

Nodal Program Update

Mike Cleary

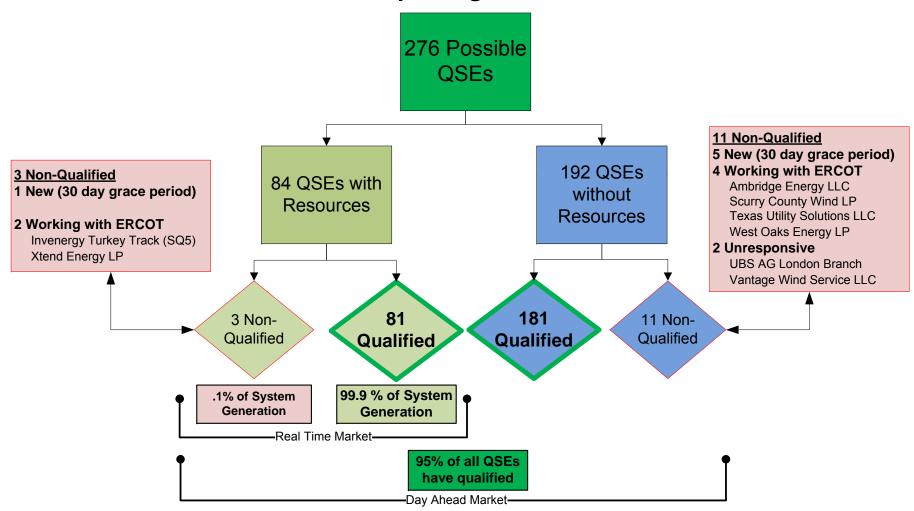
Sr. VP and Chief Technology Officer

ERCOT Board of Directors 20 April 2010

Agenda

- Program Status
- Market Readiness
- Financials
- Appendix

10 Days until Phase 5: Full Functionality 0 Items Impacting Go-Live Date





10 Days until Phase 5: Full Functionality Market Quality Testing and Operational Readiness

Achievements within Market Trials:

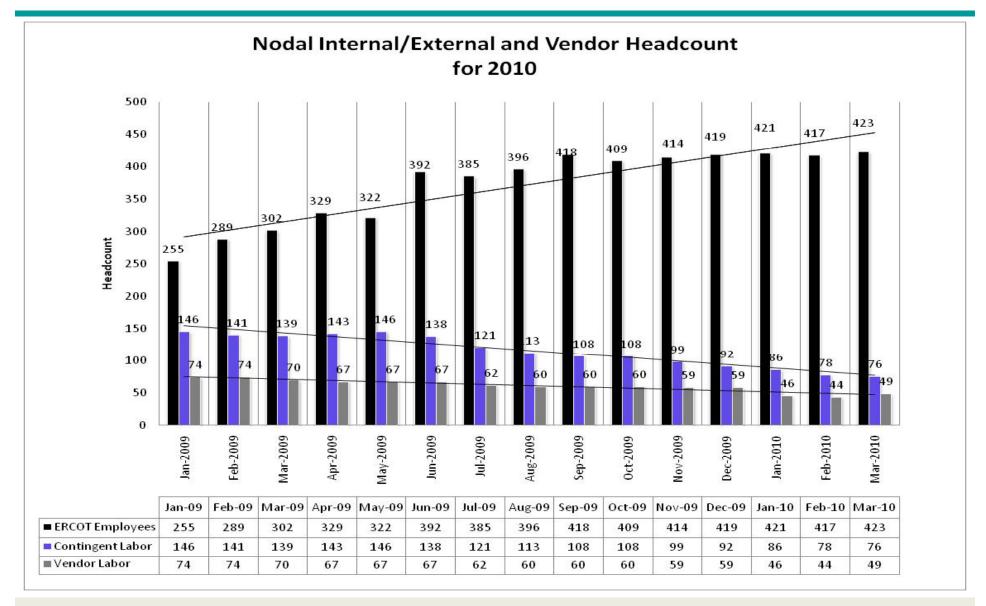
- Market Trials has been running for 10 weeks
- Market Question topics have shifted from qualifications and participation questions to stability and operational inquiries
- Phase 2.1: Market Connectivity
 - · Real Time / Day Ahead
- Qualifications
 - 95% of the QSEs have qualified
 - 99% of network model has been validated
- CRR
 - Two monthly CRR auctions have been run and invoiced
 - May auction completed on Friday, April 16th
- Phase 3.0: Real Time Markets
 - Six month LMP analysis started on March 1st
 - The \$2,250 price cap has only been reached a few times since 03/04/10
- Phase 4.0: DAM / RUC
 - Five DAM runs have been completed
 - Running twice a week
 - Strong participation from the Market Participants (179 QSEs on Thursday, April 15th)

