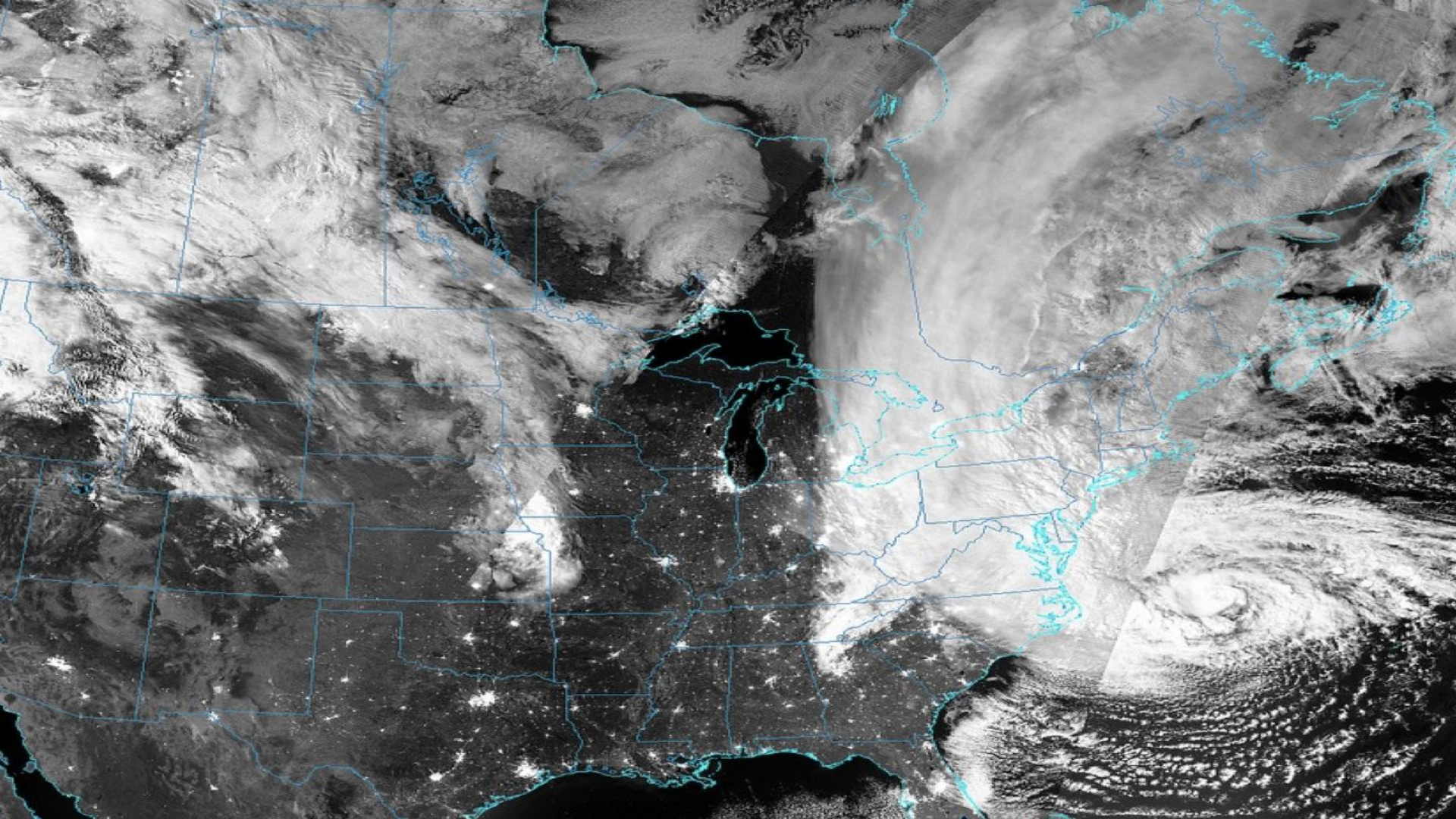


REBUILD BY DESIGN







PHYSICAL



SOCIAL

TYPICAL DESIGN PROCESS

Site

Budget

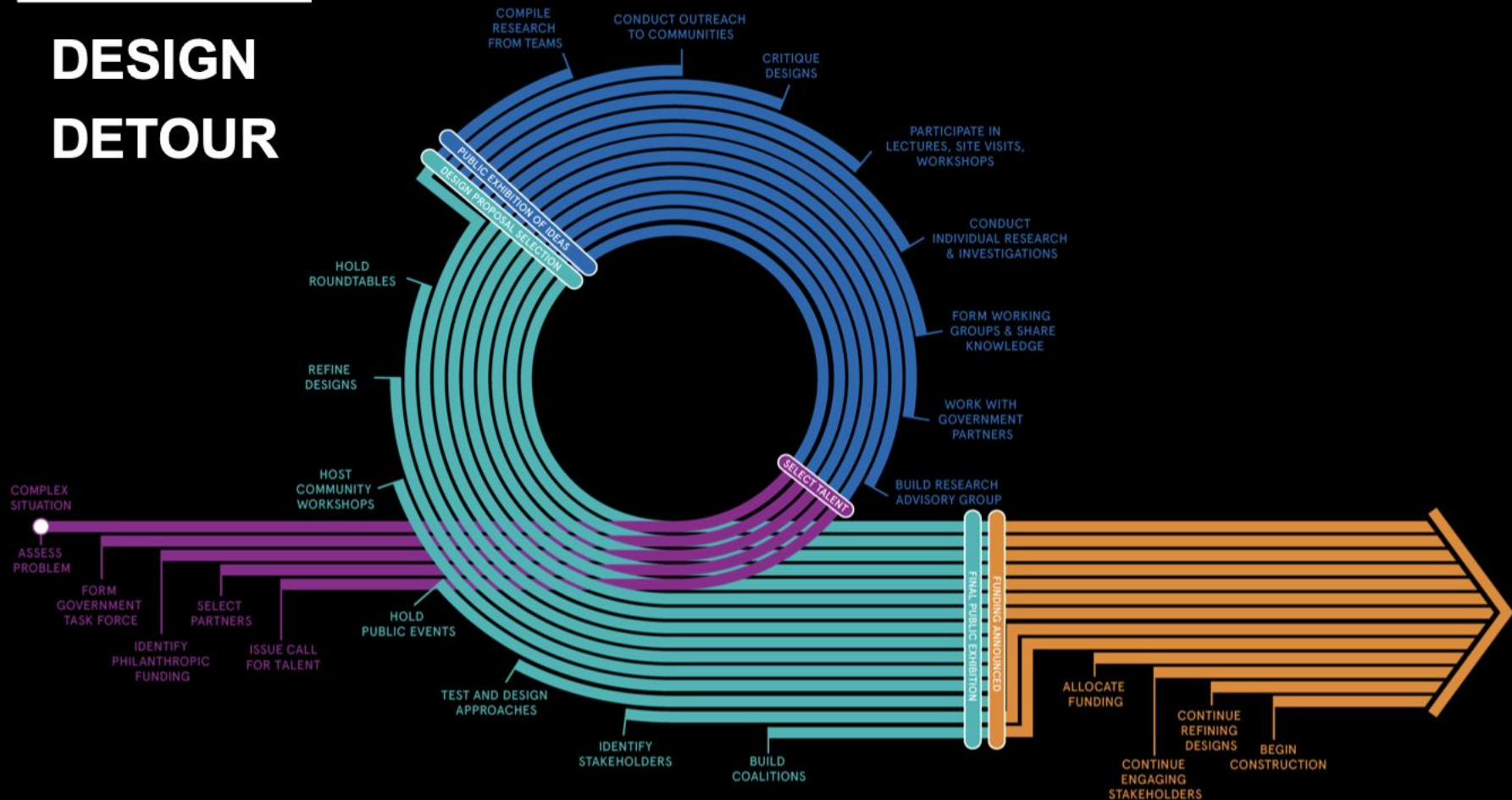
Program

Square Footage

Timeline



DESIGN DETOUR





COLLABORATIVE RESEARCH

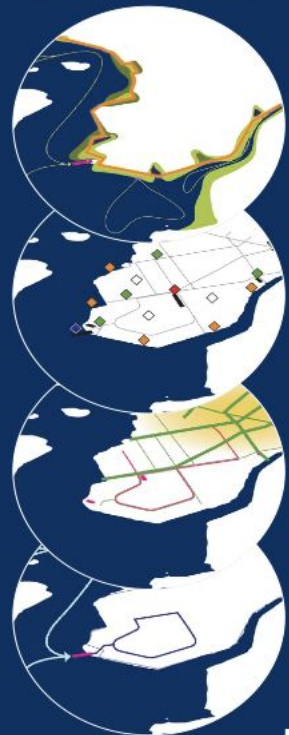


COLLABORATIVE DESIGN



Design + Program developed with stakeholders

DESIGN



INTEGRATED FLOOD PROTECTION SYSTEM

LIVELIHOODS + LEADERSHIP

CLEANWAY CONNECTIONS

EMERGENCY MARITIME SUPPLY



GOVERNMENT

FEDERAL:
 Congressman Jose E. Serrano (NY-15)
 US Army Corps of Engineers

STATE:
 Assemblyman A. Crespo 85th District
 NYS Department of Environmental Conservation
 NYS Department of Transportation

CITY:
 NYC Economic Development Corporation
 Office of the Mayor of New York City
 NYC Department of Environmental Protection
 NYC Office of Emergency Management
 NYC Department of City Planning
 NYC Department of Transportation
 NYC Department of Parks and Recreation

LOCAL:
 Community Board #2
 Community Board #2 - Environmental Committee

+ COMMUNITY

LOCAL ORGANIZATIONS:
 The Point Community Development Corporation
 Sustainable South Bronx
 Mothers on the Move
 Bronx River Alliance
 Rocking the Boat
 Majora Carter Group
 The Blk Projek
 Youth Ministries for Peace and Justice
 South Bronx Unite

OTHER COMMUNITY ADVOCACY:
 New York City Environmental Justice Alliance
 Environmental Defense Fund
 Pratt Center for Community Development
 Adam Liebowitz
 Mathews Nielsen
 WXY
 and more...

+ INDUSTRY

ADVOCACY:
 Hunts Point Economic Development Corporation

BUSINESSES:
 The Hunts Point Terminal Produce Cooperative Association
 Hunts Point Cooperative Market
 New Fulton Fishmarket at Hunts Point
 Smitty's Filet House (fish wholesaler)
 Nathel & Nathel (produce wholesaler)
 Vista Food Exchange
 Anheuser-Busch Distributors
