

Briefing on Cost of Service Study



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Stakeholder Meeting October 14, 2010

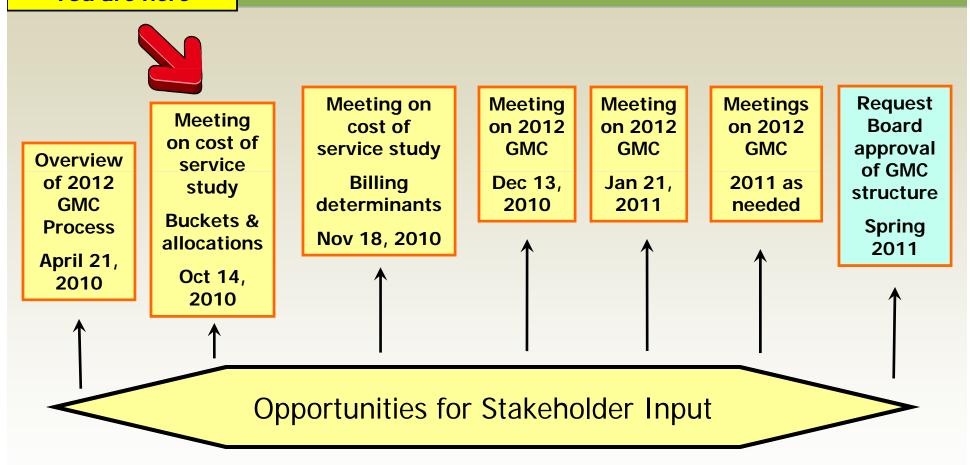
Agenda

Where we are **Timeline GMC** history **Guiding Principles Activity Based Costing Overview Functionalization Cost Allocation of 2010 Revenue Requirement** Comparison to other ISO/RTOs **Potential Billing Determinants Key Calendar Dates** Stakeholder Feedback and Discussion



Timeline for GMC 2012 Rate Structure

You are here





Timeline for 2012 GMC

Cost of Service Study

Current

- Define services (functionalization)
- Allocate costs (cost allocation)

Next steps

- Billing determinants (classification)
- Bill impact analysis

Subsequent steps

- Final rates and structure
- Revenue requirement cap
- Draft tariff
- Board approval and FERC filing



GMC History

- Basic structure is the same as 2004 with limited changes
 - Added Market Usage Forward Energy (MUFE)
 - Changed some billing determinants
 - Changes for convergence bidding
- Drivers for change
 - Corporate reorganizations
 - New office building debt
 - Retirement of debt for new market in 2013
 - Implementation of new market in 2009
 - Requests for clarity, predictability & simplicity from customers
 - Commitment to do cost of service study in 2010 MUFE settlement



Guiding Principles

- Cost causation properly allocate to category and charged to those who use or benefit
- Focus on use of services, not behavior design fee structure to recover ISO's costs, charges that influence behavior should be in market structure
- Transparency costs and determinants highly visible to customers
- Predictability in advance Scheduling Coordinators (SCs) are able to determine what costs will be
- Forecastability SC's & ISO's forecasts of determinants are more accurate resulting in fewer quarterly changes
- Flexibility accommodate future market enhancements without new buckets or charges
- Simplicity reduce current level of determinants and codes



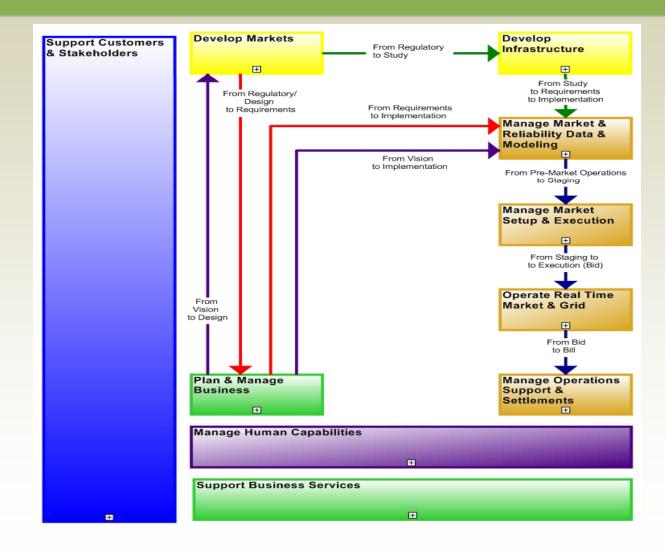
Recent Issues With Existing GMC

- Implementation of convergence bidding required new category and 2 new charge codes
- MUFE original netting was challenged and mitigation implemented prior to moving to gross and new review of Inter-SC Trades (ISTs)
- Significant changes in rates lower export volumes cause rate increases which leads to reduction in exports – vicious cycle
- Current design attempts to manage behavior charge for imbalances – difficult to forecast & uplift charges through market provide appropriate incentive
- Congestion Revenue Rights (CRR) recovery none currently
- Settlements, Metering & Client Relations (SMCR) under recovery inappropriate way to recover indirect costs not related to cost of handling SCIDs



