









Overarching Themes:

- Declining Optimism
- Deepening geopolitical and geoeconomic tensions
- Growing Sense of Societal Fragmentation

Top Concerns:

- 2-year horizon:
 - #1: misinformation and disinformation
 - #2: Extreme weather
- 10-year horizon:
 - #1: Extreme weather
 - #2: Biodiversity loss and ecosystem collapse

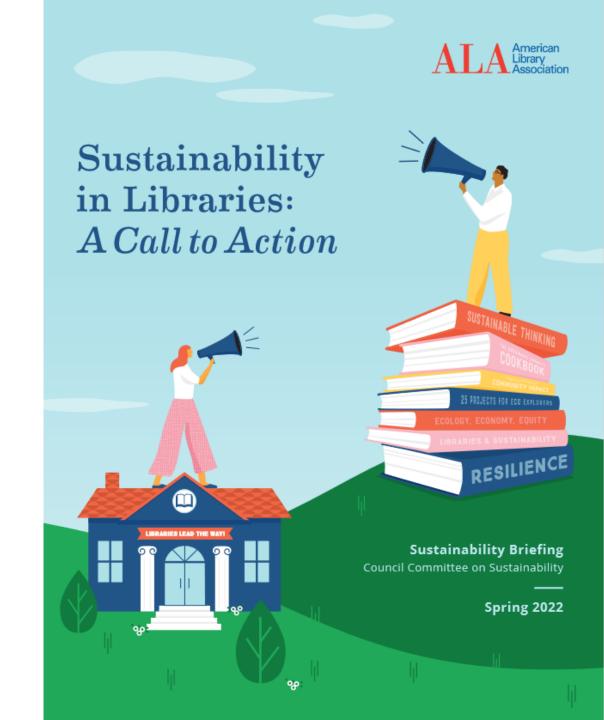


"Climate change is the single

greatest threat to global health, a

"code red for humanity," and is this

generation's grandest challenge."



Sustainability = Core Value



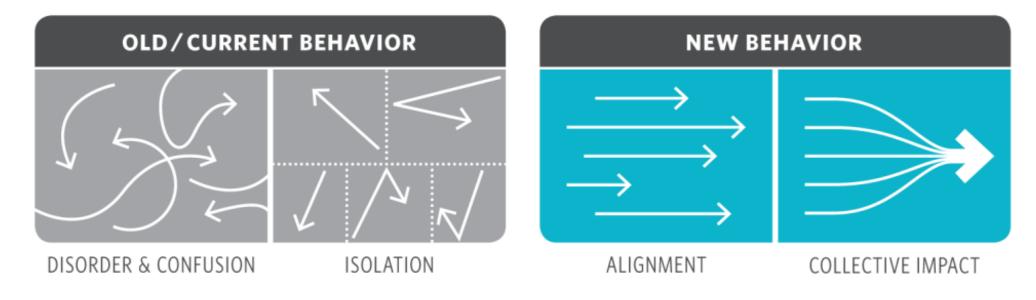


Triple Bottom Line Definition:

- Environmentally Sound
- Socially Equitable
- Economically Feasible



Collective Impact



Graphic: AllHandsRaised.org

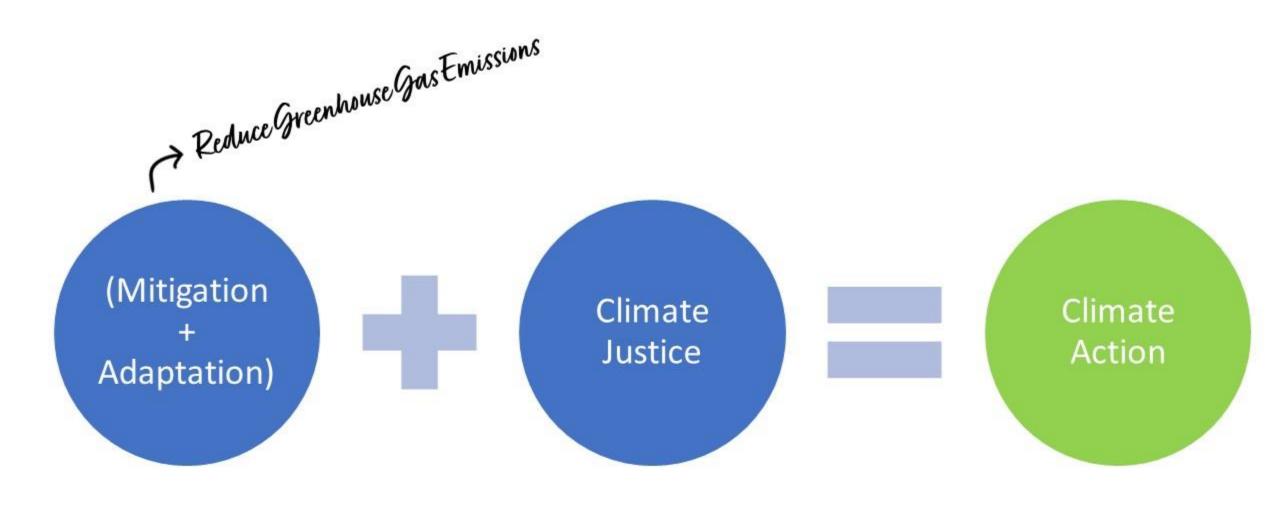




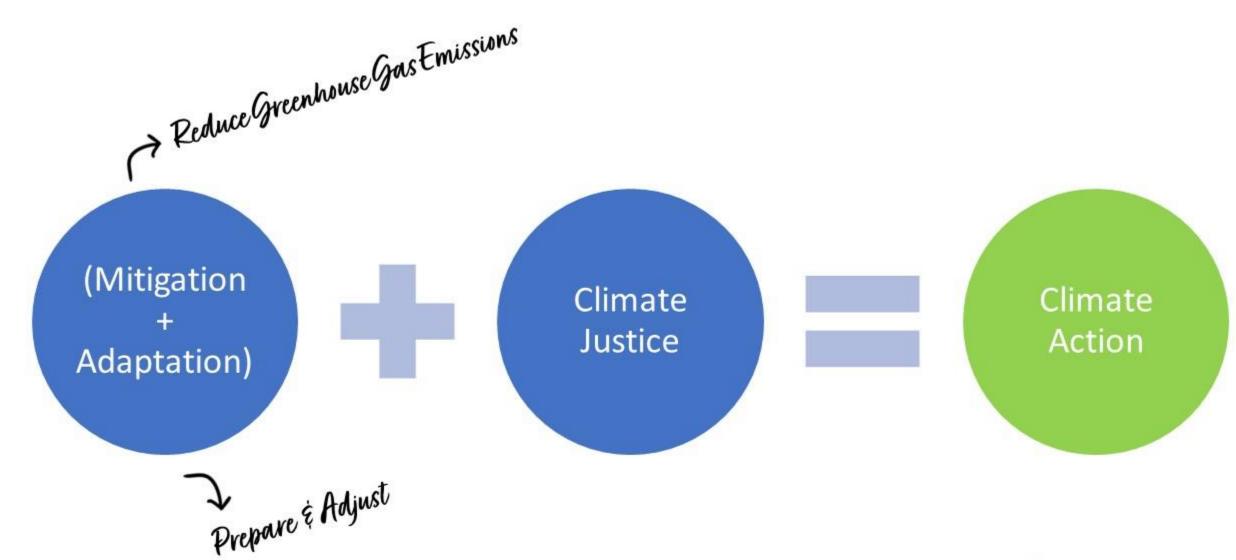
PROJECT DRAWDOWN



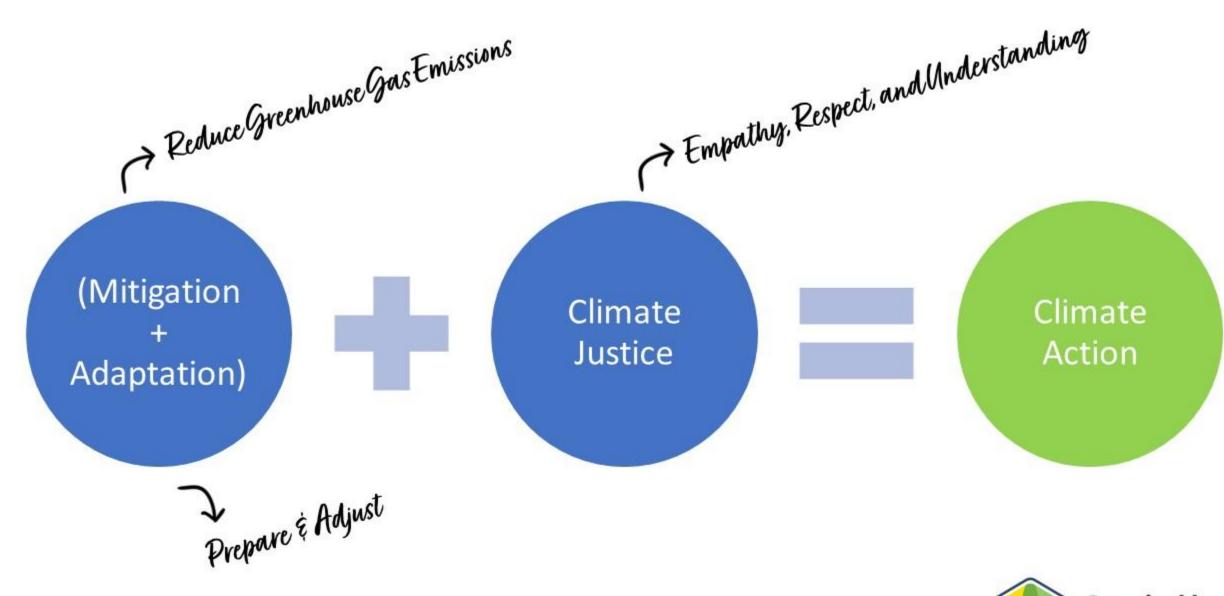




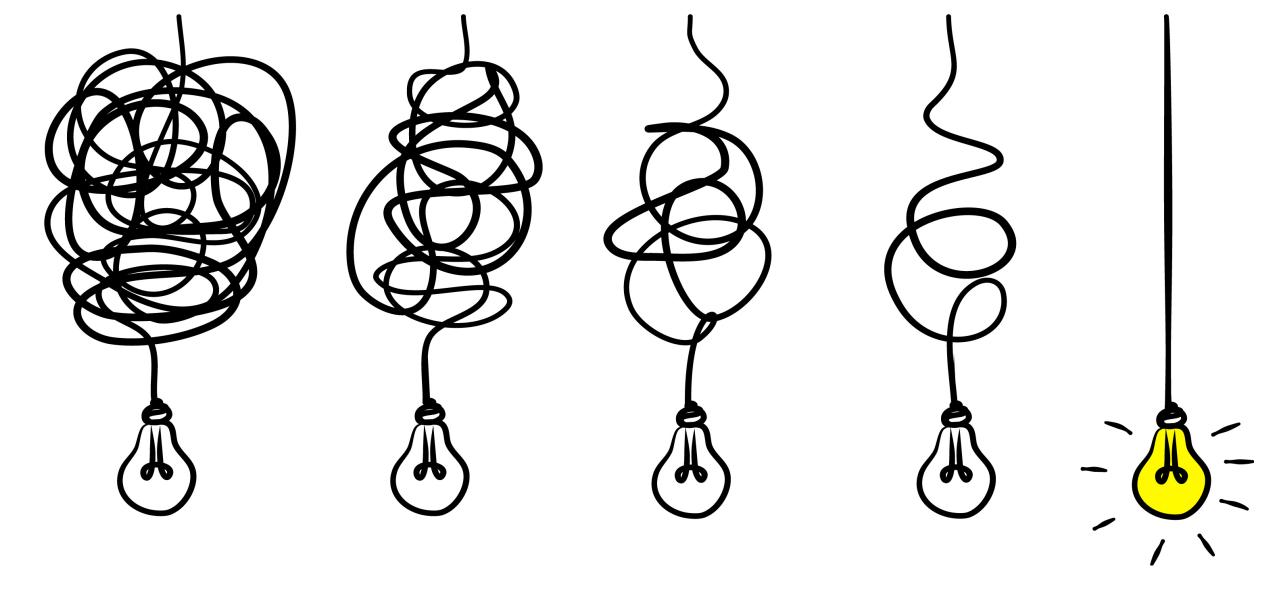












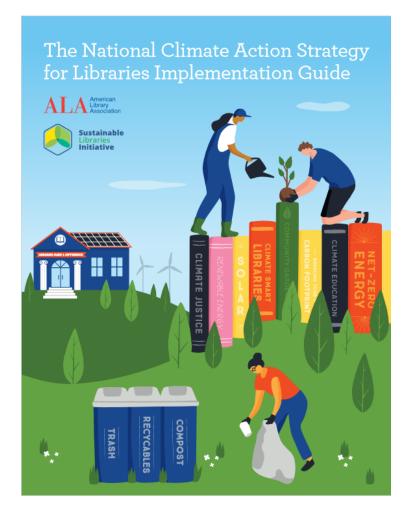


Sustainable Libraries Initiative

Sustainable Libraries

- ✓ Strong & Authentic Institutions that Live their Values Out Loud
- ✓ Catalyst for Civic Participation & Social Cohesion in Communities
- ✓ Working on Climate Mitigation (reducing Greenhouse Gas Emissions (GHG))
- ✓ Active Participants in Climate Adaptation (strengthening community resilience)





