



Advisory Group Meeting

Project Review and Next Steps

18 SEPTEMBER 2025



Welcome + Introductions

Agenda

01

Project Refresher

04

Next Steps: Modules 3 & 4

02

Project Progress

05

Questions

03

Next Steps: Introduction
and Modules 1 & 2

Project Refresher

Modules for State Energy Security Strategies

1

**Executive
Summary &
User Guide**

2

**Energy Risk &
Criticality**

3

**Restoration
Priorities**

4

**Inter-
dependency
Planning**

5

**Design &
Integration**

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Executive Summary | Objectives



SUPPORT ALIGNMENT

This framework will help align Governors' policy, regulatory, planning, operational, and legislative capabilities to support energy strategy goals for states. Share information about their organizational protocols (e.g., response plans or communication channels).



MAXIMIZE IMPACT

Improve energy policy decision-making to support energy resilience, equity, and economic development. Prioritize public and private infrastructure investments to support energy security goals for states.



BUILD TRUST

Use this framework to improve interregional resource integration and planning. Build a shared understanding of their existing and future energy infrastructure capabilities, requirements, and gaps.

What “pain points” will this resource address?

Purpose



Understand the different priorities that feed into energy security planning among and between states



Enhance existing energy security processes, plans, and policies in both government and industry



Align energy security policy goals through a more holistic approach to emergency operations planning

Our Stakeholders + Region

- **States.** Statutory and regulatory authorities for rate design, security planning, and consequence management
- **Utilities.** Infrastructure planning and operational requirements for serving customers and maintaining systems
- **Grid Operators.** Oversight of real-time grid performance, energy markets, and regional/interregional planning of infrastructure to support reliability and efficiency

Framework Overview

1

Problem Statement + Gaps

What energy security challenges and gaps do states face?

2

Framework User Guide

Guidance on navigating the resource and applying it to your organization

3

Resources and Stakeholders

What organizations, policies, plans, data, and processes should be considered?

4

Energy Strategy Crosswalk

What is the primary policy driver behind your state energy security strategy? (E.g., diversification of resources, economic development, resilience)

5

Dimensions of Energy Risk

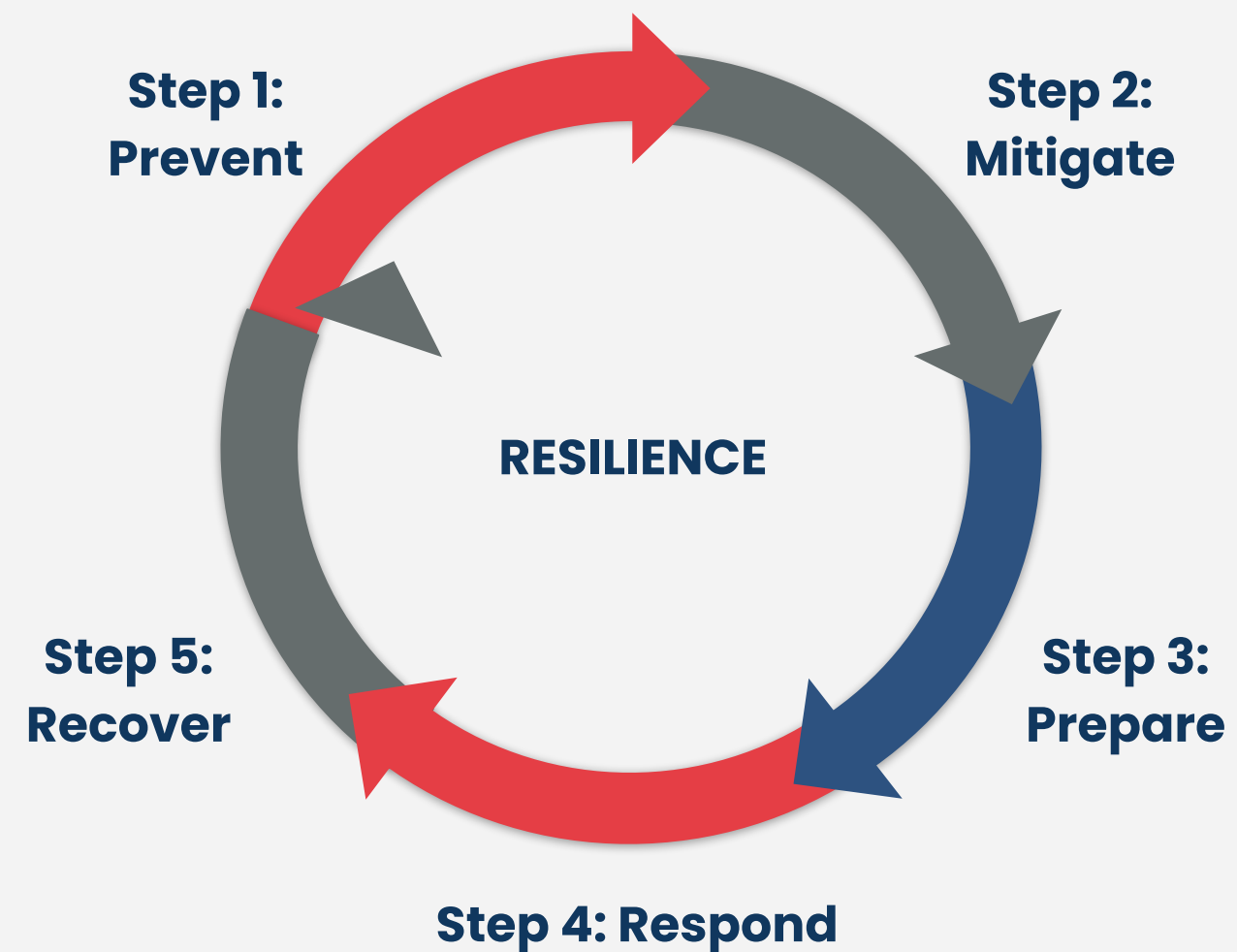
What types of risk guide how you assess and mitigate risk? (e.g., geographic scale, outage duration, affected population, cross-sector impact).

