

\$1.6 billion clean energy infrastructure investment to extend operating life of flagship Niagara Power Project

Secure hydropower's 'integral role in state's transition to a robust clean energy economy'

During Climate Week, Gov. Kathy Hochul on Wednesday announced completion of a \$460 million modernization and life extension effort at the New York Power Authority's Lewiston Pump Generating Plant, and the digitization of the first of 13 hydropower turbines at the Robert Moses Niagara Power Plant.

The digitization is the first major milestone of "Next Generation Niagara," a \$1.1 billion, 15-year modernization and digitization program to significantly extend the operating life of the Niagara Power Project. Together, these projects represent nearly \$1.6 billion of clean energy infrastructure investments at the Niagara Power Project that will help advance New York state's aggressive clean energy goal to transition to 100% carbon-free electricity by 2040.

Hochul visited the Robert Moses plant to tour the upgrades and digitization efforts.

"Taking bold steps in the fight against climate change has never been more important, and New York state is prepared to lead the way forward taking advantage of carbon-free sources of energy," she said. "By digitizing and modernizing our Niagara Power Project – one of the largest sources of clean energy in the country – we're ensuring that it will continue to power our economy for years to come. This project holds up New York as a shining example of what it takes to modernize and upgrade a large, complex generation resource."

The multiyear clean energy infrastructure upgrade projects reinforce the Niagara Power Project's role as a foundational clean energy resource that will provide the reliability, flexibility and resiliency needed to advance the state's nation-leading Climate Leadership and Community Protection Act goals.

The Robert Moses and Lewiston Pump Generating plants, which together comprise the Niagara Power Project, have a combined net dependable capability of 2,675 megawatts, making the Niagara Power Project the largest generating facility in the state – and one of the largest in the country. One MW is enough electricity to meet the power needs of 800 to 1,000 typical homes.

The Lewiston Pump Generating Plant and Robert Moses Power Plant improvements include replacing aging equipment with the latest machinery reflecting advanced digital technologies for optimizing the hydroelectric project's performance. A press release noted, "The projects will secure the combined plant's long-term future as a clean power generator that spurs economic development in Western New York and across the state through its low-cost power allocation programs, including New York's ReChargeNY program. The Niagara Project, through these programs, directly supports more than 200,000 jobs and \$13 billion in capital investments."

NYPA Chairman John R. Koelmel said, "As we look for ways to rebuild the economy and recover from the COVID-19 pandemic, this modernization and digitization project allows NYPA to continue

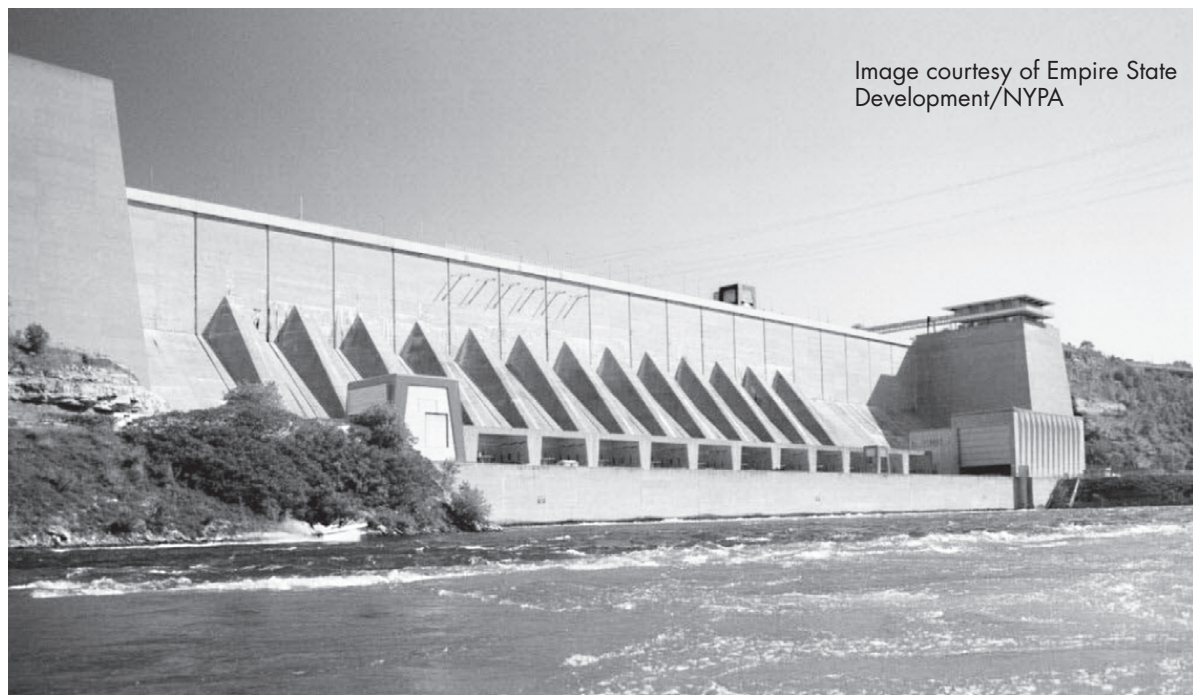


Image courtesy of Empire State Development/NYPA

to generate clean energy, provide low-cost power to job-producing companies and accelerate New York's journey toward a clean energy future. Historians will look back on the work we are doing to transform the Niagara Power Project as a pivotal moment in New York's move to decarbonize its energy grid."

