



PJM's Competitive Planning Process

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Lead Engineer

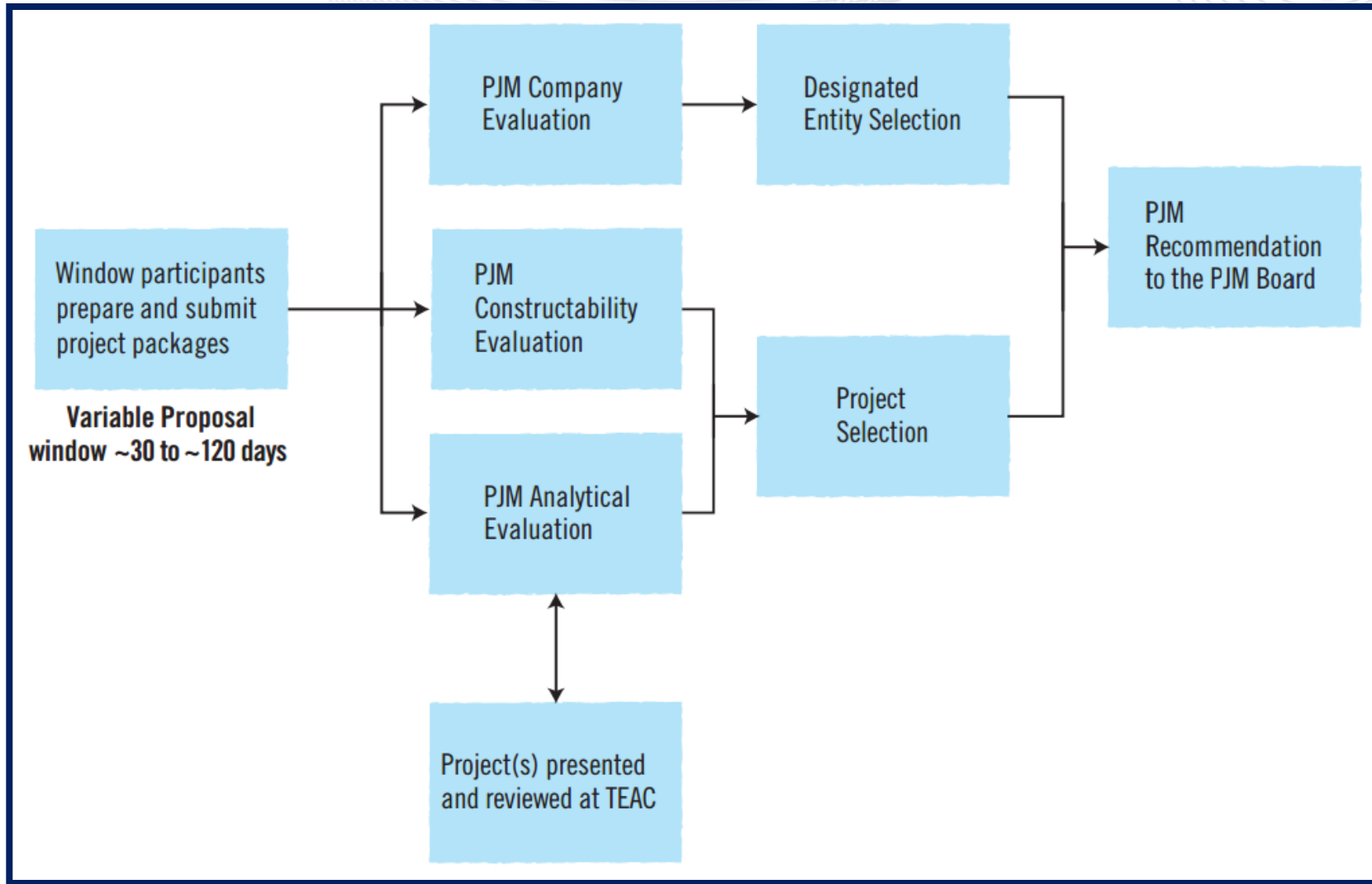
Long Term and Interregional Planning

June 27th 2025

DESTF

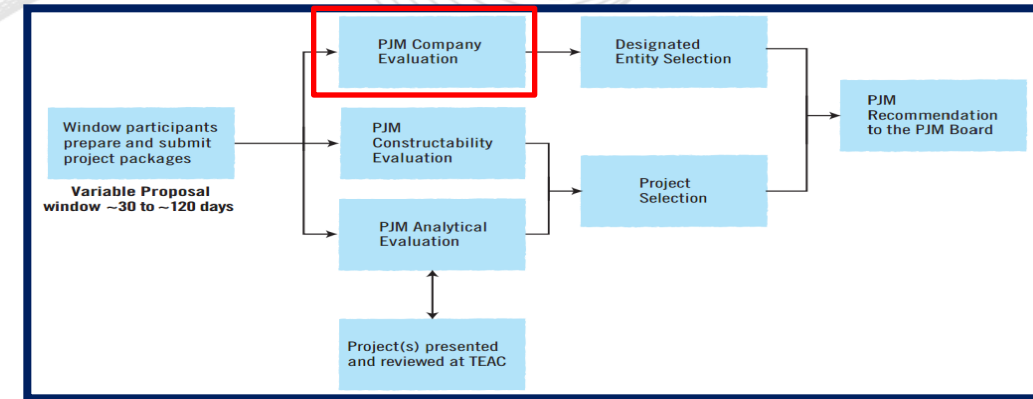
- ✓ July 21, 2011: FERC issues Order No.1000 (RM10-23-000)
- ✓ Feb. 29, 2012 – July 22, 2013: PJM and TOs submit a series of compliance filings
- ✓ May 15, 2014: FERC accepts PJM and TOs' filings, affirmed by DC Court of Appeals on August 15, 2014
- ✓ Opportunity for non-incumbent transmission developers to submit project proposals through a RTEP process window to be considered for project construction, ownership, operation and financial responsibility

- ✓ Greater opportunities for transmission development, construction, maintenance and operation by non-incumbents
- ✓ One or more needs: reliability, market efficiency, operational performance, public policy
- ✓ Competitive solicitation window based process project classes:
 - *Long-lead and economic-based projects*: reliability or market efficiency driven system enhancements in year six or beyond – 120 day window
 - *Short-term projects*: reliability driven system enhancements needed in year four or five – 60 day window.
 - *Immediate-need projects*: reliability driven system enhancements needed in three years or less; window if possible, likely less than 30 days nominally.



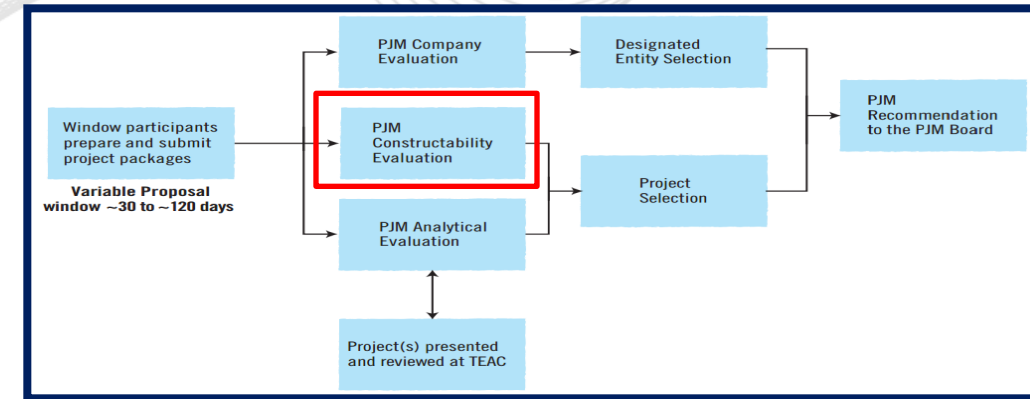
- ✓ For a company to be considered a Designated Entity for proposed project(s)
 - Can this company build and own a generic transmission project?
- ✓ Conceptual Criteria:
 - Previous Record, Experience, Plans to Gain Necessary Expertise
 - Standardized Practices
 - Financial Statements
 - Equipment History: Failures, Remedies, Spares
 - Right-of-Way Experience
- ✓ Pre-qualification transparency via PJM web site

- ✓ Info submitted as part of the project proposal package
- ✓ Project specific experience:
 - Evidence of ability to secure financing
 - Engineering / Design
 - Development / Right-of-Way Acquisition
 - Construction
 - Operations
 - Maintenance