 Il Forno Bakery
 Oak Restaurant & Grill

LABOR:
 Brotherhood of Teamsters Local 202
 United Food and Commercial Workers
 and more...



REGIONAL PROJECTS: \$4.3 Billion Climate Infrastructure

NEW YORK CITY:

- **\$335M:** The BIG U in Manhattan, NY
- **\$20M:** Lifelines in Hunts Point, Bronx, NY

NEW JERSEY:

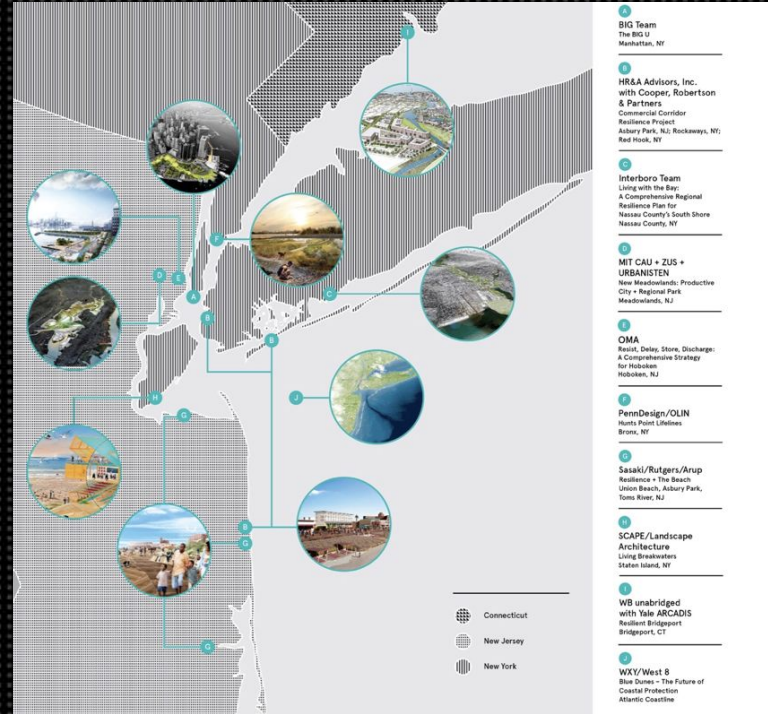
- **\$230M:** Resist, Delay, Store, Discharge in Hoboken, Weehawken, Jersey City, NJ
- **\$150M:** New Meadowlands in Little Ferry, Moonachie, Carlstadt, Teterboro, NJ

NEW YORK STATE:

- **\$125M** Living with the Bay in Nassau County, Long Island
- **\$60M:** Living Breakwaters in Tottenville, Staten Island, NY

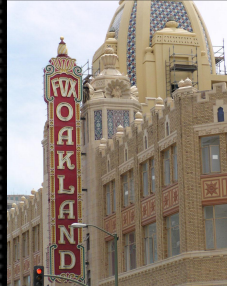
CONNECTICUT

- **\$10M:** Resilient Bridgeport in Bridgeport, CT



PLACE-BASED ENGAGEMENTS THROUGHOUT THE WORLD

- **Athens:** Promoted stewardship for Lycabettus Hill
- **Atlanta, GA:** Developed a student design competition for Ted Turner Drive Resilience Corridor
- **Amman:** RBD_U program on waste, water, transportation
- **Boulder, CO:** Created a resilient and sustainable mobile home park, and later designing a collaborative process to address COVID needs
- **Boston, MA:** Proposed a citywide plan to create resilience districts
- **Juarez, MX:** Executed a design competition for Juan Gabriel Plaza
- **Los Angeles, CA:** Collaborated with stakeholders to create climate-forward building codes
- **Mexico City:** Developed a master plan framework for Xochimilco
- **Oakland, CA:** Implemented a workshop series on effective engagement
- **San Juan, PR:** Convened experts and the community for a master plan process
- **Singapore:** Promoted a community led plan to build social resilience to address flash floods



“Vermont’s a little
unique,”
Harrington said.
“We don’t deal
with major
disasters on a
regular basis.”

