A Resilient Future for Coastal Communities
Federal Policy Recommendations...
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Eight years ago today

After Sandy, gas lines stretch for miles
by Aaron Smith and Tony Magliozzi
(A November 1, 2012, 1:38 PM ET)

Sewage Flows After Storm Expose Flaws in System
by Michael R. Smerikz
May 28, 2012

House approves $50.7 billion in Superstorm Sandy emergency victims late Tuesday
by Joseph Sohm
(Brooklyn Daily Eagle News)
Updated Tuesday, January 15, 2013, 11:38 PM
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Context

1,000,000+

In the floodplain

TODAY
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Education
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Design

Waterfront Edge Design Guidelines

How to Promote Resilience, Ecology, and Access at the Water’s Edge

McInnis Cement

Weiss Manfredi
LIKE THE TIDES, WE ARE RISING
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What unites us

1. Infrastructure and housing must be safe and resilient to future conditions.

2. Information needs to be transparent and accessible—we all have the right to know our climate risk.

3. Adaptation strategies must be based in science and community-driven.

4. Public and private investments in resilience must flow to all, but especially those at greatest risk: low income communities and communities of color.

5. Well-paying, locally-hired, long-term green jobs are the basis of a resilient economy for all.

6. Solutions need to address both human needs and protect and restore wildlife and their habitats.
What we're fighting for

**Funding**
- WRDA 2020
- FEMA
- State revenue generators

**Management**
- State and local frameworks
- Codifying resilience

**Transparent:** Flood risk right to know

**Equitable & just:** process standards, housing strategy

**Green:** jobs + infrastructure
Land use and development

2.1 Congress should ensure that all land use planning is designed—and all infrastructure is built—to anticipate and withstand future climate conditions.
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Climate adaptation and resilience data

4.2 Federal agencies should communicate climate data in a format that is accessible to non-experts, and provide avenues for state, local, and tribal entities to access technical support to interpret and apply this data to decision-making.
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**Manage Flooding and Subsidence**
- Institutionalize considerations of future flood risks in daily operations and programs within state agencies.
- Develop a means for assessing, weighing, and classifying regional adaptation initiatives. Connect with neighboring states and complementary programs.
- Require state agencies to assess flood risks to their physical assets based on best available data, including climate change projections, and incorporate adaptation actions to mitigate risk in state budgets. Establish an interagency coordination mechanism and the Coastal Federal Plan is updated.
- Require data to identify current and future land uses and population movement in their program evaluations and analyses.
- Alphanumeric funding and project prioritization to promote green infrastructure and community management.
  - Analyze flood risk-based incentives policies across federal loan mechanisms.
  - Require at least partially funded urban projects to make a larger portion of an area (at least 5% of total area to be floodplain area) to be determined in the Institute of Justice.
  - Develop or adjust existing state policies to promote use.
  - Increase private investment in management systems in non-flooded areas.

**Incentivize the Incorporation of Stormwater Management Features and Green Infrastructure in Private Development**
- Encourage stormwater management in green infrastructure projects.
- Provide incentives for investment in stormwater management in private properties.
- Make the use of stormwater area adjacent to property owner.
- Provide financial, technical, and technical assistance to help management projects in stormwater management and green infrastructure as well as update on the current issues of stormwater management systems.

**Plan for Safe and Affordable Development**
- Encourage elevation of homes based on current and future flood risk.
  - Require all new development in floodplain areas to be built to two feet above current flood level for a 100-year flood with a 1% chance of recurrence.
  - Integrate stormwater management into development plans.
  - Increase elevated housing to include new construction and retrofitting existing buildings and ensure elevated support for all residents.
- Include development programs and risk mitigation, including flood, wind, and severe weather with home efficiencies to address multiple flood concerns.
- Provide education and outreach programs to reduce risk-prone locations.

**Plan for Future Development Based on Risk**
- Encourage mixed-use residential growth in lower risk areas.
- Integrate and implement programs to encourage new development in flood-prone areas.
- Integrate safety provisions for all future developments in high-risk areas.
- Ensure development at the end of the risk of commercial developments in high-risk areas. Update long-term vacancy.

**Identify ways to address Insurance affordability**
- Analyze the feasibility for incentives to encourage NFIP and develop the non-flood insurance program.
- Provide support and incentives to communities in floodplains for participation in NFIP’s Community Rating System (CRS).

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SAN FRANCISCO BAY SHORELINE

**ADAPTATION ATLAS**

LA SAFE

Environmental and Energy Study Institute

NYC Flood Hazard Mapper

NOAA ATLAS 14 POINT PRECIPITATION FREQUENCY ESTIMATES, N
Disaster preparedness

5.2 Congress should update the National Flood Insurance Program (NFIP) to discourage construction in risk-prone areas, including by requiring that flood insurance rate maps consider climate projections and reflect actual risk, and continue to ensure the affordability of premiums.
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