

Addressing Housing and Climate Impact

Join the conversation!





Addressing Housing and Climate Impact

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National Housing Trust



About NHT

The National Housing Trust protects, improves and maintains existing affordable housing so that low-income families can live in quality neighborhoods with access to opportunities.

Policy Innovation

Lending

Real Estate Development

Energy Solutions







Two Approaches to Climate Impact

- 1. Reducing Impact through Carbon Reduction
 - Energy Efficiency
 - Renewable Energy Generation
- 2. Resilience/Preparation for Changing Climate





Carbon Reduction:

Energy Efficiency





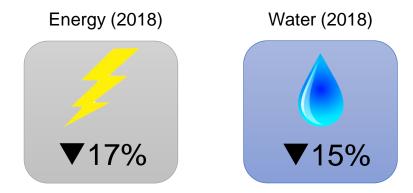
Multifamily Rental Energy Usage

Lighting (7%) Cooling (7%) Plug Loads (24%) **Heating (25%)** Water Heating (32%)





Better Buildings Challenge



\$175,000 A YEAR IN SAVINGS \$1.75 MILLION OVER 10 YEARS





Carbon Reduction:

Renewable Energy Generation





Garden Apartments with Pitched Roofs



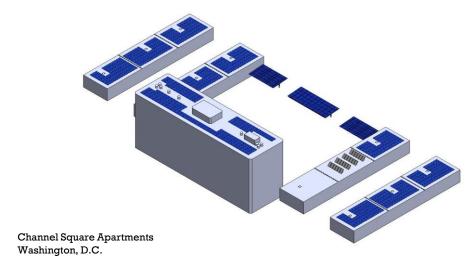


City Gardens Santa Anna, California





Highrises and Townhomes with Flat Roofs







Flat Roofs on Structural Supports



R Street Apartments, Washington, D.C.





Carports and Canopies



Channel Square Apartments Washington, D.C.





Fields



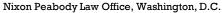
Denver Housing Authority Community Solar Field, Aurora, Colorado





Walls









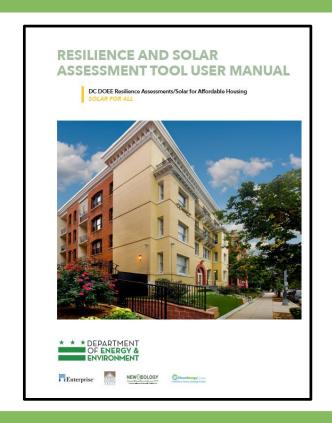
Resiliency:

Preparing for a Changing Climate





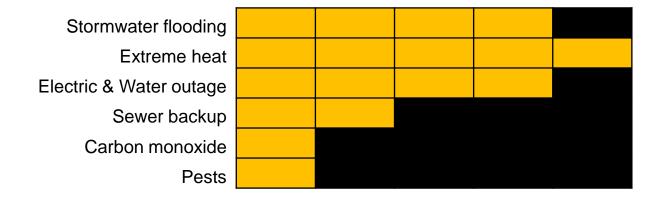
Multifamily Resiliency Assessment Tool







Threats Identified







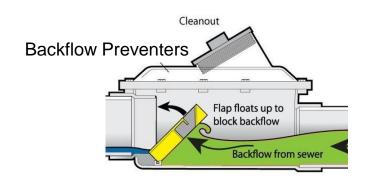
Mitigation: Emergency Planning







Mitigation: Flood Management







Walling off Equipment

Sump Pumps





Mitigation: Solar & Battery Storage









Mitigation: Resilience Hub

WHAT IS A RESILIENCE HUB?

OFF GRID SOLAR POWER

Designed to provide power during an emergency, and reconnect to the grid once power is restored.











