



Secure and Affordable Energy for Rockaways (SAER):

Bringing EnergyNet from Sweden to New York

Dr. Marc A. Weiss, Chairman and CEO, Global Urban Development (GUD),
and Santino Plazola, GUD Fellow

What happened in the Rockaway Peninsula during Superstorm Sandy in 2012?

- Power grid & utilities shut down
- Widespread flood damage
 - Storm surges up to 14 ft
- Electrical fires
 - Breezy Point Fire



Flood Destruction from Superstorm Sandy



Breezy Point Fire Aftermath

Grid impacts in Rockaway Peninsula:



Grid Damage

Repairs to substations
+ wires took 11 days



Structure Damage

70% of homes without
power or heat after grid
repairs



Restoration Work

Homes repowered one
by one over five
months

EnergyNet enables affordable & clean energy security, reliability, and resilience

Grid Damage

- Smart network system reroutes around damage.
- Distributed power sources support network.
- Energy continues to flow.

Structure Damage

- Smart safety monitoring prevents fires.
- Precise control gives many power options.

Restoration Work

- Management systems check system health immediately after hurricane.
- Healthy systems repowered in minutes.

EnergyNet enables affordable & clean energy security, reliability, and resilience

Instead of:

Full system blackout
+
Months of tedious
repairs

EnergyNet provides:

Powered system
+
Immediate home checks
and efficient repairs

SAER

**Secure &
Affordable
Energy for
Rockaways**



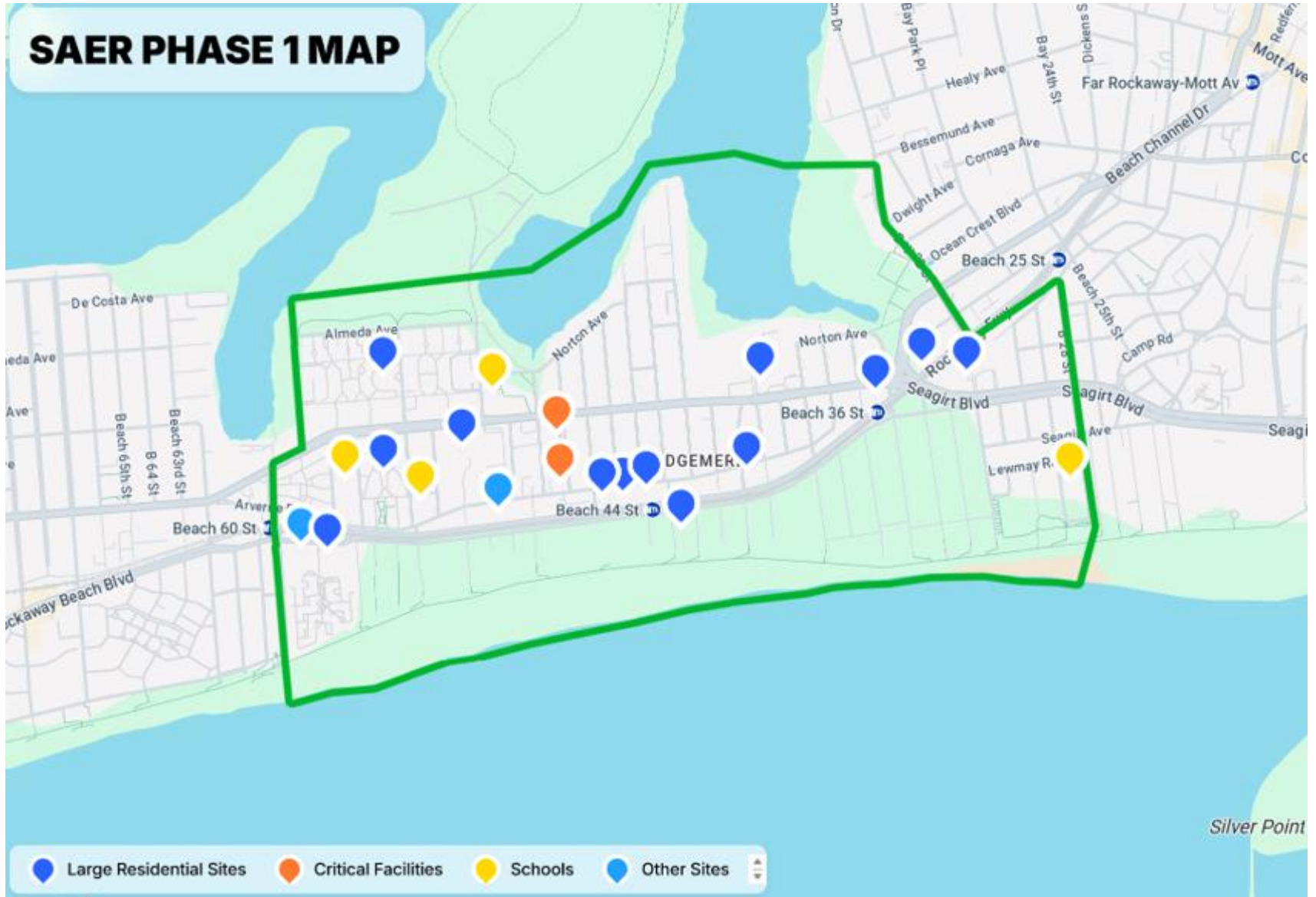
SECURE AND AFFORDABLE ENERGY FOR ROCKAWAYS (SAER): Preliminary Draft Strategy