Upcoming Milestones for Market Trials:

- HRUC
- DAM Settlement
- Reporting support for DAM/RUC/SAS
- Phase 5: Full Functionality
- CMM Module
- DAM / RUC 5x/wk
- 168 HR Test
- System Cut-Over

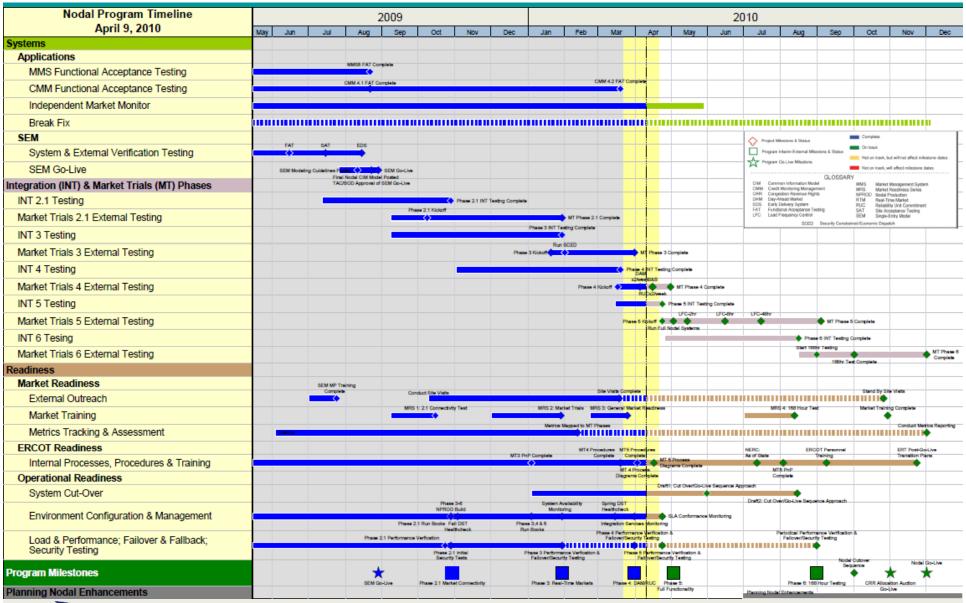


Nodal Internal/External and Vendor Headcount 2010

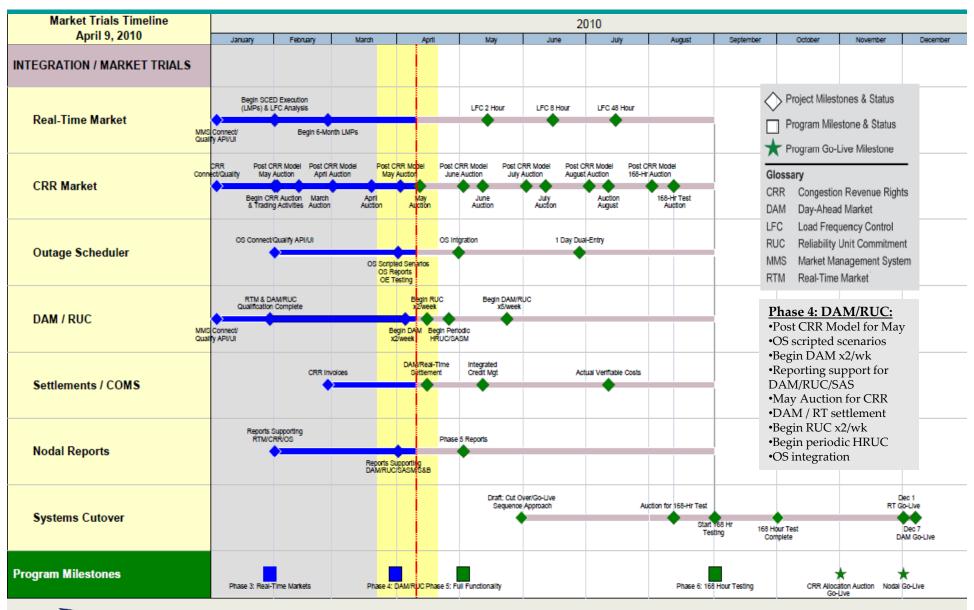




Integrated Nodal Timeline - Go-Live December 1st, 2010



2010 Market Trials Timeline – Go-Live December 1st, 2010



DAM Summary

Market Trials 4.0: DAM/RUC:

- Thursday April 1st, for Operating Day Friday April 2nd
 - 112 QSEs participated in the first DAM / 100% Self Arranged
 - MWs ranged from 21,000 24,800/Hr
 - Prices ranged from \$24.60 \$36.06/Hr
- Tuesday April 6th, for Operating Day Wednesday April 7th
 - 80% Forecasted Load / 50% Self-Arranged
 - 150 QSEs participated in the DAM
 - MWs ranged from 19,738 22,860/Hr
