

PJM Organization

PJM State & Member Training Dept.

Disclaimer:

PJM has made all efforts possible to accurately document all information in this presentation. The information seen here does not supersede the PJM Operating Agreement or the PJM Tariff both of which can be found by accessing:
<http://www.pjm.com/documents/agreements/pjm-agreements.aspx>

For additional detailed information on any of the topics discussed, please refer to the appropriate PJM manual which can be found by accessing:
<http://www.pjm.com/documents/manuals.aspx>

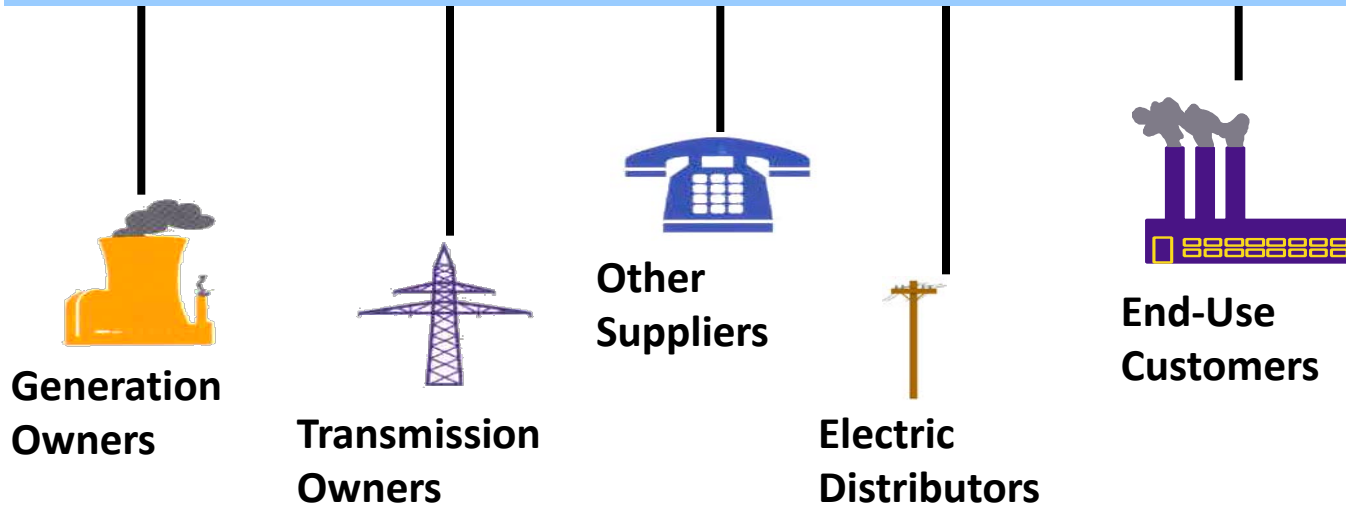
PJM Governance

Board of Managers

Two Tier Governance

Independent Board (10)

Members Committee (Sectors)



Selection Process

- PJM Nominating Committee
 - Includes one representative elected annually from each of the five member sectors and three board members
 - Responsible for identifying qualified board candidates
 - Employs a consulting firm to assist in identifying these candidates
 - Proposes identified candidates to the PJM Members Committee
 - Nominated candidates are elected at the PJM annual meeting







PJM Board of Managers Criteria

- Four members must have expertise and experience in corporate leadership at the senior management of board level or in finance or accounting, engineering or utility law and regulation
- One must have expertise and experience in the operation or concerns of transmission-dependent utilities
- One must have expertise and experience in the operation or planning of transmission systems
- One must have expertise and experience in the area of commercial markets and trading and risk management
- One is the PJM CEO (non-voting)
- The Board as a whole must meet these qualifications, but no specific Board member must have only one of these qualifications, and Board members may fit one or more of these qualifications

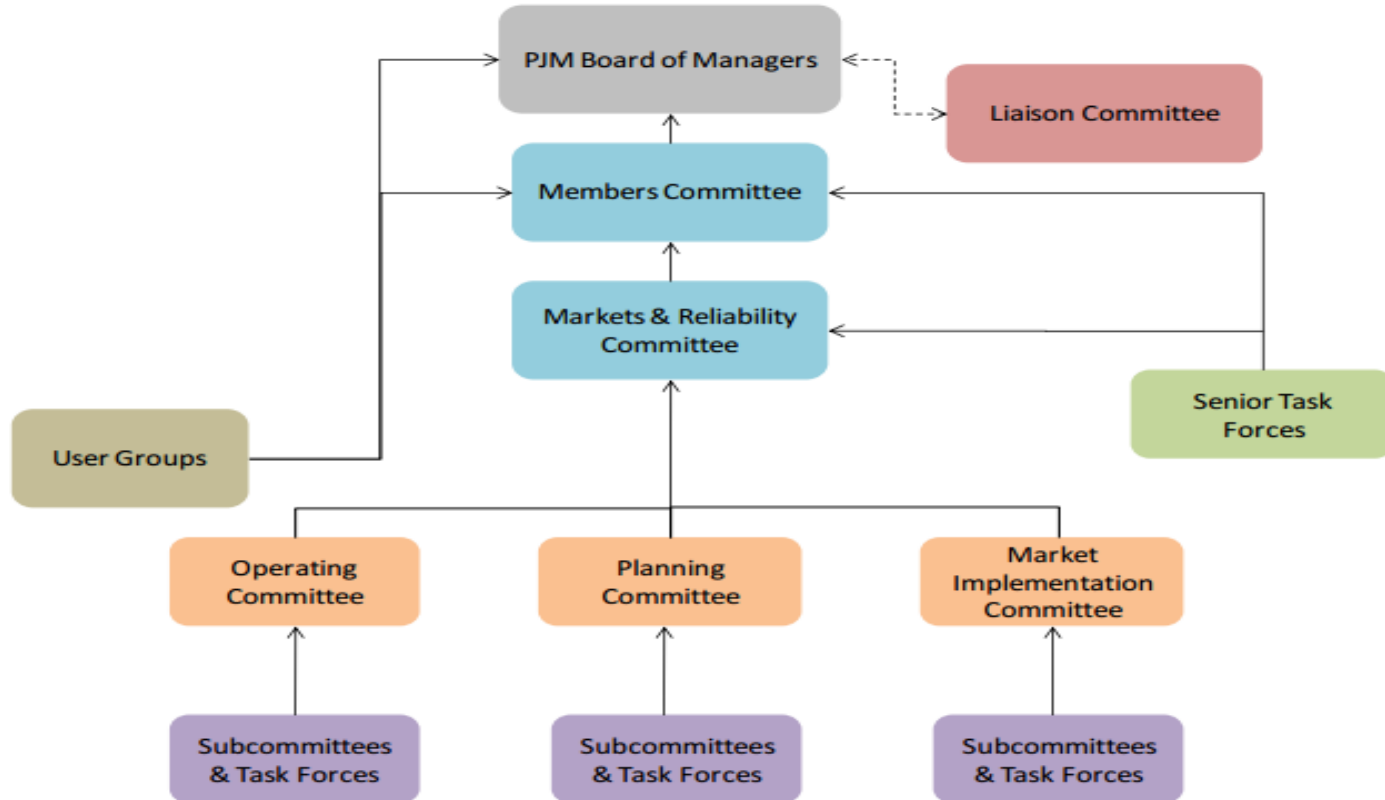


Stakeholder Process

Members Committee Voting Protocol

Generation Owners		5/7	0.71
Transmission Owners		2/8	0.25
Other Supplier		21/23	0.91
End Use Customers		5/5	1.00
Electric Distributors		3/5	0.60
Required to pass = 0.667 Number of Sectors = 5 Required Affirmative = $5 \times 0.667 = 3.335$			3.47 