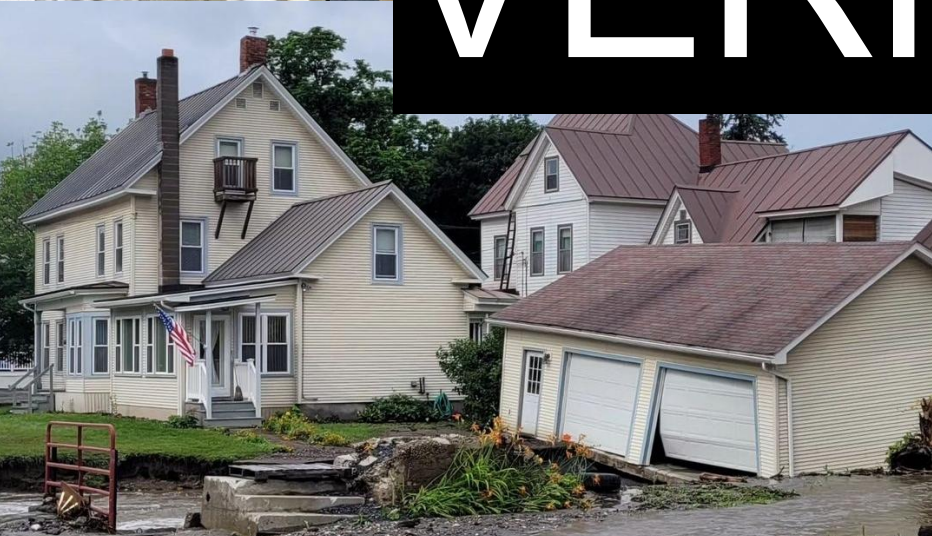
--Michael Harrington,
Commissioner
Department of Labor
September 6, 2023



Image By: Mike Dougherty/ VTDigger



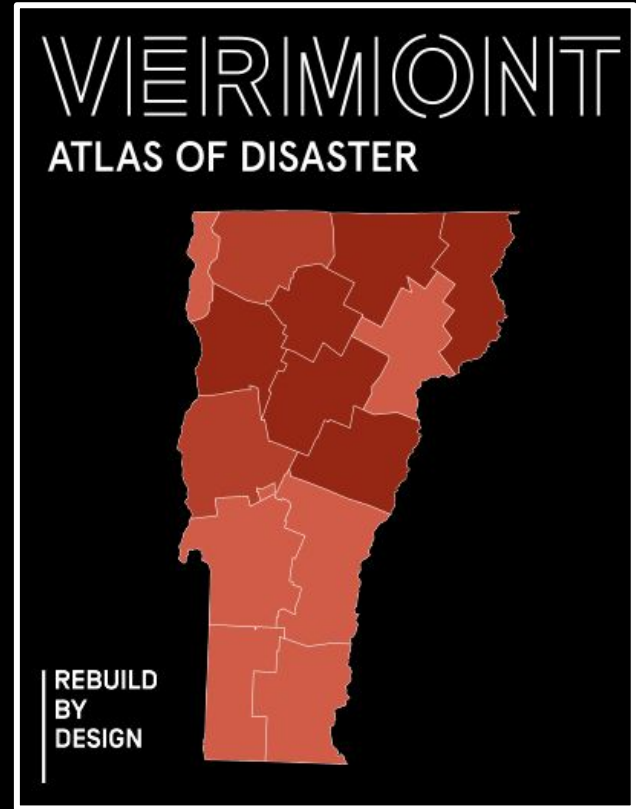
VERMONT



ATLAS OF DISASTER: VERMONT

KEY FINDINGS 2011-2021

- Experienced **17 federally declared major disasters** due to **extreme weather** between 2011-2021.
- **15** of those events were due to **tropical storms and flooding**.
- **Ranked 5th** in the country for **per capita post-disaster federal assistance**.
- **Ranked 7th** in the country for number of recent **disaster occurrences** (tied with Alabama, Texas, & West Virginia)
- **Every county has had 4 or more** recent major disasters, and **6 counties have had at least 10**.
- **Washington County** has had the **highest number of disaster declarations** in the state: **11** disasters.



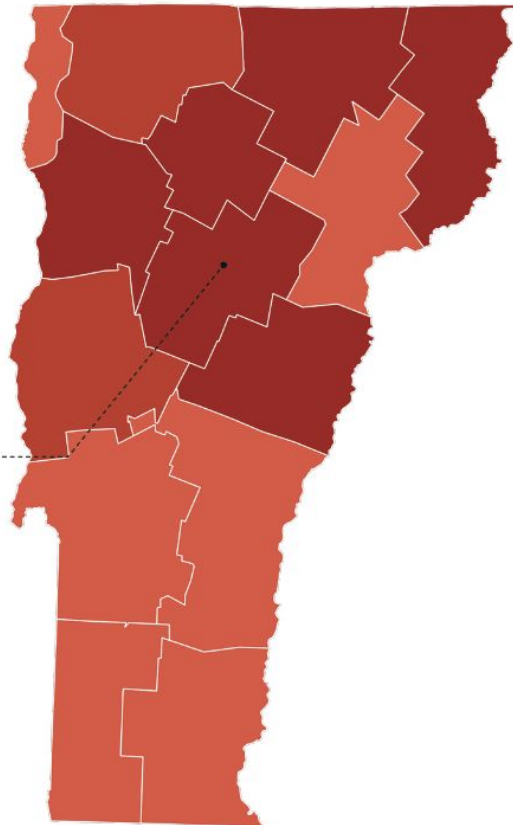
DISASTER OCCURRENCES 2011-2021

FEDERALLY DECLARED CLIMATE DISASTERS BY COUNTY

117
disaster
declarations

Every county in Vermont has had four or more recent climate disasters. Six out of the 14 counties have had 10 or more.

Washington County has experienced 11 recent disaster declarations - the highest in the State.



Number of Disaster Events

Major Disaster Declarations (2011-2021)

- 0 occurrences
- 1 occurrence
- 2-3 occurrences
- 4-6 occurrences
- 7-9 occurrences
- 10+ occurrences

FEDERAL ASSISTANCE 2011-2021

POST-DISASTER PUBLIC ASSISTANCE AND HAZARD MITIGATION FUNDS OBLIGATED BY COUNTY FOR CLIMATE DISASTERS

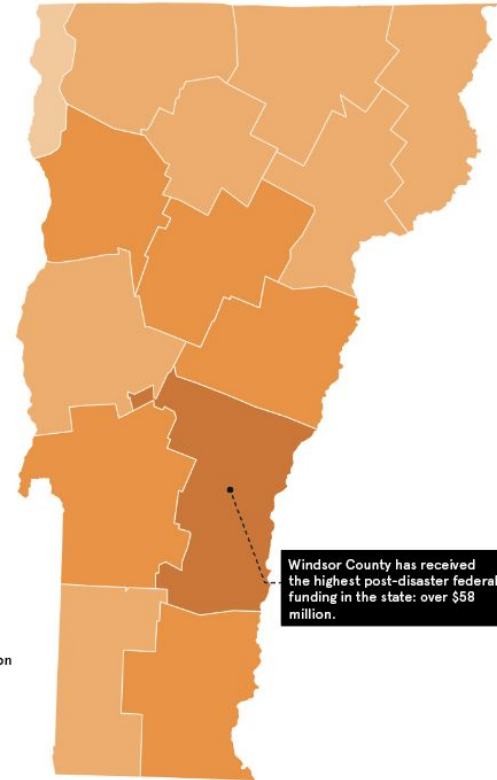
\$370M
post-disaster
assistance

\$331M FEMA obligations

\$39.5M HUD CDBG-DR Funds

\$370M FEMA + HUD assistance

\$593 per capita cost



Windsor County has received the highest post-disaster federal funding in the state: over \$58 million.

