



**Breezy Point  
Planning Committee Meeting #7**

January 23, 2014

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# Agenda

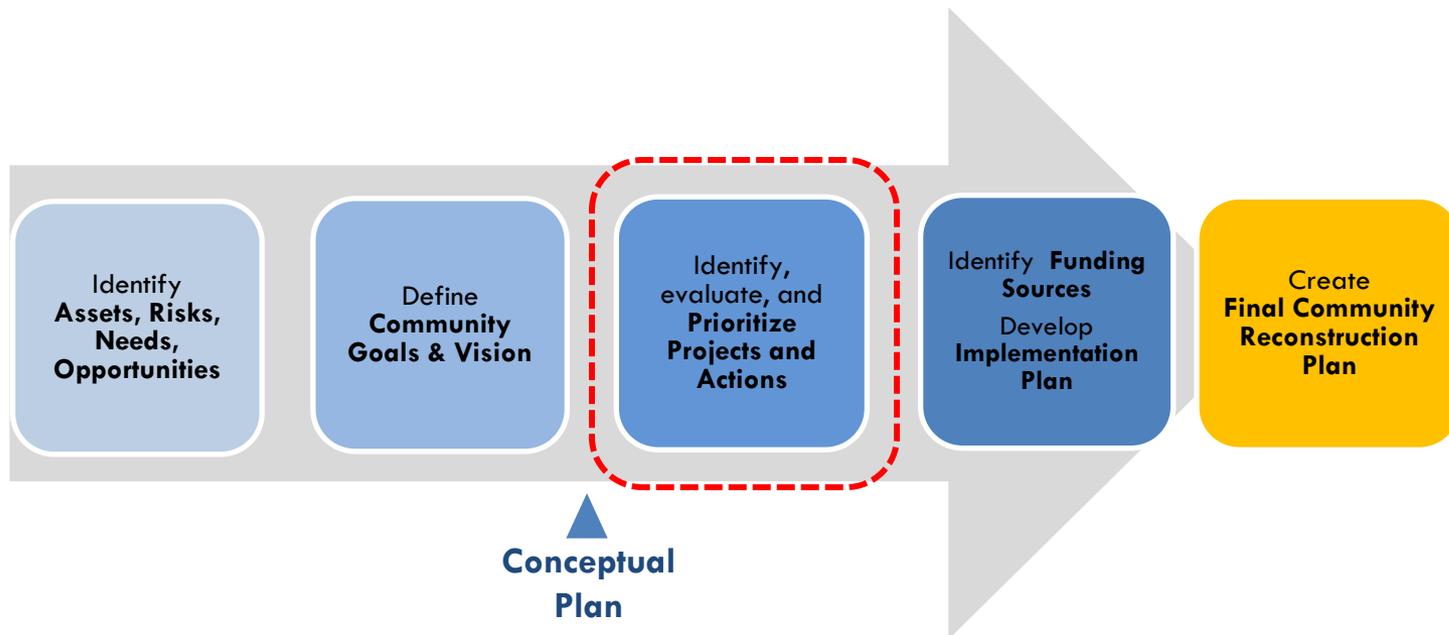
- 1. Program update** **7:00 – 7:05**
- 2. Project prioritization** **7:05 – 8:25**
- 3. Next steps** **8:25 – 8:30**