 - Prices ranged from \$21.79 \$29.00/Hr
- Thursday April 8th, for Operating Day Friday April 9th
 - 120% Forecasted Load
 - 153 QSEs participated in the DAM
 - MWs ranged from 24,723 29,595/Hr
 - Prices ranged from \$25.24 \$34.54/Hr

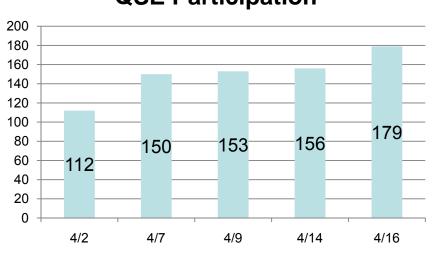


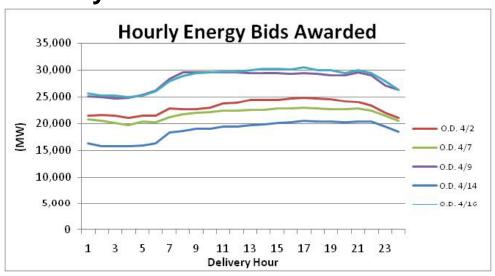
DAM Summary

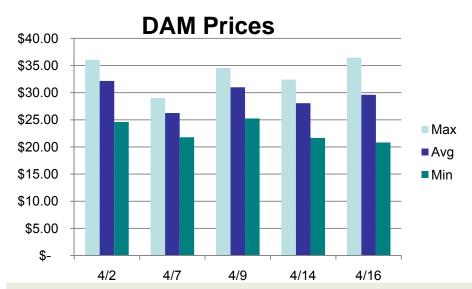
Market Trials 4.0: DAM/RUC:

- Tuesday April 13th for Operating Day Wednesday April 14th
 - 80% Forecasted Load / 50% Self-Arranged
 - 156 QSEs participated in the first DAM
 - MWs ranged from 15,709 20,445/Hr
 - Prices ranged from \$21.67 \$32.42/Hr
- Thursday April 15th, for Operating Day Friday April 16th
 - 120% Forecasted Load / 50% Self-Arranged
 - 179 QSEs participated in the DAM
 - MWs ranged from 24,976 30,446/Hr
 - Prices ranged from \$20.83 \$36.45/Hr

