

Fowler's Beach Resilience Project

Planning for the Future of Long Island's Coastline



What is the Fowler's Beach Resilience Project?



As storms become more frequent and severe, Long Island faces increasing coastal erosion and flooding. Long Island Civic Association and the Town of Long Island are exploring ways to restore and strengthen Fowler's Beach and protect Jerry's Point Road from storm impacts. This project builds on years of storm damage and volunteer dune restoration efforts, using **nature-based solutions** to help protect residents and the environment.

By planning ahead, Long Island can make informed investments that improve long-term resilience and reduce future repair costs.

Why Fowler's Beach?

- Fowler's Beach was identified as a Priority Sand Dune Erosion Hazard Area in the 2022 Long Island Comprehensive Plan
- It protects Jerry Point Road, nearby homes, emergency access, coastal habitat, and public beach access
- The project is supported by grant funding to evaluate long term, nature-based solutions to protect against future flooding and erosion damage

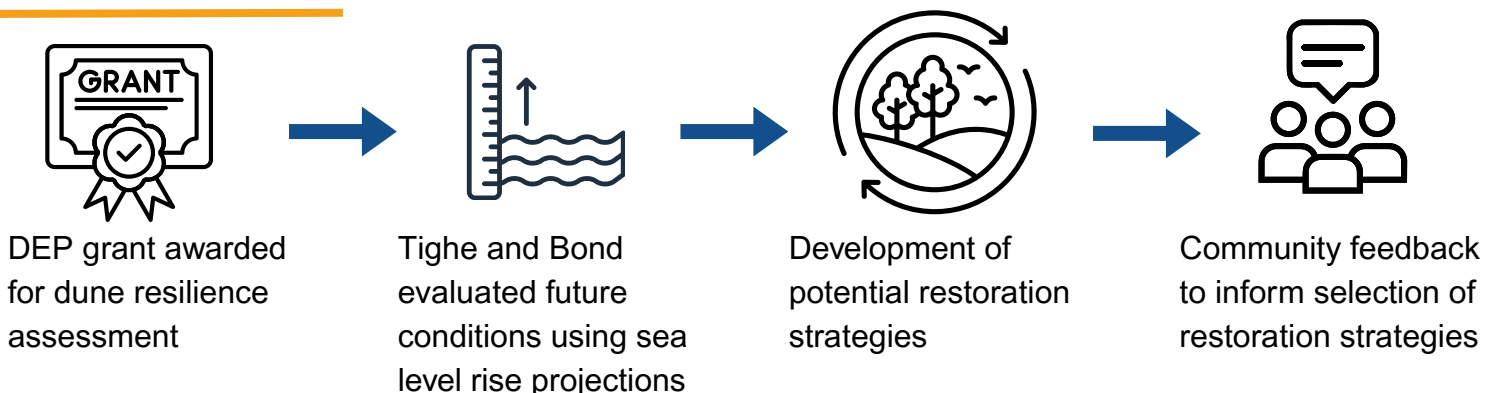
Nature-Based Solutions

Nature-based solutions use natural materials and processes in infrastructure projects to reduce coastal hazard risks, while also delivering social and environmental benefits through improved ecosystem services.

Example: Use native plantings to stabilize eroding shorelines and add sand to eroding dunes to reduce wave impact.

Project Partners: Long Island Civic Association, Town of Long Island, Town of Long Island Resilience Team, engineering consultant Tighe and Bond, and Oceanside Conservation Trust of Casco Bay

Project Process



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Restoration Strategy Comparison

STRATEGY	BENEFITS	LIMITATIONS	PROJECTED LIFESPAN
No action/natural recovery Allow dunes to recover naturally with monitoring	Minimal disturbance and maintenance	No additional storm protection, continued flooding and erosion risks	Storm-dependent
Natural recovery and sand fence Install a sand fence to trap sand encourage dune growth	Supports vegetation recovery	Limited roadway protection, requires maintenance	Short
Dune nourishment and vegetation Add sand and plant native vegetation to stabilize dunes	Improves dune resilience and accelerates recovery	Sustained vegetation maintenance required	Short-medium
Dune restoration and road improvements Utilize nature-based solutions to restore dunes and improve roadway resilience	Greatest long-term resilience and roadway protection	Heavy machinery and high costs required	Long
Dune restoration and road improvements with stabilized dune Offers enhanced dune resilience by incorporating soil encapsulated lifts into the dune to increase dune elevation and volume.	Provides a higher level of physical dune stability.	Lifts may be damaged during severe storms and would require adaptive management.	Long

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