## Committee Meeting 7: Project refinement

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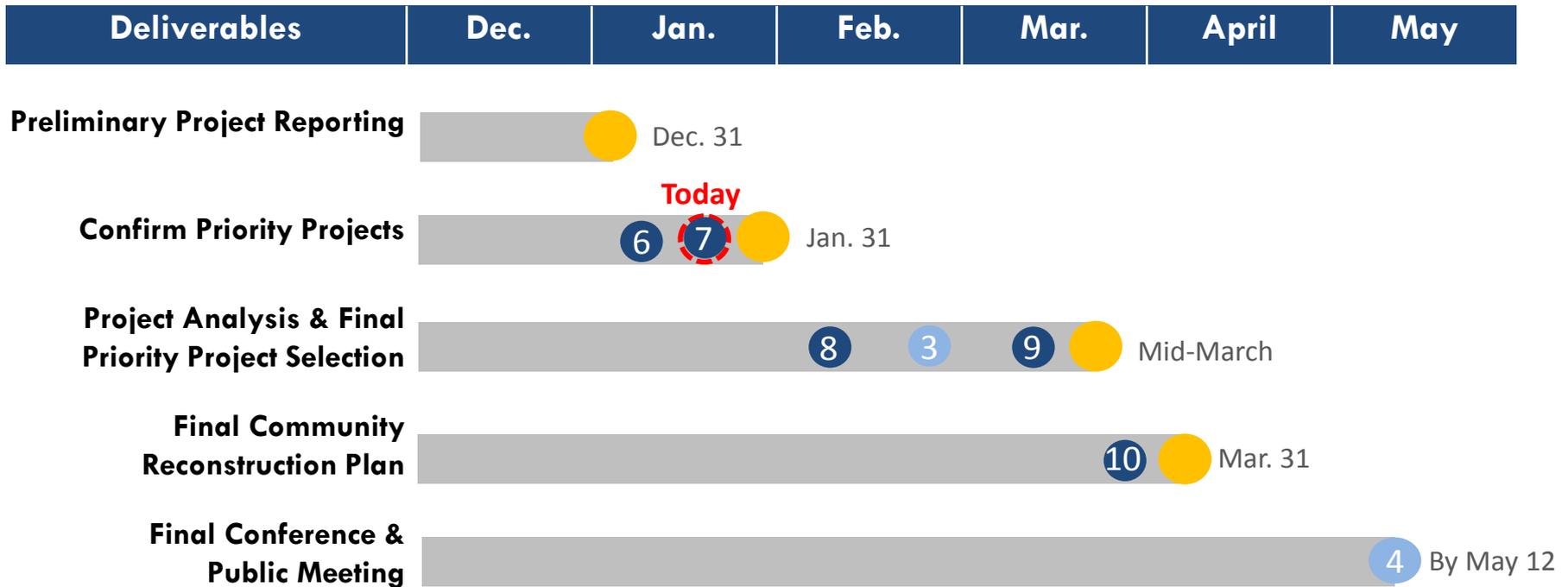
### Objectives:

- Finalize categorization of priority/featured/other projects for NY Rising



# NY Rising Community Reconstruction Program Schedule

- Planning Committee Meeting
- Public Meeting
- Deliverable Due Date



## Refined NYRCR deliverables approach

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### **By end of January**

Finalize “Priority CDBG-DR Projects” and “Featured Projects” for Breezy Point

Total list of projects add up to more than \$19.5 million

- In February consultants will analyze and cost projects, NYRCR program determines CDBG-DR eligibility of projects
- Committee will continue to coordinate mid-March which project(s) to submit for NY Rising funding

Initiatives not on the CDBG-DR Priority Project or Featured Project list *can still be included* in the Final Community Reconstruction Plan

- Additional projects, recommendations, or actions
- Suggested regulatory reforms

## Public Meeting #3 Approach

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### Goal of Public Meeting #3:

- Solicit community feedback on proposed priority and featured projects

### Need to Confirm:

- Approach
- Location options
- Date options

# Regional Update

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## Jamaica Bay Working Group Update

- First meeting occurred on Jan 14<sup>th</sup>
  - Agreed on shared regional chapter in the final Reconstruction plans, with common positions on:
    - Bay protection measures
    - Gray and green infrastructure
    - Advocate for a surge barrier
    - Coordinate evacuation routes



## Tonight's Exercise: Project Categorization

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Project Type	Types of Projects
<b>Priority</b>	<ul style="list-style-type: none"><li>• Projects that can be implemented in the near-term with funding from CDBG-DR and other identified sources</li><li>• Strong preference for capital projects</li></ul>
<b>Featured</b>	<ul style="list-style-type: none"><li>• Can include CDBG-DR funding or funding from other sources</li><li>• Planning studies or design work for specific resiliency capital projects (e.g., planning and design of flood gate)</li></ul>
<b>Other</b>	<ul style="list-style-type: none"><li>• All other projects and recommendations</li></ul>

