



December 2025 Working Group Meeting

Interdependency Planning and Design & Integration
Outline Walkthrough

December 10, 2025



CONVERGE
STRATEGIES

Agenda

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Module Framework Overview

02

Interdependency Planning Outline

03

Design & Integration Outline

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Next Steps

Modular Framework



Key Updates

We held two office-hours style sessions to discuss Energy Risk & Criticality and Restoration Prioritization. These modules will be finalized by the end of Winter 2026. Today, we will introduce the outlines for the final two modules of the framework: Interdependency Planning and Design & Integration. The goal of today is validate the general structure and topics covered within these two modules.

Interdependency Planning Outline

Interdependency Planning Overview

Definition

Interdependency planning helps regions develop robust emergency response plans as energy is crucial to other critical lifelines (e.g., communications, energy, and transportation). Understanding how these sectors interact is key to achieving regional resilience. This framework will help users establish requirements within their organization and suggest methods for interdependency mapping with external partners and systems.

Module Goals

- Analyze 3-4 FEMA Critical Lifelines, based on their importance to the grid, and evaluate interdependency planning and concerns of each.
- Explain how interdependencies impact grid operations.
- Understand how outages along critical lifelines and their duration impacts grid operations.

Module Steps

SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5
Sector Overview	Sector Asset Analysis	Grid Operations Impact	Engagement Questions	Strategy Implications
Define the Critical Lifeline based on the Energy Security Strategies and understand how its loss impacts grid operations.	Analyze crucial assets within the sector most essential for grid operations.	Understand how outage duration within a sector impacts grid operations.	Provide examples and guidance on the 'right' questions to ask sector leaders to improve planning and coordination efforts.	Determine how the chosen Energy Security Strategy and Resource Adequacy needs impact planning in this sector.

Section 1: Sector Overview

This section introduces the Critical Lifeline sector and outlines the following:

- Sector definition and importance to grid operations
- Interprets the sector based on the each Energy Security Strategy

Sector Definition

Define the Critical Lifeline sector and its role in maintaining grid operations.

Energy Security Strategy Alignment

Analyze how implementation of each Energy Security Strategy impacts the sector.

Grid Operations Analysis

Evaluate how the grid would be impacted by the loss of key assets and capabilities provided by the sector.

Section 2: Sector Asset Analysis



Asset Type

Identify the relative value of 2-4 asset types that are essential to the sector's functionality (e.g., cell towers vs. switching facilities).