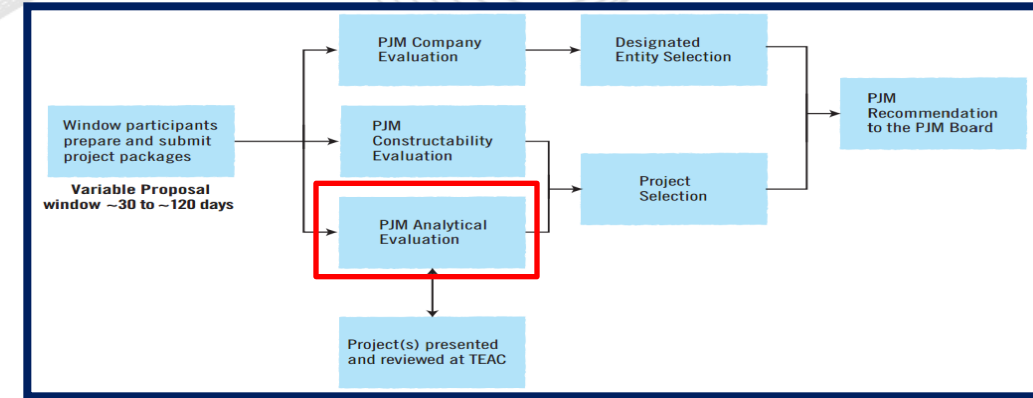


✓ Assessment of project/construction risks:

- Cost estimate
 - Design
 - Material
 - Labor
 - Overhead
 - Contingency
- Project finance plan
- Project plan
 - Permits required
 - Right of way acquisition
 - Project one-line diagram
 - Station(s) general arrangement
 - Transmission line route
- Operational plan
 - Control center
 - Telemetry



- Schedule
 - Engineering
 - Right of way acquisition
 - Long lead time equipment
 - CPCN requirements
 - Construction permitting
 - Construction activities
 - Contract labor procurement plan
 - Outage plan
- Maintenance plan
- Compliance with standards organizations
- Other data as required



- ✓ Proposal would solve identified issues
- ✓ Which project most efficient, cost-effective?
- ✓ Relevant project benefits meet 1.25:1 Benefit-to-Cost Ratio Threshold
- ✓ Secondary benefits - addressing other system reliability, operational performance, market efficiency or public policy objectives
- ✓ Other factors:
 - Ability to complete project on time
 - Risk / delay to obtain required regulatory approvals

Reliability Analyses

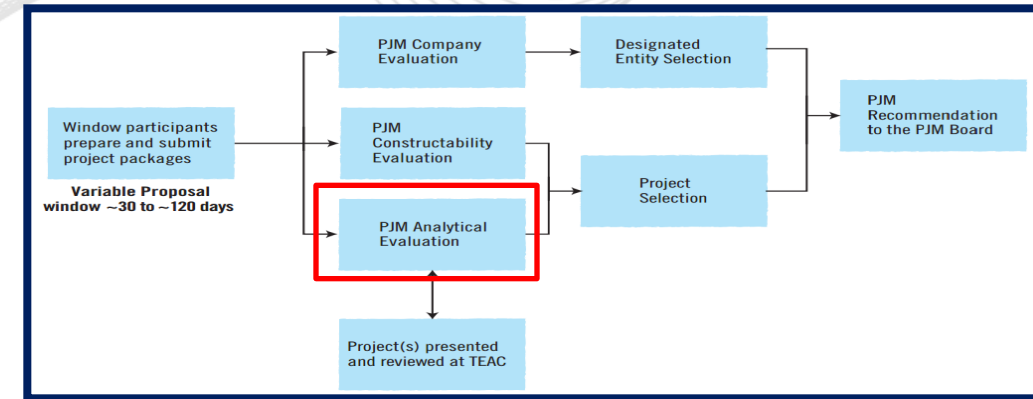
- ✓ Does project solve issue as proposed?
- ✓ Does it cause other reliability issues?
- ✓ Transient stability, voltage, thermal, and short circuit performance
- ✓ NERC reliability planning criteria