The Strategy

• Climate Change Mitigation

Libraries align greenhouse gas emission reduction goals with those that international climate scientists and policy makers have indicated are necessary to prevent catastrophic cascading effects. This strategy recommends a goal for all libraries to reduce their institution's greenhouse gas emissions by 43%, from 2015 levels, by 2030 and to achieve net-zero greenhouse gas emissions by 2050.

Climate Change Adaptation & Contributions Community Resilience

Libraries adopt both internal disaster preparedness plans and strategic goals that speak to the most likely climate hazards facing their area to contribute to their community's resilience.

Climate Justice Work

Libraries harness the transformative power of education for climate justice and develop relationships with local community organizations working on climate justice to embed a deeper awareness of the intersection of human and civil rights with climate stewardship than is presently found.

Paris Agreement, United Nations, https://unfccc.int/sites/default/files/ english-paris.agreement.pdf

^aPrinciples of Climate Justice, Mary Robinson Foundation, https://www.mrfcj. org/principles-of-climate-justice/harness-the-transformative-power-of-









Climate Change Mitigation

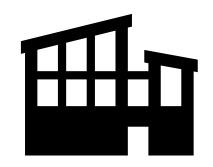
Decarbonize = Reduce Greenhouse Gas (GhG) Emissions



Top Areas of Focus for Libraries:

Scope 1:

- Facilities
- Transportation







Scope 2

- Purchased goods and services
- Transportation of goods, services, people
- Waste generated in operations

Artificial Intelligence (A.I.)

 One query to ChatGPT uses approximately as much electricity as could light one lightbulb for about 20 minutes.

 Making an image with generative Al uses as much energy as charging your phone.

 By 2027, the water needed to cool Al servers could reach 1.7 trillion gallons – more than half the water the UK uses in a year



I. Jamerican . IIOCACIES



- prioritize energy-efficient hardware and cloud providers
- more efficient large language models result in algorithms that can minimize the number of computations required
- Avoid unnecessary AI applications
- Work with data center locations that prioritize renewable energy
- Use local data centers to minimize the distance that data travels, reducing the energy consumed to transfer data

"Assessing AI: How libraries can lessen artificial intelligence's energy impact,"
Sarah Tribelhorn, American Libraries Magazine, March 3, 2025

Valencia College

- All new devices are ENERGYSTAR® certified
- Electronic equipment recycled
- Free Bus Rapid Transit service (over 1 million free bus rides!)
- Carpooling offered through rethink your commute
- Garbage bins made from post-consumer milk jugs
- Plastic writing instruments and battery recycling



Winter Park Campus: Solar Umbrella

The single-building campus offers three solar umbrellas with USB ports at each base.



Concord Free Library

1st library in Massachusetts to complete the Sustainable Library Certification Program

Sustainability Plan



BUILT ENVIRONMENT AND OPERATIONS

Go	als	Strat	regles	Sustainable Concord Plan
1	GHG REDUCTION	1.1	Planning for net zero Develop a net-zero plan for existing buildings	BUILT ENVIRONMENT
	The Library has an implemenation plan	1.2	Sustainable building principles Develop sustainable building principles for upgrades of all buildings	
	for its buildings to be carbon neutral in 2030.	1.3	Sustainable operations guide Collaborate with the Town to create a sustainable operations and maintenance guide	
2	NATURAL RESOURCES	2.1	Inventory practices Inventory current resilient landscaping practices of the Library	NATURAL RESOURCES
	The Library's landscape and grounds	2.2	Sustainable landscape design Implement sustainable landscape design infrastructure and practices that support water conservation	
	demonstrate resilience for the community.	2.3	Biodiversity Increase native biodiversity on Library grounds	
3	MATERIALS MANAGEMENT	3.1	Opportunities for zero waste Develop a zero-waste plan for operations	BUILT ENVIRONMENT
	The Library's materials and resource system	3.2	Evaluate waste stream Assess the current waste stream to better understand opportunities for waste reduction	
	uses zero-waste principles.	3.3	Partnership with CPW Partner with Concord Public Works to demonstrate sustainable materials management	A
4	MOBILITY The Library	4.1	Commuting Understand transportation options for staff and commuting GHG emissions to and from the Library	MOBILITY
	supports sustainable transportation options.	4.2	Inter-building transportion Explore low-emissions transportation for inter-building Library collaboration	
		4.3	Low-emissions travel partnerships Create and promote partnerships with other Town institutions for low-emissions travel, including safe biking and pedestrian options	