1

Executive
Summary &
User Guide

The framework is designed to align with the FEMA Emergency Management Cycle as it pertains to energy security to maximize compatibility with multiple processes.

FEMA Emergency Management Cycle



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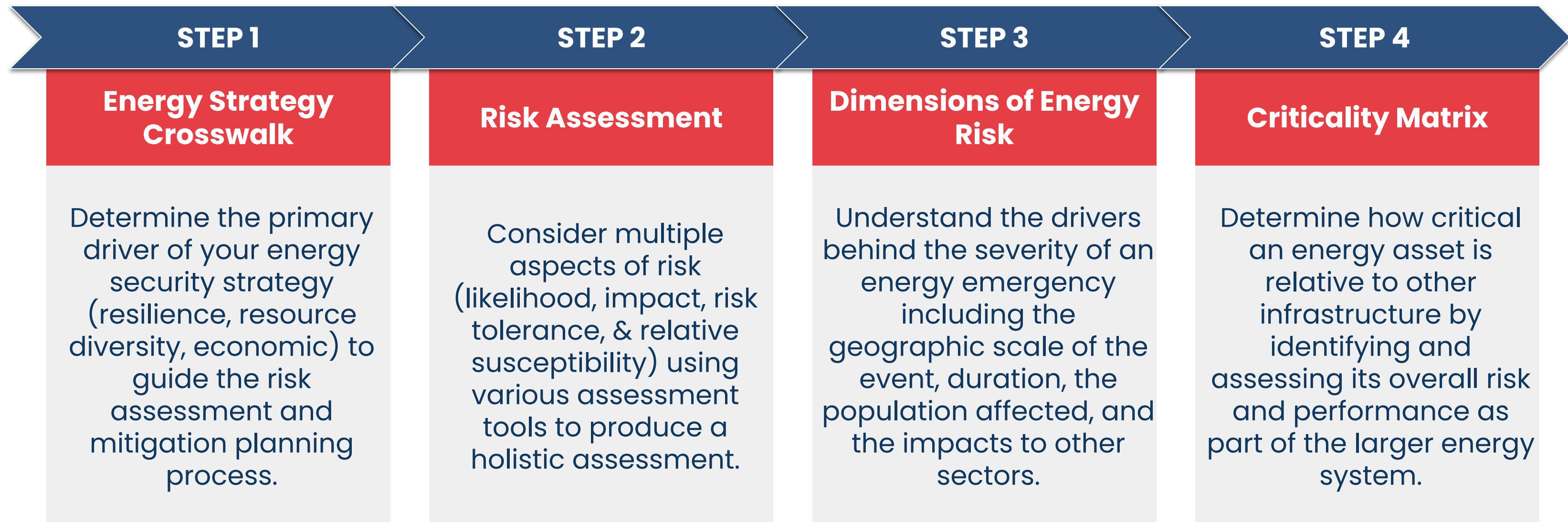
Overview

