Recovery & Resilience

In October 2012, Superstorm Sandy hit New York City, inundating large parts of the city with saltwater and leaving lasting damage to buildings and infrastructure. Thirty-five New York City Housing Authority (NYCHA) developments, home to over 60,000 New Yorkers, suffered major storm-related damage. NYCHA is investing over $694M at the six developments located in Far Rockaway.

Far Rockaway Progress as of Q2 2022

- **35** Buildings protected from storm surge for the 2021 hurricane season (Bayside, Oceanside and Beach 41st)
- **25** New operating boilers, serving 1,389 apartments and 3,623 residents
- **25** CCTV cameras operational
- **38** Generators started up
- **76** Hot water heaters completed
- **20** Entrances with layered access control installed
- **36** New utility buildings/additions to existing buildings
- **49** Roofs replaced

NYCHA Recovery & Resilience Department
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NYC Housing Authority's Far Rockaway Progress as of Q2 2022

Our Scope of Work

- **STANDBY GENERATORS**
  - Provides backup power
- **FLOODPROOFING**
  - Protects buildings in flood-prone areas
- **GROUND RESTORATION**
  - Restores site to pre-Sandy condition or better
- **BOILERS**
  - Provides reliable heat and hot water
- **ROOF REPLACEMENT**
  - Improves building resiliency
- **MECHANICAL, ELECTRICAL, AND PLUMBING (MEP) ANNEXES**
  - Improves site resiliency
- **SITE LIGHTING**
  - Improves site safety and energy efficiency
- **CCTV CAMERAS**
  - Improves site security
Ocean Bay Apartments (Bayside)
434 Beach 54th Street | Site Flood Zone: AE | Base Flood Elevation: 10 feet
- Flood-proofing measures include 50 passive flood barriers and a flood wall around the perimeter of the site spanning 5,200 linear feet in length
- 11 flood-resistant utility annexes to house natural gas-powered standby generators (350 – 550 kilowatt) to service 24 buildings and 1,389 apartments. Additional utility annex details:
  ° Average height: 27 feet
  ° Average square footage: 1,731
  ° Facade: Metal panel rainscreen, BarnettBates metal panel grille
- Rooftop boiler room enclosures housing domestic hot water heaters and hydronic boilers
- Additional site resiliency measures:
  ° New cold liquid-applied roofing system at all buildings
  ° Bioswales at 17 locations across the campus to control stormwater runoff
  ° 1,716 rooftop solar panels across 20 buildings

Redfern Houses
14-56 Beach Channel Drive | Site Flood Zone: AE | Base Flood Elevation: 9 feet
- 668 passive and deployable flood-proofing components at 97 locations across the site. Additional flood-proofing measures include 180 flood vents to allow for controlled flooding of unoccupied spaces in new or existing buildings
- New two-story flood-resistant childcare/community center and boiler plant located at 1490 Beach Channel Drive
- Boiler plant features four (4) dual-fuel Burnham boilers and one natural-gas powered generator
- Five (5) flood-resistant utility annexes ranging from 1,100 to 1,900 square feet to house one (1) to two (2) natural gas-powered generator(s) (250 to 550-kilowatt), automatic transfer switch equipment, and domestic water heaters to service the adjacent residential building(s) Additional utility annex details:
  ° Average height: 21 feet
  ° Facade: Metal panel rainscreen, insulated precast concrete
- Additional site resiliency measures:
  ° Bioswales across the campus to control stormwater runoff and 28 new backwater valves