Regional Manager	0%
Identify and document approach to management of various categories of Action Items (CI)	3/21/19	10/2/19	Liu	0%
Resources, Roles & Responsibilities	4/0	3/21/19	12/25/19	0%
Prepare to answer Q around planning and strategy for resource management	3/21/19	3/1/19	Regional Manager	0%
Develop a NYPA wide Framework / Approach for resource Management (CI)	3/21/19	12/25/19	Yager	0%
It is not entirely clear "HOW" the leadership team ensures the necessary resources are available for the AM system - provide clearer evidence	3/21/19	9/4/19	DeSilva,Yager	0%
Competence	43.4	3/23/19	1/20/20	0%
Complete Mosaic Business Process	4	3/21/19	4/17/19	0%
Host workshops and Update Job Descriptions by role to include AM competencies (expand 65 JO)	40	3/21/19	12/25/19	0%
Prepare to answer Audit Q on how tech competency for I&C and substation workers are validated	6	3/21/19	3/1/19	0%
Identify Approach to Validate/Test technical competency for I&C and substation workers (CI)	40	3/21/19	12/25/19	0%
Meet with Labor relations to create a process for validation of competencies or interviews as craft progress up the chain (CI)	40	3/21/19	12/25/19	0%

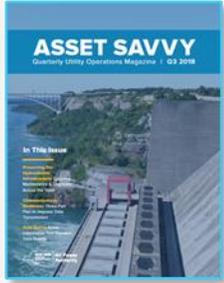
ASSET MANAGEMENT WORKING GROUP



ASSET SAVVY

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MULTI-CHANNEL COMMUNICATIONS



ASSET SAVVY

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1. Asset Management Improves Our Work



3. Applying Asset Management Strategy & Planning to Your Daily Work



5. Everyone Has a Role in Guiding Our Decision Making



7. Asset Info Systems a

To make the right management decisions, you need to manage your asset. Along with there are a number of information systems to maintain, and make accessible asset data.

2. The Asset Management Framework Uses a Plan-Do-Check-Act Model



4. Asset Management Prepares Our Teams to Tackle Any Challenge by...



6. How We Optimize the Lifecycle of Our Assets



8. Managing



QUESTIONS? FEEDBACK? CONTACT ASSETSAVVY@NYPA.GOV



Certificate of Conformance

This is to certify that the Asset Management System of:
New York Power Authority
123 Main Street
White Plains, NY 10601-3170

*Is in conformance with the requirements specified within
the following Asset Management Standard:*
ISO55001: 2014

The scope of the Asset Management System is applicable to:
New York Power Authority's Transmission and Generation Assets

- Hydro Generating Units
 - Robert Moses Niagara Power Project
 - Lewiston Pump Generating Plant
 - St. Lawrence-FDR Power Project
 - Blenheim Gilboa Pumped Storage Project
 - Small Hydro Projects
- Fossil Generating Units
 - Eugene W. Zeltmann Combined Cycle Power Plant
 - Richard M. Flynn Power Plant
 - Small Clean Power Plants
- Transmission Assets
 - Overhead Transmission Infrastructure
 - Transmission Switchgear
 - Transmission Transformers
 - Transmission Switchyards
 - Transmission Protection/Control

Certificate number: EA1908001
Certification decision: 7th August 2019
Effective date: 12th August 2019
Certificate expiry: 11th August 2022

Signed for EA Technology

Andrew McHarrie
Head of Asset Management and Power System Studies

Issued by
EA Technology Limited
Copenhurst Technology Park
Copenhurst, Chester CH1 6ES



Certificate of Conformance



ASSET SAVVY

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WHY MAXIMO?

Maximo allows us to store, organize, track and evaluate large amounts of asset maintenance information, creating a defined workflow for both record keeping and informing smart business decisions



Building a digital utility database

architecture for all available data.

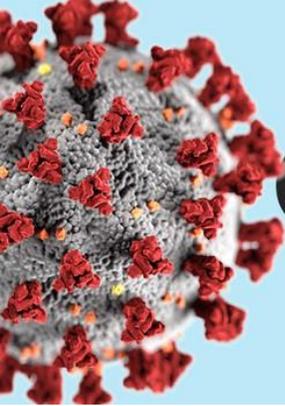
02 DATA COLLECTION

Sensors collect data on asset health and performance, such as time, speed, temperatures, pressure, status, etc.

01 SENSOR INSTALLATION

New York Power Authority (NYPA) is installing sensors on generating assets, such as the generator turbine at left, and transmission assets, such as the substation at right, across all facilities.





COVID-19

CORONAVIRUS PANDEMIC

ASSET MANAGEMENT SUPPORTING PANDEMIC RESPONSE



Prioritized



Agile



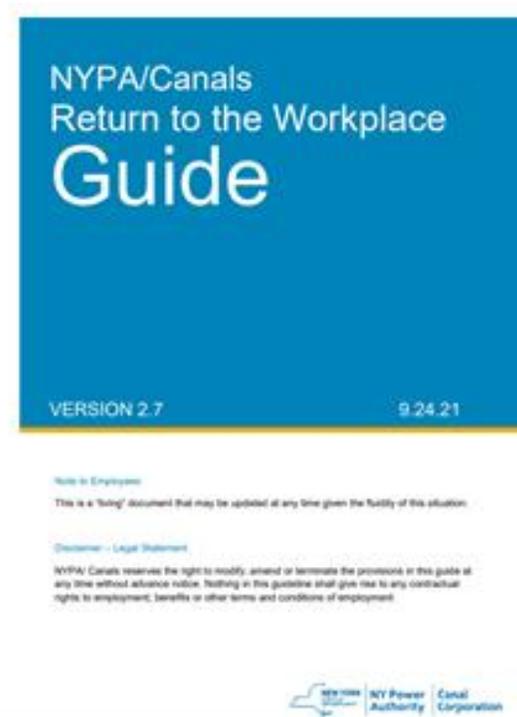
Coordinated



Resilient



Clear and streamlined communication



The Incident Command Structure, in late March, in the White Plains Office, directing NYPA's emergency response to the pandemic. Shortly afterward, the ICS began meeting virtually.



Several of our mission-critical sequestered employees at the Blenheim-Gilboa project in early May



Ricardo da Silva
 Vice President – Strategic Operations
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 White Plains, NY 10601

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