PJM Committee Structure



Stakeholder Group Responsibilities

Subcommittees

- Subcommittees will receive a “Charge” from a Standing Committee based on an issue, etc.
- Each Subcommittee will have a sponsoring Standing Committee
- Progress and discovery of new issues are required to be reported back to Parent Committee on a periodic basis



Stakeholder Group Responsibilities

- Additional groups may be formed to complete work for the Stakeholder process including the following:
- Subcommittees
- Task Forces (Sr. Task Forces, Special Teams)
- User Groups



Stakeholder Group Responsibilities

Task Forces

- Purpose of the Task Force is to work on specific work activities
 - Sr Task Forces
 - Special Teams
- Sponsoring Standing Committee will provide the assigned “Charge”
- Upon completion of the work activity, the team will be disbanded



Stakeholder Group Responsibilities

User Groups

- Formed by any five or more Voting Members with a common interest
- All Members & PJM may participate in any User Group meeting
- Meeting notes are posted on pjm.com
- Operating Agreement provides all requirements associated with User Groups

Initiation & Development of New Issues - Overview

- Issues can be initialized by either an “external” or “internal” source
- All issues are initiated through a Standing Committee
- The Standing Committee will take responsibility for seeing the issue through the appropriate process



Initiation of New Issues

Initiation of New Issues

- Issues can be initiated by an individual or group of individuals including the following:
 - PJM Board
 - PJM (LLC)
 - Members
 - OPSI
 - Independent Market Monitor
 - FERC
 - NERC
 - State Regulator

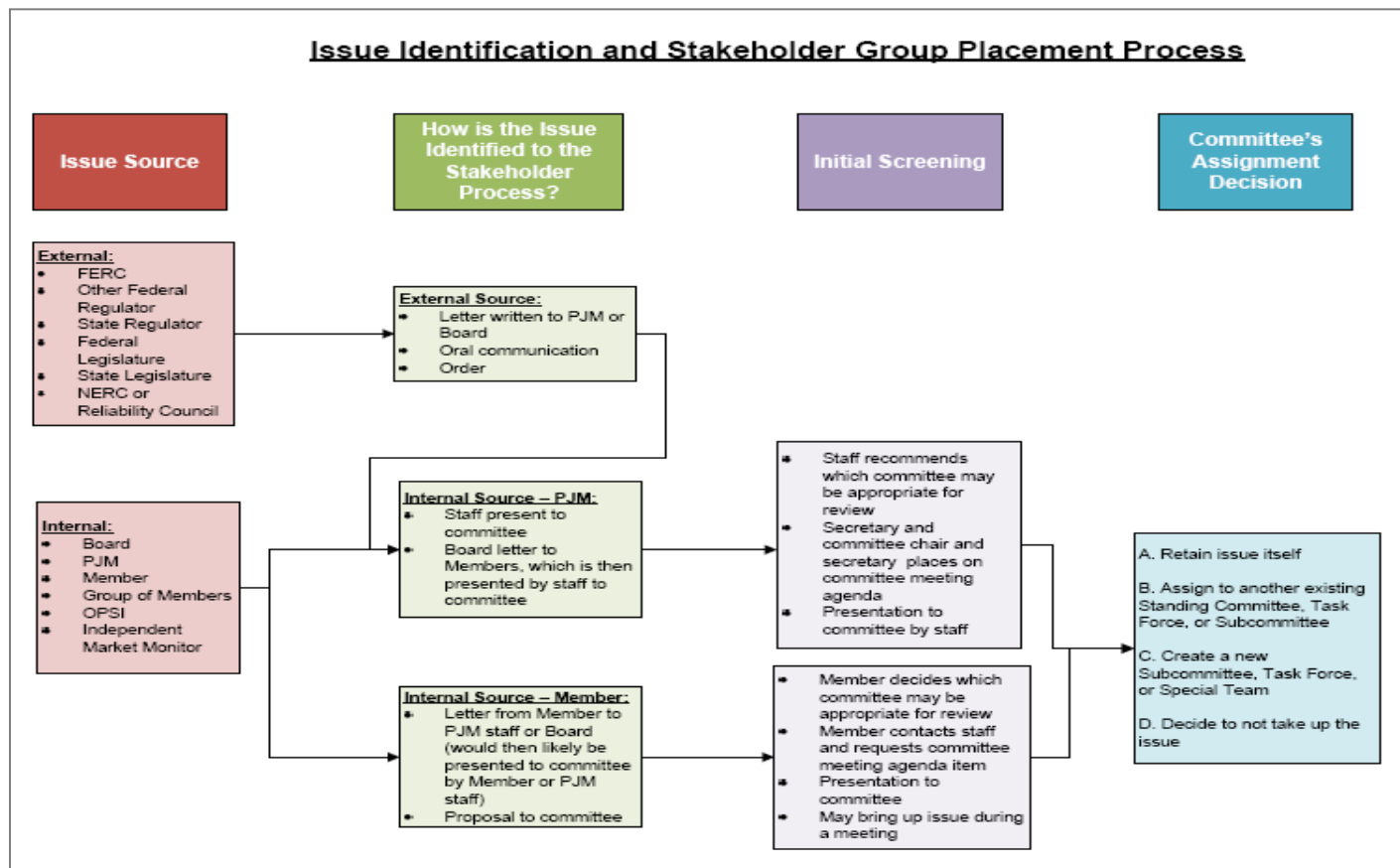


Initiation of New Issues

- The issue should first be communicated to the Secretary or chair of the most appropriate Standing Committee
- That Standing Committee or the Secretary will add the issue to the agenda of the next appropriate committee meeting
- The Secretary has the discretion to accept or reject adding an issue to the agenda



Initiation of New Issues



Initiation of New Issues

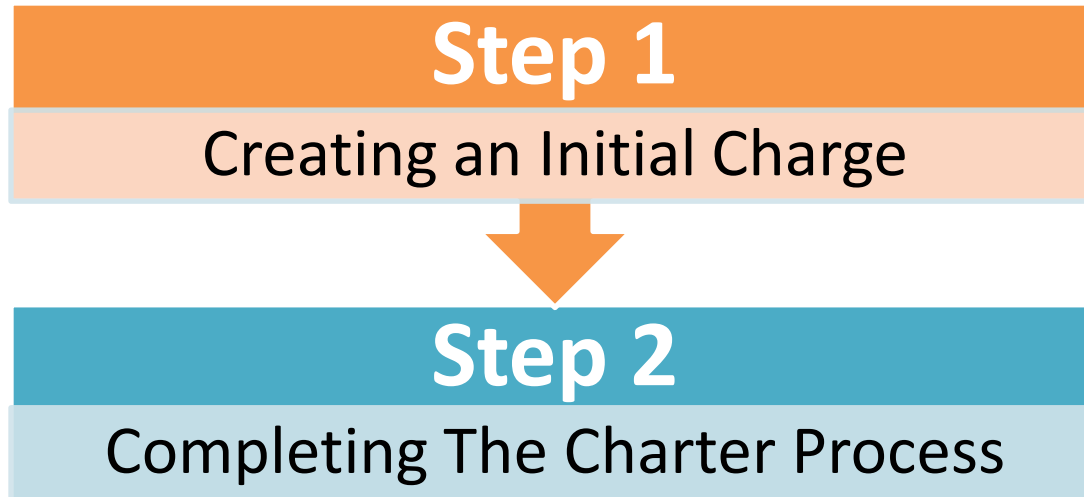
Standing Committee's Assignment Decision