2

Energy Risk & Criticality

Challenge

There is no uniform method for assessing risk and vulnerabilities of energy infrastructure assets. The Consolidated Risk Spectrum is a multi-step process that integrates several public and private sector methodologies and plans to help evaluate risk and determine the relative criticality of assets and systems.



Step 1: Energy Strategy Crosswalk

Energy Risk & Criticality

**Consolidated
Risk
Spectrum:
What does
your state
prioritize?**

Diversification

Understand the energy resources available to your state and assess their ability to meet your energy security needs. Determine how risk can inform the potential benefits of energy resource diversification.

Economic

The nexus between energy security and economic stability can inform risk mitigation strategies by prioritizing investment in infrastructure and/or specific energy sources to reduce the potential economic impacts of energy emergencies.

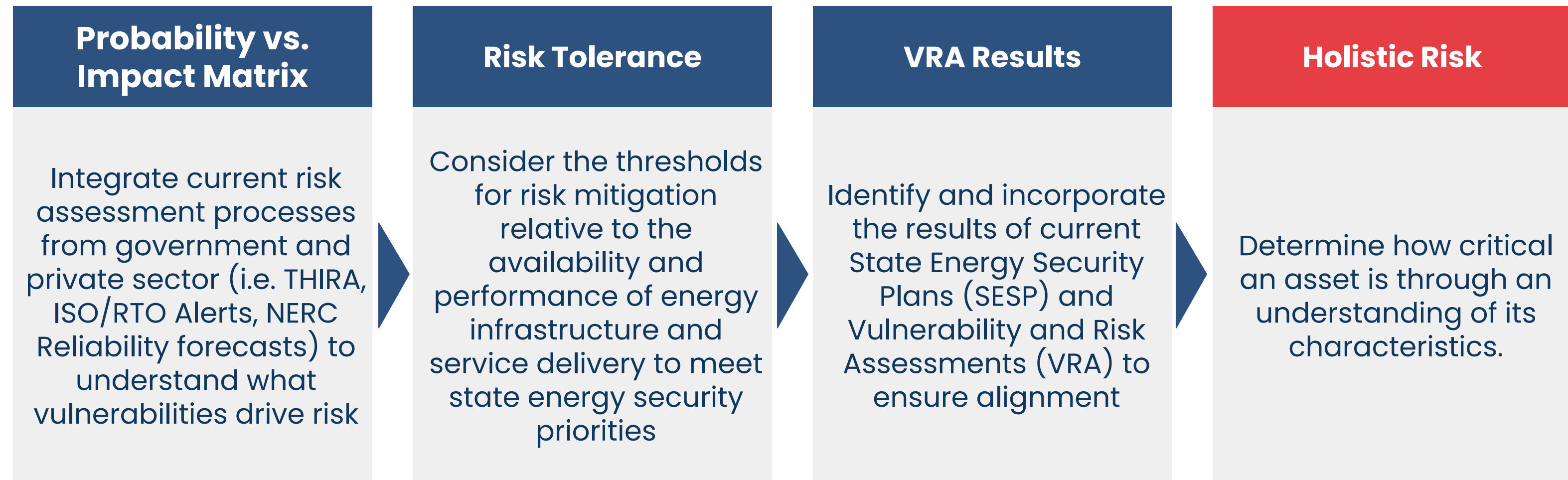
Resilience

Resilience promotes the use of innovative technologies to reduce risk and enhance the security of the system. The identification of facilities and capabilities essential to mitigating human impacts from energy emergencies can inform infrastructure planning and prioritization.