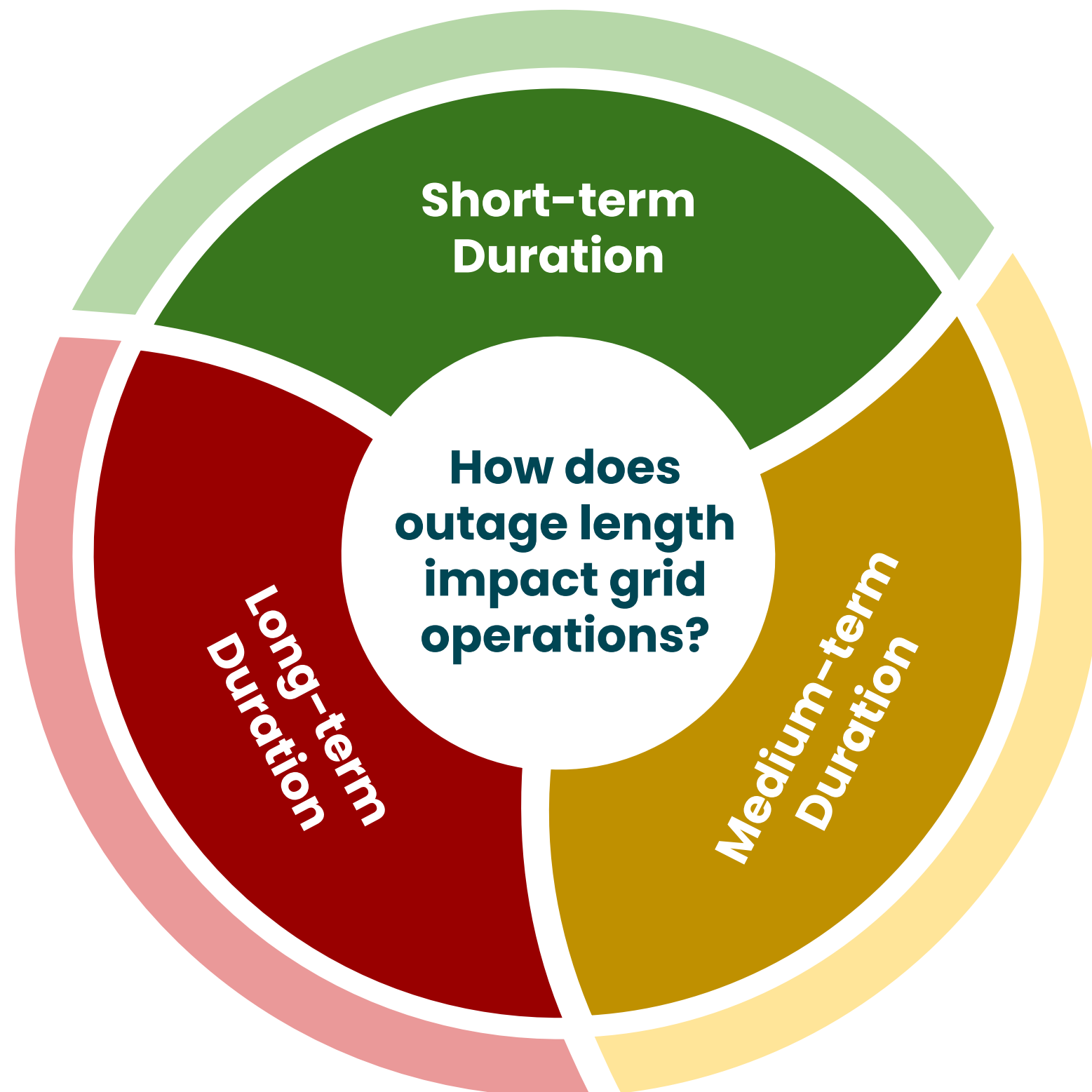
Load Assessment

Evaluate the relative energy load of each asset type against its distribution across the system (e.g., many small loads versus a few large loads).



Impact Evaluation

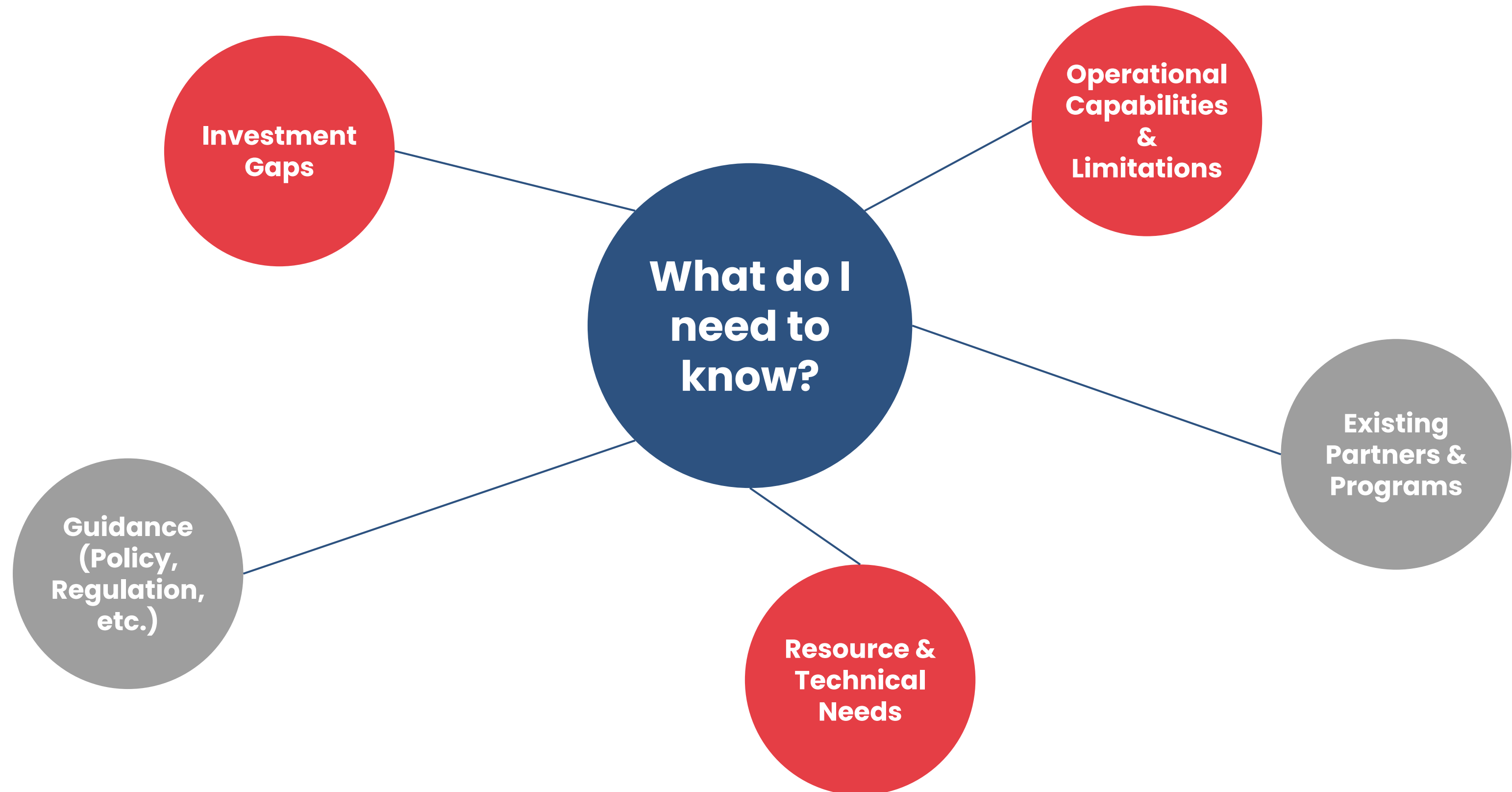
Determine the specific value of the sector to energy, based on the grid operation services provided by its asset types and their energy loads (e.g., fiber lines enable SCADA functionality).