- Once the issue has completed the “Initial Screening” process, the committee may choose to do the following:
 - Retain the issue within their committee
 - Assign it to another existing Standing Committee, Task Force, or Subcommittee
 - Create a new Subcommittee, Task Force, or Special Team
 - Decide not to take the issue forward

Development of New Issues

Development of New Issues

- There are 2 major steps involved in the development of a new issue:



Development of New Issues

Step 1

Creating an Initial Charge

- The Standing Committee is responsible for creating an initial “Charge”
- The purpose of the “Charge” is to detail the issue which will provide guidance to the group assigned to work on the issue

Development of New Issues

Step 1

Creating an Initial Charge

- Elements of the “Charge” should include:
 - Clear problem statement
 - Source of the issue
 - Type of issue (technical or policy)
 - Assignment of issue (group)
 - Key areas of activity
 - Deliverables & timelines
 - Tier 1 & 2 decision making requirements

Development of New Issues

Step 1

Creating an Initial Charge

- The Parent Committee will be responsible for approving the “Charge”
- An approved “Charge” should be posted on the Standing Committee’s webpage within one week
- The group assigned to take on the issue will immediately start their work based on the “Charge”

Development of New Issues

Step 2

Completing The Charter Process

- If a new Task Force or Subcommittee is assigned to take on an issue, a new “Charter” must be developed
- The “Charter” is a tool used to help the group through the issues process from beginning to completion
- For existing groups which have been assigned to take on an issue, an existing “Charter” may be used or modified as necessary
- The “Charter” is drafted based on information out of the initial “Charge” (Step 1)

Development of New Issues

Step 2

Completing The Charter Process

- While the “Charter” is drafted based on information from the initial “Charge”, the “Charter” will contain additional details on the issue to be addressed including:
 - Refined and detailed “Problem Statement”
 - Source of the issue or concern
 - Objectives of the group
 - Intended decision-making methods
 - Logistics/Admin details (ie. meeting frequency, facilitators, etc)
 - Overall duration of work

Development of New Issues

Step 2

Completing The Charter Process

- The “Charter” must be approved by the Parent Committee (for new groups or modifications for existing groups)
- Regular reports will be made to the Parent Committee on the progress of the “Charter”
- The PJM Stakeholder Process Manual provides a step-by-step table detailing the requirements for Charging & Chartering

Forming A New Group

Forming A New Task or Subcommittee

- As mentioned, it may be determined that a new group must be formed to take on an issue
- The Parent Committee will work with PJM to form this new group
- The new group will be formed using a method to ensure “inclusive” member participation

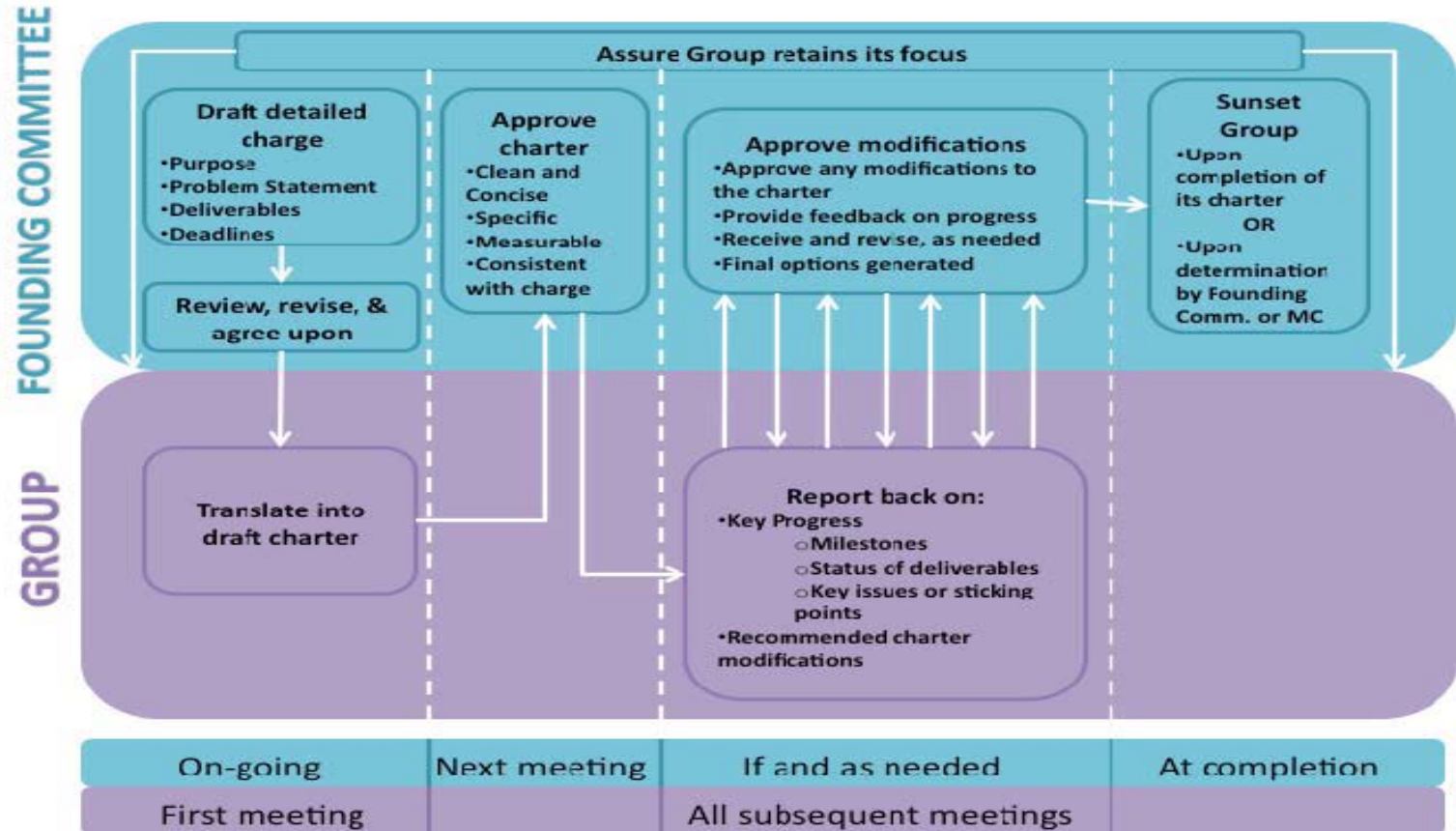


Forming A New Task or Subcommittee

- PJM will take various steps in forming the group including:
 - Name of the new group
 - Assignment of Chair and/or Facilitator and Secretary
 - Assignment of additional consultants if necessary
 - Creation of new webpage for the group
 - Establish meeting schedule
 - Notify all Stakeholders that new group has been created