Public Assistance and Hazard Mitigation

Federal Share Obligated (2011-2021)

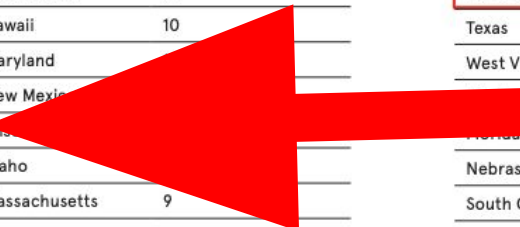
- \$0 to \$100K
- \$100K to \$1M
- \$1M to \$10M
- \$10M to \$50M
- \$50M to \$100M
- \$100M to \$1B
- \$1B to \$9B

DISASTER OCCURRENCES 2011-2021

TOTAL DISASTERS		TOTAL DISASTERS	
California	25	Virginia	11
Mississippi	22	Florida	11
Oklahoma	22	Georgia	11
Iowa	21	Minnesota	11
Tennessee	20	Connecticut	10
Louisiana	18	Hawaii	10
Alabama	17	Maryland	9
Texas	17	New Mexico	9
Vermont	17	Wisconsin	9
West Virginia	17	Idaho	9
Arkansas	16	Massachusetts	9
Kentucky	16	Pennsylvania	9
New Hampshire	16	South Carolina	8
New York	16	Colorado	7
Washington	16	Utah	7
Alaska	15	Maine	6
North Carolina	15	Michigan	6
Nebraska	14	Ohio	6
Missouri	13	Arizona	6
Kansas	13	Delaware	5
New Jersey	13	Illinois	5
North Dakota	13	Indiana	4
South Dakota	13	Rhode Island	4
Montana	12	Wyoming	4
Oregon	12	Nevada	3

FEMA AND HUD COST PER CAPITA 2011-2021

PER CAPITA		PER CAPITA	
Louisiana	\$1,736	New Mexico	\$97
New York	\$1,348	Arkansas	\$81
New Jersey	\$815	Massachusetts	\$81
North Dakota	\$738	Georgia	\$81
Vermont	\$593	Mississippi	\$81
Texas	\$518	Kansas	\$81
West Virginia	\$481	New Hampshire	\$81
Alabama	\$401	Rhode Island	\$53
Wisconsin	\$390	Minnesota	\$49
Nebraska	\$390	Pennsylvania	\$49
South Carolina	\$289	Virginia	\$49
Alabama	\$275	Maryland	\$39
South Dakota	\$269	Washington	\$36
North Carolina	\$243	Wyoming	\$32
Hawaii	\$229	Idaho	\$32
Iowa	\$228	Wisconsin	\$27
Oklahoma	\$215	Illinois	\$24
Oregon	\$210	Michigan	\$23
Missouri	\$162	Ohio	\$19
Mississippi	\$159	Maine	\$18
California	\$157	Delaware	\$14
Connecticut	\$149	Utah	\$11
Colorado	\$141	Nevada	\$11
Kentucky	\$105	Indiana	\$7
Tennessee	\$97	Arizona	\$2



VERMONT

TOTAL: 17 DISASTERS FEMA PA - HM: \$331M FEMA - HUD ASSISTANCE: \$370 M		2011				2012				2013				2014				2015				2017				2018				2019				2020				2021			
County Name	# of Claims	1001: SEVERE STORMS AND FLOODING		4001: SEVERE STORMS AND FLOODING		4022: TROPICAL STORM HURR		4041: SEVERE STORMS AND FLOODING		4082: SEVERE STORM, TORNADO, AND FLOODING		4123: SEVERE STORMS AND FLOODING		4140: SEVERE STORMS AND FLOODING		4160: SEVERE WINTER STORMS		4170: SEVERE STORMS AND FLOODING		4207: SEVERE WINTER STORM		4330: SEVERE STORM AND FLOODING		4330: SEVERE STORMS AND FLOODING		4336: SEVERE STORM AND FLOODING		4380: SEVERE STORM AND FLOODING		4440: SEVERE STORMS AND FLOODING		4574: SEVERE STORM AND FLOODING		4621: SEVERE STORM AND FLOODING							
		PA Obligations	HM Obligations	PA Obligations	HM Obligations	PA Obligations	HM Obligations	PA Obligations	HM Obligations	PA Obligations	HM Obligations	PA Obligations	HM Obligations	PA Obligations	HM Obligations	PA Obligations	HM Obligations	PA Obligations	HM Obligations	PA Obligations	HM Obligations	PA Obligations	HM Obligations	PA Obligations	HM Obligations	PA Obligations	HM Obligations	PA Obligations	HM Obligations	PA Obligations	HM Obligations	PA Obligations	HM Obligations	PA Obligations	HM Obligations						
Adams County	8	\$1,302,024	\$38,312	\$38,348		\$3,266,872	\$1,028,544																																		
Benning County	4	\$7,397,468				\$9,358,368	\$1,001,021																																		
Caledonia County	6	\$4,328,185			\$1,162,668	\$0		\$11,448																																	
Champlain County	10	\$11,376,416	\$2,400,000	\$228,772		\$403,897	\$1,342,584					\$1,458,800	\$0	\$1,254,314	\$0	\$88,577	\$0																								
Essex County	10	\$2,364,165	\$361,800	\$0	\$1,349,668	\$0	\$55,127	\$0																																	
Franklin County	8	\$4,405,814	\$361,802	\$0		\$300,874	\$502,384	\$820,020	\$0																																
Grand Isle County	5	\$542,264	\$602,094	\$0		\$0	\$0																																		
Lamoille County	10	\$4,914,022	\$361,804	\$28,448		\$1,282,312	\$1,328,204																																		
Orange County	10	\$11,125,668				\$5,790,160	\$5,461,548																																		
Orleans County	10	\$9,316,020	\$1,161,240	\$0		\$1,270,740	\$277,848																																		
Rutland County	5	\$22,161,000				\$12,161,000	\$18,000,000																																		
Washington County	11	\$23,084,000	\$604,807	\$0	\$4,164,000	\$91,071																																			
Windsor County	4	\$32,448,982				\$39,860,917	\$3,919,328	\$108,380	\$0																																
White County	8	\$42,177,242				\$42,228,218	\$7,361,648																																		
Total FEMA Allocation		\$320,582,080	\$15,106,804	\$922,116	\$10,648,740	\$111,208	\$286,216,071	\$30,244,704	\$446,567	\$216	\$1,217,781	\$486	\$1,814,880	\$140,800	\$61,102,870	\$85,216	\$8,342,341	\$60,004	\$1,824,020	\$103	\$3,940,000	\$111,222	\$1,406,161	\$7,540	\$11,616,696	\$940,460	\$0	\$18,896	\$76,404	\$3,246,707	\$47,700	\$0	\$11,172,135	\$10,011,180	\$18,000	\$141,800					

