

Middlesex-Red Oak Upgrade Project

Overview

Through a competitive solicitation process, the New Jersey Board of Public Utilities (NJBPU), in coordination with regional grid operator PJM Interconnection (PJM), awarded Jersey Central Power and Light (JCP&L) several onshore transmission upgrade projects utilizing existing rights-of-way (ROW). These projects are collectively referred to as the New Jersey Clean Energy Corridor (NJCEC) by JCP&L.

The projects were carefully designed to maximize existing grid infrastructure and minimize disruption to the way New Jersey residents live and enjoy their communities. JCP&L will use approximately 40 miles of existing power line corridors for the upgrades, and the projects will not require any new construction on undeveloped land outside of JCP&L's owned property or existing ROW.

Through its NJCEC projects, JCP&L is helping modernize New Jersey's energy grid by upgrading existing high-voltage transmission infrastructure and enabling the state to handle the growing demand for electricity now and for years to come. The work will enhance JCP&L's ability to deliver power efficiently and reliably and connect new sources of clean, renewable energy to the grid.

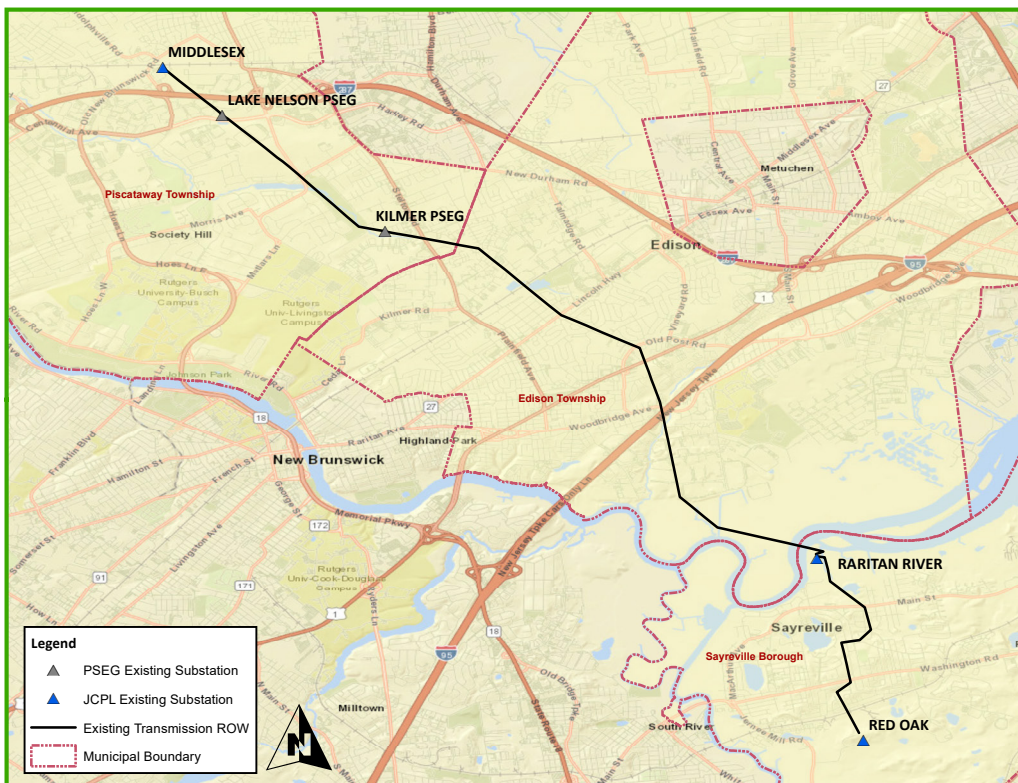
As part of the NJCEC projects, JCP&L will be reconductoring, or stringing new wire, along four sections of existing 230-kV transmission line totaling approximately 11.1 miles between the Red Oak and Middlesex substations. The existing configuration of a double-circuit 230-kV line featuring two sets of wires will remain, and most of the existing structures will stay in place. The project will utilize existing ROW and is located in the townships

of Sayreville, Edison, and Piscataway.

Additionally, JCP&L will be upgrading equipment inside of the Raritan River substation as part of this project.

Engineering

To help develop the detailed engineering design, JCP&L is performing ground, environmental and geotechnical surveys and consultations with local and state agencies.



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The location of structures, access roads and construction staging areas are being identified with a focus on minimizing physical and environmental impacts. We anticipate filing for all necessary permits for this project in 2025.

Land Use

Impact to land use, including natural areas, regulated areas and private conservation easements, will be minimized with the use of existing ROW. Temporary rights such as access roads and construction staging areas will avoid sensitive land use areas, where practicable. If unavoidable, JCP&L will work with the appropriate state agencies and local townships to address and mitigate impact.

Tree Rights

While the transmission lines are within JCP&L’s existing right-of-way, the company may require priority tree rights for the project. Priority trees are those that are dead, dying, diseased or structurally defective, or those that lean toward or encroach on JCP&L’s transmission facilities and could cause damage if they grew into or fell on the transmission lines and structures. These rights will be sought from owners of property adjacent to the transmission line as necessary.

Construction

JCP&L will remove existing wires and install new wires and hardware within the existing right-of-way. Most of the existing structures will stay in place, but new steel monopoles with arms will be installed in the vicinities of the JCP&L’s Middlesex, Raritan River, and Red Oak substations, as well as PSE&G’s Lake Nelson and Kilmer substations. Additional structures may be replaced with new steel poles or reinforced as needed. Steel poles are often used for high-voltage transmission lines and are durable, reliable and environmentally friendly.

Residents will see JCP&L and/or their contractors performing a variety of activities within the right-of-way to facilitate construction efforts. Field representatives will be in contact with property owners to discuss any temporary access rights needed to support construction.

Preliminary Project Timeline

Substation upgrades start September 2025
Line construction start.....October 2027
Project complete and placed in service May 2029

Contact

Please visit the project website for additional information or reach out to our dedicated hotline with questions.

- Website: firstenergycorp.com/NJCEC
- Hotline: 844-206-2033