Summary/Review



Governing Documents & Tariff Review Process

Documents Review Process

- Proposed revisions to any PJM governing documents are all subject to approval by FERC
- This includes the following documents:
 - PJM Operating Agreement
 - Open Access Transmission Tariff
 - Reliability Assurance Agreement
- A process must be followed for proposing revisions to governing documents to allow for Stakeholder review and comments



Governing Document Revisions

- Draft versions of governing document revisions should be posted on pjm.com to allow for Stakeholder review
- The postings should include the following information:
 - All relevant business rules
 - PJM contacts available to discuss revisions
 - PJM contact representing the Task Force or Subcommittee sponsoring the revision



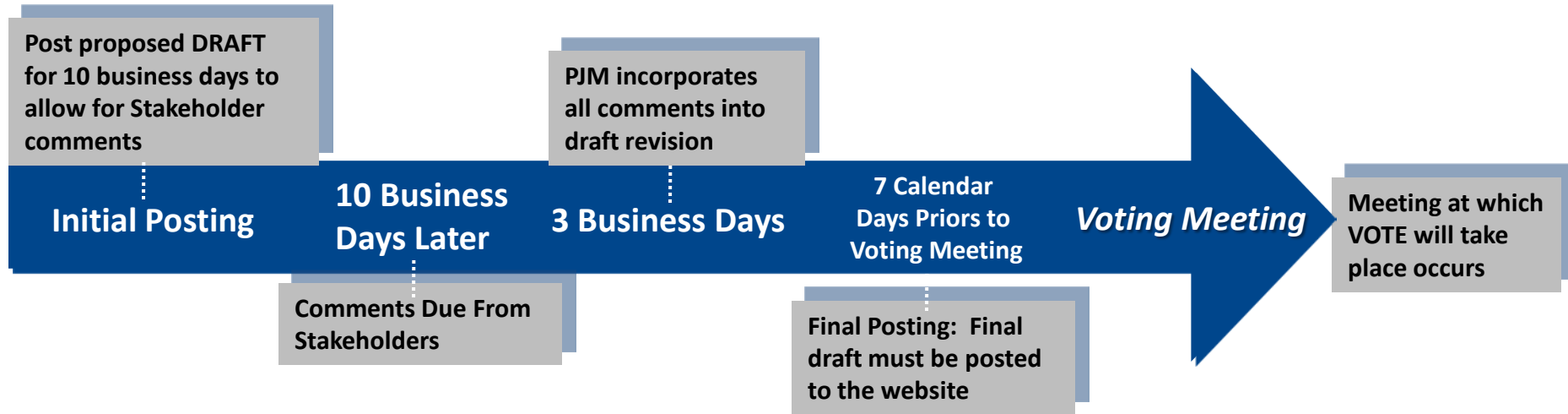
www.pjm.com

Notification Process

- PJM will notify Stakeholders via email when postings are made for revision purposes
- Included in the communication will be the following:
 - Participants listed on the Stakeholder roster for the group sponsoring the changes
 - Participants who will vote on the governing document revision
 - Any participants not falling into the above categories who registered to be notified when revisions are posted



Posting Process Timeline



Posting Process Timeline

SAMPLE

Sample Timeline for Review of Proposed Governing Document Revisions

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
					1	2
3	4 Post draft proposed governing document revisions (10 business days)	5	6	7	8	9
10	11	12	13	14	15	16
17	18 Comments due from stakeholders (3 business days)	19	20	21 Post final draft governing document revisions (7 calendar days)	22	23
24	25	26	27	28 Meeting at which vote will take place	29	30
31	Note: If PJM receives several conflicting comments, a conference call may be scheduled with 2 business days notice to resolve these issues					

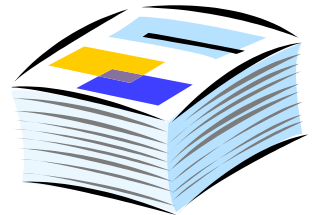
Implementation Timing

- Revisions should be accomplished, whenever possible, on a semi-annual basis
- Effective dates for revisions and any other necessary actions will be:
 - January 1st or June 1st



Annual Work Planning Process

- The objective of the annual plan is to provide a document to PJM Stakeholders which shows the work to be completed in the coming year
- The annual plan should be used to assist in prioritizing issues in the stakeholder process
- This plan will include issues which will likely result in proposals to the Members Committee for approval
- The document should be updated throughout the course of the year as needed



Annual Work Planning Process

What Are The Roles and Responsibilities?

- **MC Vice Chair** key responsibilities include:
 - Working with PJM staff as necessary
 - Serve as an ex officio Member of the Finance Committee for budget purposes
 - Present the annual plan to the Members Committee for approval
 - Update Members (at Members Committee meetings and quarterly Finance Committee meetings) on status updates, changes or deletions to the plan
 - Provide updates and or concerns to the Members Committee if work load becomes excessive

Annual Work Planning Process

What Are The Roles and Responsibilities?

- ***PJM Standing Committee Chairs*** key responsibilities include:
 - Provide updates to the MC Vice Chair on the work of each Standing Committee
 - Develop the annual plan for his/her stakeholder group
 - Gather information necessary to develop the plan from other stakeholders/committee members

Annual Work Planning Process

What Are The Roles and Responsibilities?

- ***PJM Members*** Key responsibilities include:
 - Review all compiled information in the draft annual plan
 - Assess whether proposed work in the annual plan can be achieved by the Members (based on timeframes)

