

The image features a blue gradient background with a white geometric pattern of intersecting lines on the right side. The text is positioned on the left side of the image.

NorthernGrid

CREPC Ad Hoc

Jan 28, 2026

Presentation Team

- Jennifer Galaway, PGE
- Charlie Pottey, NVE
- Eleanor Ewry, PSE
- Chelsea Loomis, WPP



NorthernGrid Committee Structure



Member

- Budget
- Vendor
- Administrative



Member Planning

- Scope
- Study
- Develop Plan
- Economic Studies
- *Open to the public*



Enrolled Parties Planning

- FERC-Jurisdictional entities



Enrolled Party and States

- State Utility Commissions
- Enrolled Parties (FERC-jurisdictional)
- Study guidance
- *Open to the public*



Cost Allocation Task Force

- Projects Submitted by Qualified Developers Selected into Plan
- State and Enrolled Party representatives



EPSC: FERC 1000
activities as basis
for FERC 1920

Scenario
Development

Study Scope
Development

Regular public
meetings

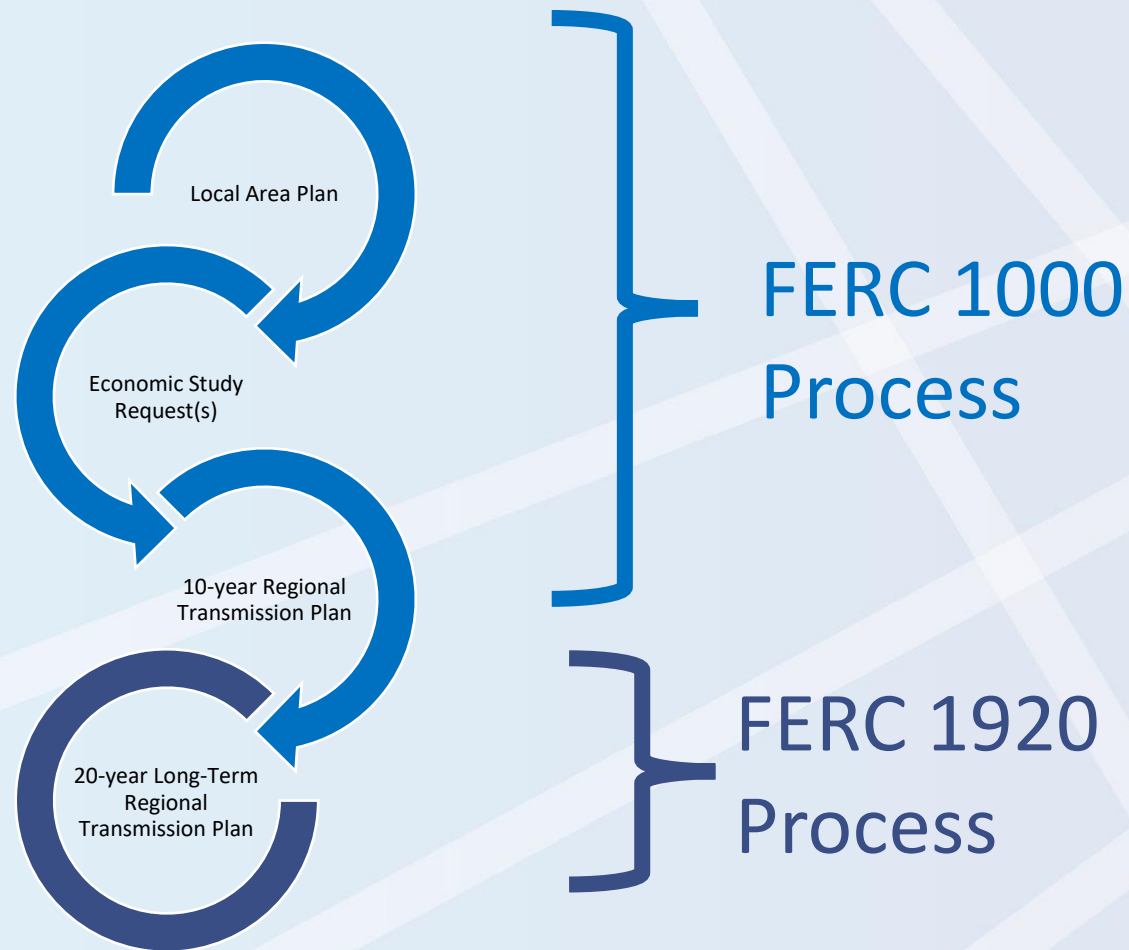
Study Report
development

Cost Allocation Task Force

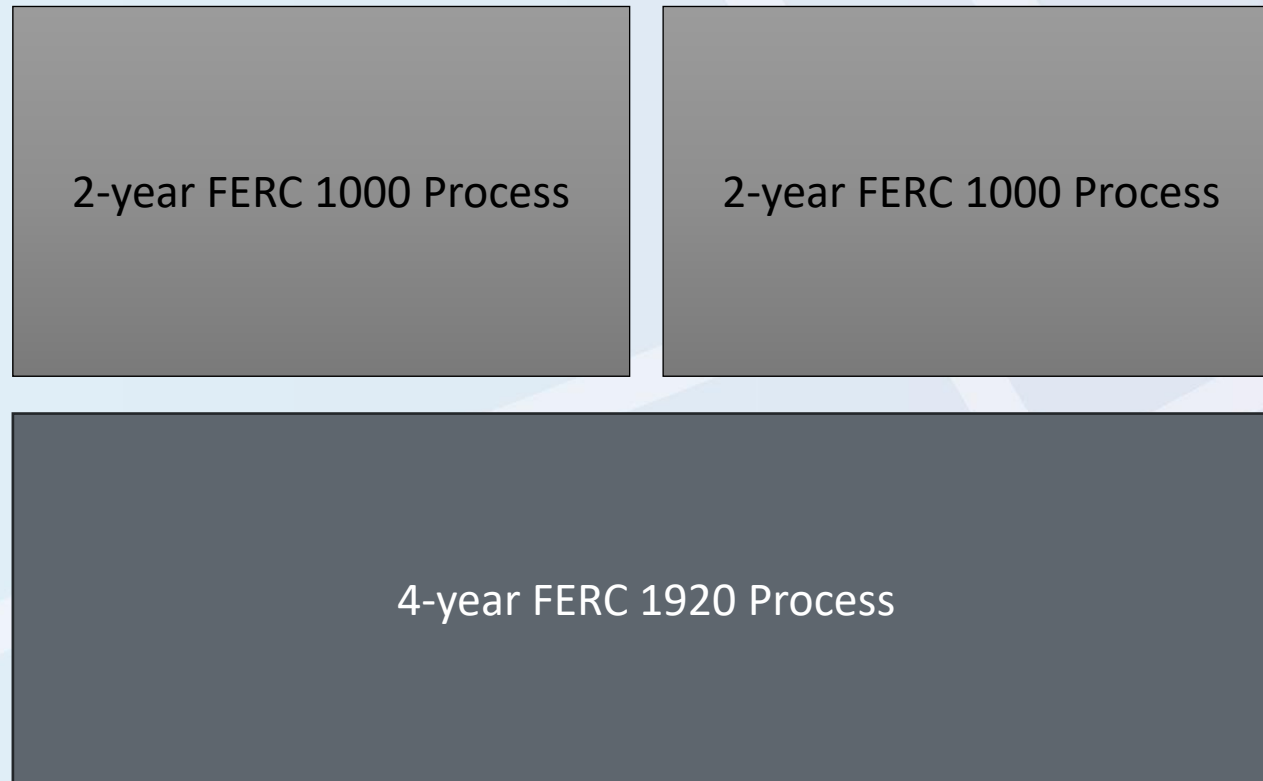
- The Task Force that carries out cost allocation tasks assigned to such Task Force in this Attachment K according to the Cost Allocation Task Force Charter.
- The Cost Allocation Task Force for NorthernGrid contains representatives from each of the Enrolled Parties.