Climate Change Adaptation

Building Community Resilience



Top Climate Hazards in the Northeast

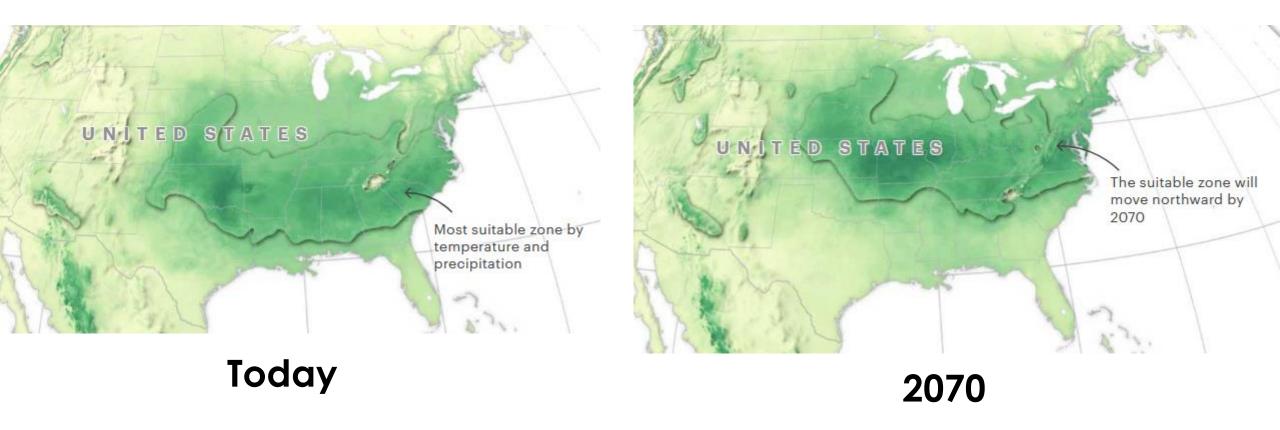
- Extreme Weather (e.g. severe thunderstorms, severe snowstorms, ice storms, blizzards, hurricanes, and high winds)
- More Intense and Extended Heat Waves
- Lower Air and Water Quality
- Changing Precipitation Patterns
 - Flooding
 - Inland
 - Waterway
 - Coastal
 - Drought
- Rising Sea Levels







Climate Havens









Adaptation = Two Fronts

Disaster Preparedness (internal)

- Planning:
 - Disaster Preparedness
 - Continuity of Operations
 - Incident Action Plan
- Facility Redundancies
 - Power
 - Water
- Staff Preparedness

Community Resilience (external)

- Acute
 - Citizen Preparedness
 - Emergency Communication Networks
 - Transportation
 - Food Security
- Long-Term
 - Equity, Diversity, Inclusion, Access
 & CLIMATE JUSTICE