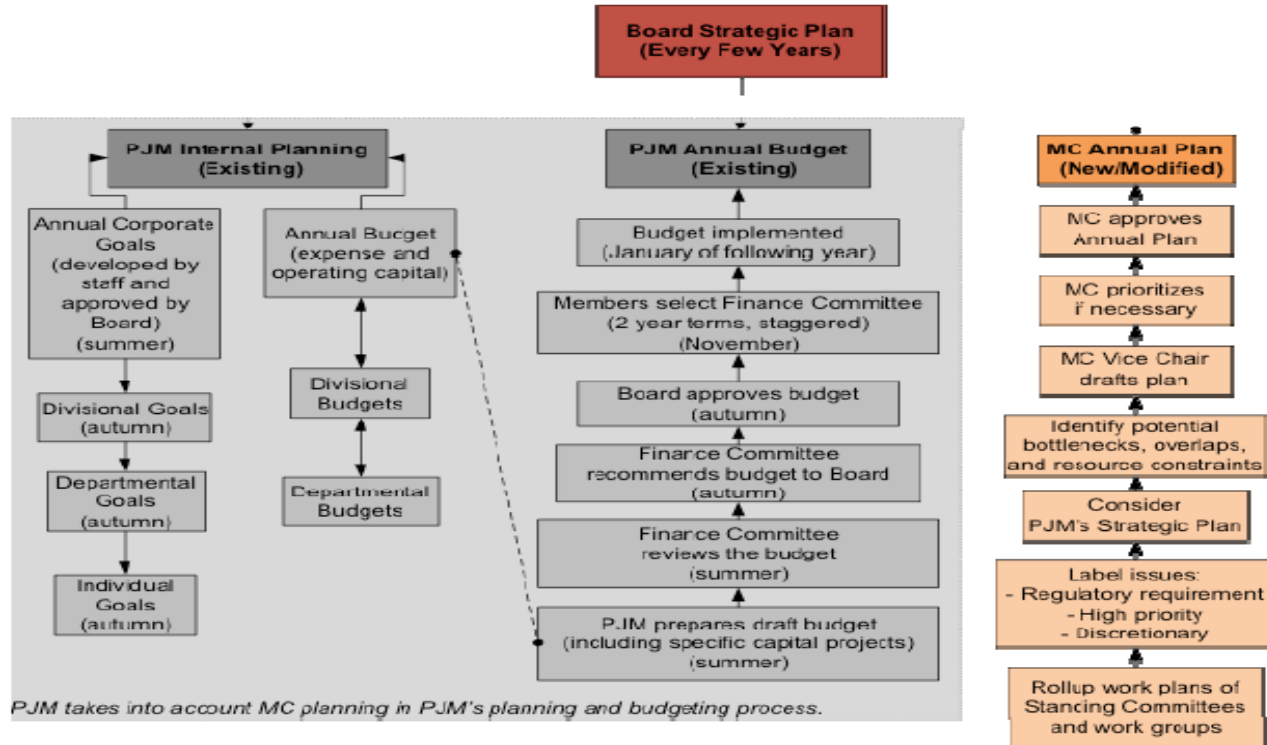
Annual Work Planning Process

What Should Be Included In The Plan?

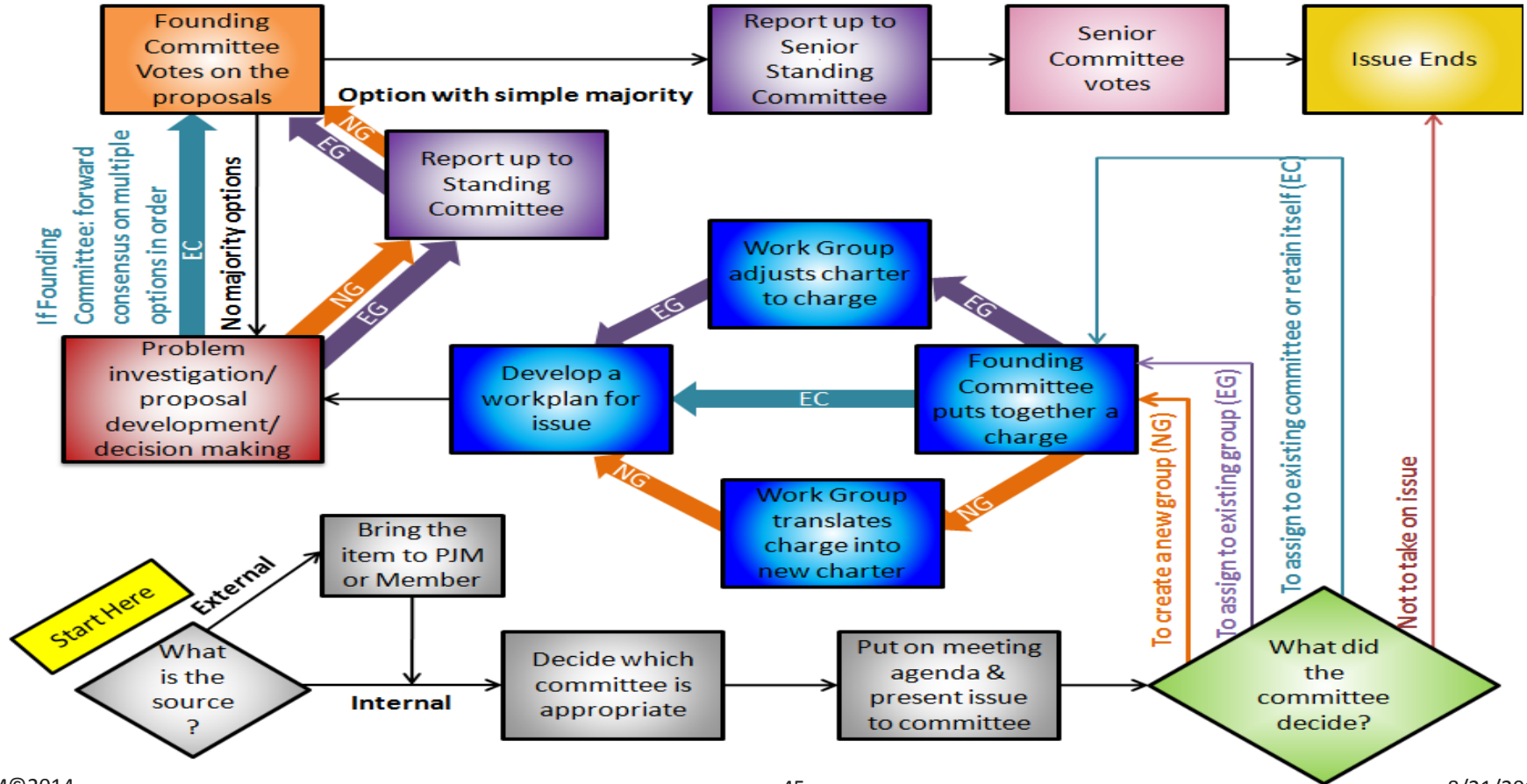
- The annual plan should contain all relevant information including:
 - Target meeting dates
 - Reporting requirements for each meeting
 - Target completion dates
 - Topics and dates for voting on proposals
 - Prioritization of initiatives

Annual Work Planning Process - Summary

PJM Modified Working Planning Process



Summary / Review Issues Process



Funding

Schedule 9 and 10

Schedule 9 PJM Scheduling, System Control and Dispatch Service

- How PJM pays its bills
- Unbundled
 - Those who use the service pay for it
 - 6 categories plus FERC, NERC, RFC, OPSI, MMU charges
 - Charges equal monthly usage multiplied by rate
 - Stated Rates began in 2006
 - Fixed rates determined annually based on budgeted costs and forecast usage associated with category
 - Quarterly refund rates to account for prior year's over or under collection (Schedules 9-1 through 9-5)

Questions?