Dr. Marc A. Weiss, Chairman and CEO, Global Urban
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February 16, 2026

Project Goal/Summary

Secure and Affordable Energy for Rockaways (SAER) is a plan to dramatically improve energy security and community resilience across the Rockaway Peninsula, one of New York City's most climate-vulnerable regions. This will be achieved through the installation of a new energy distribution system, called the EnergyNet. The EnergyNet establishes a new architecture of decentralized, adaptable, and fault-tolerant energy distribution that will alleviate many present resilience issues in the Rockaways. By installing the EnergyNet across the region, the SAER project reduces dependence on the fragile, centralized grid, enhances disaster response capability, and brings the energy infrastructure into the modern age. With the long-term vision of installing the EnergyNet across the entire Rockaway Peninsula, the SAER project begins with the Phase 1 area outlined in this document, located between Arverne and Edgemere, from Beach 28th Street to Beach 60th Street.



The SAER Phase 1 area extends from Beach 28th Street to Beach 60th Street in the Rockaway Peninsula. It involves the following 20 projects between Arverne and Edgemere:

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|--|--|
| 1. Arverne East | 12. Beach Green Dunes III |
| 2. Edgemere Commons | 13. NYCHA Beach 41st Street |
| 3. Covered Parking Lot at 50-01 Rockaway Beach Blvd. | 14. NYCHA Ocean Bay Apartments (Bayside) |
| 4. Rockaway Care Center | 15. NYCHA Ocean Bay Apartments (Oceanside) |
| 5. Arverne View | 16. The School by the Sea - P.S./M.S. 43Q |
| 6. La Quinta Inn & Suites Far Rockaway | 17. FDNY EMS Station 47 |
| 7. Seaview Home for Adults | 18. Arverne Branch Library |
| 8. Seaview Towers | 19. Cardozo School and Playground |
| 9. Seagirt Residences | 20. P.S. 105 The Bay School |
| 10. Beach Green Dunes I | |
| 11. Beach Green Dunes II | |

For Each Site:

- Local Renewable Energy Generation
- Battery Storage
- Energy Router & Cables



Local Power Independence

If the POGS is blacked out and cannot provide power, systems connected with EnergyNet can still operate on power generated locally. Any facility connected to the SAER network will gain shared access to solar power, battery storage, and any other local renewable generation or storage assets connected to the network. Within SAER Phase 1, the following sites already have existing or in-development generation/storage assets:

- Arverne East,
- Arverne View,
- Beach Green Dunes I, II, & III,
- Edgemere Commons,
- Ocean Bay Apartments (Bayside),
- Ocean Bay Apartments (Oceanside).

Long Island Power Authority (LIPA)

Publicly owned utilities have more accountable responsibilities and goals.

- Rockaway Peninsula is served by LIPA, a publicly owned utility (POU)
- SAER will help LIPA provide more cost-effective, secure, and affordable energy services

New York Power Authority (NYPA)

Build Public Renewables Act

Provides NYPA with financial resources to help build new renewable energy projects.

NYPA can help fund SAER Phase 1, including solar panels, batteries, energy routers, and cable infrastructure.

New York City Economic Development Corporation (NYCEDC)

NYCEDC also can help SAER Phase 1, including related local economic, business, workforce, and community development.

Thanks!

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