Step 2: Risk Assessment

Builds off existing resources to help users consider multiple aspects of risk:

- Determine what risks to prioritize as a function of likelihood and impact
- Identify the thresholds of acceptable risk to establish mitigation targets
- Integrate current government and private sector plans to maximize compatibility



Step 3: Dimensions of Energy Risk

Energy Risk & Criticality

Dimensions of Energy Risk

Geographic Scale: Risk increases proportionally to the scale and type of infrastructure assets and energy systems impacted in an event.

Duration. Establish thresholds for time-driven disruptions resulting in cascading impacts to people and interdependent systems

Affected Populations. Understand the severity of impact based on tiers: 1) Vulnerable populations, 2) Public Health/Safety, 3) Potential for permanent relocation/ mass migration

Cross Sector Impact: Crosswalk of FEMA Community Lifelines to assess extent of multi-sector impacts

Scenario Example – Cold Snap

Scale	Local T & D	BES	Regional
Duration	<24 hours	24-72 hours	72 + hours
Population	Vulnerable	Health/Safety	Mass Migration
Cross-Sector	1-2 Lifelines	3-4 Lifelines	5+ Lifelines

Risk Level = Medium

Step 4: Criticality Matrix

2

Energy Risk & Criticality

Susceptibility to Risk

What was the outcome of the risk assessment? An asset with a high likelihood of experiencing a risk that you can't reasonably tolerate should be rated as highly critical.

**Risk Assessment
Output**

**Dimensions
of Energy Risk**

Risk Drivers

What is the primary aspect of risk? Does the asset serve a densely populated area? Is it an important regional asset? Would it take a long time to repair or replace?

**What makes
an asset
"critical?"**

Single Point of Failure

Can the functions on this asset be supplemented or replaced by another resource, asset, or capability with minimal impact?

Redundancy

Rate of Failure

Historical Performance

What is this asset's historical performance? What stage of lifecycle is this asset in? Think about what risks an aged asset poses to system operations.

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Challenge

States, RTOs, and utilities use emergency response processes to set restoration priorities, which can adapt to the type or severity of an outage. While organizations often set internal restoration priorities, external variables may impact their plans including input from government officials, customers, and changing conditions. This framework will share insights for building a common prioritization method, incorporating both successful resource planning and emergency response.

STEP 1

Prioritization Processes

Identify criteria for developing restoration priorities for different stakeholders (i.e. how does a utility decide which feeders to energize first?, what load types do states focus on?)

STEP 2

Event-Driven Priorities

Determine how the precipitating hazard and the relative severity of an outage impact restoration decisions. Would priorities change in hot weather vs. cold? A long-duration outage vs. short?

STEP 3

Restoration Strategy

How can states develop a strategy that aligns to both real-time priorities and other users (e.g., utility, grid operator, etc.) while allowing consistency and flexibility to stakeholders?