Appendix

Schedule 9 PJM Scheduling, System Control and Dispatch Service

- Control Area Administration Service
(Schedule 9-1)

- Reliability and transmission service related expenses
- Charged to transmission customers
 - Network (Real-time load including losses)
 - Point-To-Point (Scheduled Energy Transactions)
- Includes Losses
- Fixed Stated Rate with Quarterly adjusted Refund Rate
- Charge equals total transmission use for the month multiplied by the applicable Control Area Administration Service Rate



1301	Control Area Administration
1308	Control Area Administration Refund

Schedule 9 PJM Scheduling, System Control and Dispatch Service

- Fixed Transmission Rights Administration Service
(Schedule 9-2)

- FTR administration and eFTR expenses
- Two Components
- Sum of the FTR holder's hourly FTR MWs for each hour of the month that the FTR is in effect, regardless of the dollar value of the FTR - Charged to FTR Holders
- The number of hours associated with all bids to buy FTR Obligations submitted by the market participant plus five times the number of hours associated with all bids to buy FTR Options submitted by each market participant for a month
 - This charge is applicable to all bids submitted into any round of the Annual FTR auction (billed monthly) and to all bids submitted into the applicable monthly FTR auctions
 - Charged to FTR Auction Participants

1302	FTR Administration	1309	FTR Administration Refund
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Schedule 9 PJM Scheduling, System Control and Dispatch Service

- Fixed Transmission Rights Administration Service
(Schedule 9-2)
 - Fixed Stated Rate with Quarterly adjusted Refund Rate



Schedule 9 PJM Scheduling, System Control and Dispatch Service

- **Market Support Service**

(Schedule 9-3)

- Energy Market, Market Settlements, InSchedules expenses
- Charged to load (including losses), transmission customers and generation
 - Generation, Load, and cleared bid/offers
 - Each energy bid/offer segment price/quantity pair submitted or changed in eMKT

1303	Market Support
1310	Market Support Refund

Schedule 9 PJM Scheduling, System Control and Dispatch Service

- **Market Support Service**
(Schedule 9-3)

- Energy Market, Market Settlements, InSchedules expenses
- Two Components
 - A. Charged to Transmission Customers and Generation using the PJM Transmission System and to market participants that submit offers to sell or bids to buy energy in the PJM energy market
 - Usage for Transmission Customers defined as:
 - Sum of the Network Transmission Customer's hourly energy delivered to serve load including losses in PJM
 - Network Transmission Customer's hourly energy imported into PJM
 - Point-to-Point Transmission Customer's hourly energy exported out of PJM (excluding wheels) for all hours of the month
 - Point-to-Point Transmission Customer's hourly energy imported in PJM (excluding wheels)

Schedule 9 PJM Scheduling, System Control and Dispatch Service

- **Market Support Service**
(Schedule 9-3)

Component A (continued)

- Usage for Generation Provider's defined as the sum of the hourly energy input into the PJM Transmission System from generation facilities within PJM
- Market Seller's hourly energy delivered for import to the boundaries of PJM for sale to the PJM Spot Market for all hours of the month
- Market Participants total quantity in MWh of all cleared Increment Offers, Decrement Bids and Up-to Congestion Bids during the month



Schedule 9 PJM Scheduling, System Control and Dispatch Service

- Market Support Service
(Schedule 9-3)

- B. Defined as the number of bid/offer segments submitted by the market participant
- For purposes of this Schedule 9-3, a Bid/Offer Segment shall be each price/quantity pair submitted into the Day-ahead Energy Market, including those submitted in the generation rebidding period
 - Segments shall be **hourly** for each bid to purchase energy, each Increment Bid, each Decrement Bid, and each Up-To Congestion bid
 - Segments shall be **daily** for each offer to sell other than an Increment Bid. Each Up-to Congestion bid also shall be considered a Bid/Offer Segment

Schedule 9 PJM Scheduling, System Control and Dispatch Service

- Market Support Service
(Schedule 9-3)
 - Fixed Stated Rate with Quarterly adjusted Refund Rate



Schedule 9 PJM Scheduling, System Control and Dispatch Service

- Regulation and Frequency Response Administration Service (Schedule 9-4)

- Regulation and Frequency response service expenses
- Charged to LSEs and regulating generators
- Usage of this service is defined as the sum of the member's regulation obligation (in MWh) plus the member's regulation scheduled (pool-scheduled and self-scheduled) from all generating units qualified to supply regulation in the PJM regulation market for each hour of the month
- Fixed Stated Rate with Quarterly adjusted Refund Rate

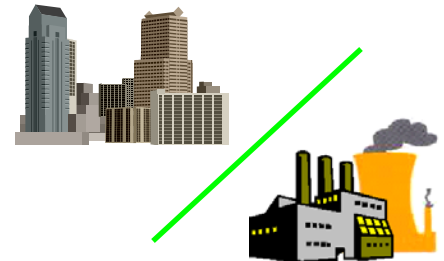
1304	Regulation Market Administration
1311	Regulation Market Administration Refund



Schedule 9 PJM Scheduling, System Control and Dispatch Service

- Capacity Resource and Obligation Management Service (Schedule 9-5)

- RAA, RPM markets, Processing Network Transmission Service
- Charged to LSEs, generators
- Usage of this service is defined as the sum of the Load-Serving Entity's monthly accounted for obligations during the month including FRRs and the Capacity Resource Owner's Unforced Capacity measured in MWd
- Fixed Stated Rate with Quarterly adjusted Refund Rate
- Member's charge is the total usage for the month multiplied by that month's service rate



1305	Capacity Resource/Obligation Mgmt.
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Schedule 9 PJM Scheduling, System Control and Dispatch Service

- Advanced Second PJM Control Center Cost
(Schedule 9-6)

- Recovery of the actual monthly costs of owning, leasing and operating AC²
 - PJM's parallel control center
- Monthly accrued actual costs related to AC²
- Collected across all users of Schedules 9-1 through 9-5
- Based on usage shares with costs allocated to applicable schedules
- Each PJM member's schedule 9-6 charge is equal to that member's usage share of total PJM usage for the month multiplied by the following cost shares allocated to each of the schedules:
 - Schedule 9-1 = 62.2%
 - Schedule 9-2a = 1.4%
 - Schedule 9-2b = 0.9%
 - Schedule 9-3a = 32.9%
 - Schedule 9-3b = 0.4%
 - Schedule 9-4 = 1.5%
 - Schedule 9-5 = 0.7%

1306

Advanced Second Control Center



Second Quarter 2014 Service Category Rates

Effective 4/1/14 through 6/30/14

Schedule							
		9-2 Financial Transmission Rights (FTR) Administration Service		9-3 Market Support (MS) Service			
	9-1 Control Area Administration Service (per MWh)	9-2 FTR Service Rate Component 1 (per FTR MWh)	9-2 FTR Service Rate Component 2 (per FTR bid hour)	9-3 MS Service Rate Component 1 (per MWh)	9-3 MS Service Rate Component 2 (per bid/offer segment)	9-4 Regulation & Frequency Response Administration Service (per MWh)	9-5 Capacity Resource & Obligation Management Service (per MW Day)
2014 Stated Rate	0.1692	0.0025	0.0017	0.0373	0.0558	0.2271	0.0864
2Q 2014 PJM Settlement Rate* Offset	N/A	N/A	N/A	(0.0030)	N/A	N/A	N/A
Quarterly Refund Rate**	0.0060	0.0000	0.0001	0.0014	0.0013	0.0101	0.0027
Effective Rates***	0.1632	0.0025	0.0016	0.0329	0.0545	0.2170	0.0837
<p>* PJM Settlement Rate is billed separately for services rendered by PJM Settlement, Inc as outlined on Schedule 9-PJM Settlement.</p> <p>** The Quarterly Refund Rate is set quarterly and the rates listed above will be in place from April through June 2014 billing.</p> <p>***The Effective Rates reflect the net billing for Schedule 9-1 through 9-5 rates from April 1, 2014 through June 30, 2014 business excluding the AC2 Schedule 9-6 formula rate rider and 9-PJM Settlement Rate.</p>							

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Schedule 9 PJM Settlement

- PJM Settlement Inc.