QSE Participation DAM Summary







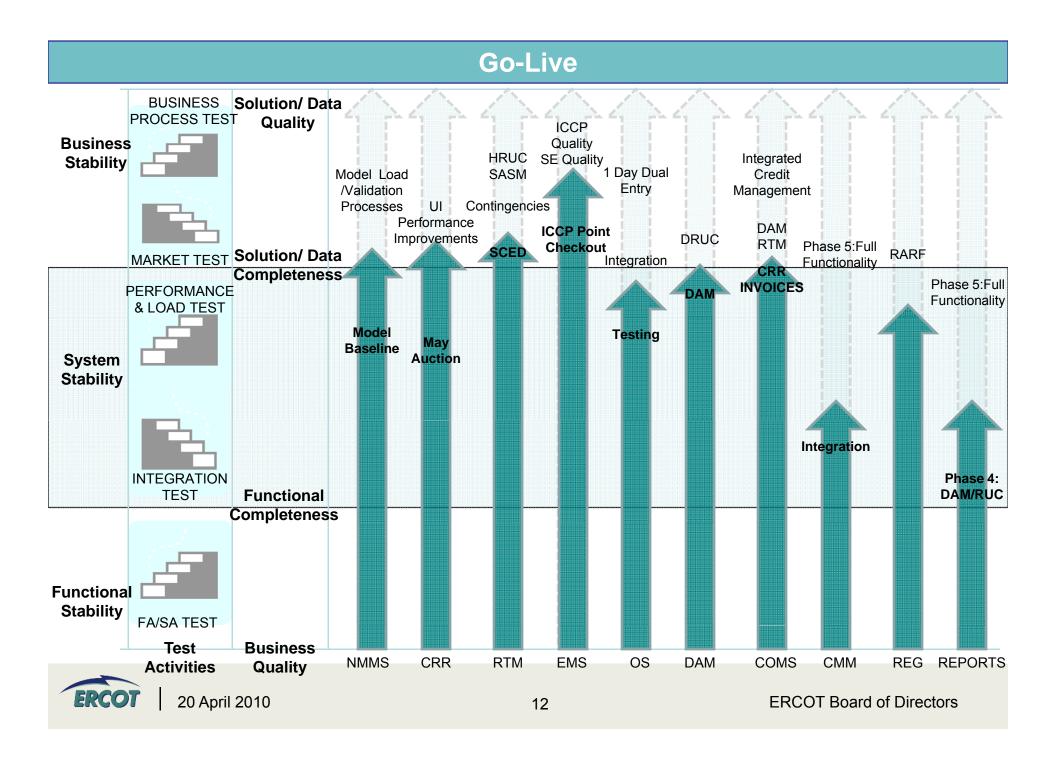
Issues with DAM:

- •Encountered a known issue where MMS cannot handle multiple Load Resources mapped to a single Load point in the model (4/13, 4/15)
- •MMS UI availability / performance (4/1, 4/6)
- •OS UI performance issues (4/6)

Market Trials Phase 4 - DAM: Schedule/Key Dates

	Week 1	Week 2	Week 3	Week 4	Week 5
		4/6/2010 &	4/13/2010 &	4/20/2010 &	4/27/2010 &
	4/1/2010	4/8/2010	4/15/2010	4/22/2010	4/29/2010
DAM/RUC/SASM					
	Connectivity /	AS co-	Network constrained	DAM + DRUC	DAM + DRUC +
Objective	Execution	optimization	solution	DAM + DRUC	HRUC + SASM
Network					
Constraints	None	None	Included	Included	Included
Self-Arranged AS					
Requested	100%	50%	50%	Actual	Actual
Load Bid MW	80/120%	80/120%	80/120%	80/120%	80/120%
Requested	forecasted load	forecasted load	forecasted load	forecasted load	forecasted load
	Up to 5	Up to 5			
	transactions	transactions	Up to 10	Up to 10	
	totaling 50	totaling 50	transactions totaling	transactions/	Up to 10
Virtual Bids / Offers	MW/QSE/hr	MW/QSE/hr	100 MW/QSE/hr	QSE/hr	transactions/QSE/hr
					Up to 5 bids totaling
	Up to 5 bids	Up to 5 bids		Up to 5 bids	50 MW/QSE/hr (unless
	totaling	totaling		totaling	the bid represents
PTP Obligations	50 MW/QSE/hr	50 MW/QSE/hr	None	50 MW/QSE/hr	QSE's load)
	Allocated CRRs	Allocated CRRs		Allocated CRRs	
NOIE CRR Offers	only	only	None	only	Allocated CRRs only
			DRUC after each	DRUC after each	
DRUC	None	None	DAM	DAM	DRUC after each DAM
HRUC	None	None	None	None	Limited
SASM	None	None	None	None	Yes