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# Coastal Protection

## Priority/Feature

- 1) Comprehensive Coastal Protection
  - Roxbury Wall & Dune Bayside Protection
  - Roxbury Groin Repair
  - Breezy Point Bay Wall (3 key areas/potential projects)
  - Elevated Beach Walkways
  - Double Dune
  - Eastern Edge flood wall and deployable gates
  - Western edge flood wall and deployable gates
- 2) Raise Rockaway Pt. Blvd

## Other Projects and Recommendations

- 1) Construct bay surge barrier that does not endanger Breezy Point
- 2) NPS Edge protection solutions



Precedent: Ocean City, NJ



Precedent: Atlantic City, NJ

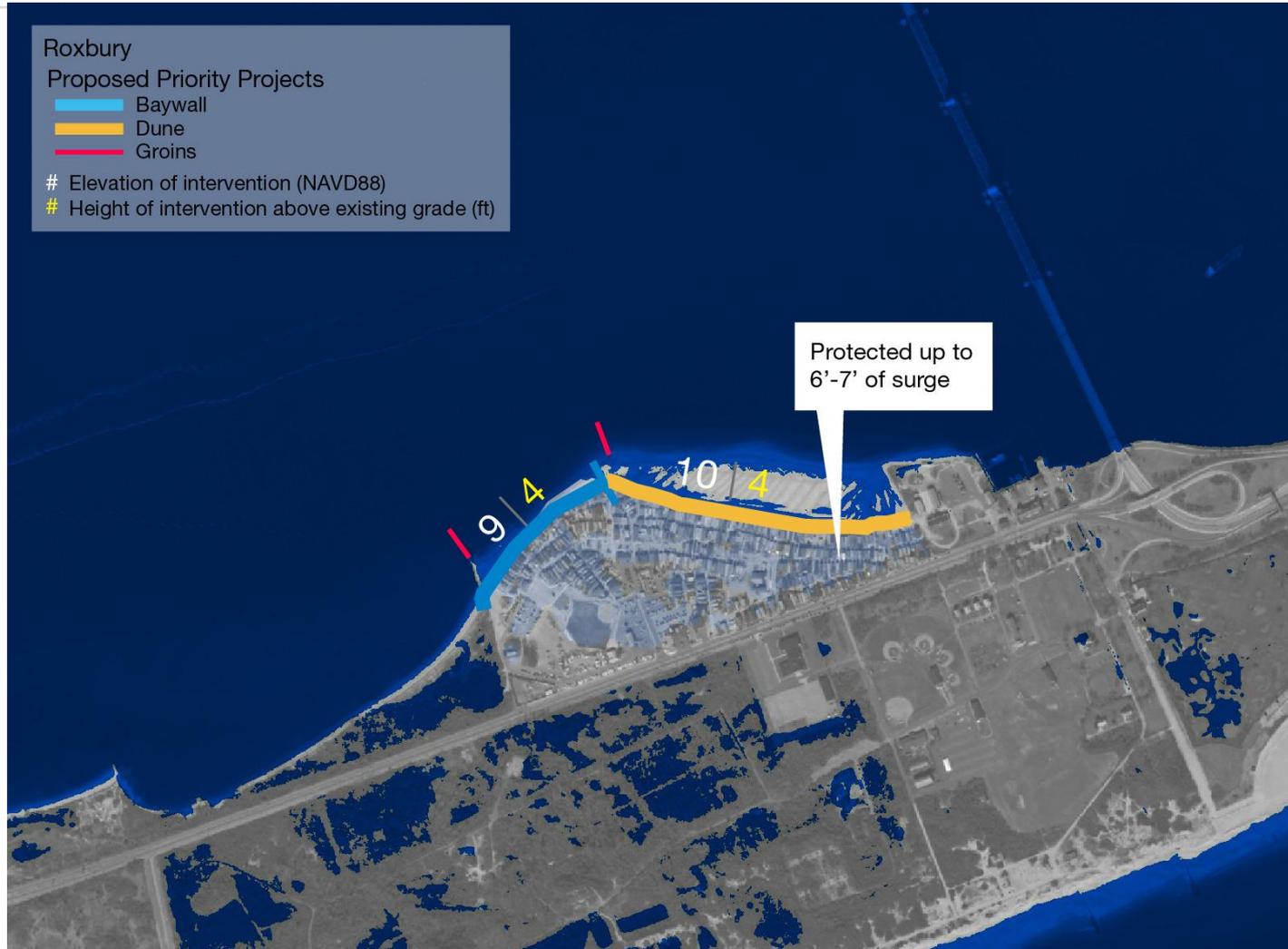


Precedent: Bradley Beach, NJ

# Priority Projects and Protection: Breezy Point



# Priority Projects and Protection: Roxbury



## Coastal Protection Comparison

Strategy	Measures	Wall Height	Protects against
Comprehensive solution	Combination of baywalls, dunes, berms, floodwalls around entire coop	8.5' – 9.5'	11' surge Light wave action
Priority projects: Breezy Point baywall	Baywall + armored dune on bay side only	4'	5'-6' surge Light wave action
Priority projects: Roxbury	Baywall + dune on bay side only	4'	6'-7' surge

# Coastal Protection

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- What are your “priority” priority projects?
- Confirm **height** of lower walls that do not protect against 100 year flood (8.5 ft vs. 4 ft)
- Should a lower wall be designed with future needs in mind?
- Number and location of bay and ocean access points –
  - What are critical locations?
  - Are there any that can be consolidated/eliminated?



Precedent: Ocean City, NJ



Precedent: Atlantic City, NJ



Precedent: Bradley Beach, NJ

# Water Management

## Priority/Featured Projects

- 1) Storm drain w/pumping system, permeable pavers, and raised ballfields
- 2) Pumping system in SE Breezy residential area
- 3) Storm drain w/pumping system, permeable pavers in Roxbury



# Water Management

## Questions for Committee

- Which areas are priority?
- Would you rather complete an entire project or pieces of all?
- Would you want options for adding back-up power?



# Emergency Relief and Preparedness

## Priority/Featured Projects

- 1) Build recovery center on second floor of commercial area
- 2) Upgrade alarm and communication system
- 3) Dedicated/upgraded hydrant lines or other improved source of water for fire fighting

## Other Projects and Recommendations

- 1) Preparedness training
- 2) Bolster Volunteer Fire Departments



## Upgrading Alarm and Communications System

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- Alarm system currently dependent on power, needs some sort of resilient element
- Alarm activation could be transferred from gate to barracks, with remote activation options
- Back-up communication potential can include bulletin boards for communication throughout community or radio system established



## Dedicated/Upgraded Hydrant Lines

### Options:

- 1) Drafting
  - 2) Dedicated Breezy line
- Drafting mechanism which draws water from natural water source to fight fires, common upstate
    - Downsides
      - Vulnerable to being damaged by debris
      - Can cause electrical fires when salt water comes in contact with a live electrical connection
  - Dedicated hydrant line through the middle of Breezy, north side and south side



# Emergency Relief and Preparedness

## Questions for Committee

Is this the right area? What complementary projects could be bundled with these ideas?



# Transportation

## Priority/Featured Projects

- 1) Repair and upgrade docking facilities

## Other Projects and Recommendations

- 1) Add Rockaway ferry stop to Riis Park
- 2) Create secondary means of access to Breezy Point via NPS property



# Transportation

- What is the purpose of the rebuilt docks? Emergency evacuation?