(Schedule 9-PJM Settlement)

- Funds the administration of PJM Settlement Inc who acts as the contractual counterparty to PJM market transactions and performs the billing collection and credit management services for PJM members
- Charged to transmission customers based on real-time network load and exports, to providers of generation and imports, day-ahead energy market participants based on their accepted increment offers, decrement bids and up-to-congestion bids
- Schedule 9-PJM Settlement = Market Support Offset



Market Support Offset

- **Market Support Offset**
 - Refund to transmission customers
 - Based on real-time network load and exports, to providers of generation and imports, day-ahead energy market participants based on their accepted increment offers, decrement bids and up-to-congestion bids
 - Reflects the reimbursement made to offset the PJM Settlement Inc. charges
 - $\text{Schedule 9-PJM Settlement} = \text{Market Support Offset}$



Second Quarter 2014 PJM Settlement Rate

<i>(\$ in millions)</i>	Total Costs	Billing Determinants	2nd Quarter 2014 Rate
2014 Budget	\$9.7	2,130,000,000 Megawatt Hours	\$0.0046 / MWh
Adjustment for Second Quarter	(\$0.8)	466,700,000 Megawatt Hours	(\$0.0016) / MWh
Second Quarter 2014 Schedule 9-PJMSettlement Rate			\$0.0030 / MWh

9-PJMSettlement Rate is effective from April 1, 2014 through June 30, 2014.

Schedule 9-FERC

- FERC Annual Charge Recovery (Schedule 9-FERC)

- PJM must recover charges assessed by FERC in accordance with Part 382 of FERC regulations
- PJM charge based on total MWh of transmission of electric energy used in interstate commerce
- Charged to transmission customers based on annual usage of the PJM transmission system
 - Network customer's real-time load plus losses
 - Point-To-Point customers' real-time energy transactions

1315

FERC Annual Charge Recovery

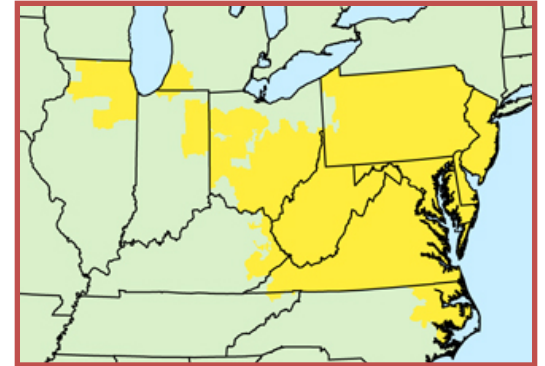


Schedule 9-OPSI

- OPSI Annual Charge Recovery
(Schedule 9-OPSI)

- OPSI is the regional state committee in the PJM region
 - Comprised of regulatory commissions of states in the PJM footprint
- Rate is intended to recover costs to support OPSI
- Charged to transmission customers based on annual usage of the PJM transmission system
 - Network customer's real-time load plus losses
 - Point-To-Point customers' real-time energy transactions

OPSI = Organization of PJM States, Inc.



2014 9-FERC and 9-OPSI Rates

<i>(\$ in millions)</i>	Total Costs	Billing Determinants	Approved 2014 Rates
FERC Fees (Schedule 9-FERC)	\$61.6	877,000,000 Megawatt Hours of Load	\$0.0702 / MWh
Organization of PJM States (Schedule 9-OPSI)	\$0.6	877,000,000 Megawatt Hours of Load	\$0.00070 / MWh

Schedule 9-MMU

- **Market Monitoring Unit Funding**
(Schedule 9-MMU)

Recovers costs of providing market monitoring functions as specified in PJM Open Access Transmission Tariff Attachment M

1. Charged to transmission customers based on network load (including losses) and exports, generation providers, imports and to day-ahead energy market participants based on accepted increment offers, decrement bids and up-to congestion bids
2. Charged for each energy bid/offer segment price/quantity pair submitted including those submitted during the rebidding period



1314	Market Monitoring Unit (MMU) Funding
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2014 Schedule 9-MMU Rates

Schedule 9-MMU Rates Effective January 1, 2014 through December 31, 2014			
<i>(\$ in millions)</i>	2014 Funding	Estimated Billing Determinants ⁽¹⁾	9-MMU Rates
9-MMU Component 1	\$8.2	2,103,100,000 Megawatt Hours of Energy Serving Load, Point to Point Transmission, Energy input into the system, and MWhs of Accepted Increment and Decrement Bids	\$0.00392
9-MMU Component 2	\$0.1	29,000,000 Bid/Offer Segments	\$0.00374

Schedule 9-MMU became effective August 1, 2008. The rate schedule is pursuant to the Federal Energy Regulatory Commission approved settlement on March 21, 2008, FERC docket number EL07-57. The rates listed above are effective from January 1, 2014 and December 31, 2014.

⁽¹⁾ Projected billing determinants for Component 1 (Transmission for Load, Point-to-Point Transmission, Generation input into the system, and total quantity of MWhs of all accepted increment and decrement bids) and Component 2 (Bid/Offer Segments) from January 1, 2014 through December 31, 2014.

Schedule 10 North American Electric Reliability Corp. Charge

- North American Electric Reliability Corporation (NERC)
(Schedule 10-NERC)
 - NERC is the Electric Reliability Organization certified by FERC
 - Purpose is to ensure the reliability of the interconnected bulk power system
 - Recovers a share of NERC's cost of operations
 - Based on energy delivered to load (excluding load in Dominion zone)
 - Over and under collections trued up in December billing cycle

1317	North American Electric Reliability Corp.
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2014 Schedule 10 Rates

Approved 2014 Schedule 10 Rates			
<i>(\$ in millions)</i>	FERC Approved 2014 Funding	Estimated Billing Determinants	2014 Rate
NERC Fees (Schedule 10-NERC)	\$8.1	762,000,000 Megawatt Hours of Energy Serving Load in the PJM Footprint excluding the Dominion and East Kentucky Power Cooperative zones	\$0.0107
RFC Fees (Schedule 10-RFC)	\$11.6	762,000,000 Megawatt Hours of Energy Serving Load in the PJM Footprint excluding the Dominion and East Kentucky Power Cooperative zones	\$0.0152

- The 10-NERC rate and 10-RFC rate will be charged to network integration and point-to-point transmission service used to serve load in PJM's footprint exclusive of the Dominion zone and East Kentucky Power Cooperative.
- These rates will be charged each month for load as described above at the rates listed in the table above. The billing for December 2014 business, which will occur in January 2015, will incorporate a true-up adjusting that month's billing for any credit or deficiencies based actual revenues collected for the 2014 calendar year.