Reduce Risk

1. Reduce Exposure

Reduce the presence of assets in locations that could be adversely affected

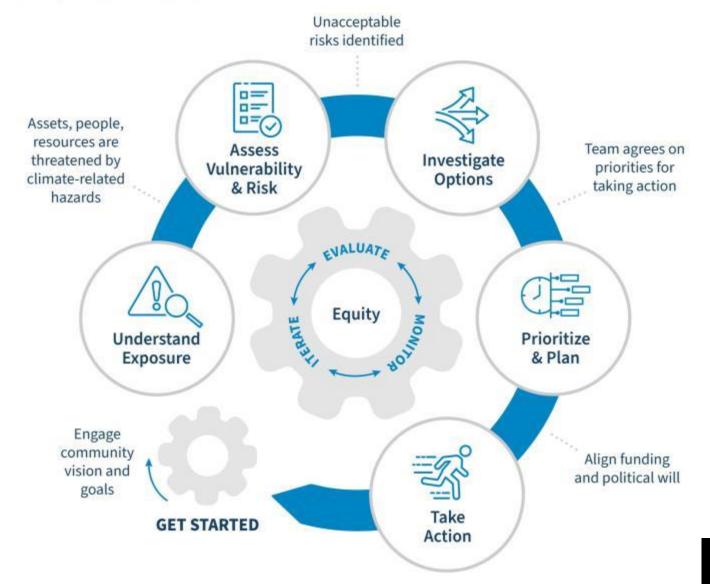
2. Reduce Sensitivity

Lower the degree to which a system is adversely affected

3. Increase Adaptive Capacity

 Raise the ability of natural systems to prepare for, adjust to, respond to, and recover from disruption

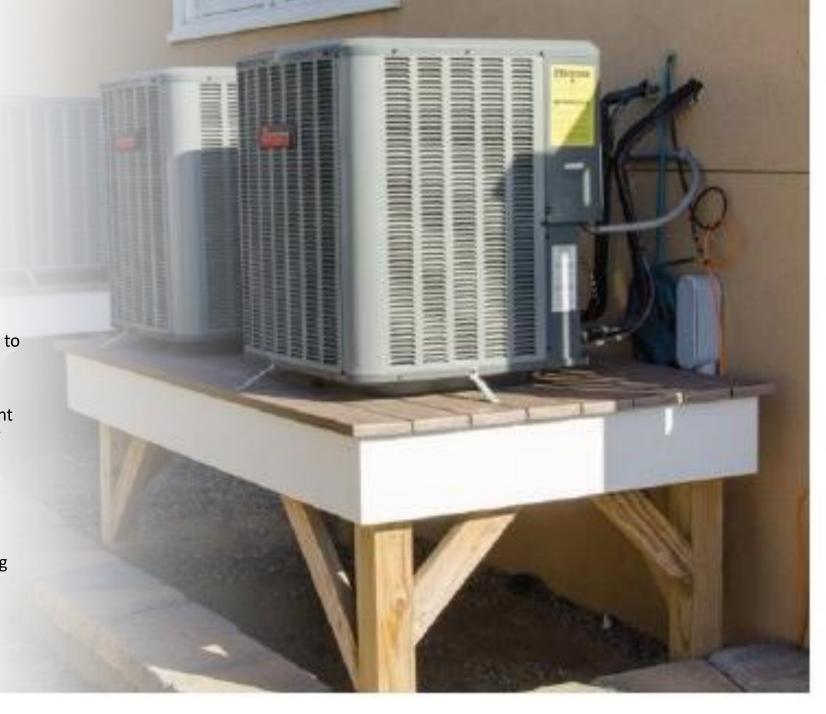
The Steps to Resilience





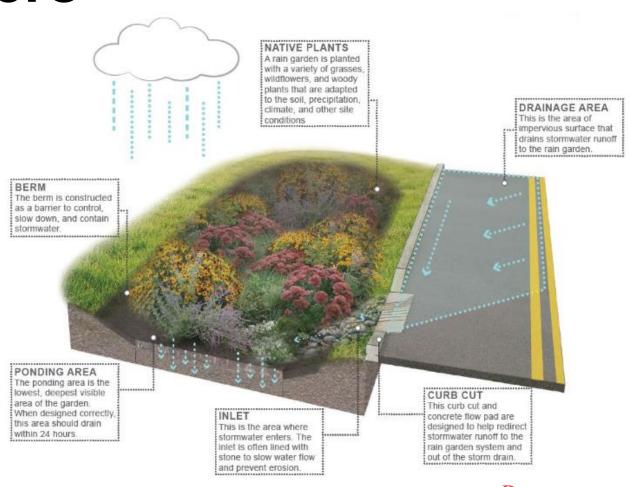
Flood Protection

- Avoid building in a floodplain unless you elevate and reinforce the facility
- ✓ Elevate the HVAC equipment if susceptible to flooding
- ✓ Install **check valves** in sewer traps to prevent flood water from backing up into the library
- ✓ Construct **barriers** to stop floodwater from entering the building
- ✓ Seal walls in basements with waterproofing compounds to avoid seepage



Green Infrastructure

- Native Plants
- Stormwater Management
- Rain Gardens & Bioswales
- Permeable Pavement
- Protect Wetlands
- Trees, Trees



Disaster Preparedness

Preparedness Programs & First Responder Appreciation

Wacky Weather: Are You Prepared?