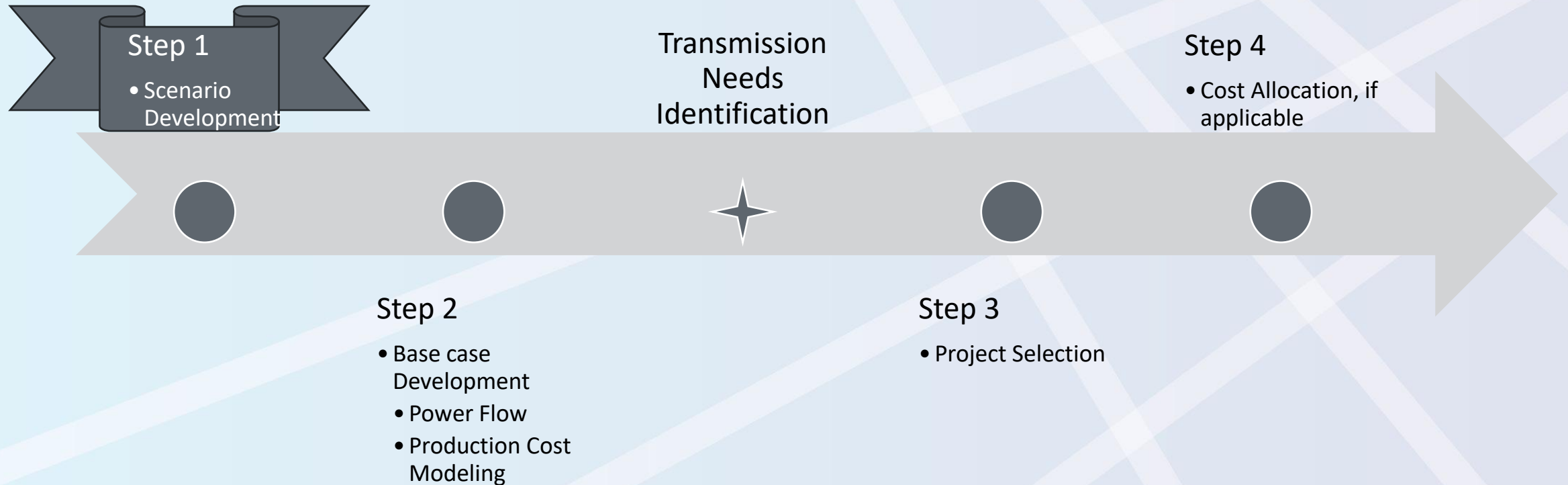
FERC 1000 and FERC 1920: Outputs as Potential Inputs



FERC 1920: NorthernGrid approach to study timeline



Proposed Timeline: Years 1-3



NorthernGrid's approach to State Engagement and Planning Scenario Development

Planning Principles

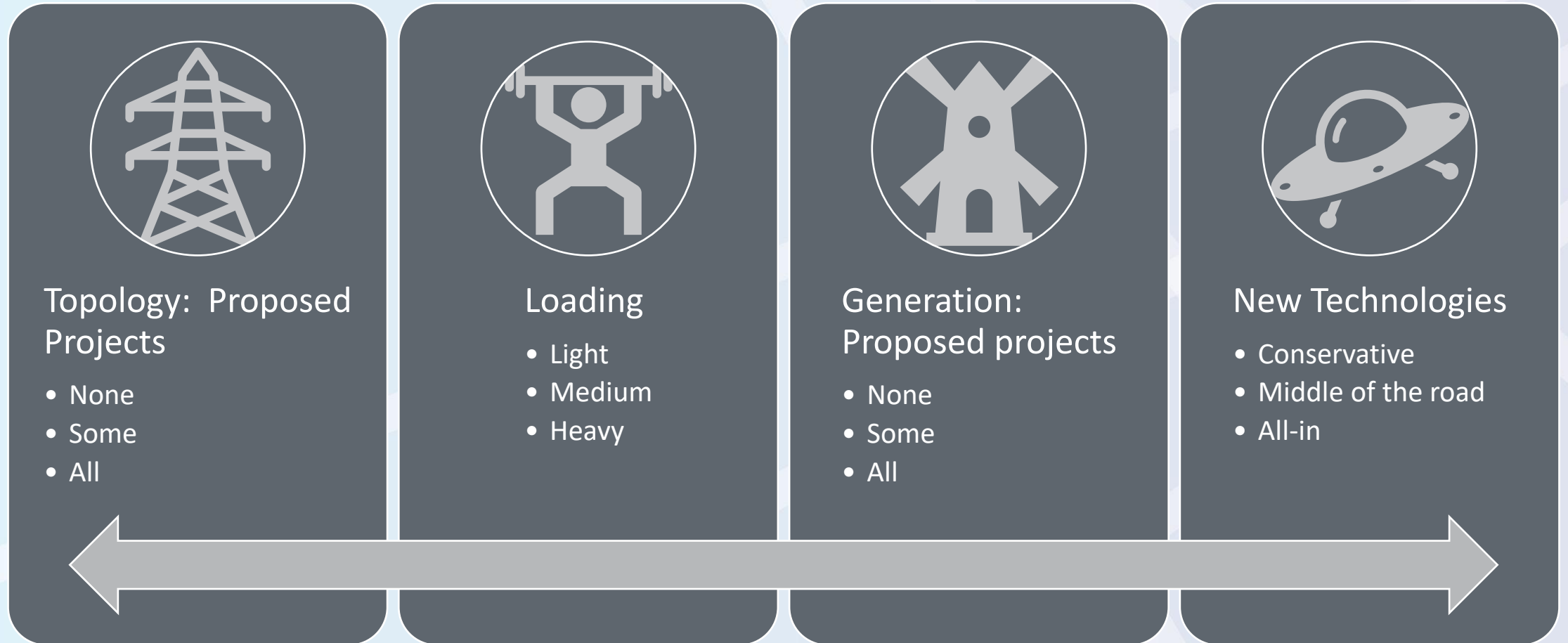
- Coordination
- Openness
- Transparency
- Information Exchange
- Comparability
- Dispute Resolution

Factor Categories

- Laws on resource mix
- Laws on decarbonization and electrification
- Integrated Resource Plans
- Fuel trends
- Resource retirements
- Generator interconnection activity
- Utility commitments



Scenario Development: an Example



FERC 1920 Scenario Development

Factor Categories

Laws on resource mix

Laws on decarbonization and electrification

Integrated Resource Plans

Fuel Trends

Resource retirements

Generator interconnection activity

Utility commitments

Impacts to Scenario

Allowed generation types

Impacts to allowed gen types (decarbonization)
and load profiles (electrification)

New Generation projects

Generator dispatch for fuel-based generators

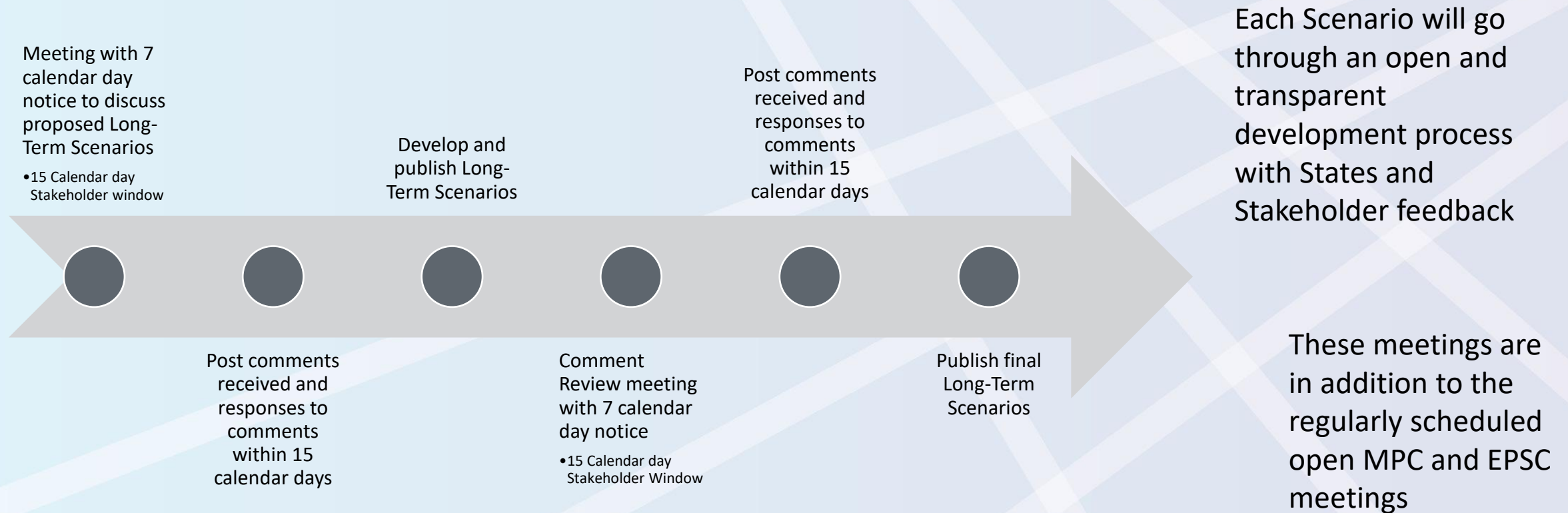
Generator retirements

(Local Area) inclusion of generator
interconnection activity

Generation types

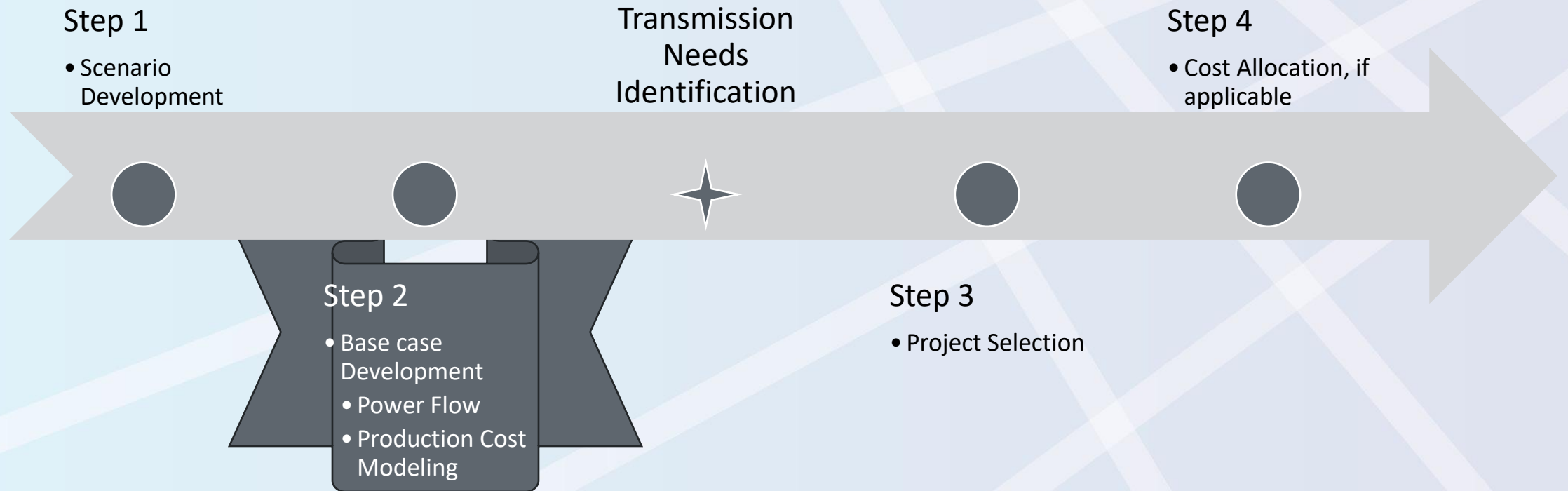


NorthernGrid's approach to State Engagement for Scenario Development



All Scenario Development meetings will be Public with specific invitations sent to the Enrolled Parties and States Committee

Proposed Timeline: Years 1-3





Analysis



Approach

Analysis: Benefits and Approach

Avoided or deferred facilities

Reduced Loss of load
probability or Planning
Reserve Margin

Production Cost Savings

Reduced Transmission energy
losses

Reduced congestion due to
transmission outages

Mitigation of extreme weather
events and unexpected system
conditions

Capacity cost benefits from
reduced peak energy losses

Cost comparison

Production cost modeling with
and without facilities

All cases will be analyzed for
power flow reliability as well as
production cost; reliability
solutions will be included in the
overall cost

Examples of Transmission Needs

Production Cost Modeling

- Congestion Relief
- Unserved load
- Production Cost

Reliability

- Thermal overloads
- Voltage excursions
- Stability violations
- Affected Systems

Public Policy

Supply Side/Delivery of Power

Identifying Solutions to Transmission Needs

Identify the Transmission Needs

- Make Public

Receive suggestions from RSEs and Stakeholders

- Technical Team Consideration

Identify initial set of Solutions

- GETs, Affected System Consideration, Right-Sizing, etc.