STEP 4

Integrated Planning

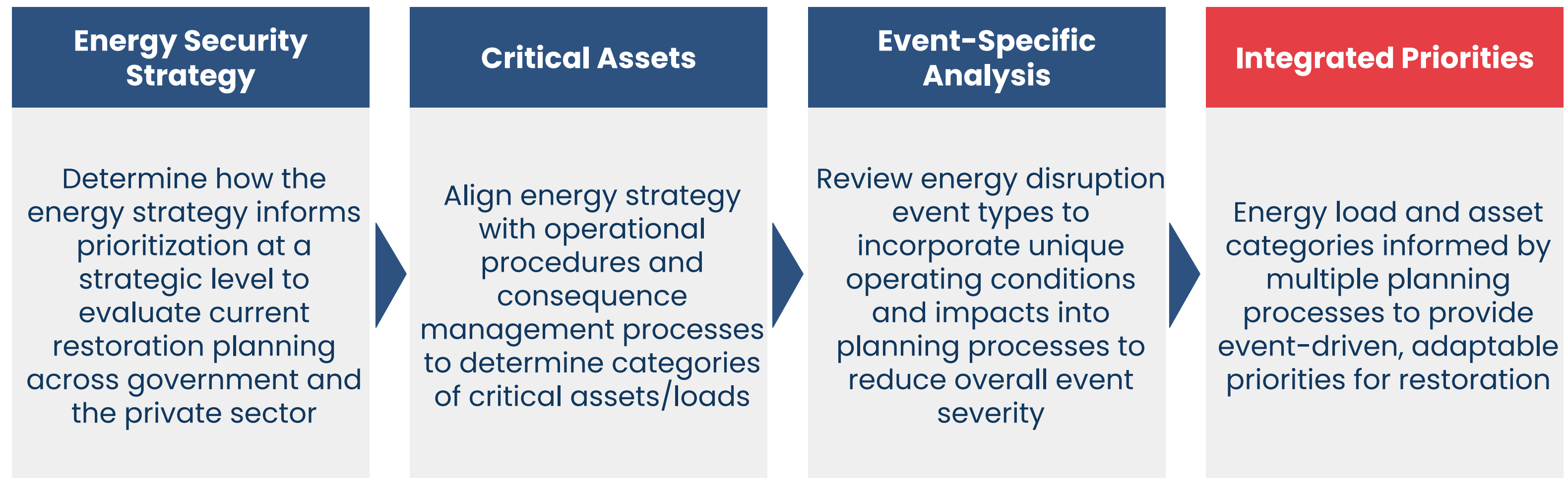
How might the state use their strategy and understanding of various priorities to plan for different types of events?

Step 1: Holistic Risk Integration

Restoration
Priorities

The outputs of the risk assessment and criticality matrix will inform the restoration process to ensure priorities maximize risk reduction benefits.

- Understand risk and criticality as drivers for decision-making during event response
- Incorporate unique impacts of different events to adapt processes for changing conditions



Step 2: Variable Crosswalk

3

Restoration
Priorities

Energy Strategy Selection. How does the state strategy affect identification and selection of energy loads for restoration?

1

Asset/Load Categorization. Which critical assets are essential to maintaining functionality/operability of the identified priorities?

2

Risk Dimensions. Considerations for the geographic size, anticipated duration, impacted populations and cross-sector impacts of the event on identified assets.

3

4

Event-Driven. How does the precipitating event support the last tier of prioritization?

Step 3: Scenario Development

Restoration
Priorities

Strategy	Economic	Load Identificaiton	Asset Types	Risk Dimensions	Impact Assessment
	• Communications for support of financial sector and connectivity • Transportation for movement of goods and availability of services		• 911/PSAP • LTE switching • Fiber relay facilities • Gas stations and fueling		• Regional outage • Expected duration 24-48 hours • Vulnerable populations • 1-2 Lifelines

Cold Weather Event

Updated Priorities

- Warming centers for displaced population
- Home heating (electricity and natural gas)
- Emergency medical dispatch
- Water pumping/treatment freeze offs

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Outstanding Questions

Interdependency Planning

1. **Identify + prioritize critical assets** – how do these change depending on scenario, comfortability with risk, and other dimensions of risk?
2. **Share best practices** – how to develop interdependency mapping methodology.
3. **Recommendations for how to develop resilience requirements** – Analyze existing resources to generate a list of best practices.