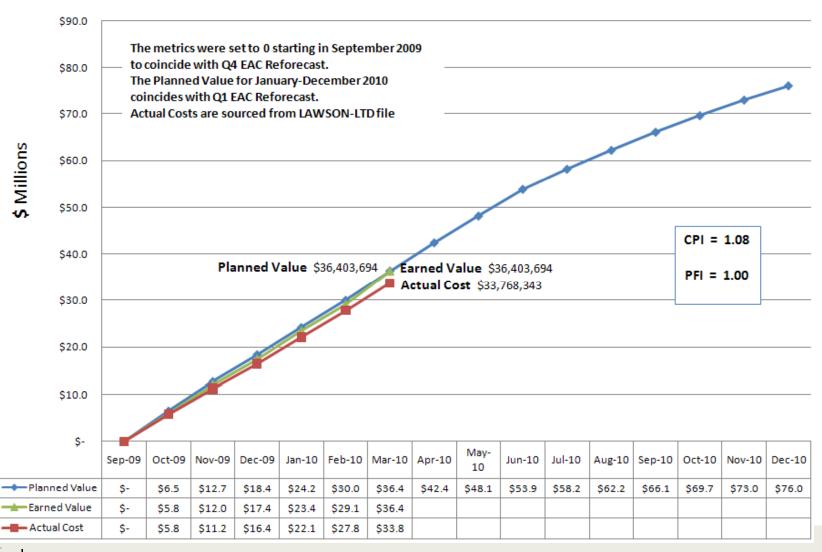
Nodal Program Risks & Issues

Risk/Issue	Impacted Milestone	Target	Category	Probability	Severity	Status
Market Interaction Operating Level Agreements (OLAs) Need to determine operating level agreements associated with market interactions to assist ERCOT in establishing operational thresholds: -Network Model Management -DAM Sizing -CRR sizing -Reporting	Program	April/ May 2010	Scope / Budget	High	Low	 Phase 4 OLA definitions complete Phase 5 OLA definitions drafted, pending approval Regular updates to NATF and NDSWG 10,000 / 10,000 submissions achieved 200,000 submissions total; NATF is weighing options for possible NPRR Reports continue to become available as the Market Trials activities ramp-up. Performance monitoring continues
Market Design Assessment Risk around the protocol traceability project and the market results as each phase of market trials becomes active.	Program	August 2010	Scope / Budget	Low	High	Building experienced market design team to review and assess design and protocol alignment with market trials results

Earned Value for the Nodal Program

Nodal Program

Chart only uses values associated with Internal Labor Costs, External Resource Costs, Administrative & Employee Expenses, Vendor & Backfill



Participant Readiness Touch Points

	2010								
	April	May	June	July					
Meetings	• NATF 4/6	• NATF 5/4	• NATF 6/1 and 6/29	• TBD					
Training	 Nodal 101 Trans 101 Generation 101, 201 CRR – instructor-led NMMS Economics of LMP Combined Cycle Workshop (4/28) 	 Nodal 101 Trans 101 Generation 101, 201 CRR – instructor-led NMMS Economics of LMP 	 Nodal 101 LSE 201 Generation 101, 201 Economics of LMP Basic Training Program Ancillary Service Workshop (tentative) 	 Nodal 101 Transmission 101 Generation 101, 201 Basic Training Program 					
Outreach	Standby site visitsTSP ValidationBi-weekly TSP callsPhase 4 metrics launch	 Standby site visits Metrics monitoring Bi-weekly TSP calls MRS #4 Cutover (5/25) 	 Repeat Retail Workshop (Dallas) – tentative Phase 5 Metrics launch 	Qualification assessment (MP17)Standby site visits					
Market trials	 Weekly Trials calls Phase 4 Market Trials initiates Phase 5 Handbooks Updates to prior handbooks Credit 	 Weekly Trials calls 2 hr system-wide LFC test Phase 5 Market Trials initiates 	 Weekly Trials calls 8 hr system-wide LFC test Full market trials functionality 	 Weekly Trials calls 48 hr system-wide LFC test Verifiable costs in execution 					