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POLICY INNOVATION

LENDING

DEVELOPMENT

ENERGY SOLUTIONS







Low Income Investment Fund

Building Healthy, Vibrant Communities



LIIF's Climate Resilience Work

Strong, Prosperous, and Resilient Communities Challenge (SPARCC). SPARCC is an initiative to expand the capacity of communities to shape the built environment so that people of all races and incomes benefit and thrive. This initiative is located in Atlanta, Chicago, Denver, Los Angeles, Memphis and SF Bay Area and includes LIIF, Enterprise Community Partners, the Federal Reserve Bank of San Francisco, and the National Resources Defense Council.

Climate Focus:

Develop climate-smart communities to reduce the pollution that causes climate change (mitigation), reduce threats introduced or exacerbated by climate change (adaptation), and strive for equitable benefits of the policies and investments being implemented.

Early Care & Education (ECE). LIIF uses capital, capacity building and public advocacy to build sustainable community-based systems to support child care facility financing and development.

Climate Focus:

After a series of fires in Northern California, LIIF partnered with Sonoma County to help replace nearly 500 licensed early care and education spaces. This successful response has prompted LIIF to identify best practices for replication, in addition to post disaster ECE supply building and framing our work on adapting to climate change and including ECE in future disaster plans.



LIIF's Green Investments

LIIF acknowledges that sound development has a three-fold benefit for communities in which we lend: environmental (reduced carbon emissions); financial (reduced energy costs); and wellness (positive health benefits). Projects designated as Green include sustainable and regenerative development approaches or components such as:

- Transit Oriented Development: intentionally located near public transportation for reduced transportation related energy use and emissions, while providing access to affordable housing and quality jobs
- Energy Retrofitting: LIIF's retrofitting projects strive to reduce energy costs and usage by 10-30% on average
- LEED Certifications: Many of the projects in LIIF's overall portfolio would qualify for a LEED Silver designation, and some would qualify for LEED Gold or Platinum designations



LIIF's July 2019 Sustainability Bond Transaction

On July 25, 2019 LIIF closed on a \$100 million sustainability bond. Highlights of the transaction included:

- A 10x oversubscription, with 4x attributable to ESG (Environmental, Social, Governance) motived investors
- Final issuance was \$25 million of 7 year notes maturing in 2026 and \$75 million of 10 year notes maturing 2027 through 2029.
- No financial covenants

Benefits of the transaction to LIIF:

- Fixed the interest rate on over \$80 million of variable rate debt, eliminating interest rate risk
- Extended the term of debt, enabling LIIF to better asset/liability match its debt portfolio to loans receivable
- Provided flexible capital with no geographic or programmatic restrictions
- Diversified LIIF's sources of capital, moving beyond CRA-motivated investors





Your partner for clean energy TM

Solutions for Sustainability

Rosemarie Sabatino
Director of Business Operations

December 3, 2019



- ➤ Purpose: to accelerate investment in energy efficiency and renewable energy in Montgomery County
 - > Chartered by Montgomery County in June 2015
 - ➤ Independent, 501(c)3 corporation
 - ➤ Initial capitalization via the Pepco-Exelon merger
- Not a Bank, a nonprofit financial enterprise
 - ➤ Target: Leverage investment to attract private capital into clean energy marketplace; target 6:1
 - Strategy: Find and fill gaps in energy efficiency and renewable financing markets by co-investing with private lenders to reduce perceived risk
- > 13 other Green Banks across the US



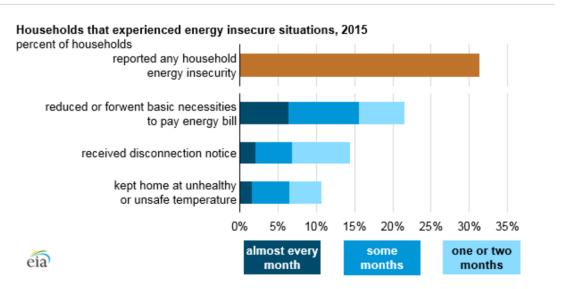
Sustainability in Home

Sustainability of the Environment



Opportunities for Energy Efficiency

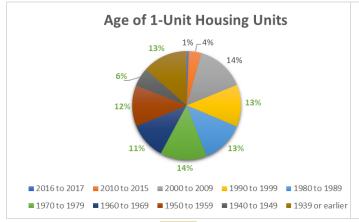
One in three U.S. households faces a challenge in meeting energy needs