Assessment Components

- Consider how an asset's operational constraints affect its impact evaluation (e.g., the amount of this asset makes it difficult to repair or remediate issues quickly)
- Evaluation of the asset's importance to the grid (i.e., the services or capabilities provided)

Section 4: Engagement Questions



Section 5: Strategy Implications

Sectors	Lifeline	Strategy	Energy Security Strategy	External Considerations	Resource Adequacy Nexus
	• Communications; • Energy; or • Transportation		• Diversification; • Economics; or • Resilience		Analysis of how energy supply impacts the lifeline and implementation of the strategy



Understand Priorities
• What operational gaps are being addressed? Which still exist? • What level of impact is occurring? • How do we remain adaptable to changing circumstances?

Design & Integration Recap

Design & Integration Overview

Definition

Design and integration refers to the ability of the infrastructure planning process to align between state policy, regulatory requirements, utility design, and ISO/RTO priorities. This can shape properly scaled T&D infrastructure design and performance requirements. The framework will provide guidelines for building uniform infrastructure design criteria that consider multiple organizational priorities and processes.

Module Goals

- Help state offices achieve their energy goals through improved infrastructure planning processes.
- Outline how each Energy Security Strategy influences grid design criteria.

Module Steps

SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5
Module Overview	Strategy Approach	Implementation Strategy	Resource Adequacy Nexus	Resource Annex
Define the 'design & integration' challenge using case studies and outlining the roles and responsibilities of energy stakeholders.	Understand how the respective Energy Security Strategy can be used to influence grid design criteria.	Evaluate state offices' ability to influence energy stakeholders and the tools they have, based on the State Energy Strategy.	Analyze how resource adequacy concerns are impacted and can be addressed by the chosen State Energy Strategy.	Outline key resources to be referenced when interacting with stakeholders or enacting policy measures.

This section defines the challenges state offices have with influencing grid design criteria, namely:

- Interpreting state policies for other sectors into relevant actions for energy stakeholders
- Understanding internal and external stakeholder roles and responsibilities related to grid design



Definition

Introduces 'design and integration' as a concept, defining what the challenge is for state offices.