VERMONT

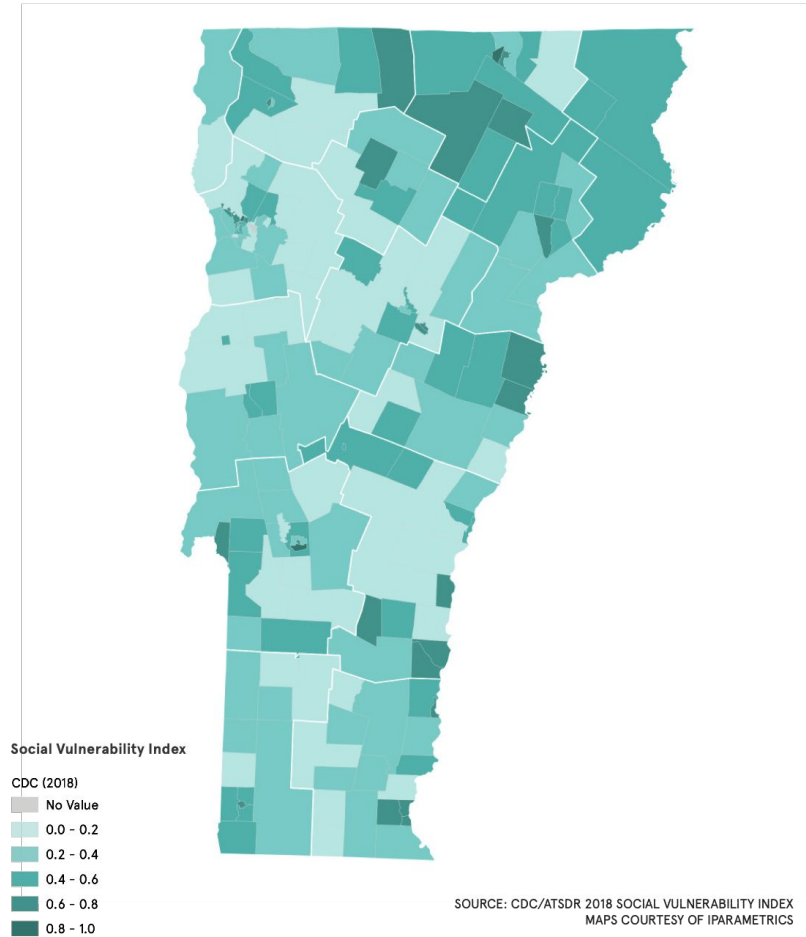
TOTAL: 17 DISASTERS
FEMA PA + HM: \$331M
HUD CDBG-DR: \$39.5 M
FEMA + HUD ASSISTANCE: \$370 M

2011

County Name	# of Climate Disasters 2011-2021	Total FEMA Obligations	1995: SEVERE STORMS AND FLOODING		4001: SEVERE STORMS AND FLOODING		4022: TROPICAL STORM IRENE		4043: SEVERE STORMS AND FLOODING		4066: SEVE AI
			PA Obligations	HM Obligations	PA Obligations	HM Obligations	PA Obligations	HM Obligations	PA Obligations	HM Obligations	PA Obligat
Statewide	17	\$127,173,118	\$6,777,749	\$11,338	\$674,418	\$19,715	\$93,255,030	\$4,573,057	\$20,995	\$316	\$2
Addison County	8	\$7,833,824	\$288,312	\$236,548			\$3,628,573	\$1,638,141			\$12
Bennington County	4	\$7,597,696					\$6,339,296	\$1,001,021			
Caledonia County	6	\$6,326,165			\$3,152,698	\$0	\$2,242,702	\$113,495			
Chittenden County	10	\$11,879,816	\$2,460,958	\$225,772			\$439,637	\$1,291,054			
Essex County	10	\$2,269,186	\$391,202	\$0	\$1,396,986	\$0	\$52,197	\$0			
Franklin County	8	\$4,400,614	\$290,862	\$0			\$300,874	\$592,394	\$600,020	\$0	
Grand Isle County	5	\$642,564	\$642,564	\$0			\$0	\$0			
Lamoille County	10	\$9,648,677	\$909,281	\$28,458			\$1,536,312	\$1,230,209			\$26
Orange County	10	\$11,123,688			\$167,667	\$0	\$5,790,765	\$549,046			
Orleans County	10	\$6,319,426	\$1,111,248	\$0			\$1,920,785	\$657,688			\$60
Rutland County	5	\$20,115,836					\$12,181,097	\$3,619,559			
Washington County	11	\$23,598,405	\$836,627	\$0	\$5,154,030	\$91,571	\$9,115,274	\$3,735,881	\$220,072	\$0	
Windham County	4	\$33,446,662					\$28,690,917	\$3,501,209	\$105,280	\$0	
Windsor County	5	\$58,177,312					\$43,722,813	\$7,781,951			
Total FEMA Allocation		\$330,552,989	\$13,708,804	\$502,116	\$10,545,799	\$111,286	\$209,216,271	\$30,284,704	\$946,367	\$316	\$1.01