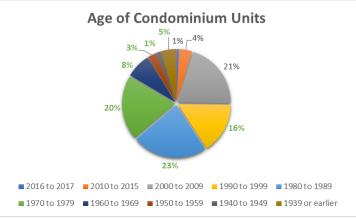




SF Housing Stock Needs Attention and Different Strategies

- 81% of all 1-unit attached and detached housing units were built at least 20 years ago
- 76% of all condominium units are in buildings built at least 20 years ago





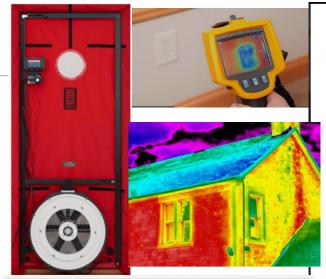




- > Residential metering
- Home Performance with Energy Star Programs
- Commercial metering utilities often all paid by condo association
- Commercial and Industrial Programs



Better Home Performance is Possible









Ways to Help Homeowners

- 1) Learn about:
 - The <u>utility programs</u> serving your communities and keep knowledge current
 - Local resources:
 - Departments of Environmental Protection State, County, City
 - -- Tax rebates/local incentives
 - -- Weatherization Programs
 - -- Sources of Financing, such as Green Banks
 - The <u>specialized players</u>:
 - -- Home Performance Contractors (https://www.building-performance.org/)
 - -- Public Service Commission
 - Utility Consumer Advocates (https://www.nasuca.org/)
- 2) Form new partnerships
- 3) Develop **new affordable financing products** targeted to this task
- 4) <u>Enhance homeownership counseling programs</u> to include energy improvement info

Sustainability in Home

Sustainability of the Environment





Leverage Existing Resources

- * The Energy Efficiency Partnerships
- * The Green Banks
- * US Department of Energy
- * American Council for an Energy Efficient Economy (ACEEE)
- * The Alliance to Save Energy

North Carolina Clean Energy Technology Center		Montgomery Energy Connection	
Nationwide Resource by Zip Code		Montgomery County, MD	
https://www.dsireusa.org/		https://montgomeryenergyconnection.org	
DSIRE®	NC CLEAN ENERGY TECHNOLOGY CENTER	MONTGOMERY • energy connection ⇒ YOUR LINK TO ENERGY SAVINGS	IN THE PARTY OF TH



The Energy Partnerships





Work with a Green Bank Near You – Or Think About Creating A Structure Like One

Climate Access Fund (MD)

Colorado Clean Energy Fund

Connecticut Green Bank

DC Green Bank

Florida Solar & Energy Fund

HAWAII Green Infrastructure Authority

Inclusive Prosperity Capital

Maryland Clean Energy Center

Michigan Saves

Montgomery County Green Bank

Nevada Clean Energy Fund

New York City Energy Efficiency Fund

New York Green Bank

Rhode Island Infrastructure Bank





























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https://mcgreenbank.org



DISASTER HOUSING RECOVERY SOLUTIONS

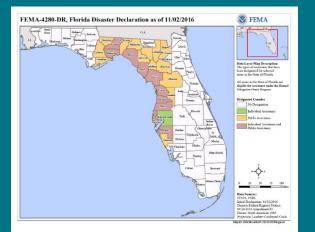
DECEMBER 3, 2019

HOUSING CONFERENCE SOLUTIONS 2019

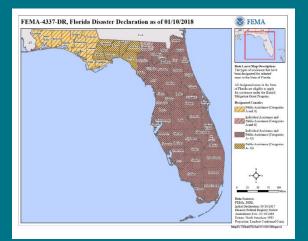
FLORIDA HOUSING COALITION

Presented by Gladys Cook
Disaster Resiliency and Recovery Director

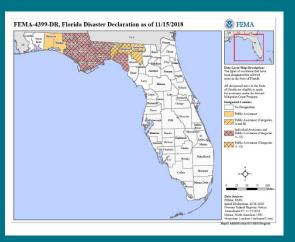
2016 Hermine and Matthew



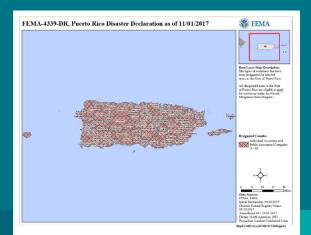
2017 Irma and Maria



2018 Michael



FEMA-4283-DR, Florida Disaster Declaration as of 11/04/2016 FEMA Phi Law Map Purposes Phi Law Map Purposes