Next 60-days of Classes and Settlement Workshops

Course	Start Date	Location
Basic Training Program	April 19	Suez Energy (Houston)
Generation 201	April 20	Calpine (Houston)
ERCOT Nodal 101	April 26	Tenaska Power Services (Dallas)
Credit Management Workshop	April 26	ERCOT Met Center (Austin)
Congestion Revenue Rights	April 27	Hilton Garden Inn (Dallas)
Combined Cycle Workshop	April 28	ERCOT Met Center (Austin)
Credit Management Workshop	May 3	ERCOT Met Center (Austin)
Economics of LMP	May 10	Energy Plaza (Dallas)
ERCOT Nodal 101	May 10	ERCOT Met Center (Austin)
Congestion Revenue Rights	May 11	ERCOT Met Center (Austin)

Enrollment at: http://nodal.ercot.com/training/courses/index.html

Next 60-days of Classes and Settlement Workshops (continued)

Course	Start Date	Location
Transmission 101	May 18	CPS Energy (San Antonio)
Network Model Management	May 20	CPS Energy (San Antonio)
Basic Training Program	May 24	Energy Plaza (Dallas)
Generation 101	June 8	LCRA (Austin)
Generation 201	June 17	LCRA (Austin)
Basic Training Program	June 21	ERCOT Met Center (Austin)
Transmission 101	July 13	CenterPoint Energy (Houston)

Enrollment at: http://nodal.ercot.com/training/courses/index.html

Nodal Outreach Program Overview Statistics

Statistics were compiled after the completion of the Outreach Site Visits. Below are statistics representing the type of Market Participants visited and their locations:

1	Total Number of Market Participant Site Visits	35
2	Total Number of Market Participants	67
	participating in Outreach, including Wind, and	
	Retail Panels	
3	Total number of attendees	681
4	Percentage of total generation represented by	96.14%
	QSEs participating in site visits	
5	Percentage of total load represented by QSEs	91.96%
	participating in site visits	
6	Total number of states visited	11 states
7	Total regions visited	Austin – 4
		Houston (metro) – 11
		Dallas (metro) – 5
		San Antonio – 1
		East Coast – 5
		West Coast – 1
		Midwest – 3
		Florida – 1
		Texas (outside metro areas) - 4

Nodal Outreach Program Overview Statistics

Below are the percentages of each topic selected:

	Topics	Percentage of Each Topic Selected
1	Nodal Program Update (mandatory topic)	Mandatory
2	Day-Ahead Market Implementation	100%
3	Real Time Operations Processes & Systems	94.29%
4	Reliability Unit Commitment Implementation	82.86%
5	Nodal Settlements and Billing Processes	74.29%
6	Congestion Revenue Rights Auction Implementation	65.71%
7	Reports and Data Extracts	45.71%
8	Telemetry & Load Frequency Control	42.86%
9	Readiness Center and Scorecard	14.29%
10	Credit Monitoring and Management (topic was made	11.43%
	available on February 9, 2010)	
11	Wind Presentation and Discussion	One-time presentation
12	Retail Presentation and Discussion	One-time presentation

Nodal Outreach Program Overview Statistics

- Market participants received an evaluation to complete
- Each question was given a response regarding the meeting objectives, based on a Likert scale:

4 – Strongly Agree

3 – Agree

2 – Disagree

1 – Strongly Disagree

Topics	Average Response*
Readiness Center and Scorecard	3.68
Nodal Settlements and Billing Processes	3.65
Nodal Program Update	3.63
Wind Presentation and Discussion (one-time presentation)	3.63
Telemetry & Load Frequency Control	3.61
Reports and Data Extracts	3.61
Reliability Unit Commitment Implementation	3.57
Day-Ahead Market Implementation	3.56
Congestion Revenue Rights Auction Implementation	3.56
Goals and purpose of Outreach meeting are appropriate	3.55
Real Time Operations Processes & Systems	3.55
Credit Monitoring and Management	3.24
Retail Presentation and Discussion (one-time presentation)	3.12

"The program was not geared toward a QSE like [us], but rather the generation community"

"Today's presentation and Q&A was a great eye opener. We have done a lot of work in preparing for Nodal, but today's presentation clearly shows the gaps between where we are and where we need to be throughout 2010."

[&]quot;Provided a great and much needed tool for ERCOT to interface with MPs to answer questions and form needed task lists. Thank all of you for this opportunity."