# Power Infrastructure

## Priority/Featured Projects

- 1) Integrate alternative energy sources into infrastructure projects

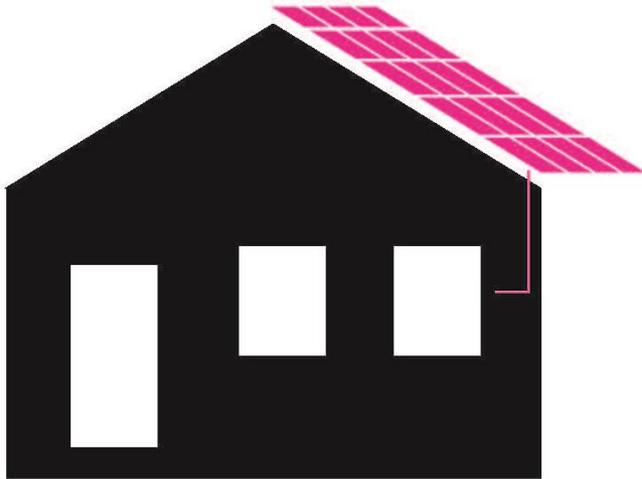
## Other Projects and Recommendations

- 1) Development of long-term alternative energy source strategy



# Solar

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## Components

- *Panel for generation*
- *Battery for storage and smoothing fluctuation*
- *Connection to grid*
- *Smart inverters*
- *Meter*
- *Fossil generator for hybrid systems*

## Alternatives

- Arrays for large roofs, parking areas, etc
- Storage mechanisms
- Hybrid systems
- Deployable / mobile charging stations

## Pros

- Resilient: can function when grid goes out
- Retains benefit of using grid power during normal operations
- Can reduce electricity costs
- Low maintenance
- Both benefits and negatives to the grid

