



Energy Efficiency and Resilience in Missouri

Martin Hyman
Senior Energy Policy Analyst
Missouri Department of Natural Resources' Division of Energy

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Roadmap to Resilience

- Two-year, competitively awarded grant from USDOE
- Goal to assist small- to medium-sized communities (SMSCs) with development of customized resilience plans
- Partnered with Cities of Rolla, Stockton and St. James
 - Partner organizations included Consumers Council of Missouri, Midwest Energy Efficiency Alliance, Municipal Public Utility Alliance, Office of Public Counsel and Renew Missouri
 - Assistance also from AECOM and Paragon Business Solutions
- Resulted in a process guide document with planning phases and supporting actions, as well as case studies from Rolla and St. James

Resilience for SMSCs

Definition:

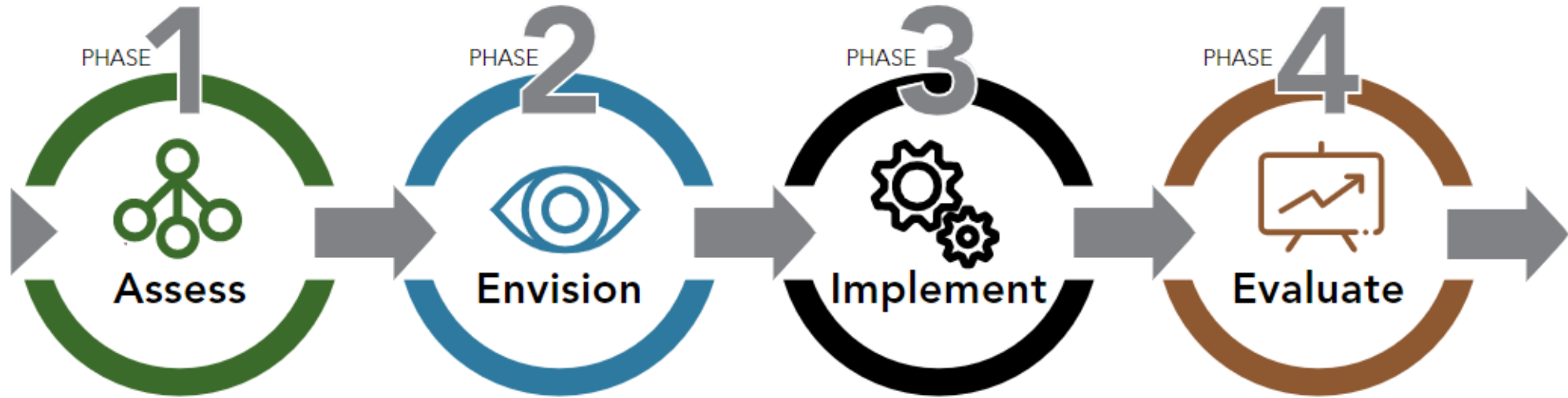
The ability of communities to withstand, adapt to and reduce the impact of acute shocks and chronic stresses while preserving and improving their unique characters, sense of community and livability.

- **Chronic stresses:** Persistent, long-term issues or hardships that weaken a community's social, economic, and environmental fabric and exacerbate outcomes to acute shocks.
- **Acute shocks:** Sudden, high intensity events that pose a direct threat to a community.

Vision:

Resilient SMSCs are equipped with energy resources to thrive environmentally, socially and economically in the face of chronic stresses and acute shocks.

Roadmap Framework



ACTIONS

Use Federal and National Lab Resources
 Baseline Analysis
 Stakeholder Engagement
 Leverage Partners and Assets

Use Federal and National Lab Resources
 Stakeholder Engagement
 Leverage Partners and Assets

Identify Innovative Funding Sources
 Stakeholder Engagement
 Leverage Partners and Assets

Measure Success
 Stakeholder Engagement
 Leverage Partners and Assets

Energy Efficiency and the Roadmap to Resilience

- Energy efficiency is a primary tool to improve resilience
 - Lower/shifted consumption = less strain on grid
 - Prerequisite to installing distributed generation
 - Often a low-cost option to defer or avoid new utility system investments
- Roadmap provides several ways to address energy efficiency – examples:
 - Financing options
 - Utility rate structures
 - Metrics (including a whole category on “Energy Usage & Burden”)
- Rolla case study on resilience and energy burden heavily focused on energy efficiency

Missouri State Energy Planning (MoSEP) Process

- Identify and address topics critical to Missouri's current and future energy needs through an ongoing series of stakeholder engagement workshops
- Regionally focused initiatives unified by state-level core values
- Metrics to measure success
- Recurring work and engagement to address additional initiatives
- Currently forming Cycle 1 workgroups following Round 1 and 2 meetings in each region

MoSEP Process Core Values

- **Assure secure, reliable and resilient energy infrastructure and supplies.**
- Enhance Missouri's competitive position in business retention, expansion and attraction through affordable rates and renewable energy options.
- Develop diverse in-state energy resources.
- Create opportunities for energy-related technological innovation and workforce development.
- Ensure affordability and equity in access to energy resources, services and programs.
- **Promote the efficient and environmentally sound use of energy.**

Energy Efficiency and Resilience in the MoSEP Process

- Energy efficiency and resilience key to many core values
- Energy efficiency and resilience were frequent topic of discussion during Rounds 1 and 2 :
 - Residential Energy Efficiency Real Estate Valuation
 - Strengthening Resilience
 - Industrial Audit/Assessment Outreach and Industrial Energy Efficiency
 - Combined Heat and Power
 - Weatherization Outreach and Workforce Development
 - Fuel-Efficient Farming and Electric Tractors
 - Building Energy Efficiency

Thank You

- Contact information:

Martin R. Hyman
Senior Energy Policy Analyst
Missouri Department of Natural Resources
Division of Energy
(573) 526-3769 (Office)
(573) 645-9485 (Cell)
martin.hyman@dnr.mo.gov

- Roadmap to Resilience information:
<https://dnr.mo.gov/energy/what-were-doing/roadmap-to-resilience>
- MoSEP Process information: dnr.mo.gov/energy/what-were-doing/mo-state-energy-planning