Activity Based Costing (ABC) overview

- Started in 2009
- 10 high level activities
- 125 sub (level 2) activities
- Tracking time for some level 2 activities now
- Level 2 mapping ongoing through 2011
- Time tracking on level 2 as mapped





Direct Level 1 Operating Activities

- Develop infrastructure transmission planning
- Develop markets design & implement wholesale market
- Manage market & reliability data & modeling full network model
- Manage market setup & execution scheduling & outages
- Operate real time market & grid system operations
- Manage operations support & settlements metering, settlements and market quality



Indirect Level 1 Support Activities

- Manage human capabilities human resources
- Plan & manage business CEO, planning & governance
- Support business services IT, facilities, compliance & legal
- Support customers & stakeholders client & external relations



ABC Functionalization Leads To Services

- Existing structure little direct relationships
- Using products not practical too many elements
- Using customers similarities across customer classes
- New ISO market common practice for all customers

Customers	Market systems	Energy flows
submit bids	award schedules	

plus CRR management leads to three cost categories

Market	System	CRR
Services	Operations	Services



Mapping Activities & Software To Service Categories

- Mapped activities and software to four categories:
 - Market services
 - System Operations
 - CRR services
 - Indirect costs no distinguishable attribute to either specific category
- Used following rules:
 - 100% or 0% if entirely in one category or not
 - 50% / 50% if supports both market services & system operations
 - or its split after 10% went to CRRs thus 45% / 45%
 - 80% / 20% if partially in one activity or the other



Cost Allocation of 2010 Revenue Requirement

 Selected 2010 as it is current, similar to 2009 & 2011 and can be used to measure effects of proposal

Revenue Requirement	\$ in thousands	
O&M	\$162,695	
Debt service & out of pocket capital	76,000	
Other income	(8,100)	
Operating reserve credit	(35,500)	
Total revenue requirement	\$195,095	



2010 **O&M** Costs

- Broken down into two types: activity related & non-activity related
 - Mapped non-activity to indirect bucket
- Activity related types made up of
 - direct operating costs mapped to level 2 activities and
 - support costs mapped at level 1 to indirect bucket
- Used reported time from 1st quarter of 2010 to get % of costs centers time in the 10 level 1 activities
- For time in the 6 direct operating categories interviewed managers and directors to get percentage breakdown of level 2 time
- Mapped costs to buckets using %'s developed previously



Other Component s of 2010 Revenue Requirement

- Debt service & out of pocket capital
 - Mapped software and other capital costs to buckets using %s developed previously
- Other revenue & operating reserve credit
 - Mapped to appropriate buckets
- Results of allocation:

Revenue Requirement	2010 Budget	Market Services	System Operations	CRR Services
\$ in thousands	\$195,095	\$52,756	\$134,883	\$7,456
% of budget	100%	27%	69%	4%



Comparison to other ISOs

- ISO/RTOs with a nodal market
 - NYISO 3 major buckets added new one for virtual bids
 - ISO NE 3 buckets
 - PJM 3 major buckets, 2 minor ones
 - MISO 3 buckets
- Cal ISO 7 buckets and 17 charge types
- All have generic market services & system operations
- 3 have bucket related to congestion
- All allocate indirect costs based on direct costs (salaries)



Potential Billing Determinants

- Allocation to demand
 - load & exports or
- Allocation to supply and demand
 - generation & imports
 - load & exports
- Transaction fees
 - Bid fee
 - Inter -SC trade fee
- Administrative charges
 - Monthly SCID charge



Key Calendar Dates & Next Steps

-	Stakeholder comments on discussion paper due	Oct 21
•	Discussion paper on billing determinants	Nov 11
•	Stakeholder meeting on billing determinants	Nov 18
•	Stakeholder comments on discussion paper due	Nov 29
•	Stakeholder meeting	Dec 13
•	Stakeholder meeting	Jan 21
	Stakeholder meetings	as needed