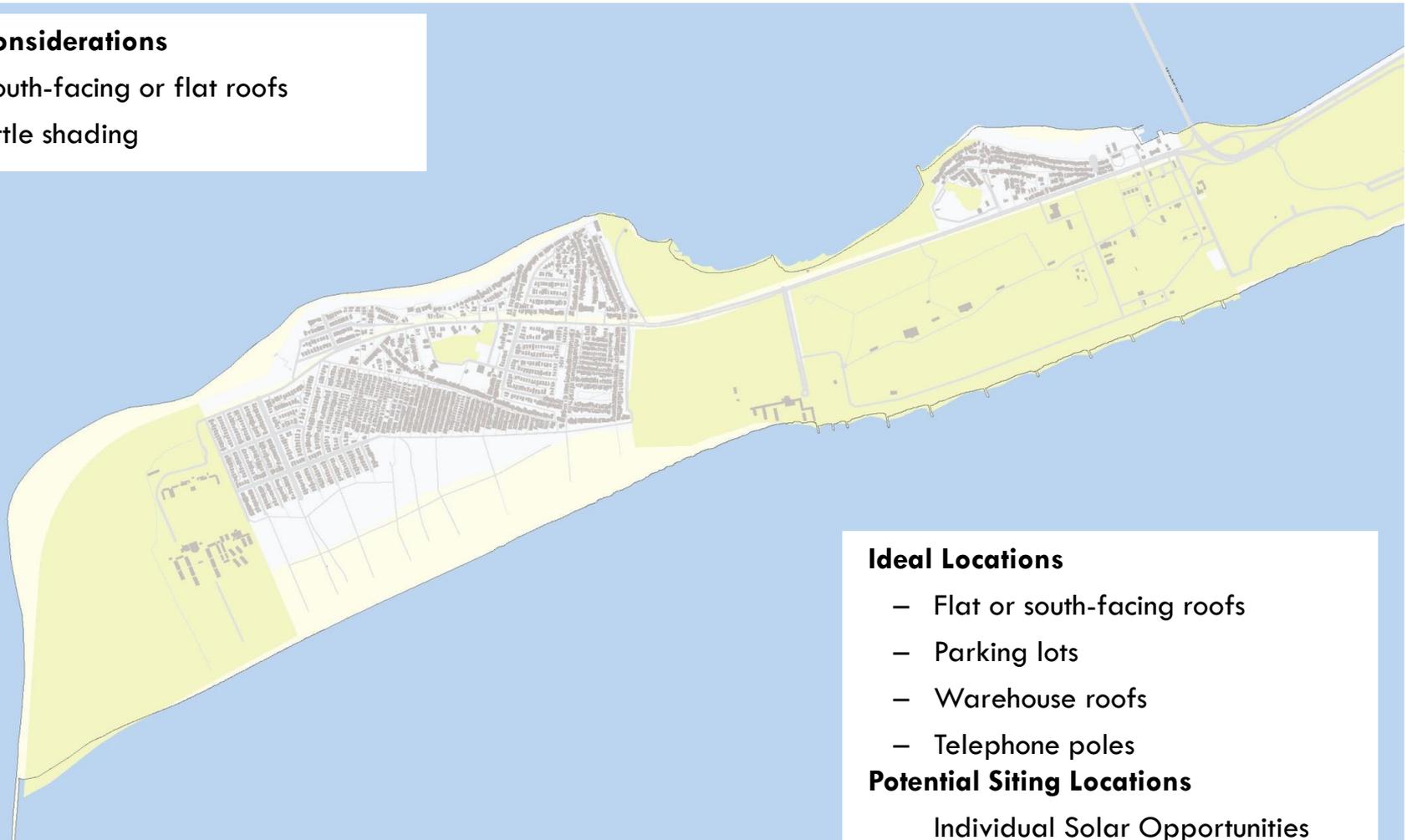
## Cons

- High up-front costs
- Intermittent
- Expensive energy storage (batteries)
- Space requirements and FDNY restrictions

# Solar: Opportunities & Considerations

## Siting Considerations

- South-facing or flat roofs
- Little shading



## Ideal Locations

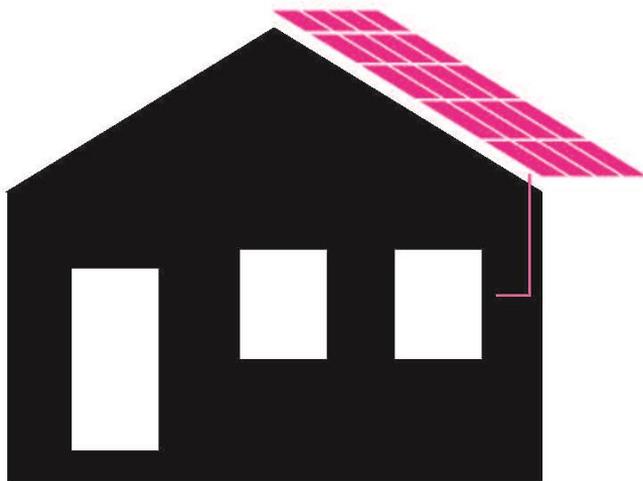
- Flat or south-facing roofs
- Parking lots
- Warehouse roofs
- Telephone poles

## Potential Siting Locations

Individual Solar Opportunities  
Solar Array Opportunities

# Solar: In an Emergency

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## 4 Options

- Single outlet: Daylight emergency power
