# Community-Led Resilience Hubs

[Re]imagining Community Resilience Hubs in Rural Vermont: Shifting power to communities via energy resilience

February 1, 2023 VECAN Winter Webinar Series
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# Poll 1 - Who's here today?

- 1. What town do you live in?
- 2. What town do you work in?
- 3. What sector do you work in?
- 4. How did you hear about this webinar?

# Objectives:





- Provide compelling narrative to focus and help draw down unprecedented funding opportunities to municipalities and communities
  - Ensure investments now yield sustainable community-level results
- Continue (re)imagining/defining what resilience looks like in Vermont; adapting successful models for [more] rural communities (addressing rural resilience gaps)

# Why Community-Led Resilience Hubs?



Adapting this model for our rural communities has the potential to:

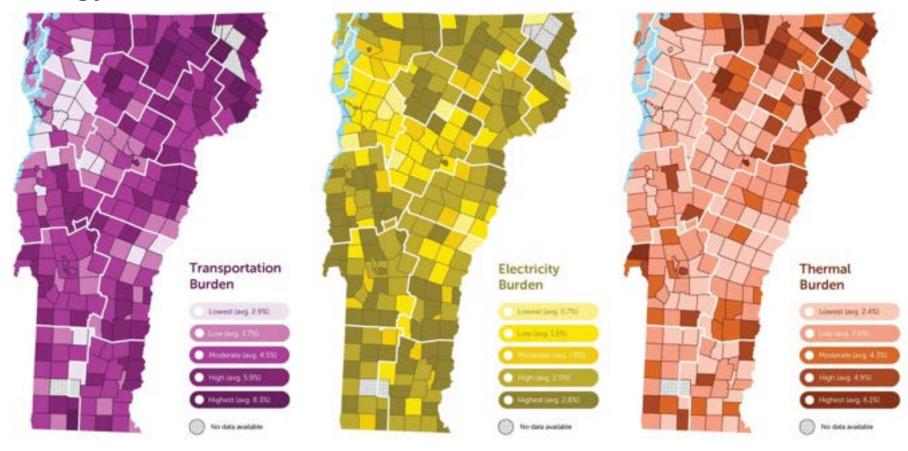
- Sustain and nurture community connections and resilience
- reduce energy burdens, increase access to energy transition and its benefits (energy equity)
- reduce fossil fuel use and GHG pollution at aging community facilities, and set-up model to aggregate funding for replication across Vermont's rural communities
- expand green workforce development and provide local jobs,
- complement existing emergency management
  - targets gaps in outreach/communication with, and services for, frontline communities,
  - reliable clean power (mobile options too) for expanding activities/services (e.g. cooling and warming needs),
  - and more!







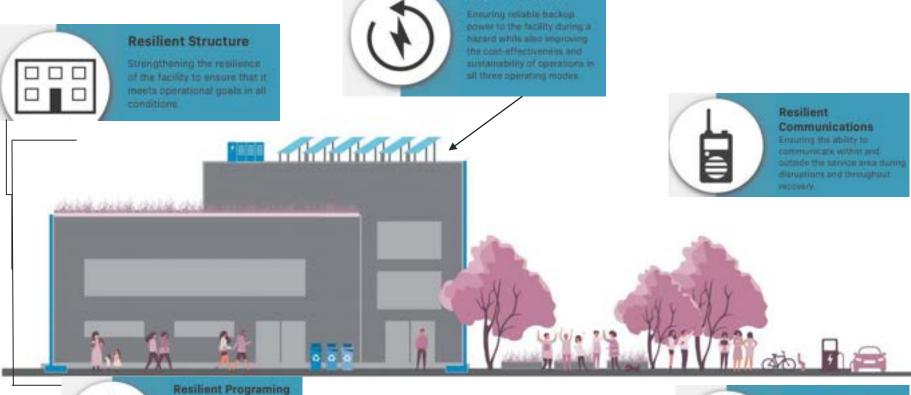
# Energy Burden



2019 Vermont Energy Burden report, Efficiency Vermont

# Resilience Hubs





**Resilient Power** 



and Services

and programs that build



processes are in place to

# Resilience Hubs: Serving Communities in 3 Modes

Examples	Everyday	Disruption/Emergencies	Recovery
Resilient Power	Solar Panels Heat Pumps EV Chargers	Battery-backup generator Mobile Generation & Storage	Battery-backup generator Mobile Generation & Storage
Resilient Structure & Landscape	Air Filtration Water Capture & Reuse Weatherization	Shelter Heating and Cooling Green and shade space Food generation	Placemaking
Resilient Programming & Services	Job Training & Recruitment Health Services Education Maker Space/ Incubator Meeting space/s Childcare	Community Meals Resource Distribution Volunteer Coordination	Sustainability of services
Resilient Communications	Translation Services/Info Wi-Fi/Computers Relationship building	CERT Training Radio Site Activation	Onsite and community connectivity
Resilient Operations	Accessibility Site Leadership Site Retrofits & Maintenance	Safety Security	Site Retrofits & Maintenance

# Defining Criteria:

## Base

- Strong community support and leadership
- Site is well-trusted
- Building/set of buildings
- Resilient Energy Systems
- Resilient
   Communications
   systems (internet)
- Base programming and service co-developed with community

# **Optimal**

- Water capture and filtration onsite
- Air filtration
- Renewable Energy Generation and storage
- Community food resources
- Transportation hub
- Child/senior care

