

ENERGY RESILIENCE

WHY IT'S IMPORTANT FOR YOUR COMMUNITY



WHAT IS ENERGY RESILIENCE?

Think about the last time the electricity went out in your home. Did you have to stumble around in the dark looking for a flashlight? Maybe you couldn't cook dinner or charge your phone. Now, imagine if this happened frequently or lasted for days. **Energy resilience aims to prevent these disruptions and keep our lives running smoothly.**

HOW DO POWER OUTAGES AFFECT DIFFERENT COMMUNITIES?

Power outages can be particularly challenging for communities. In some cases, losing power is not just an inconvenience but real danger. **Energy resilience helps ensure everyone can maintain a safe and stable living environment,**

PERSONAL BENEFITS OF ENERGY RESILIENCE



Reliable Power Supply:

Reliability reduces blackouts and improves consistent energy supply.



Safety and Comfort:

A resilient energy system better ensures heat during a cold snap and air conditioning during a heatwave. This is especially important for vulnerable groups like the elderly, young children, and those with medical conditions that require consistent power.



Cost Savings:

Energy-efficient and resilient systems can reduce your energy bills. Solar panels can lower costs and home batteries provide backup power during outages, making energy more affordable.

HOW DOES YOUR COMMUNITY BENEFIT?



**STRONGER
EMERGENCY
RESPONSE**



**IMPROVED
LOCAL
ECONOMY**



**ENVIRONMENTAL
PROTECTION**

COMMUNITY BENEFITS OF ENERGY RESILIENCE

VIRGINIA ENERGY RESILIENCE STUDY (VERS)

What is the Virginia Energy Resilience Study?

The Virginia Energy Resilience Study (VERS) is working with communities across the state to measure their energy resilience and identify practical long-term solutions to reduce or eliminate vulnerabilities.

How will energy resilience be measured?

To measure community energy resilience, we'll answer these key questions:

- What weaknesses exist in your local power sources?
- How do power outages impact your energy supply and affect essential services and household needs?
- What is the financial cost of power outages to your community?

What will you learn?

By answering these questions, you'll gain insights into:

- Where energy improvements are needed
- Practical solutions to reduce or eliminate weaknesses
- Long-term solutions to meet your energy needs

How will your community benefit?

Your community will:

- Receive an energy resilience profile to help you understand your specific vulnerabilities and ways to reduce them and
- Be invited to apply for one of ten solar plus storage case study design projects where you will receive a customized engineering design for an energy resilience hub.

An Energy Resilience Hub is a community-serving facility that provides reliable access to power.

Community Benefits of a Resilience Hub



Resilient Power

Resilience hubs can generate their own electricity when the rest of the community is without power.



Health Services

Resilience hubs can offer health services and power the equipment needed to prepare, serve, and store meals and drinkable water and refrigerate medical supplies.



Temperature and Air Quality

Resilience hubs can provide air conditioning, heating, or air filtration during times of extreme heat or cold and poor air quality.



Emergency Management Coordination

Resilience hubs can provide reliable power to support emergency services during a power outage.



Overnight Shelter

Resilience hubs can provide temporary shelter for displaced community members.

INTERESTED IN JOINING THE STUDY?

E-mail: resilience@energy.va.gov