- Full output: Daylight emergency power
- Backup battery: fully off-grid emergency power
- Hybrid solar and fossil fueled generator with a battery system: fully off-grid emergency power

## Emergency Hub

- Designated emergency center that can be supported by solar

## Power Infrastructure

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- What do you want to power with solar?
- What are your priorities?
- Are you still interested in wind power? What is your preference – wind or solar?



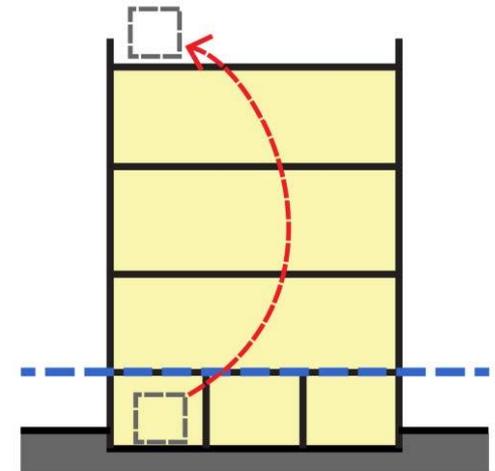
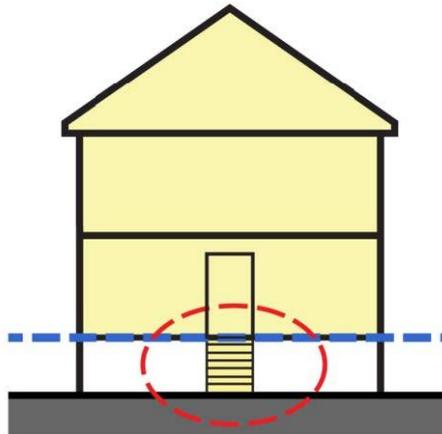
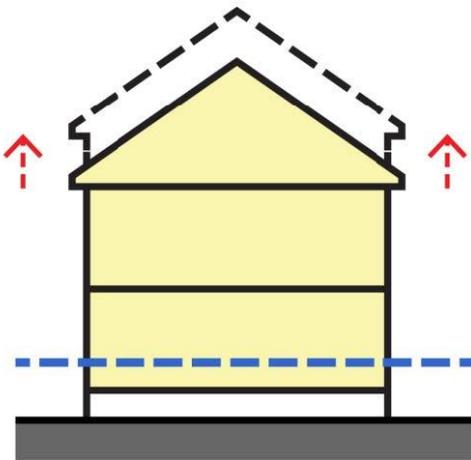
# Housing