Case Studies: Successful Grid Design Policy-Making

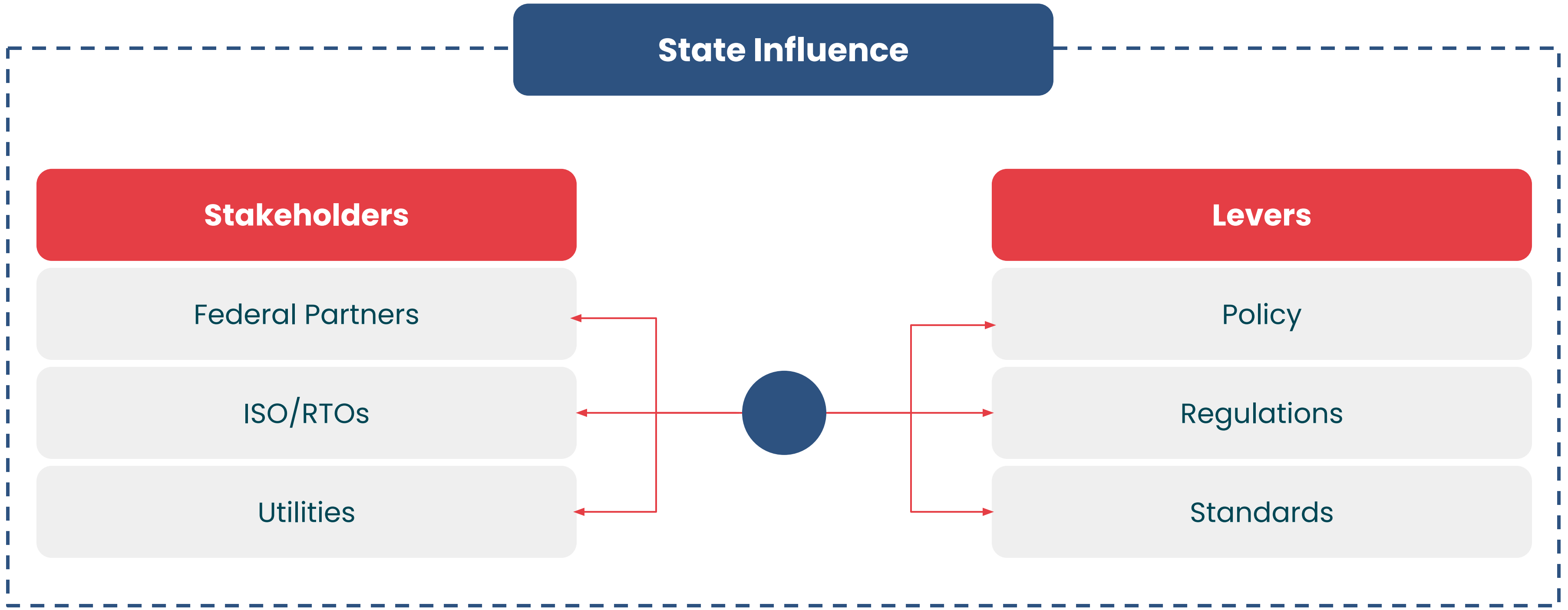
Provides 4–6 brief case studies, demonstrating how other states across the country have implemented grid design criteria.



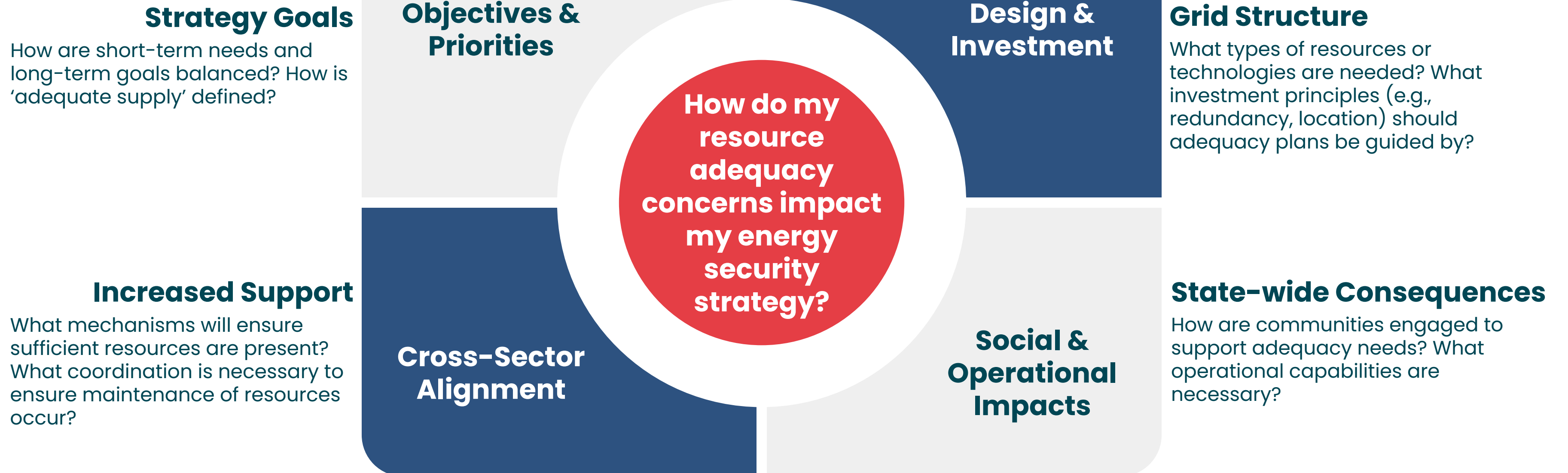
Roles & Responsibilities Matrix

Outlines the roles and responsibilities the state, utilities, ISO/RTOs, and federal partners have in grid design.