Design & Integration

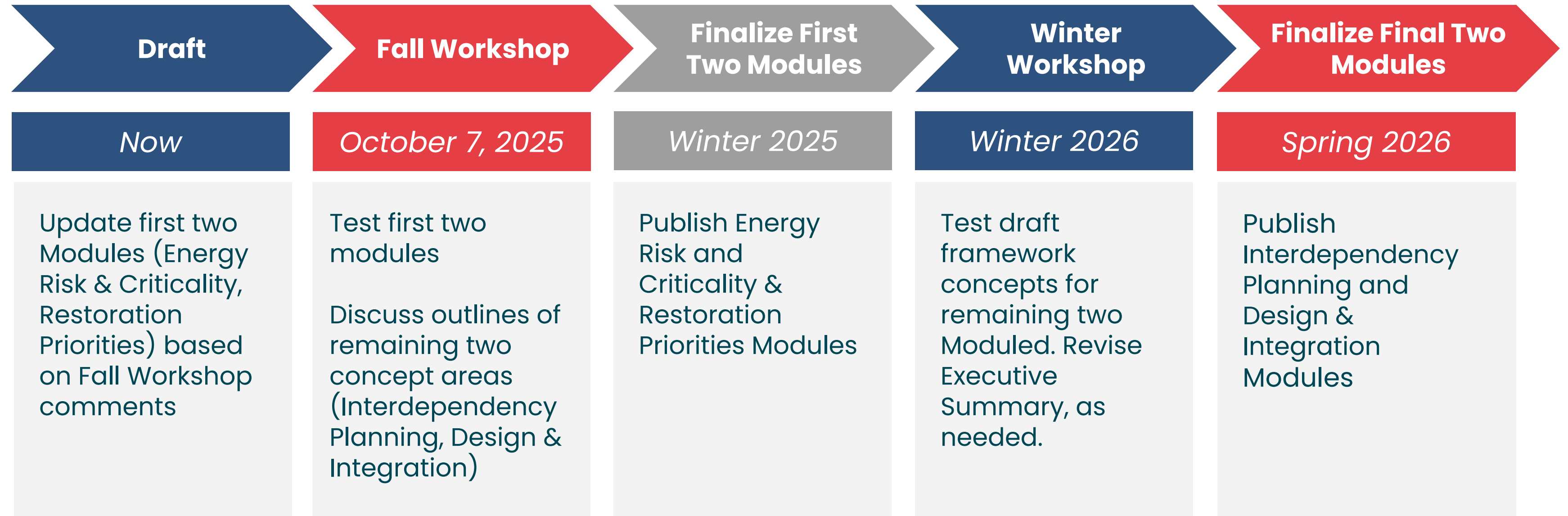
1. **Paint a picture of existing standards** – How are infrastructure design criteria aligned or not?
2. **Highlight economic/ policy factors may influence design** – Consider how rate design will affect design criteria. Consider real-world regulations and authorities (e.g. NESC Codes, USDA Rural Utilities Service).

Project Progress

Effort Milestones | Past, Present, and Future



Future Milestones



Next Steps: Introduction and Modules 1 & 2

Request for Feedback



Next Steps: Modules 3 & 4

Workshop Convening

4

**Inter-
dependency
Planning**

5

**Design &
Integration**

Save the Date!

When? Tuesday, October 7 | 9:00 – 4:00 pm CT

Where? Department of Revenue, Room # 2010
600 Robert St. N, St. Paul, MN 55101

What? Stress-testing Modules 1 & 2 using
strategies from the User Guide and iterating
Modules 3 & 4 through hands-on exercises.

**Advisory Group Members can offer
presentations as a part of the agenda.**

Workshop Objectives

CONTINUE DEVELOPING THE FRAMEWORKS



1. Energy Risk + Criticality
2. Restoration Priorities

3. Interdependency Planning
4. Design + Integration

TEST FRAMEWORKS



Work through a series of decision-making exercises and scenarios to determine how best to support energy resilience, equity, and economic development.

BUILD TRUST



Improve interregional resource integration and planning. Build a shared understanding of existing and future energy infrastructure capabilities, requirements, and gaps.

Workshop Agenda

Monday, October 6	
Time	Description
6:00 PM	OPTIONAL - Welcome Social Gathering

Tuesday, October 7	
Time	Description
9:00 – 9:15 AM	Welcome & Introductions
9:15 – 9:45 AM	Opening Presentation
9:45 – 10:15 AM	Applying the User Guide
10:15 – 10:45 AM	Discussion of Energy Risk and Criticality Section
10:45 – 11:00 AM	Break
11:00 – 11:30 AM	Discussion of Restoration Priorities Section
11:30 – 12:30 PM	Lunch (Potential for Working Session)
12:30 – 2:00 PM	Exploring Interdependency Planning Section
2:00 – 2:15 PM	Break
2:15 – 3:45 PM	Exploring Design and Integration Section
3:45 – 4:00 PM	Conclusion and Next Steps

Workshop Agenda

**What else would you like to see as a
part of the agenda?**

Questions?

Contact Us



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