2019 Dorian



Click Here for a Printer Friendly Graphic

How is Climate Migration Affecting Florida?

- Hurricane Irma- 600,000 evacuated from S. Florida
- 20,000 evacuated from Bay County pre- Hurricane Michael-25, 000 Bay Countians will not return
- 350,000 passenger arrivals in Florida from Puerto Rico post Hurricane Maria -20,000-50,000 will resettle permanently in Florida

- Irma- shelters remained open longer
- Displaced workforce in Monroe County- commuting from Florida City
- Hotel vouchers extended for Maria, Irma and Michael
- Bahamian displacement double UN estimate





Are Low Income Populations More Vulnerable to Natural Disasters?

- Evacuation Decision
- Housing Condition
- Information delay
- Preparation challenges
- Need special assistance
- Access to Transportation
- Money for gas and hotels
- Civil Rights Issues- accessibility, evictions







What are the Primary Disaster Related Funding Sources? Storm related or not...

- FEMA- temporary repairs, rental assistance
- SBA- repair loans
- *CDBG- repair and buyout
- *CDBG-DR repair, rental, infrastructure, economic revitalization
- *CDBG-MIT-
- *HOME- single and multifamily acq, construction, rehab
- State Housing Trust Funds





What are some of the tools that can be deployed in preparation, response and recovery?

- Accurate and prompt damage Assessments coordinated with the work write up
- Case Management a smooth handoff from FEMA to Long Term Recovery
- Connect Case Management to Housing Counseling









Recovery Solutions ...

- Home Repair expedite
- Rental Assistance- temporary and long term
- Flexible land use regulations for RVS
- Rapid Temporary Repairs to allow returning home ex. FEMA STEP or RAPIDO
- Small Scale Rental Repairs- CDBG







Long Term Recovery Solutions...

 Multifamily Workforce Housing Development – ex. Tax credits

New Homeownership- financing

Surplus Land and Land Banking

Community Land Trust





Preparation tools...

- Mitigation 365
- Legal Advocacy
- Heir Title Resolution
- Innovative Designs-tiny homes, shipping containers, modular designs





What Systemic Changes are needed in Disaster Housing Recovery?

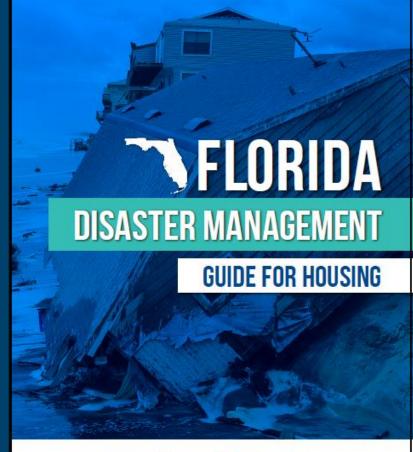
- Do not rely on State Housing Trust Funds for Disaster Recovery
- Establish an agreement with HUD to allow eligible activities to start in 30-60 days post disaster instead of 2+ years
- Use state rainy day funds or others with HUD reimbursement
- Establish Statewide Disaster Housing Recovery Agency
- Establish Housing Disaster CDC and Community land Trust





FHC is here for you! https://www.flhousing.org/disaster-recovery/

- Weekly Disaster Recovery Update Webinars
- Disaster Management Guidebook
- Technical assistance
- Housing Needs Assessments
- Governors Hurricane Conference
- Community Land Trust Institute









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