

Alton Substation and underground transmission line

Florida Power & Light Company is constructing a new substation and installing an underground transmission line to improve customer reliability and energy grid resiliency.



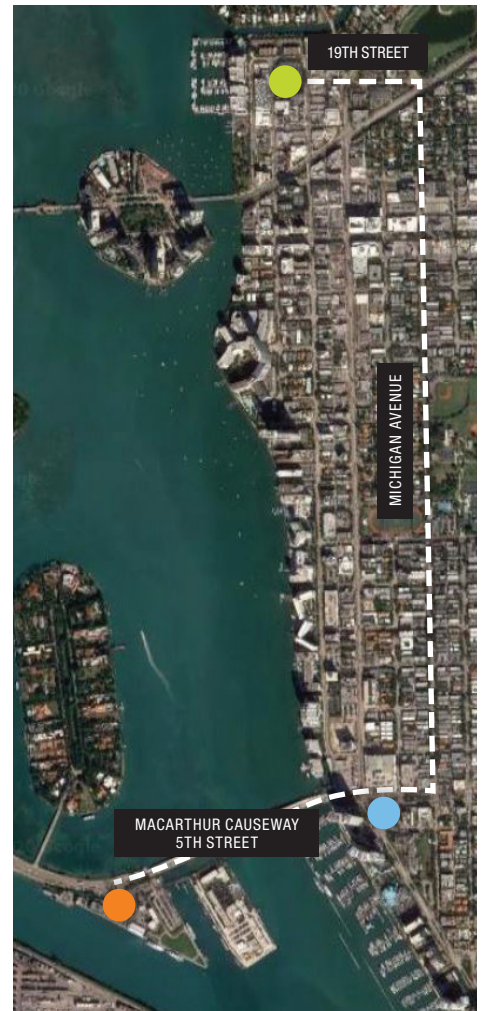
The new Alton Substation and underground transmission line

Substations are essential for the delivery of safe electricity as they act as a circuit breaker for the energy grid.

- » High voltage transmission lines connect with substations where voltage is decreased to be safely distributed to homes and businesses via neighborhood power lines. Substations assist with isolating parts of the grid to ensure minimal impact to customers during outages.
- » The new Alton Substation will not require overhead transmission lines. It will be connected using the new transmission line that will be installed underground. This route was selected because it is the least impactful and most direct.
- » Alton Substation's exterior was designed by renowned architect Kobi Karp and complements the surrounding community. Its design was approved by the Miami Beach Review Board.

The new underground transmission line will provide enhanced benefits for customers in Miami Beach. Some of the benefits include:

- » Enhanced service reliability
- » A more resilient energy grid
- » Reduced outage times on the transmission system for Miami Beach customers



- Venetian Substation
- New Alton Substation
- Miami Beach Substation

Staying connected

For more information on this project, call **800-693-3267**.

New Alton Substation Timeline



What to expect

- » **Site preparation:** To prepare the site, a storm water draining system and infrastructure foundations for the substation perimeter walls and concrete building, or relay house, will be set. Construction work and heavy equipment will be on the site. Traffic may be affected during delivery of equipment and materials.
- » **Building construction:** The stylishly-designed relay house will contain the electrical equipment inside of the substation. The building's façade was designed by renowned architect Kobi Karp.
- » **Substation construction:** The construction of the electrical components inside the substation's infrastructure requires the delivery of heavy equipment on-site.
- » **In-service:** Once construction is complete and the substation is energized, there will be no visible equipment. The substation will operate quietly and unmanned. Once a month, two-man crews will access the property for maintenance.

Underground Transmission Timeline



What to expect

- » **Civil work:** To place the transmission lines underground, FPL uses directional boring technology, which is a low-impact underground drilling method. This phase will include trenching and installing manholes.
- » **Electrical work:** Electrical cable is pulled into the conduits, connected to the substation equipment and terminals are installed at the Miami Beach, Venetian and the new Alton Substation.
- » **Site restoration:** The substation will have landscaping upgrades, an improved irrigation system, and will include sidewalk and asphalt repairs.
- » **In-service:** Once construction is complete and the underground transmission line is energized, the new substation, together with the existing Miami Beach and Venetian Substations, will provide enhanced service reliability to the city of Miami Beach.

* Timeline is subject to change. No work periods set by the city of Miami Beach have been planned into the timeline.

Staying connected

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