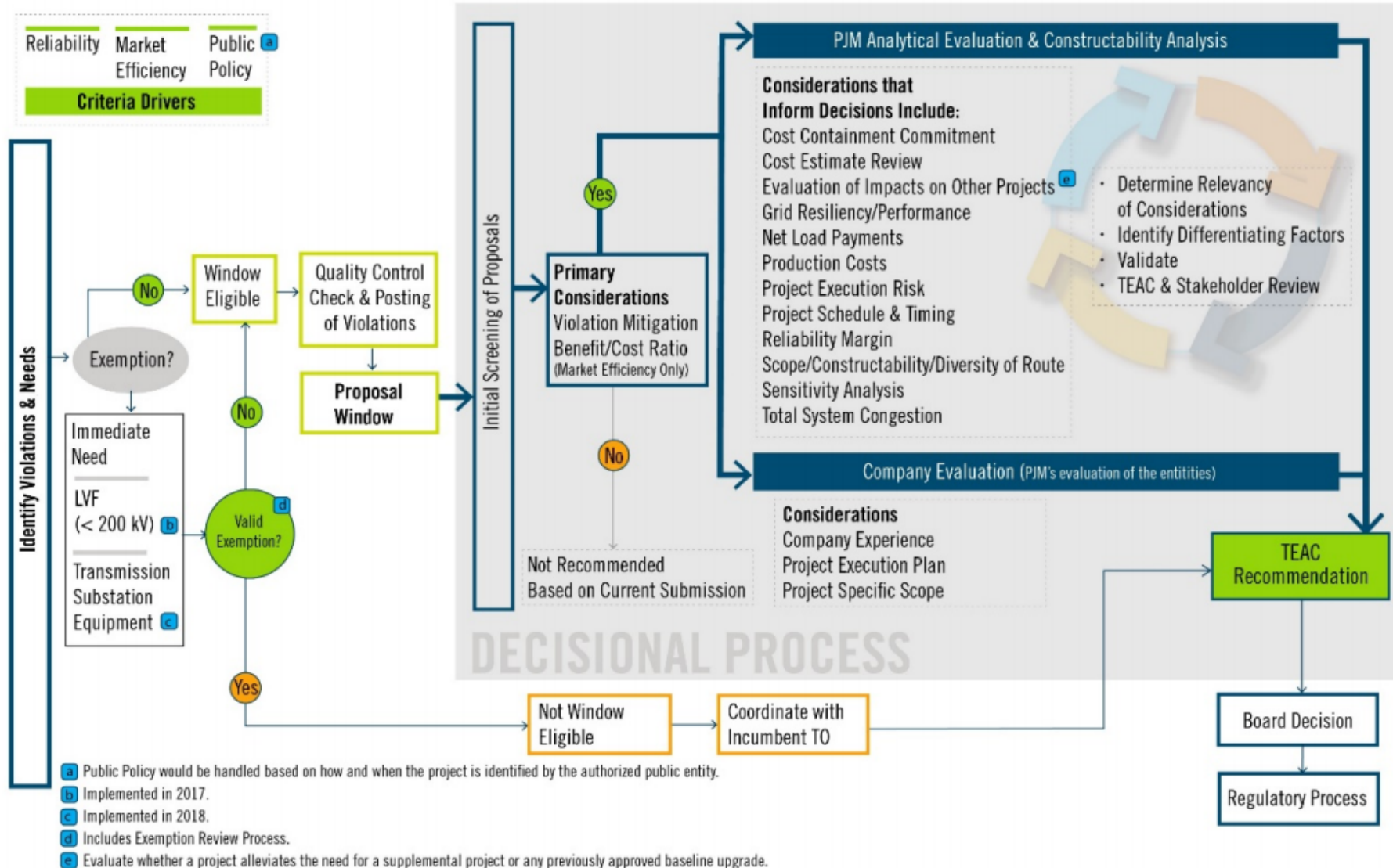
Market Efficiency Analyses

- ✓ Congestion relief as proposed?
- ✓ Meet established 1.25:1 benefit-to-cost metric?

Public Policy Analyses

- ✓ Ability to satisfy public policy objectives (e.g., renewable energy delivery)





	2022 Multi Driver Window 1	2022 RTEP Proposal Window 1	2022 RTEP Proposal Window 2	2022 RTEP Proposal Window 2	2023 RTEP Window 1	2023 RTEP Window 2	2024 RTEP Window 1
Window Open	6/7/2022	7/1/2022	11/1/2022	2/24/2023	7/24/2023	3/6/2024	7/15/2024
Window Close	8/8/2022	8/30/2022	12/1/2022	5/31/2023	9/22/2023	4/5/2024	9/17/2024
Objective	2027 RTEP	2027 RTEP	2027 RTEP	2027/2028 RTEP	2028 RTEP	2028 RTEP	2029 RTEP
Flowgates	18	275	6	1244	238	183	8654
Proposals	14	17	3	72	20	21	95
Proposal From Incumbents	9	13	3	41	15	18	88
Proposal From Non-Incumbent	5	4	0	31	5	3	7
Entities	3	7	1	10	7	6	16
Cost Range	\$215k - \$127M	\$260k - \$386.73M	\$7.70M - \$35.17M	\$.802M - \$3,503.8M	\$1.08M - \$1,300.8M	\$0.450M - \$229.3M	\$0.119M - \$2,839.1M

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