MSRS - Schedule 9 and 10 Charge Details

A		B	C	D	E	F	G	H	I	J	K	L
Schedule 9 and 10 Charge Details												
Customer Account: PJM Interconnect Report Cre				9/18/2012 16:04								
Start Date:		8/1/2012		End Date:		8/1/2012						
4000.01		4000.02		4000.04		4000.74						
Customer ID	Customer Code	Date	Schedule	Determinant	Rate	Refund Rate	Daily Use	EPT HE 01	Charge (\$)	Refund Charge (\$)	Version	
1234	PALCO	8/1/2012	9-1: Control Area Administration	RT Load with Losses (MWh)	0.1692	-0.0075	48498.997	1843.766	8206.03029	-363.742478	20120801	
1234	PALCO	8/1/2012	9-1: Control Area Administration	RT PTP Transmission Use (MWh)	0.1692	-0.0075	698.921007	26.648	118.257434	-5.241908	20120801	
1234	PALCO	8/1/2012	9-2: Financial Transmission Rights	Financial Transmission Rights (MW)	0.0025	-0.0001	128023.2	5136.7	320.058	-12.80232	20120801	
1234	PALCO	8/1/2012	9-2: Financial Transmission Rights	FTR Bid Obligations	0.0017	-0.0001	74792		127.1464	-7.4792	20120801	
1234	PALCO	8/1/2012	9-2: Financial Transmission Rights	FTR Bid Options X5	0.0017	-0.0001	2400		4.08	-0.24	20120801	
1234	PALCO	8/1/2012	9-3: Market Support	DA Cleared Increment Offers (MWh)	0.0373	-0.0017	125	0	4.6625	-0.2125	20120801	
1234	PALCO	8/1/2012	9-3: Market Support	DA Cleared Decrement Bids (MWh)	0.0373	-0.0017	51490	1665	1920.577	-87.533	20120801	
1234	PALCO	8/1/2012	9-3: Market Support	DA Cleared Up To Congestion Energy (MWh)	0.0373	-0.0017	0	0			20120801	
1234	PALCO	8/1/2012	9-3: Market Support	RT Generation (MWh)	0.0373	-0.0017	154003.474	5692.079	5744.32958	-261.805906	20120801	
1234	PALCO	8/1/2012	9-3: Market Support	RT Load with Losses (MWh)	0.0373	-0.0017	48498.997	1843.766	1809.01259	-82.448295	20120801	
1234	PALCO	8/1/2012	9-3: Market Support	RT Network Import Use (MWh)	0.0373	-0.0017	125.023	0	4.663358	-0.212539	20120801	
1234	PALCO	8/1/2012	9-3: Market Support	RT Spot Import Use (MWh)	0.0373	-0.0017	0	0			20120801	
1234	PALCO	8/1/2012	9-3: Market Support	RT PTP Transmission Use Excluding Wheel-Throughs (MWh)	0.0373	-0.0017	698.923	26.648	26.069828	-1.188169	20120801	
1234	PALCO	8/1/2012	9-3: Market Support	Generation Offer Segments	0.0558	-0.0015	257.5611		14.371909	-0.386342	20120801	
1234	PALCO	8/1/2012	9-3: Market Support	DA Market Bid/Offer Segments	0.0558	-0.0015	120		6.696	-0.18	20120801	
1234	PALCO	8/1/2012	9-3 Offset: Market Support	9-3 Energy (MWh)	-0.0049		254941.417	9227.493	-1249.21294		20120801	
1234	PALCO	8/1/2012	9-PJMSettlement: Market Support	9-3 Energy (MWh)	0.0049		254941.417	9227.493	1249.21294		20120801	
1234	PALCO	8/1/2012	9-4: Regulation and Frequency Response	Regulation Assigned (MWh)	0.2271	-0.0116	3159.743	228.793	717.577635	-36.653019	20120801	
1234	PALCO	8/1/2012	9-4: Regulation and Frequency Response	Regulation Obligation (MWh)	0.2271	-0.0116	551.470456	13.864	125.238941	-6.397057	20120801	
1234	PALCO	8/1/2012	9-5: Capacity Resource and Obligation Management	Unforced Capacity including FRR (MW)	0.0864	-0.0033	10883.2		940.30848	-35.91456	20120801	
1234	PALCO	8/1/2012	9-5: Capacity Resource and Obligation Management	UCAP Obligation (MW)	0.0864	-0.0033	4359.72		376.679808	-14.387076	20120801	
1234	PALCO	8/1/2012	9-MMU: Market Monitoring Unit (MMU) Funding	9-3 Energy (MWh)	0.0045		254941.417	9227.493	1144.68696		20120801	
1234	PALCO	8/1/2012	9-MMU: Market Monitoring Unit (MMU) Funding	9-3 Bid/Offer Segments	0.004		377.5611		1.498918		20120801	
1234	PALCO	8/1/2012	9-FERC: FERC Annual Charge Recovery	RT Load with Losses (MWh)	0.0689		48498.9961	1843.766	3341.58083		20120801	
1234	PALCO	8/1/2012	9-FERC: FERC Annual Charge Recovery	RT PTP Transmission Use (MWh)	0.0689		698.921007	26.648	48.155657		20120801	
1234	PALCO	8/1/2012	9-OPSI: Organization of PJM States, Inc Funding	RT Load with Losses (MWh)	0.0007		48498.997	1843.766	33.464308		20120801	
1234	PALCO	8/1/2012	9-OPSI: Organization of PJM States, Inc Funding	RT PTP Transmission Use (MWh)	0.0007		698.921007	26.648	0.482255		20120801	
1234	PALCO	8/1/2012	10-NERC: North American Electric Reliability Corporation Charge	RT RFC Load with Losses (MWh)	0.0108		48498.996	1843.766	523.789157		20120801	
1234	PALCO	8/1/2012	10-RFC: Reliability First Corporation Charge	RT RFC Load with Losses (MWh)	0.0135		48498.996	1843.766	654.736446		20120801	
End of Report												

Data Granularity: Daily

Frequency: Updated Daily

This report does not have any calculated values that are supported purely by other columns on this report

HE 02 through 24 hidden due to space

Advanced Second Control Center Charge Detail Report

Advanced Second Control Center Charge Details								
Customer Account:	PJM Interconnection	Report Creation Timestamp (EPT):	9/18/2012 15:54					
Start Month:	August, 2012	End Month:	August, 2012					
4000.01	4000.02	4000.03	1306.11	1306.12	1306.13	1306.14	1306.01	4000.07
Customer ID	Customer Code	Month	Data Label	Total PJM AC2 Charge (\$)	Total Usage	Total PJM Usage	AC2 Charge (\$)	Version
1234	PALCO	August, 2012	AC2 Schedule 9-1	1715903.3	1572848.151	78206689.85	34509.26	20120801
1234	PALCO	August, 2012	AC2 Schedule 9-2a	38621.62	3930780	268560229.8	565.29	20120801
1234	PALCO	August, 2012	AC2 Schedule 9-2b	24828.18	2274808	370812432	152.31	20120801
1234	PALCO	August, 2012	AC2 Schedule 9-3a	907608.01	7688924.597	192125125.9	36322.84	20120801
1234	PALCO	August, 2012	AC2 Schedule 9-3b	11034.75	11598.3941	1916224	66.79	20120801
1234	PALCO	August, 2012	AC2 Schedule 9-4	41380.3	109621.5868	1649956.431	2749.27	20120801
1234	PALCO	August, 2012	AC2 Schedule 9-5	19310.81	472303.12	11077100.33	823.37	20120801
End of Report								

- Report identifies the AC2 charges as they relate to Schedule 9-1 through Schedule 9-5