

A wide-angle photograph of the New York City skyline at sunset. The sky is a mix of orange, yellow, and blue. The city lights are beginning to glow, and the water of the harbor is visible in the distance.

**CASE STUDY:
New York Power Authority**

Enterprise Energy Management Platform State Portfolio



**NY Power
Authority**



Energy Management for the State

EXECUTIVE SUMMARY

The New York Power Authority chose **Talisen's Enterprise Sustainability Platform (ESP)** as the underlying technology for New York Energy Manager (NYEM). This is the State's first energy manager network operations center that is viewed as a comprehensive network and decision tool that utilizes Big Data analytics to monitor and troubleshoot buildings to reduce energy waste.

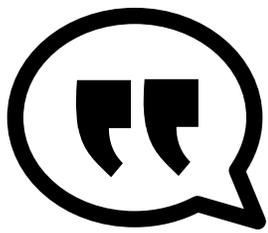
NYEM will be used to ensure Governor Andrew Cuomo's Executive Order 88 to reduce energy consumption across all state buildings by 20% by the year 2020. This will be an opportunity to see real reductions in energy consumption and provide the State with considerable cost savings.

CHALLENGE

Support Governor Cuomo's Executive Order 88 - mandating 20% improvement in energy performance of State government buildings over seven years by April 2020.

Also provide access to secure, comprehensive energy management reporting for 3,000+ public buildings, with the potential to serve many more facilities.

- Improve energy management and operations of State facilities
- Drive down government operating expenses and save taxpayers money
- Reduce greenhouse gas emissions
- Create jobs in the emerging green economy



Client Testimonial

"Talisen's ESP is the system of record for reporting progress toward Governor Cuomo's Executive Order 88, mandating all in State-owned and managed buildings reduce the average EUI by at least 20% by the year 2020. With state public facilities getting real-time data on their energy use, they can improve building energy performance and lower the State's utility bills. By knowing more, we can do more."

- Gil Quiniones, President, CEO NYPA

SOLUTION

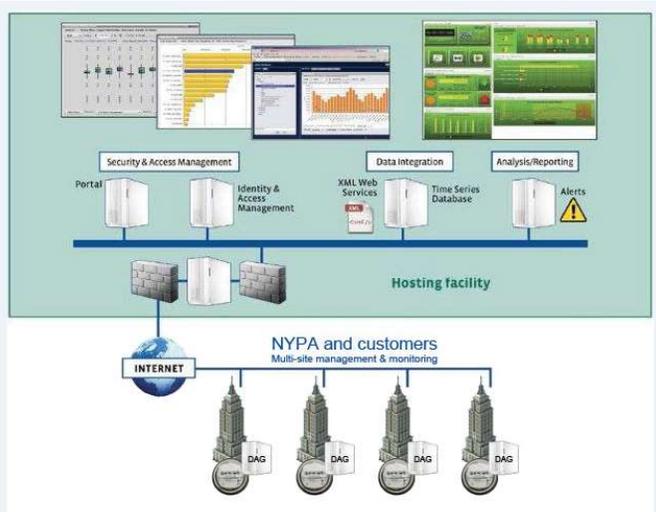
ENERGY MANAGEMENT TECHNOLOGY: Talisen's Enterprise Sustainability Platform (ESP) is the underlying technology for the New York Energy Manager (NYEM). With State public facilities getting real-time data on their energy use, they can improve building energy performance and lower the State's utility bills. Basically, it will be like performing an MRI on a facility and getting an incredibly detailed report about how it consumes energy.

By integrating energy data from facility sub-meters and local utilities, building engineers will rapidly diagnose equipment problems and take appropriate actions to reduce energy consumption in a timely manner.

With Big Data analytics provided by NYEM, government building operators will be better informed when making real-time energy management decisions and planning for future changes in energy use. Peering into the future, it's expected that the NYEM technology will eventually be utilized by the private sector in its energy planning activities.