^{*} Not all participants returned evaluations or answered every question.

Active Market Participant Metrics

Metric Name	Current Score	Applies to	Weight	Green %	Yellow %	Red %	Not Scored %	Primary Criteria	Notes
MP3 Market Submissions Connectivity Qualification	Green	QSERs	Generation Ratio Share	99.0%	1.0%	0.0%	0.0%	Successful submission of RT	81/84 QSERS Qualified (includes QSEs with Load Resources).
	Amber	QSEs	Even weighting	94.3%	2.1%	1.0%	2.6%	and DAM transactions	181/192 QSEs qualified. Below 95% threshold for overall GREEN.
	Green	QSERs	Generation Ratio Share	99.9%	0.1%	0.0%	0.0%	Expected State Estimator telemetry submitted.	78/79 QSERs completed. 3501/3502 SE points provided (99.6%).
MP6 Telemetry Compliance with Nodal Protocols	Green	QSERs	Generation Ratio Share	99.9%	0.0%	0.1%	0.0%	Expected SCED telemetry submitted.	78/79 QSERs completed. 7621/7629 SCED points provided (99.1%).
3.10.7.5	Green/White only	TSPs	Ownership Ratio Share	0.3%	0.0%	0.0%	99.7%	Expected TSP telemetry per ICCP Handbook submitted. No schedule for AMBER/RED scores	1/17 TSPs completed, all other TSPs are in review by ERCOT. ~94% TSP CB and LD points provided.
MP11 Resource Registration	Green	REs	Registered MW Capacity Ratio Share	97.7%	1.82%	.5%	0.0%	Decision Making Authority form submitted, and GENMAP validated	153/157 Resources completed.



Active Market Participant Metrics

Metric Name	Current Score	Applies to	Weight	Green %	Yellow %	Red %	Not Scored %	Primary Criteria	Notes
MP14-C TSP Model Validation	Green	TSPs	Ownership Ratio Share	99.4%	.6%	0.0%	0.0%	Network Model data validated by TSP	17/28 TSPs have submitted model validation e-mails to ERCOT.
MP15-A Real-time Market Participation	Green	QSERs	Generation Ratio Share	99.0%	1.0%	0.0%	0.0%	Weekly average of daily SCED submissions	75/79 QSERs above 95% weekly average for SCED submissions.
MP15-B CRR Connectivity Qualification	Red	CRRAHs	Even weighting	92.8%	0.0%	7.2%	0.0	Successful submission CRR transactions	64/69 CRRAHs qualified. Greater than 5% overall RED.
MP16 DAM	Green/White Only	QSERs	Generation Ratio Share	88%	0.0%	0.0%	12.0%	Participation in 50% of the Day- Ahead Market runs	57/84 QSERs with adequate participation.
Participation	Green/White Only	QSEs	Even Weighting	53.4%	0.0%	0.0%	46.4%		103 out of 192 QSEs with adequate participation.
MP20 Outage Scheduler Connectivity Qualification	Green	QSERs	Generation Ratio Share	98.1%	0.0%	0.0%	1.9%	Successful submission of OS transactions.	74/78 QSERS qualified.
	Green	TSPs	Ownership Ratio Share	99.8%	0%	0%	.02%	AMBER/RED scores light up 4/13/2010 after OS window closes	18/25 TSPs qualified.



Active Market Participant Metrics

Metric Name	Current Score	Applies to	Weight	Green %	Yellow %	Red %	Not Scored %	Primary Criteria	Notes
CRR3 Operation of CRR Auctions and Allocations	Green/White only	CRRAHs	Even weighting	68.1%	0%	0%	31.9%	Participation in at least one of the last two auctions or allocations. AMBER/RED scores light up 5/5/2010 after May bid window closes	49/70 CRRAHs with adequate participation in March or April Auctions or Allocations.