## Priority/Featured Projects

- 1) New construction
- 2) Negotiation for bulk elevation of houses at fixed rate

## Other Projects and Recommendations

- 1) Low/no cost loan for resiliency improvements
- 2) Technical/financial advising



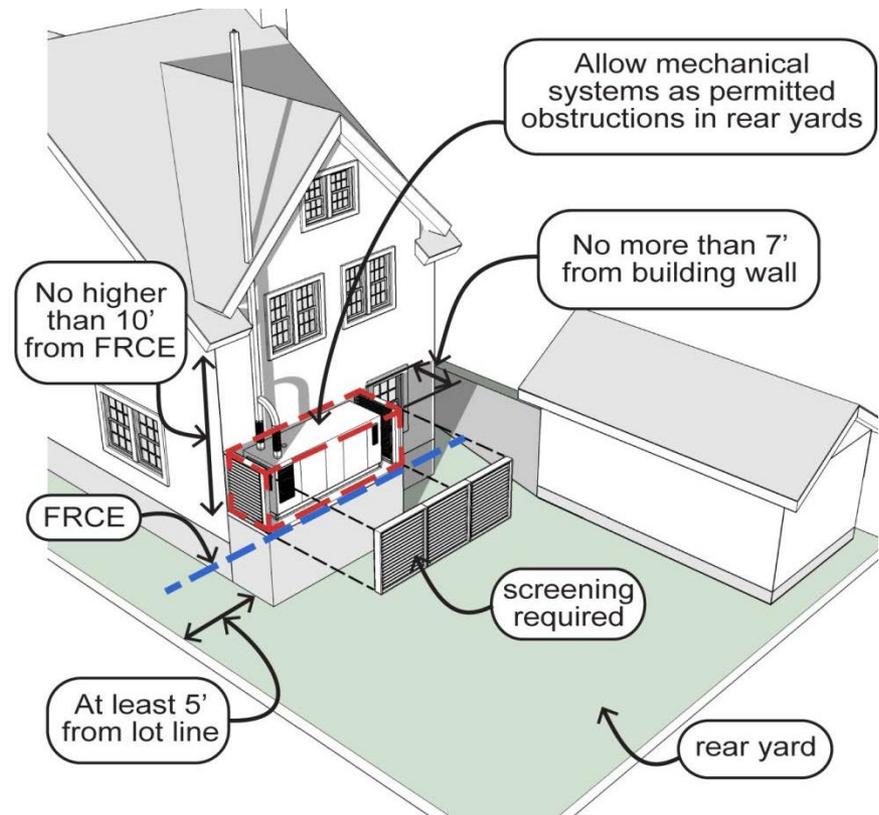
## New Construction

- 1) Set aside seed money for senior housing in Roxbury
- 2) Issue RFP for developer, including incentive for developer to make RFP more appealing
- 3) Other possibilities