ESP Statistics

- 226M+ Sq. Ft.
- 4,690+ Meter Points
- 3,500+ Buildings
- 89,500+ Utility Bills

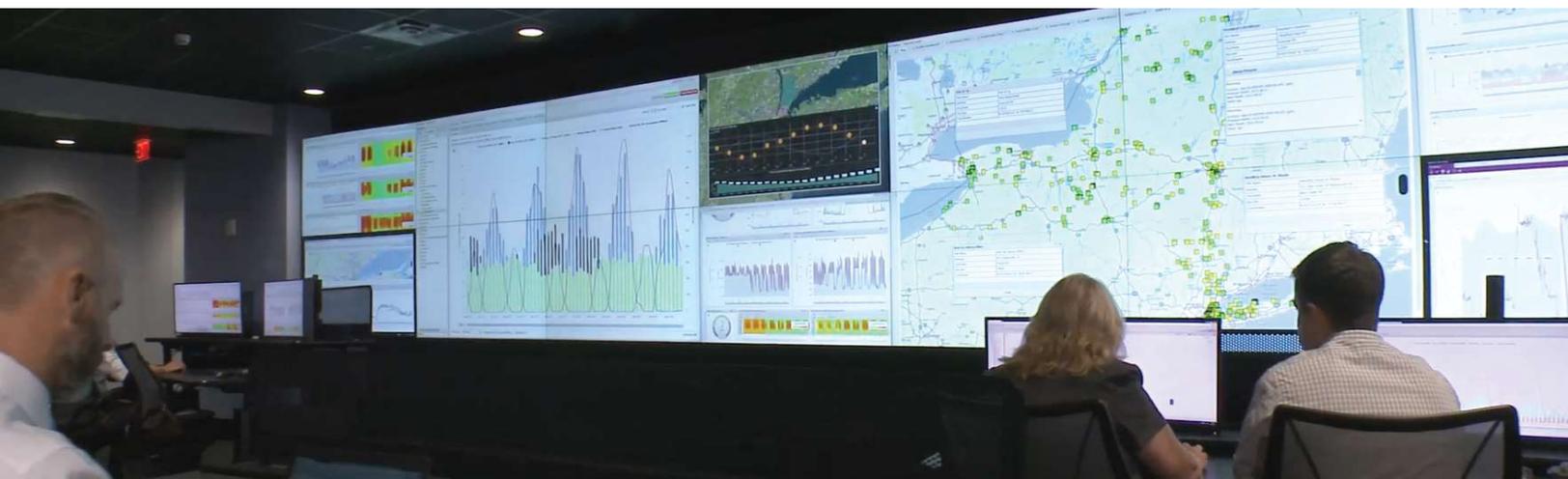


NYEM provides an important vehicle for implementing one of Governor Cuomo's main energy objectives, BuildSmart NY, to reduce energy consumption by 20% in State government facilities by 2020. NYEM also creates an important set of tools for supporting a fundamental shift in the utility business. Governor Cuomo's Reforming Energy Vision (REV) is about changing utility regulations to enable renewable energy and building energy efficiency to be economically favorable for utilities and customers.

Under REV, reduced energy demand and consumption in buildings will be a valuable commodity to be bought and sold, and NY Energy Manager will provide the precise insight building operators need to take advantage of these opportunities.

RESULTS

- ✓ **9.04% change** in Adjusted Source EUI from baseline fiscal year 2011 and 2013 fiscal year
- ✓ Green Button Compliance Initiative
- ✓ Integrated with Siemens, Andover, Obvious, Schneider and Energy CAP
- ✓ **BuildSmartNY's system of record** for all energy information and reporting
- ✓ Actionable information, operational benchmarking, continuous commissioning (CCX), demand response reporting





Talisen Technologies, Inc. was founded in 1991 and is a privately owned business that empowers organizations to achieve their goals through strategic enterprise-wide solutions. Headquartered in St. Louis, Missouri, Talisen is a certified Minority Business Enterprise (MBE) and an SBA Small Disadvantaged Business (SDB) and houses a Class-A Network Operations Center. Talisen has been providing expertise in energy efficiency management, facility management and aerospace and defense supply chain integration for over a decade.

Talisen currently provides ESP software and services to seventeen (17) major clients across the United States and the United Arab Emirates. With its data analytic capabilities, utility bill management tools, and fault detection and diagnosis engine, ESP provides users the ability to: monitor utility usage and cost information, establish baseline facility performance, provide automated data analysis, and perform Measurement and Verification (M&V) for tracking energy conservation measures.

To learn more about Talisen, please visit our website at <http://www.talisentech.com>.