This program on preparedness taught children how to stay safe and prepare for power outages, hurricanes, & fires. They receives a pillowcase "go-bag" to customize, as well as a digital workbook from the Red Cross.

Meet Your Community Helpers



Families were invited to meet local first responders and check out their vehicles, including a fire truck, police car and ambulance.

Crafts For A Cause



This take & make program gave patrons the opportunity to create thank you cards for our police officers, firefighters and first aid squad members. We then donated them along with goodie bags made by our teens in a monthly community service program.





Division of Homeland Security and Emergency Services

Emergency Management State Fire Emergency Communications Counter Terrorism

Disaster Recovery Grants

Training

Citizen Preparedness Corps

Citizen Preparedness C **Training**

Giving residents tools and resources to prepare for any type of disaster, respond accordingly, and recover as quickly as possible.

Search



GROWING LITERACY

WINTER GARDEN WORKSHOPS

Sundays 3:00-4:30pm Bring your curiosity, questions, and join us!

All gardening abilities welcome.

Let's Diversify! Minimizing Lawn and Maximizing Habitat with Gary Fish - via zoom

Home-based (backyard) Aerabic Composting with Mark King - via zoom

Sowing Native Seeds for the Community with Ellen Maling - at Curtis Memorial Library

Scalable No-Till Gardening: Prioritizing Soil Health for MAR 5 Better Yields with Theda Lyden & Carrie Asselin - at Growing to Give

Seed Starting and Greenhouse Tour at Whatley Farm with Ben Whatley - at Whatley Farm

Planting and Growing by the Lunar Calendar. MAR 19 The Biodynamic Approach to Growing Our Food with Barbara Shinn - via zoom











www.btlt.org/growing-literacy-2023/











Support the Library Farm by purchasing a 5 oz hot sauce made with locally grown serrano peppers. Visit our Cicero Branch to pick up a bottle for only \$10; all proceeds go directly to the Library Farm.

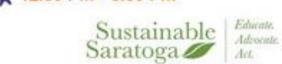
Repair Café

Saratoga Springs



★ Sunday, April 16, 2023
★ 12:30 PM - 3:30 PM

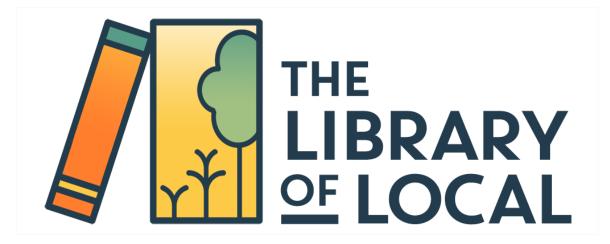
* Skidmore College, Case Center











https://www.libraryoflocal.org/

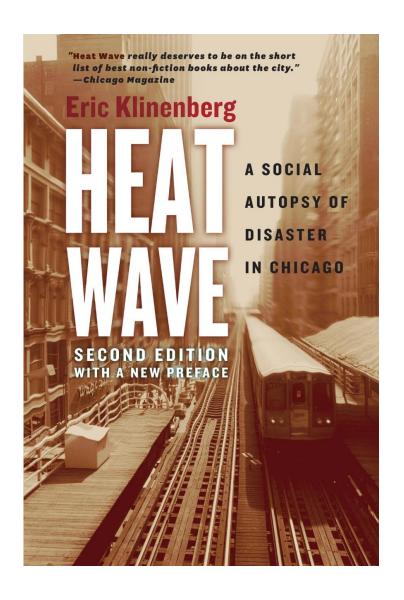
- Seed Library & Tool Lending
- Special Collections:
 - Food Security (Y1)
 - Climate Solutions (Y2)
 - Disaster Preparedness (Y3)
- Programming led by local experts
- Alignment with NYS Climate Smart Communities



Climate Justice

Climate Justice = Social + Economic + Environmental Justice





"A natural disaster is always a human-made disaster because social conditions determine who is most vulnerable and because the meaning of any disaster is culturally negotiated."