## Ideal

- Greywater reuse onsite
- Biophilic design standards
- Net Zero Energy
- Community owned renewable energy benefits for surrounding community
- Coworking/Incubator spaces
- Workforce training
- Health clinics/resources



## **Process**

#### **Broad Community Engagement**

#### **Community Engagement**

- o Identify+engage with additional stakeholders
- Outreach to the community
- Community wide engagement
  - Co-define rural resilience hub
  - Community assets/opportunities mapping
  - Principles for partnership and codevelopment processes
  - Principles to guide candidate site selection, assessment, and prioritization
  - Opportunities to leverage a hub and spoke model
- Prioritization process

CLEAR PRIORITIES **Feasibility Study** 

# **Community Action**

- Develop ActionSteps
- Key site audits and performance specifications
- Engage additional stakeholders
- Identify Resources
- Apply for funding

Funding + Implementation

#### **Resilience Hub**

- Large GrantsAwarded
- Resiliency Hub Implementation!

**EACH PHASE:** Refinement of iterative process and replication to other VT communities

## How to Initiate the Process?

#### **Municipal Scale**

#### **Coordinate Existing Projects & Priorities:**

- Town staff and leadership identify key infrastructure projects and priorities already in pipeline
- Review listening sessions/asks,
   Community Assets Inventory/Assessments
- Town Plans (plural!)

#### **Identify Existing "Hubs" & Entities**

- Where and to whom do residents turn to?
  - Day-to-day
  - Social spaces
  - Service providers
  - Education
  - Emergencies
- Identify Existing gaps
  - Physical Infrastructure
  - Social Infrastructure

#### **Community Scale**

- Community Champion!
- Identify <u>key partners</u>
- Town leadership
- Community spaces
- Service providers (social infrastructure, utilities, transportation)
- Initial convenings
- Broad Community
   Engagement

# Additional Partners

Technical Assistance
Utilities
RPCs
VCRD
Neighboring towns

# Return on Investments (Co-Benefits)

- Community cohesion and wellbeing
- Community energy cost savings
  - O Reduce energy burden & GHGs
  - Increase energy efficiency
  - Increase reliability
- Municipal cost savings
- Social and energy equity
- Greenspace and connectivity

- Job training, green workforce development
- Public health and safety
- Emergency coordination
- Mental health benefits
- Resources and materials
- Local economic stability
- Internet access

# Existing Approaches to Rural Resilience & Partners



#### **Possible Partnerships:**















(and others!)

# [Re]Imagining Resilience Hubs in Vermont

Existing services + Basic Needs, nucleate services over time





#### **Elmore Store, Elmore**

Community Collaboration

Professional Kitchen- shared

Post Office

**Gathering Place** 

Recreation

**Food Resources** 

Fire Warden

+Transportation

+Resilient power

+Flood resilience

+Building Retrofits

#### Old Schoolhouse Common, Marshfield

Municipal Building (Town Clerk)

Jacquith Public Library

Marshfield Historical Society

Onion River Foodshelf (7 towns; food storage capacity)

Internet

3 tracker solar system

Recreation paths, fields, etc

US RT2 Commuter (Rural Community Transportation)

# [Re]Imagining Resilience Hubs in Vermont

Existing services + Basic Needs, nucleate services over time



# building resilience, building community a local in the white river valley of vermont

#### **The Corse Farm Dairy**

Solar Array (farm and farmhouse 95%) +Transportation
Apprenticeship Program +Gathering Place
Vermont Land Trust +Comm Services
Environmental Stewardship (Interlace Commons)
School Programs (food and more)

#### South Royalton/White River Valley

The Commons Community Resource Center, Resilience U, Community Solar, Resilience Hub Working Group



#### St. Johnsbury Community Hub Project

Rabble Rousers: business, co-working, gathering, free lunch, etc

Northfield Community Kiosk
Camp Meade, Middlesex

# Craftsbury Library Resilience Center

# Poll 2 - Community Places

# 1. Where does your community gather now?

(multiple choice, choose all that apply)

Town store

Cafe/restaurant

Library

Town office

Grange

Town hall

Other municipal building

Performance/event space

School buildings

Town green/park

Weekly farmers market

Other community spaces

# Poll 3 - Rural Resilience Hub

1. Rank the resources listed below for inclusion in a community resilience hub?

(multiple choice, choose all that apply)

Workforce development

Transportation options

Community space

Social services

Warming/cooling center

Backup energy storage

Connectivity wifi/phone/computers

Food resources

Incubator/coworking spaces

Childcare

Senior center

2. Rank what your town needs to get there?

(multiple choice, choose all that apply)

Collective community vision

Prioritization assistance

Technical assistance

Understanding existing resources available

Paid staff

**Grant support** 

Community Volunteers

3. What key attributes make it a "RURAL" resilience hub?

## Resources & Technical Assistance

VCRD Leadership Guide

VCRD - Vermont Community Leadership Network and past workshop recordings

Community Resilience Organizations

Health Equity & Community Design Technical Assistance Pilot→ Better Places

Municipal Energy Resilience Grant Program

Solar Workshop (find your Regional Planning Commission Energy Planner here)

Vermont League of Cities and Towns (federal funding guides and assistance)

USDN Resilience Hub Materials and Resources

And more... contact laura@vtrural.org lash@cvregion.com

