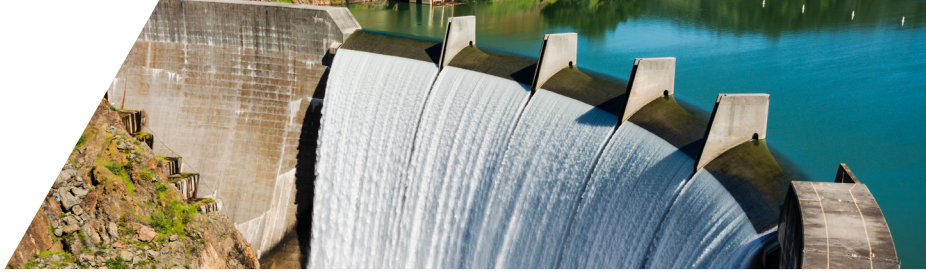
GRID DEPLOYMENT OFFICE



HYDROELECTRIC EFFICIENCY IMPROVEMENT INCENTIVES

Nine projects in the Mid-Atlantic region selected for incentives to enhance existing hydroelectric facilities

Supported by the Bipartisan Infrastructure Law (BIL), the U.S. Department of Energy's (DOE) Hydroelectric Incentives Program is authorized to provide a historic $750 million to help maintain and enhance existing hydroelectric facilities to ensure generators continue to provide clean electricity, while improving dam safety and reducing environmental impacts. Part of this program, the Hydroelectric Efficiency Improvement Incentives, expects to make nearly $71.5 million in incentive payments for owners or operators of existing hydroelectric facilities, including pumped storage hydropower, to support capital improvements that can improve their efficiency by at least 3%. In addition to increasing efficiency, projects receiving this incentive could also increase operational reliability, grid resiliency, electricity production, and dam safety, and provide environmental enhancements. Capital improvement projects under this incentive will sustain industry jobs, such as hydropower plant operators, electrical engineers, civil engineers, electricians, millwrights, mechanics, carpenters, concrete contractors, and hydropower equipment manufactures.

On February 2, 2024, DOE announced the selection of 46 hydroelectric projects across 19 states to receive Hydroelectric Energy Efficiency Improvement incentives. View full list of selectees.

Capital improvement projects in the Mid-Atlantic region will include:

- Upgrading generating units to increase reliability and efficiency of power production
- Installing trash racks and trash rake systems and other upgrades to improve pond management
- Upgrading automation controls leading to increased efficiency

Projects in this region will provide economic benefits including:

- Committing to hiring local workers or contractors
- Providing apprenticeship, pre-apprenticeship programs, and youth education to showcase the opportunities available in the clean energy workforce
- Over 70% of selectees already have contracts in place or have committed to a contractor preference, with Minority Business Enterprises, Minority Owned Businesses, Woman Owned Businesses, or Veteran Owned Businesses
- Over 75% of projects will benefit a disadvantaged community

Mid-Atlantic region by the numbers:

- **Projects:** 9 throughout New York and Pennsylvania
- **Total capacity:** 96.05 MW
- **Average efficiency increase:** 15.52%
- **Total incentive payments requested:** $12 million
- **Approximate jobs supported:** 90

February 2024

2024 Mid-Atlantic Region

Hydroelectric Efficiency Improvement Incentives selectees

- **Azure Mountain Power Hydroelectric Efficiency Improvements, Azure Mountain Power (AMP), St. Regis Falls, NY ($125,000 requested)** will refurbish two vertical-shaft generators that were built in 1912 and 1922, replace trash racks, and upgrade control equipment. The facility is on the St. Regis River in Regis Falls, New York.

- **Chasm Falls, Ampersand Chasm Falls Hydro, LLC, Malone, NY ($58,000 requested)** will fully automate Chasm Falls with the installation of a Programmable Logic Controller (PLC), which required re-designing a new hydraulic pressure unit. The improvement will also include designing and building a new switchgear, installing new protective relays, and rehabbing the plant electrically to enable compatibility with the PLC technology. The facility started operation in 1982 and is located on the North Salmon River in Malone, New York.

- **Dahowa Hydropower Efficiency Improvements, GR Catalyst Two LLC, Greenhich, NY ($2.6 million requested)** will conduct controls package upgrade, tailwater gate restoration, a transformer replacement, an automated trash rake system, and pond management and intake improvements. The facility started operation in 1991 and is located on the Batten Kill River located in Greenwich, New York.

- **Dashville Project Units 1 and 2 Upgrades, Central Hudson Gas and Electric Company, New Paltz, NY ($3.4 million requested)** will carry out a turbine replacement and generator rehabilitation project for Units 1 & 2. The project will involve engineering and supply of two new hydraulic turbine runners, nose cones and stress testing of the new runners. Additionally, the generator will be disassembled and rehabilitated. The facility was constructed in 1919 and 1920 and is located on the Wallkill River in New Paltz, New York.

- **High Dam Hydroelectric Station, City of Oswego, Oswego, NY ($1.3 million requested)** will conduct control system improvements, relay and interconnect improvements, generator rewinding, turbine overhauls, automated rack raker improvements, and replace excitation and hydraulic power units. The facility started operation in 1929 and is located on the Oswego River in Oswego, New York.

- **Middle Raquette Project Colton Development, Brookfield Renewable, Pierrepont, NY ($1.2 million requested)** replaced a trash rack enabling the install of a new trash raker system upstream of the existing intake. The new trash racker is capable of raking under full station load conditions without the need to back the station down and spill water. The facility started operation in 1928 and is located on the Lower Raquette River in Pierrepont, New York.

- **Seneca Falls & Waterloo Efficiency Improvements, C-S Canals, LLC, Seneca Falls / Village of Waterloo, NY ($1.5 million requested)** will carry out head-pond elevation restoration, downstream fish passage improvements, installation of runners, generator refurbishments, and controls upgrades. The facility started operation in 1917 and is located on the Seneca River, in Waterloo, New York.

- **Stillwater Hydropower Efficiency Improvements, GR Catalyst One, LLC, Stillwater, NY ($675,000 requested)** will perform tailwater hydraulic improvements, generator refurbishments, gearbox rebuilds, and an automated trash rake install. The facility started operation in 1991 and is located on the Hudson River in Stillwater, New York.

- **York Haven Unit Overhauls, York Haven Power Company, LLC, York Haven, PA ($1 million requested)** will replace Units 8 and 10 with Francis runners, upgrading the facility's power generation capabilities. The project started operation in 1904 and is located on the Susquehanna River in York Haven, Pennsylvania.