NYPA President and CEO Gil C. Quinones said, "Congratulations to the team at the Niagara Power Project on advancing these milestones in this monumental clean energy infrastructure investment. Against the backdrop of a pandemic, and numerous other challenges, this is an extraordinary accomplishment. The careful, collaborative work to upgrade both of the plants that comprise the Niagara Power Project is an integral part of a multiyear effort to transform New York's energy system."

Lewiston Pump Generating Plant Life Extension and Modernization Complete

A now-complete 10-year, \$460 million life extension and modernization of the Lewiston Pump Generating Plant (LPGP), which began in 2012, included the replacement of the facility's 12 pump-turbines and its generator step-up transformers, which date back to 1961 when the Niagara plant first went into service. Overhaul work on all 12 turbines was completed in August.

LPGP provides clean hydropower during periods of peak power demand, supplementing the output of the Robert Moses Niagara Power Plant, the main generating facility at the Niagara Power Project. The work that concluded at the LPGP involved the replacement of one pump-turbine every eight to nine months, ensuring 11 of the 12 LPGP turbine units were available for operation during the upgrade so NYPA could meet commitments to its power customers. The plant also services municipalities and rural electric cooperatives across the state.

Hochul celebrated the life extension and modernization project's midpoint at an event at the plant in 2017.

'Next Gen' First Turbine Digitized

Launched in July 2019, "Next Generation Niagara" is a \$1.1 billion, 15-year modernization and digitization program to significantly extend the operating life of

the Robert Moses Niagara Power Plant in Lewiston. The recently completed installation of new digital controls on the first turbine generator unit included making corresponding digital connections to the facility's control room as part of the plant's overall control room upgrade and redesign, and to the plant's switchyard where Niagara's power is distributed across New York's transmission system. In the switchyard, workers installed digital controls on the transformers and circuit breakers corresponding to the upgraded turbine.

Work to digitize the first turbine unit, which began last November, is part of a design build contract NYPA trustees awarded to Burns and McDonnell and includes subcontracts to Emerson, a global provider of automation solutions; and Ferguson Electric of Buffalo.

In addition to digitizing the plant's generating units and building a new back-up control room, the "Next Generation Niagara" initiative encompasses a comprehensive inspection of the Robert Moses Plant's penstocks – the 485-foot-

long hollow pipes that are 24 feet in diameter along the face of the project that carry water from the forebay to the turbine generators; replacement of the 630-ton crane that enables mechanical work on the turbines; and the overhaul and/or replacement of mechanical components that have reached the end of their operating life.

A planned unit outage to digitize the next turbine generator unit control system as part of the multiyear #NextGenNiagara modernization and digitization project is expected to begin May 2022.

Senate Minority Leader Rob Ort said, "With this enormous investment into the Niagara Power Project, New York state and the New York Power Authority are demonstrating their commitment to Western New York residents, Western New York businesses, and Western New York energy. Our region and our state are blessed with one of the greatest natural sources of energy anywhere in the world, and our ability to harness that energy will allow us to continue providing local residents and businesses

with reliable, clean energy for years to come."

Assemblyman Angelo Morinello said, "The Niagara Power Project has been the standard-bearer for clean, renewable energy in New York state. The multiyear commitment to modernize, digitize and extend the operating life of this New York state asset will continue its importance in providing clean renewable energy far into the future. Thank you, Gov. Hochul, for your vision in championing the future of clean energy."

About NYPA

NYPA is the largest state public power organization in the nation, operating 16 generating facilities and more than 1,400 circuit-miles of transmission lines. More than 70% of the electricity NYPA produces is clean renewable hydropower. NYPA owns operates approximately one-third of New York's high-voltage power lines. These lines transmit power from NYPA's three large hydroelectric generation facilities, including its flagship Niagara plant, and from wind power generation facilities, connecting nearly 7,000 megawatts of renewable energy to New York state's power grid. This includes more than 6,200 megawatts of hydropower and approximately 700 megawatts – or more than a third – of New York state-generated wind energy.

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The Myth of Acid Indigestion

Fact: At least 90% of those suffering from "Acid Indigestion" and/or "Acid Reflux" are in reality suffering from too little stomach acid.

"How can this be?" you ask. "It feels like too much acid, and the TV commercials tell me it's too much acid."

Here's how it works: When you eat a meal, the stomach is designed to produce strong acid to begin the digestive process, especially of proteins. When there is too little stomach acid, the food sits too long in the stomach undigested, and begins to ferment and rot. **It is the acids of the fermenting and rotting food that cause the feeling of acid indigestion.**

Sufficient stomach acid is also the signal to the small intestine to open up, receive the stomach contents, and begin the next phase of digestion. When this signal is too weak, the stomach contents may try to escape in the other direction, causing the symptoms of **acid reflux.**

What happens when antacids are taken for this condition? It makes the symptoms stop and the problem worse. *Antacids stop the digestive process, and the partially digested, rotting food is forced through the rest of the digestive tract. Also, calcium and most other minerals cannot be absorbed, or proteins broken down without a strong acid medium in the stomach.* Antacids and acid stoppers create an alkaline condition in the stomach. As this condition continues, the digestive tract becomes weaker and weaker and more toxic, which can lead to more serious problems.

There are safe, natural and effective solutions to improve digestive health. Call 754-9039. Rose Chiropractic, P.C located at 435 Ridge St., Lewiston.

This article is not intended to diagnose, treat or cure any disease or to make any medical claims. It does not supplant competent medical care, or dissuade anyone from seeking competent medical attention for any injury, illness, or other physical condition.

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