-Ann E. Larabee in her review of *Heat Wave*

Social Cohesion & Civic Participation

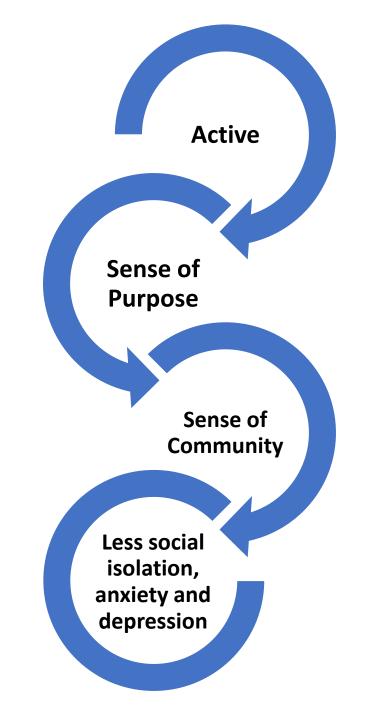
Social Cohesion:

Respect, Empathy, and Understanding Strength of Relationships Sense of Solidarity Social Capital through Social Networks

Civic Participation:

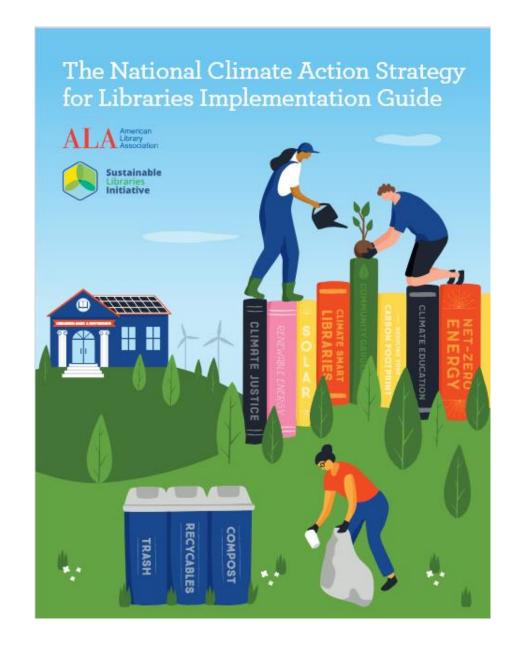
Voting
Volunteering
Participating in Group Activities
Community Gardening







"Libraries harness the transformative power of education for climate justice and develop relationships...to embed a deeper awareness of the intersection of human and civil rights with climate stewardship than is presently found."



Mindset shifts do not happen overnight.



USE WHAT YOU HAVE. DO WHAT YOU CAN.

-ARTHUR ASHE

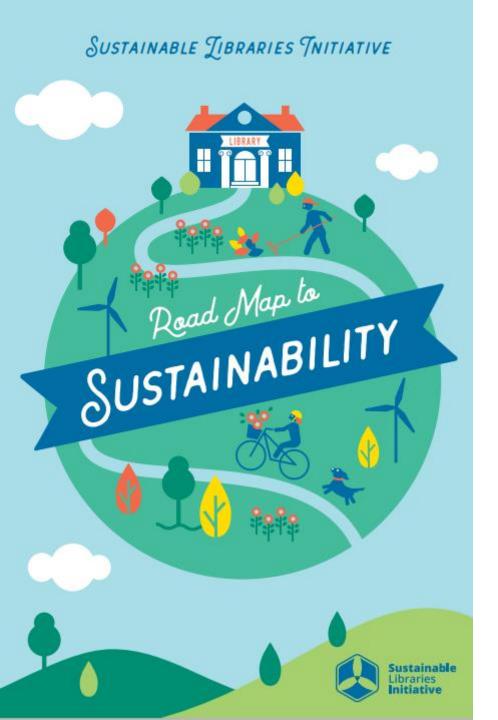
and George Washington Carver, Squire Bill Widener, and Teddy Roosevelt...



Work
"from the inside out."



Sustainable Libraries Initiative





Sustainable Library Certification Program



https://sustainablelibrariesinitiative.org/





https://sustainablelibrariesinitiative.org



Free

- Newsletter
- Mobile App
- Webinars
- Resources
- Facebook Page & Instagram

SLI Members - FREE FOR ALL NYLA MEMBERS

- Curated Resources
- Access to On Demand Training
- CO₂ Calculator
- Vendor and Program Ideas
- American Library Association SLI eCourse

Sustainable Library Certification Program - 20% discount for NYLA Members

- Online Dashboard to Track Action Items
- · Example policies, program ideas, and more
- Assigned Mentor
- Meet Ups with Others in the Program

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Co-Founder, **The Library of Local**

Sustainability Columnist, Library Journal



Author:

