

Cost Allocation Education

Grace Niu
Sr. Lead Engineer, Transmission Planning

Deactivation Enhancements Senior Task Force
September 18, 2025

Background: Cost Allocation related to Generation Deactivation

RTEP Transmission Project: Type, Driver, Cost Allocation

Baseline Project: Cost Allocation Process

Cost Allocation Methodology: Reliability, Economic, Public Policy

Resources: Reference Materials

Tariff Schedule 12 (b)

- Identify reliability violations resulting from generation deactivation
- Require reliability project to mitigate reliability violations
- Project costs are allocated pursuant to cost allocation methodologies for reliability projects

Tariff Part V Section 120

- Required reliability project may not be completed by proposed deactivation date
- Generation Owners may elect to continue operating as RMR unit until necessary projects are completed
- RMR unit cost are allocated to the load in the zone(s) that will be assigned financial responsibility for the required reliability project

Baseline

- **Need:** Ensure compliance with NERC, regional and local transmission owner planning criteria and address market efficiency congestion relief
- **Driver:** Reliability; Economic; Public Policy; Multi-Driver
- **Cost allocation:** Varies by project driver and voltage level of the involved facilities
- **RTEP inclusion:** Approved by PJM Board

Network

- **Need:** Address the needs for interconnection of Generating Facilities or Merchant Transmission Facilities
- **Driver:** New Service Request
- **Cost allocation:** 100% to the New Service Request
- **RTEP inclusion:** Approved by PJM Board

Supplemental

- **Need:** Address transmission owner local reliability needs
- **Driver:** Customer Service; Equipment Material Condition, Performance and Risk; Operational Flexibility and Efficiency; Infrastructure Resilience
- **Cost allocation:** 100% to the local zone
- **RTEP inclusion:** Presented to PJM Board for awareness before included in local plans

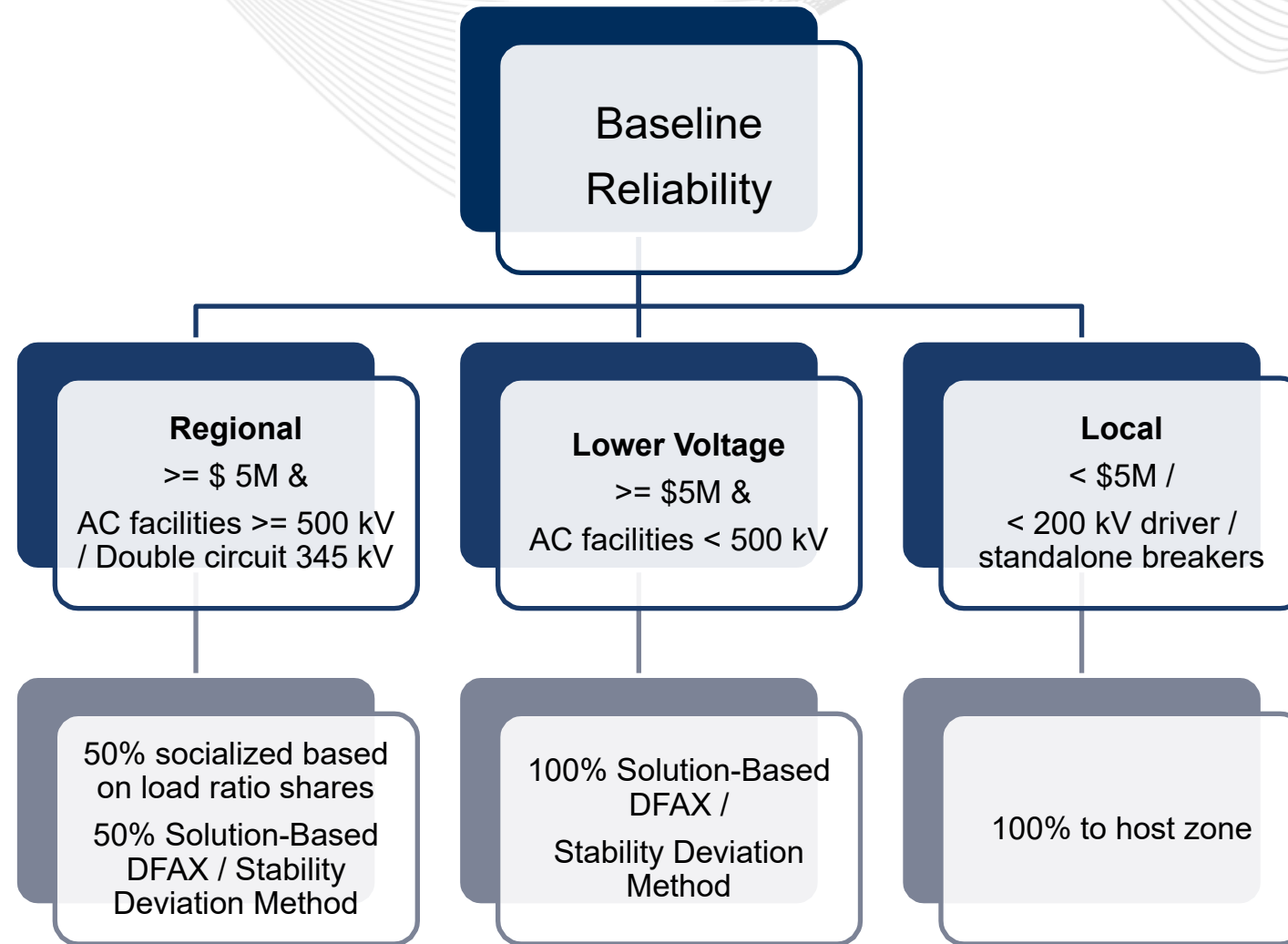
Cost Allocation Procedures

- **Federal Guidelines** (FERC Order No. 1000): Commensurate with benefits
- **PJM Transmission Owners' Role**: Developed detailed procedures
- **PJM Implementation**: PJM Open Access Transmission Tariff (OATT) and Planning Manuals outline detailed methodology

Cost Allocation Development and Approval

- **Development**: PJM staff develops allocations based on tariff and manual procedures
- **Approval**: The PJM Board of Managers reviews and approves the proposed allocations
- **FERC Filing**: For baseline upgrades, PJM files the board approved cost allocations with FERC

Driver	Description
Reliability	Ensure compliance with NERC standards and maintain system reliability
Economic	Relieve congestion and improve market efficiency
Public Policy	Support state or federal policy goals
Multi-Driver	Address a combination of the above drivers

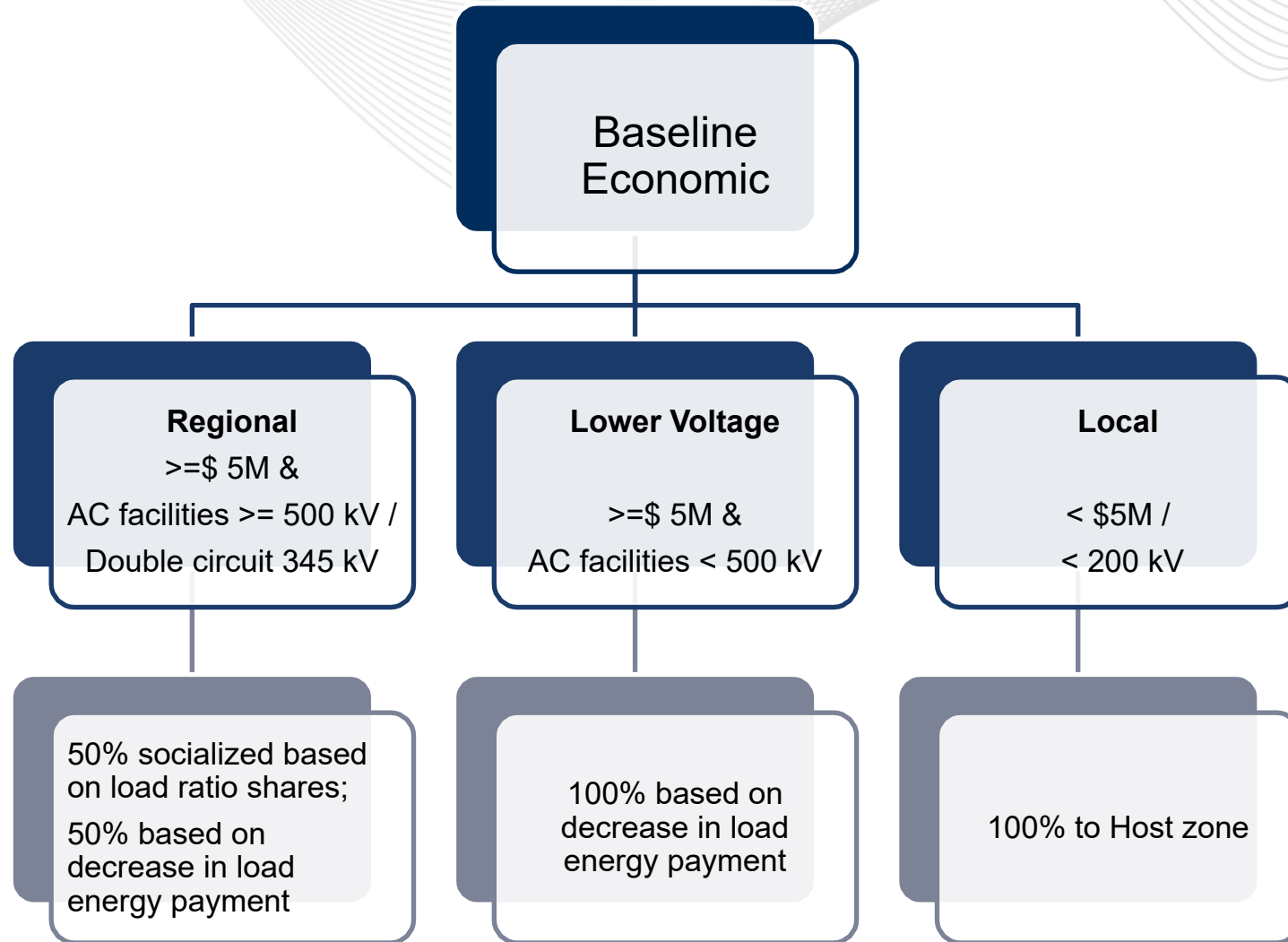


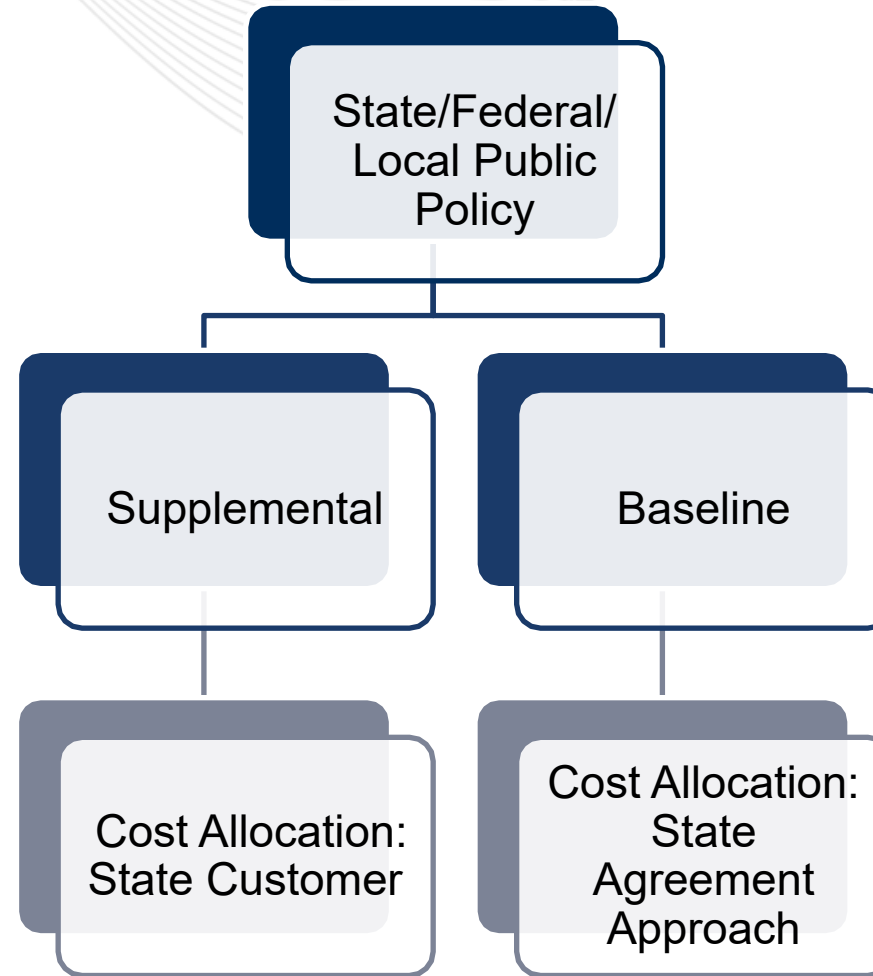
Solution-Based DFAX allocation

- **Applicability:** Regional & Lower Voltage facilities (except those driven by stability)
- **Methodology:** Based on each customer zone relative contribution to power flows on baseline upgrade
- **Threshold:** zones contributing less than 1% per MW are excluded, except local zone

Stability Deviation Method allocation

- **Applicability:** Stability-driven Regional & Lower Voltage facilities
- **Methodology:** Based on each customer zone relative contribution to the transient voltage angle deviations at each load bus
- **Threshold:** Angle deviations < 25% of maximum deviation are excluded





Multi-Driver Projects

- Driven by combination of reliability, economic, public policy

Proportional Multi-Driver Project

- **Concept:** Combines separate single driver solutions into one integrated project
- **Cost Allocation:** based on relative costs of the individual projects that would have been required to address each driver individually

Incremental Multi-Driver Project

- **Concept:** Expand a single driver solution to address additional drivers
- **Cost Allocation:** Same as for proportional project but treat the estimated cost of modifying the original project as if it were the estimated cost of a separate project

PJM OATT: <https://agreements.pjm.com/oatt/4424>

Manual 14B: <https://www.pjm.com/-/media/DotCom/documents/manuals/m14b.pdf>

Web posting: <https://www.pjm.com/planning/m/project-construction>

Project Status & Cost Allocation

The table below provides project status and cost allocation information for baseline, network and supplemental projects in PJM's Regional Transmission Expansion Plan (RTEP). Immediate-need reliability projects (red text) are also included in the table, but are not included in the other project types and displayed on this page.

PJM's Open Access Transmission Tariff, Schedule 12 contains the cost allocation factors and responsible parties, as filed with FERC:

[Appendix A](#)

Transmission Cost Planner (TC Planner)

Transmission Cost Planner (TC Planner) may be used to help PJM stakeholders better understand their current transmission costs and estimate their future transmission costs. TC Planner provides a wealth of pertinent information for PJM Regional Transmission Expansion Plan (RTEP) Baseline and Supplemental upgrades. TC Planner enables users to estimate annual revenue requirement and monthly transmission cost charges for the current month and a user selected future month within the 10-year horizon for a user selected responsible transmission zone.

An existing account in the PJM Account Manager will automatically grant users read-only access to the TC Planner. No additional access requests are required beyond having a valid Account Manager account. To request access or to set up a new PJM account, refer to the [instructions](#) (PDF).

[Transmission Owner Non-binding Indication of Intent to Fund Network Upgrades \(PDF\)](#).

Production: [Sign In](#) | [Register](#)

Filters

Upgrade Types (All) ▾

Region (All) ▾

Project Years ▾

☐ Immediate Need Only

[Clear](#)

Export: [XLS](#) [XML](#)

Showing results 1 - 1 of 1

100 ▾

Upgrade ID	Voltage (kV)	Transmission Owner	State	Status	Cost (millions)	Cost Allocation (%)	Required Date	Projected In-Service	Actual In-Service	PJM Board Approval
b0002 b0002 Increase emergency rating of Windy Edge - Lakespring - Texas 115 kV	All ▾ 115	All ▾ BGE	All ▾ MD	All ▾ ✓	3.77	BGE: 100.00			1.1.2006	5.9.2005

Facilitator:

David Anders,
David.Anders@pjm.com

Secretary:

Jonathan Ruffin,
Jonathan.Ruffin@pjm.com

SME/Presenter:

Grace Niu,
Grace.Niu@pjm.com

Cost Allocation Education

A green speech bubble containing a white question mark, positioned above a blue speech bubble with three horizontal lines, indicating a question or contact point.

?

Member Hotline

(610) 666-8980

(866) 400-8980

custsvc@pjm.com