Verify the solutions resolve the Transmission Needs



Right-Sizing Transmission Solution Principles

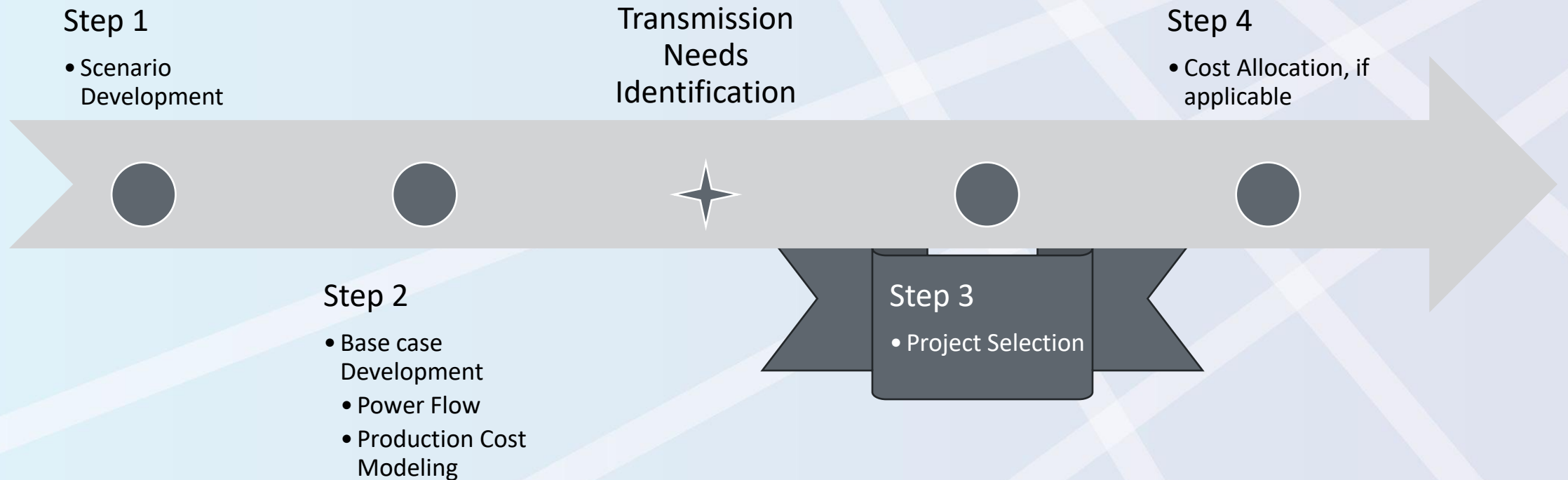
Right-Sized Replacement Transmission Facility

Meet TP needs and Regional needs

Notable increase in capacity

Utilizes existing route

Proposed Timeline: Years 1-3



Selection of Projects

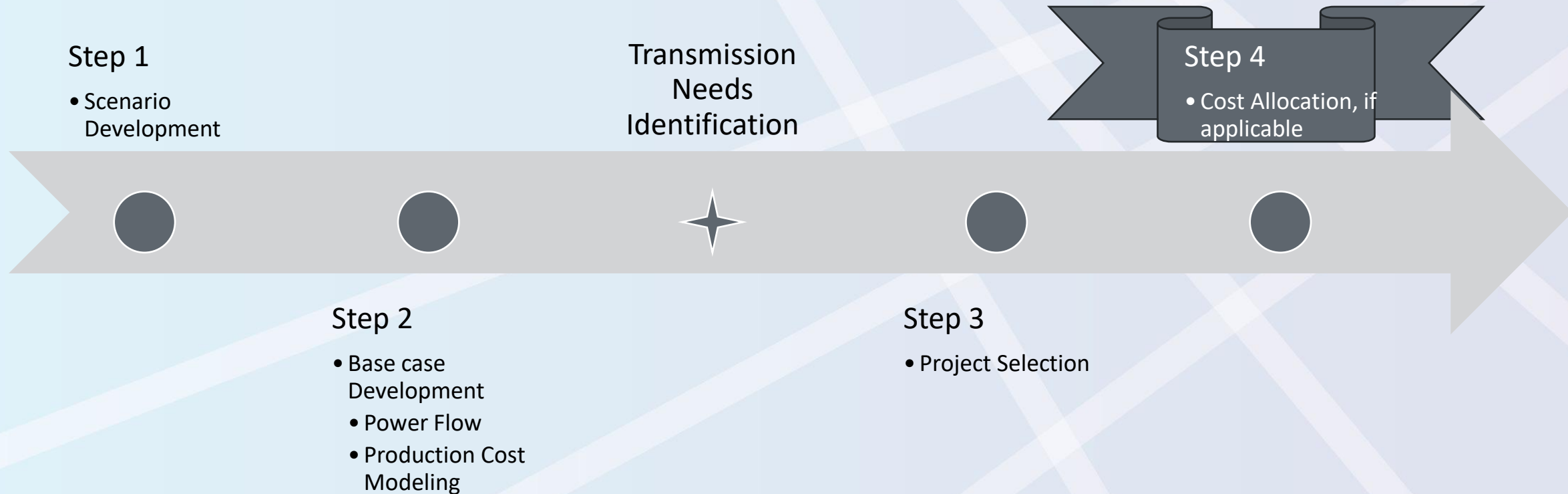
- Calculate the Benefit-to-Cost Ratio for all Long-Term Scenarios* using the seven Factors identified in FERC 1920
- Projects with Benefit-to-Cost Ratios with 1.25 or more for all three Scenarios will be considered for selection into the Long-Term Regional Transmission Plan
- NorthernGrid's current Attachment K identifies the seven Required Benefits in section 3.4.3 as those that will be used for project selection
 - If further benefits are identified in the Scenario Development process, they may be considered

*Benefit-to-Cost Ratios will be calculated for all Sensitivities for Informational Purposes



NorthernGrid

Proposed Timeline: Years 1-3



Cost Allocation

Cost Allocation Task Force

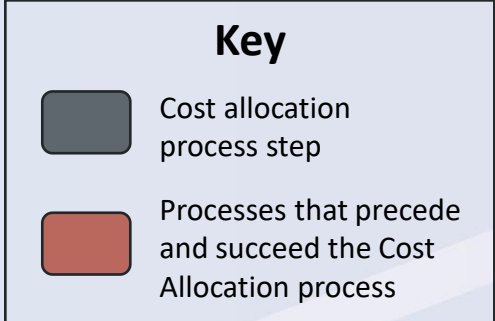
- Enrolled Parties
- States

Calculation of Benefits

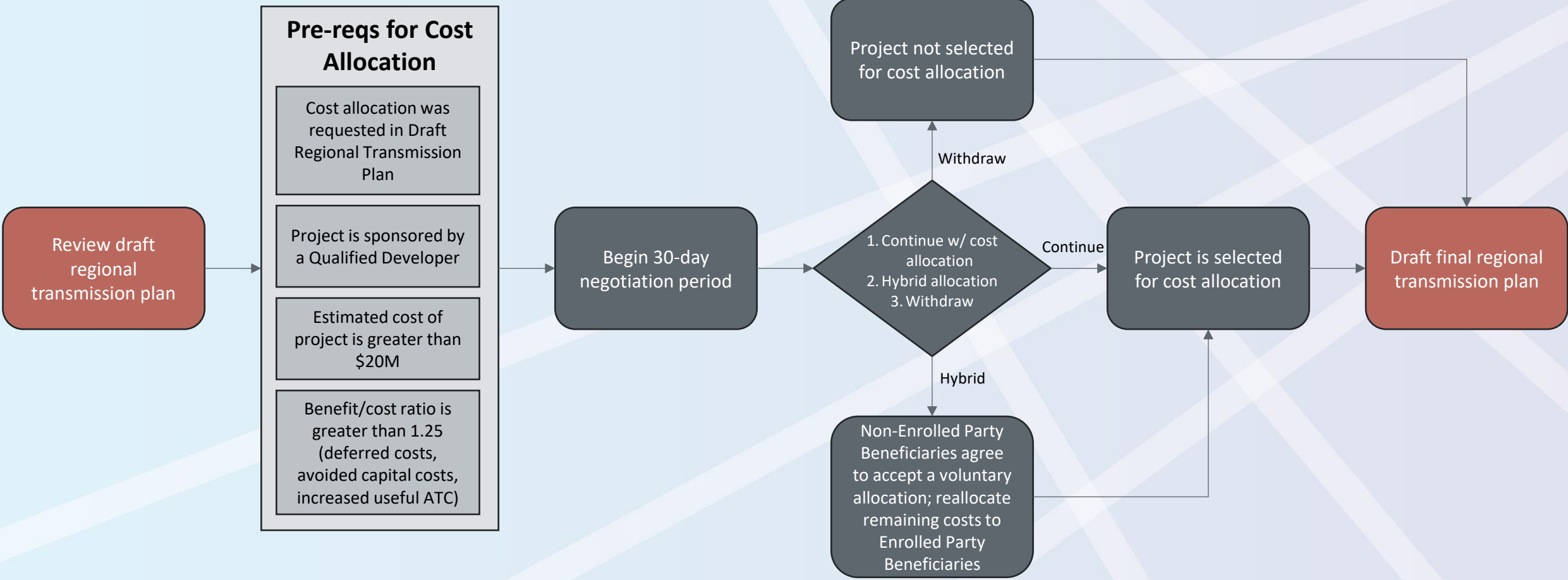
- Three Benefits (currently)