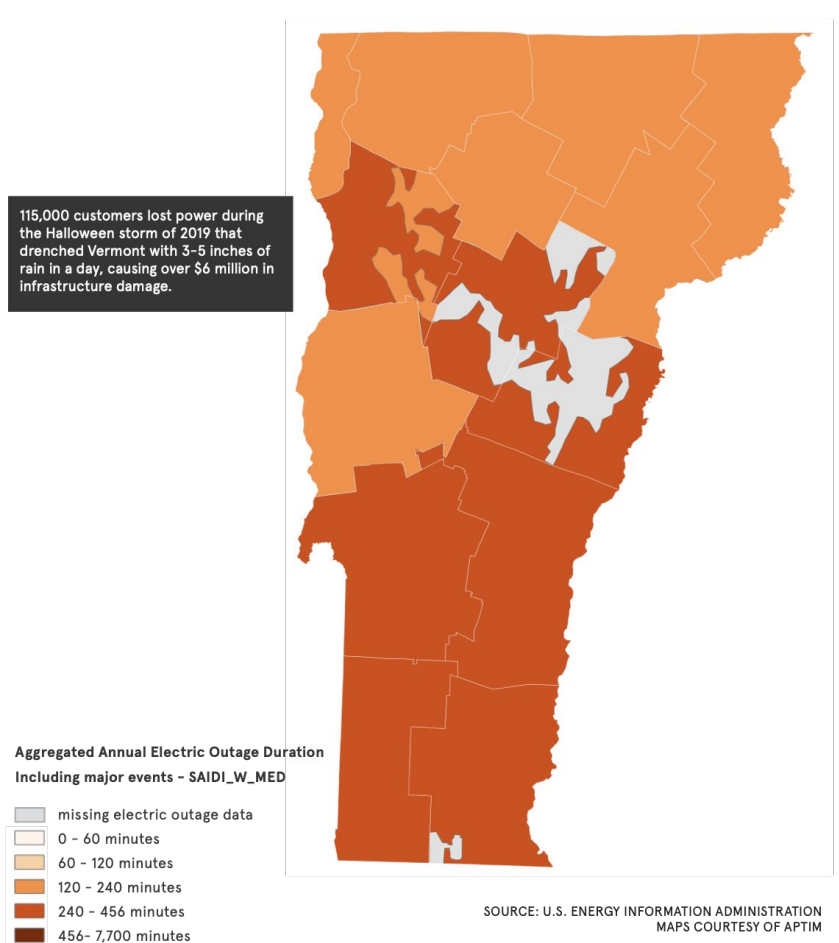
SOCIAL VULNERABILITY INDEX 2011-2021

AREAS OF GREATEST SOCIAL VULNERABILITY



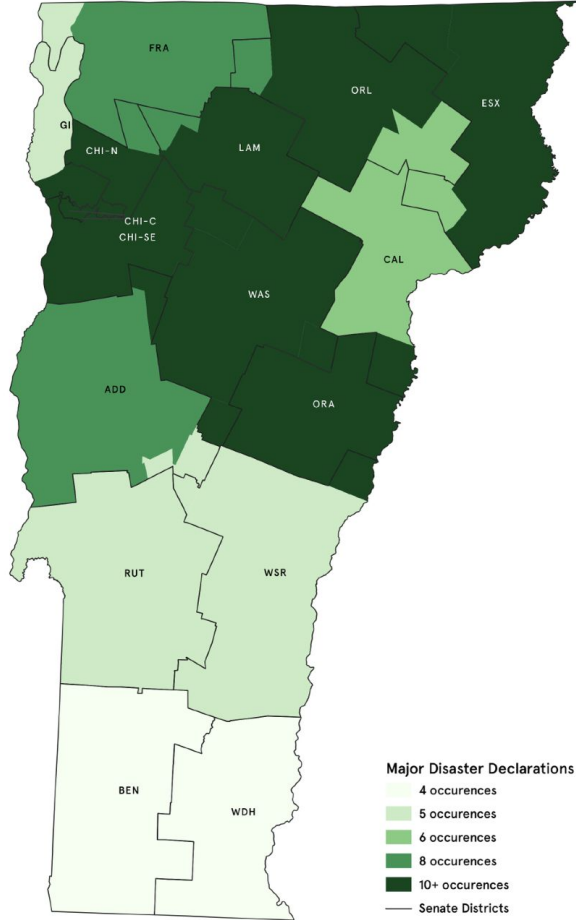
ENERGY RELIABILITY 2011-2021

COUNTIES AT GREATEST RISK OF POWER OUTAGES



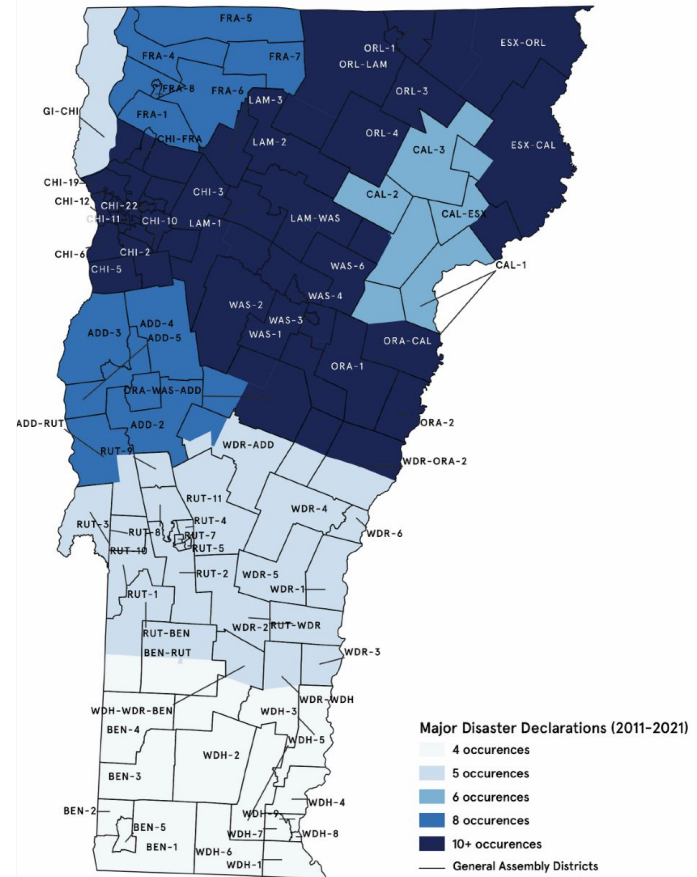
VT SENATE DISTRICTS

MAJOR DISASTER DECLARATIONS 2011-2021



VT GENERAL ASSEMBLY DISTRICTS

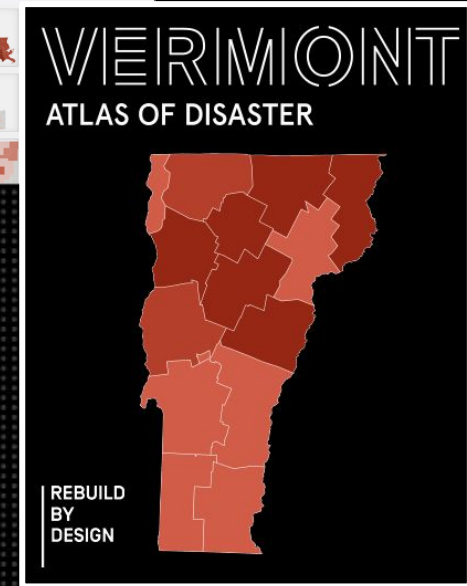
MAJOR DISASTER DECLARATIONS 2011-2021



SOURCE: FEMA 2021; VT LEGISLATIVE BOUNDARIES
MAPS COURTESY OF IPARAMETRICS

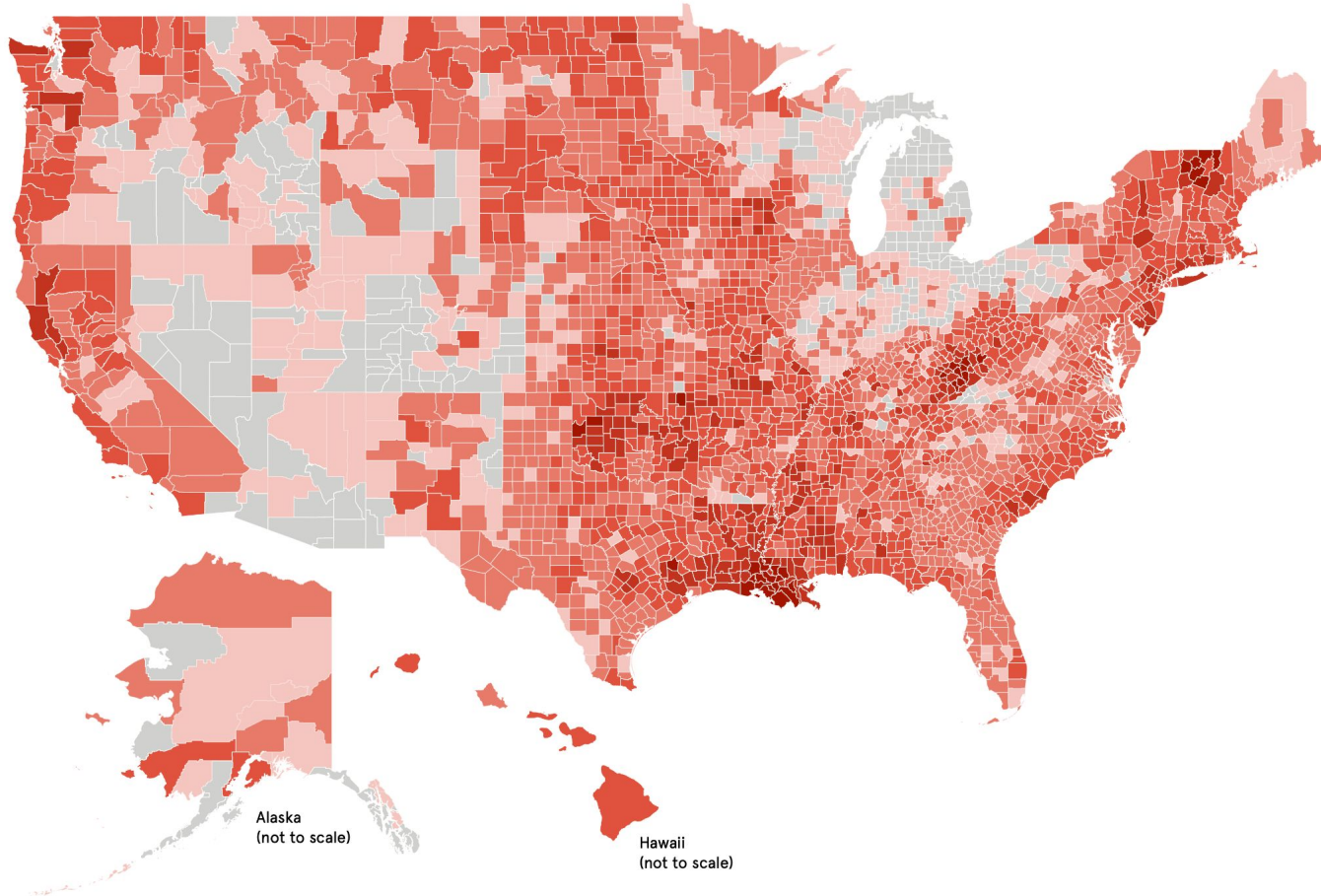
ATLAS OF DISASTER

1. County-level data for the entire U.S. - over 300 maps
2. Status of current disaster and adaptation practices, and discussion of what should be changed
3. Cost of Inaction
4. Guide for States to build a Collaborative Program
5. New Finance tools
6. Cost Benefit Reform
7. Recommendations



Created in partnership with APTIM and iParametrics

U.S. DISASTER OCCURRENCES 2011-2021





**90% of counties in the
U.S. have had a federal
disaster declaration due
to extreme weather
between 2011-2021.**

Alaska
(not to scale)

Hawaii
(not to scale)

CLIMATE CHANGE IS COMING

CLIMATE CHANGE ~~IS COMING~~

CLIMATE CHANGE IS HERE.

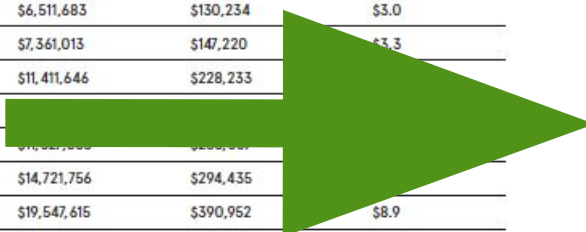
**VERMONT NEEDS SUSTAINABLE
SOURCES OF LONG-TERM
CLIMATE ADAPTATION
INFRASTRUCTURE FUNDING.**

CAPACITY OF A TWO PERCENT SURCHARGE P&C INSURANCE

	TOTAL INSURED P&C	TOTAL INSURED WITHOUT MED MAL AND WC	TWO PERCENT SURCHARGE WITHOUT BONDING	TWO PERCENT SURCHARGE WITH 10-YEAR BONDING(IN BILLIONS)
Total 50 States	\$695,509,700	\$629,385,861	\$12,587,717	\$287.1
Alabama	\$9,464,513	\$8,948,954	\$178,979	\$4.1
Alaska	\$1,655,434	\$1,402,346	\$28,047	\$0.6
Arizona	\$12,414,975	\$11,338,136	\$226,763	\$5.1
Arkansas	\$5,706,307	\$5,396,813	\$107,936	\$2.4
California	\$84,880,338	\$72,448,508	\$1,448,970	\$32.9
Colorado	\$14,285,006	\$13,069,112	\$261,382	\$5.9
Connecticut	\$8,992,575	\$8,131,839	\$162,637	\$3.7
Delaware	\$2,906,697	\$2,664,456	\$53,289	\$1.2
Florida	\$55,576,482	\$51,794,341	\$1,035,887	\$23.5
Georgia	\$22,954,861	\$20,953,153	\$419,063	\$9.5
Hawaii	\$2,701,615	\$2,381,525	\$47,631	\$1.1
Idaho	\$3,231,796	\$2,759,183	\$55,184	\$1.3
Illinois	\$27,060,540	\$24,181,953	\$483,639	\$11.0
Indiana	\$12,037,170	\$11,100,606	\$222,012	\$5.0
Iowa	\$6,790,563	\$6,069,738	\$121,395	\$2.8
Kansas	\$6,980,593	\$6,511,683	\$130,234	\$3.0
Kentucky	\$8,042,654	\$7,361,013	\$147,220	\$3.3
Louisiana	\$12,396,192	\$11,411,646	\$228,233	\$5.2
Maine	\$2,476,882	\$2,222,882	\$47,000	\$1.1
Maryland	\$12,684,730	\$11,684,730	\$1,000,000	\$22.2
Massachusetts	\$16,354,175	\$14,721,756	\$294,435	\$6.6
Michigan	\$20,817,467	\$19,547,615	\$390,952	\$8.9
Minnesota	\$12,462,639	\$11,416,765	\$228,335	\$5.2

	TOTAL INSURED P&C	TOTAL INSURED WITHOUT MED MAL AND WC	TWO PERCENT SURCHARGE WITHOUT BONDING	TWO PERCENT SURCHARGE WITH 10-YEAR BONDING(IN BILLIONS)
Mississippi	\$5,591,834	\$5,192,253	\$103,845	\$2.4
Missouri	\$12,677,046	\$11,576,608	\$231,532	\$5.3
Montana	\$2,603,859	\$2,293,122	\$45,862	\$1.0
Nebraska	\$5,246,314	\$4,842,941	\$96,859	\$2.2
Nevada	\$6,256,046	\$5,736,060	\$114,721	\$2.6
New Hampshire	\$2,594,294	\$2,323,267	\$46,465	\$1.1
New Jersey	\$22,875,472	\$19,993,159	\$399,863	\$9.1
New Mexico	\$3,749,295	\$3,392,114	\$67,842	\$1.5
New York	\$47,566,816	\$42,000,000	\$5,000,000	\$110.0
North Carolina	\$17,059,009	\$15,000,000	\$2,000,000	\$45.0
North Dakota	\$2,616,611	\$2,200,000	\$400,000	\$1.0
Ohio	\$17,738,127	\$16,000,000	\$1,500,000	\$37.5
Oklahoma	\$8,605,457	\$7,800,000	\$800,000	\$18.0
Oregon	\$7,732,347	\$6,800,000	\$900,000	\$20.0
Pennsylvania	\$26,196,056	\$22,000,000	\$4,000,000	\$90.0
Rhode Island	\$2,644,794	\$2,300,000	\$300,000	\$7.0
South Carolina	\$10,636,489	\$9,500,000	\$1,100,000	\$24.5
South Dakota	\$2,555,563	\$2,200,000	\$300,000	\$7.0
Tennessee	\$12,534,747	\$11,000,000	\$1,500,000	\$33.0
Texas	\$61,402,995	\$58,000,000	\$3,000,000	\$66.0
Utah	\$5,405,102	\$4,898,669	\$97,973	\$2.2
Vermont	\$1,506,858	\$1,302,233	\$26,045	\$0.6
Virginia	\$14,885,228	\$13,589,738	\$271,795	\$6.2
Washington	\$16,288,384	\$13,551,966	\$271,039	\$6.2
West Virginia	\$3,165,210	\$2,795,077	\$55,902	\$1.3
Wisconsin	\$11,213,538	\$9,196,595	\$183,932	\$4.2
Wyoming	\$1,288,005	\$1,263,939	\$25,279	\$0.6

\$600 million/10 years



\$0.6

INFRASTRUCTURE RESILIENCE CHARGE BENEFITS

- **Progressive**, by surcharging property wealth protection.
- Would go directly back to making those insured assets **more resilient**.
- Could decrease **certain insurance premiums**. FEMA's community rating program will reward community-wide actions that lower risk by reducing flood insurance premiums 5% - 45%
- The investment can **seed a new industry** and support thousands of jobs



The National Guard

INSTITUTIONALIZING EQUITY INTO THE PROGRAM

The surcharge could be instituted on the types of insurance that would broadly be impacted by climate, and not on lines such as workers compensation or medical malpractice.