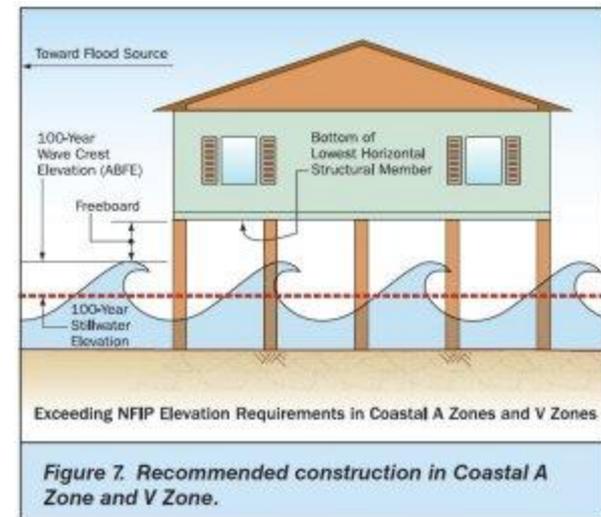
# Technical Assistance and Education for Homeowners

- Expand program being run through CNYCN that provides technical assistance program for homes not eligible for Build It Back to:
  - Identify potential retrofits to mitigate against future storm damage
  - Provide elevation certificates
- Education program would offer homeowners:
  - Useful resiliency information through introductory courses on financial and insurance literacy, recovery issues, etc.
  - Individually-tailored counseling on insurance, financial and rebuilding issues

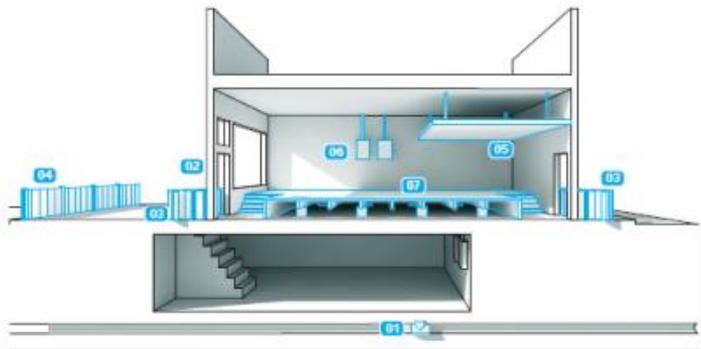
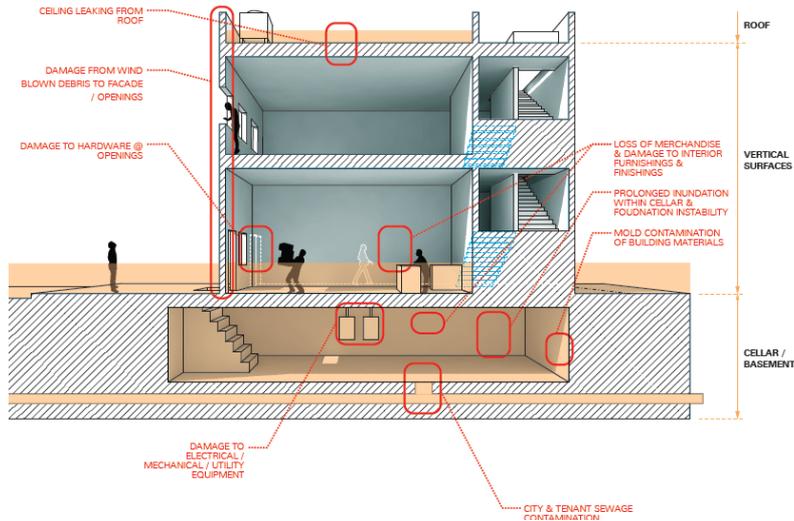


## Negotiation of bulk elevation of houses

- 1) Negotiation for bulk elevation of houses at fixed rate
- 2) Would require a percentage of participation from the community



# Economic Development



## Other Projects and Recommendations

- 1) Study relocation of existing businesses for improved resiliency
- 2) Expand low-cost loan programs to rebuild businesses and help make businesses more resilient
  - 2014 program through NYCEDC
- 3) Create business to business program to bolster commercial activity across the peninsula, connecting Breezy Point businesses to larger peninsula organizations such as the B116 Merchants Association and RDRC

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