Section 4: Resource Adequacy Nexus



Duke Energy Florida, LLC Ten-Year Site Plan

April 2025

2025-2034

Submitted to:
Florida Public Service Commission



Provides a list of example, key resources to be referenced when enacting policy or engaging with key stakeholders:



Federal Resources

FERC Orders & Regulations.



State Resources

Energy & Climate Goals. Labor & Social Policy.



Utility & ISO/RTO Resources

Integrated Resource/Distribution Plans (IRP/IDP).

Next Steps

Next Steps

EEPIC Working Group Call

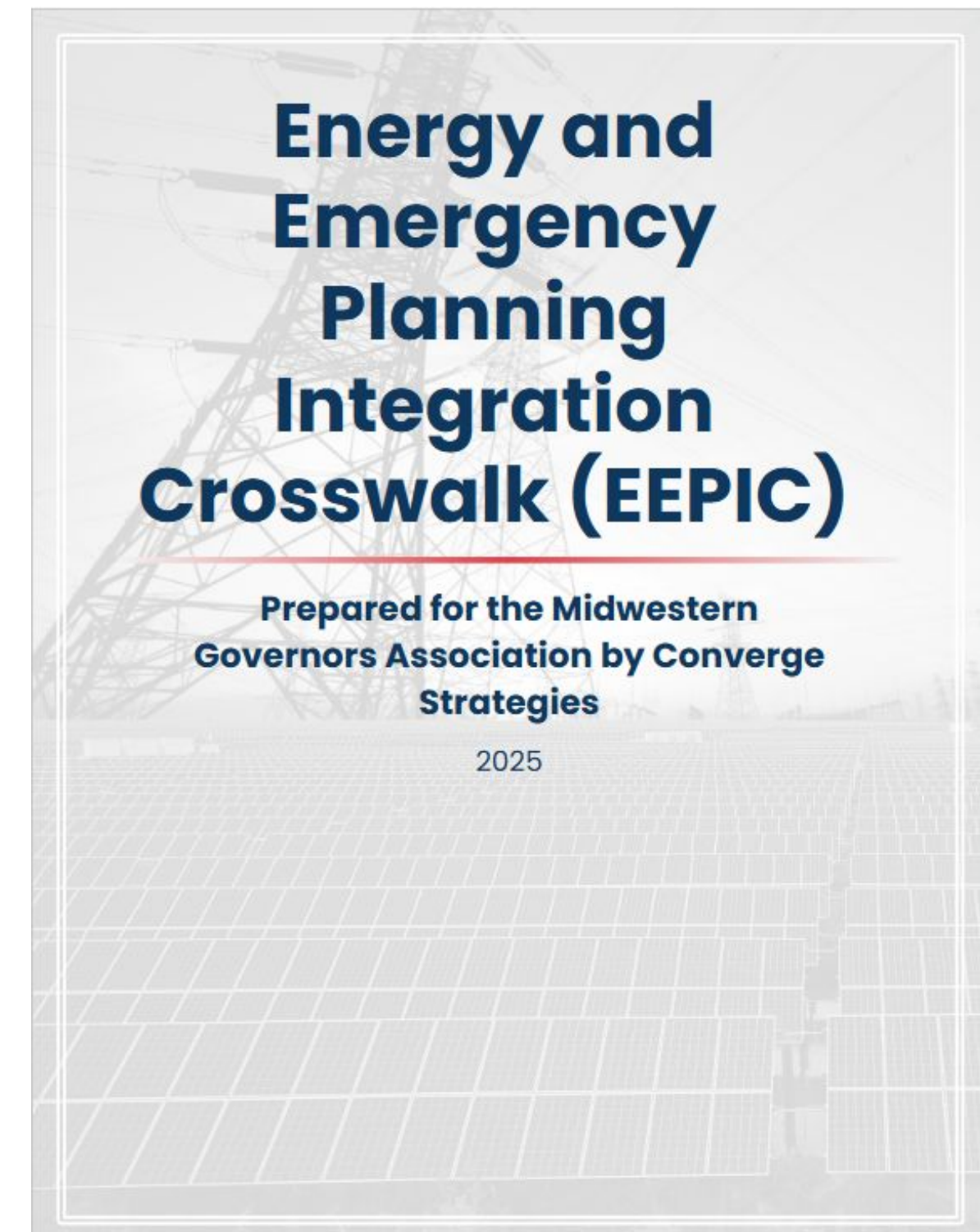
 **Objective.** Discuss first draft of Interdependency Planning and Design & Integration.

 **Date.** January 14, 2026

Workshop #2

 **Objective.** Use interactive scenarios to walk through the all modules of the EEPIC.

 **Date.** March 16-17, 2026 (Chicago, IL)



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