It could also exempt the lowest income policy holders and affordable housing.

P& C Insurance: Written Premium Source	Vermont	Broadly supporting policy
YEAR: 2019		
Fire	\$32,092	\$32,092
Allied lines (accounts receivable, data-processing equipment, water damage and vandalism)	\$16,603	\$16,603
Crop Total	\$3,043	\$3,043
Multiple Peril Crop	\$3,041	\$3,041
Federal flood	\$4,634	\$4,634
Private Flood	\$586	\$586
Farmowners	\$15,600	\$15,600
Homeowners multiple peril	\$212,610	\$212,610
Commercial multiple peril Total	\$145,376	\$145,376
Comm'l Multi Pri (Liab)	\$55,325	\$55,325
Comm'l Multi Pri (Non-Liab)	\$90,051	\$90,051
Mortgage guaranty	\$12,409	\$12,409
Ocean Marine	\$3,871	
Inland Marine	\$49,736	
Medical professional liability	\$17,034	
Earthquake	\$28,697	\$28,697
Workers Comp. Total	\$187,591	
Workers' compensation	\$185,438	
Excess worker comp.	\$2,153	
Other liability Total	\$110,454	\$110,454
Oth Liab (Claims)	\$38,710	
Oth Liab (Occurrence)	\$71,744	
Products liability	\$6,387	
Automobile Total	\$473,912	\$473,912
Comm'l Auto Phys	\$28,590	\$28,590
Oth Comm'l Auto Liab	\$49,860	\$49,860
Oth Pvt Pass Auto Liab	\$186,550	\$186,550
Pvt Pass Auto Phys Damage	\$208,911	\$208,911
Aircraft (all perils)	\$1,624	
Fidelity (fraudulent acts)	\$3,550	
Surety (guarantor for project completion)	\$8,791	
Burglary and theft	\$646	
Boiler and machinery	\$5,259	\$5,259
Credit	\$2,755	
Warranty	\$8,818	
Agg. Write-ins for other lines/Other P&C	\$140,220	
Accident & Health Total	\$14,560	
Group A&H	\$12,971	
Grtd Renewable A&H	\$1,035	
Oth A&H	\$546	
	\$1,506,858	Total
1.5 percent surcharge	\$22,603	

INSURANCE SURCHARGE BILLS VERMONT S.145 / H.105

SUGGESTED REVISIONS:

Determine the surcharge through a percentage instead of a set amount. This will ensure that the fund will grow over time and be responsive to the needs.

Define where the types of projects the fund will support
Example: The NYS Bond Act included buckets such as \$1.1 Billion for water infrastructure, \$250 Million for retreat, \$650 Million for Open Space Conservation and Recreation, etc. this will ensure that the money goes to its intended uses and voters will support.



Atlas of Disaster, 2022

H.809/S259 STATE SUPERFUND

- Holds polluters accountable for profiting on the back of our health and environment
- Direct policy connection - those who made the mess should fund the cleanup
- Can raise \$2.5 Billion



COMMUNITIES ARE VOTING FOR ADAPTATION FUNDING

RECENT VOTER-APPROVED BALLOT MEASURES

YEAR	LOCALITY	AMOUNT	PURPOSE	STATUS
2022	New York	\$4.2 billion bond	Ecological and Climate Resilience	67.5%
2021	Denver, CO	\$40 million per year	Raised the city's sales tax by 0.25% to address climate - both mitigation and adaptation efforts. 50% of the fund is directed toward underserved communities	62.34%
2021	Maine	\$100 million bond	Municipal, regional and state infrastructure adaptation improvements that support public safety and emergency management and infrastructure resiliency	72%
2021	Virginia Beach, VA	\$567.5 million bond	Design and construction of flood mitigation measures as part of a comprehensive flood protection program	72.72%
2020	Key Biscayne, FL (Miami-Dade County)	\$100 million bond	\$40 million for mitigating the effects of sea level rise and flooding, \$23 million for protecting the beaches and shoreline, and more than \$35 million to harden and place infrastructure underground to withstand hurricanes.	56.55%
2018	California	\$4 billion bond	Environmental and recreational purposes	57.59%
2018	Harris County, TX	\$2.5 billion bond	Flood damage reduction projects	85%
2018	San Francisco Bay Area, CA	\$425 million bond	Seismic strengthening and flood protection projects for the hundred-year-old Embarcadero seawall and other critical infrastructure	82.7%
2017	Miami, FL	\$400 million	Sea-Level Rise and Flood Prevention, Roadways, Parks and Cultural Facilities, Public Safety and Affordable Housing	55%
2016	San Francisco Bay Area, CA	\$12 parcel tax to raise approximately \$25 million annually, or \$500 million over twenty years	San Francisco Bay: wetlands restoration to address clean water, pollution prevention, and habitat restoration	69%
2012	Rhode Island	\$20 million	Bond for environmental and recreational purposes	69.8%


NYS ENVIRONMENTAL BOND ACT

Created the research, strategy, and coalition that led former Governor Andrew Cuomo to create the **\$3 billion** Environmental Bond Act that provides ecological restoration and flood resilience.

Governor Kathy Hochul, recognizing additional needs, recently proposed to increase the Bond Act to **\$4.2 billion**.

The Bond Act was approved by voters in **November 2022**.



An aerial photograph of Lower Manhattan, New York City, showing a dense urban landscape with numerous skyscrapers. A large, irregularly shaped area in the foreground is highlighted with a bright yellow outline, forming a 'U' shape. This area is filled with green trees and grass, indicating a park or green space under construction. The surrounding city is in grayscale, making the highlighted area stand out. The Hudson River is visible on the right side of the image.

THE BIG U
Lower Manhattan

UNDER CONSTRUCTION

LIVING BREAKWATERS

STATEN ISLAND + RARITAN BAY
HUD REBUILD BY DESIGN



UNDER CONSTRUCTION

HOBOKEN, NJ



RESIST $\text{—} \text{⊖} \text{—}$

DELAY $\text{—} \text{||} \text{—}$

STORE $\text{—} \text{||} \text{—}$

DISCHARGE $\text{—} \text{⊗} \text{—}$

THIS IS NOT EASY: WE CAN WORK TOGETHER

- 1 Mobilize investments in climate infrastructure
- 2 Shift investments from post-disaster to pre-disaster
- 3 Catalyze collaborative planning processes that bring together businesses, residents, and the broader VT community

**REBUILD
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DESIGN**

QUESTIONS

Amy Chester, Managing Director:
achester@rebuildbydesign.org

A vertical white line is positioned to the left of the 'REBUILD BY DESIGN' text, separating it from the 'QUESTIONS' section.

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