Voluntary Funding Opportunity

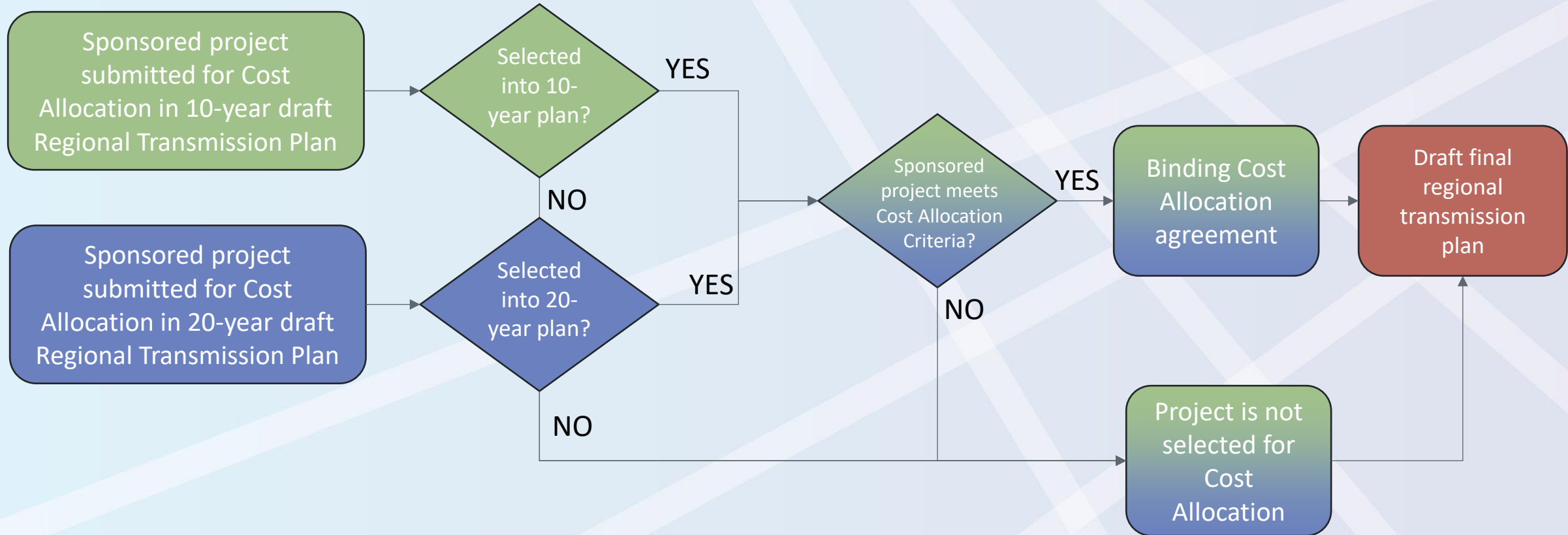
- Relevant State Entities
- Developers
- Non-enrolled transmission providers



Existing Order 1000 Cost Allocation Process



Proposed 1920 & 1000 Combined Cost Allocation Process



*must be sponsored by a Qualified Developer

Cost Allocation Metrics for FERC 1920 Planning Purposes



In Proposed Attachment K

- Three Approved Metrics from FERC 1000 Process



In Discussion

- Seven Proposed Metrics from FERC 1920 Process

THANK YOU!

NorthernGrid

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