MP15-B CRR Connectivity Qualification – RED entities

Ambridge Energy LLC – No update

<u>Credit Suisse Energy LLC</u> – Aware that MP15-B is RED, but wants to keep CRRAH account active

Merrill Lynch Commodities Inc - Deregistering *

PEPCO Energy Services Inc - Deregistering *

<u>Velocity American Energy Master I LP</u> – Deregistering *

* CRRAH will remain RED until Notice of Change (NCI) to deregister is received by ERCOT



Active ERCOT Metrics

Metric Name	Current Score	Applies to	Percentage (if applicable)	Primary Criteria	Notes
E1 ERCOT Staff Completes Training	Green	ERCOT	100%	Training plans must be adhered to for highly impacted departments	15 out of 15 highly impacted departments are up to date with their training plans.
E9 Develop Nodal Procedures	Green	ERCOT	100%	Procedures developed 1 month prior an to the appropriate Market Trials Phase and/or procedures exercised in the current Market Trials phase.	All MT4 and MT5 are now developed and the MT3 procedures were exercised during MT3 as scheduled. MT4 procedures on target to be exercised by the end of MT4.
MO4 Verify SCED Execution Quality	Green	ERCOT	N/A	All of the successful SCED executions passed the post-execution price validations for the given reporting period.	For the 3/23 – 4/5 period, there were 4,048 * SCED intervals with no price validation error flags.
MO5 Generate 6 Months of LMPs	Green	ERCOT	95.9%	Greater than 95% of the SCED executions produced and posted LMPs for the given reporting period.	For the 3/23 – 4/5 period, 3,887 out of 4,052 SCED runs with LMP posted correctly.

^{*} Discrepancy between SCED and PVT runs due to missing input data during PVT testing.





Monthly Financial Review

Don Jefferis Interim Director - Nodal Financial Management Office 20 April 2010

Current Monthly Financials

Financial Review - March 2010 Performance Approved Forecast vs. Actual

								F	orecast
						V	ariance	Cu	mulative
Line	Cost Summary	F	orecast	A	Actual	Fav	./(Unfav.)	V	ariance ¹
1	Internal Labor Costs	\$	2.6	\$	2.7	\$	(0.1)	\$	(0.4)
2	Backfill Labor Costs		0.2		0.1		0.1		0.3
3	External Resource Costs		3.6		3.1		0.5		0.6
4	Software & Software Maintenance		0.3		0.2		0.1		(1.6)
5	Hardware & Hardware Maintenance		0.3		0.1		0.2		0.6
6	Other		0.1		0.1		-		-
7	CTO Contingency Fund Approved		0.3		-		0.3		2.3
8	Sub-total Direct Project Costs	\$	7.4	\$	6.3	\$	1.1	\$	1.8
9	Allocations		0.3		0.3		-		-
10	Finance Charges		1.1		1.1		-		0.2
11	Sub-total Indirect Project Costs	\$	1.4	\$	1.4	\$	-	\$	0.2
12	CTO Contingency Fund Unutilized		-		-		-		-
13	Board Discretionary Fund		-		-		_		
14	Total	\$	8.8	\$	7.7	\$	1.1	\$	2.0

Amounts in Millions

Note 1: Pending Contingency management disposition



Financial Review - LTD Performance through March 2010 Approved Forecast vs. Actual

						V	ariance	F	orecast
Line	Cost Summary	Fc	recast ¹	A	Actual	Fav	v./(Unfav.)	Re	emaining
1	Internal Labor Costs	\$	63.4	\$	63.8	\$	(0.4)	\$	20.2
2	Backfill Labor Costs		5.9		5.6		0.3		1.4
3	External Resource Costs		264.8		264.2		0.6		17.7
4	Software & Software Maintenance		26.5		28.1		(1.6)		2.7
5	Hardware & Hardware Maintenance		52.7		52.1		0.6		2.6
6	Other		2.1		2.1		-		0.4
7	CTO Contingency Fund Approved		2.3		-		2.3		2.5
8	Sales Tax Refund		(7.3)		(7.3)		-		
9	Sub-total Direct Project Costs	\$	410.4	\$	408.6	\$	1.8	\$	47.5
10	Allocations		20.9		20.9		-		2.0
11	Finance Charges		29.2		29.0		0.2		22.3
12	Sub-total Indirect Project Costs	\$	50.1	\$	49.9	\$	0.2	\$	24.3
13	CTO Contingency Fund Unutilized		-		-		-		6.0
14	Board Discretionary Fund		-		-		-		105.5
15	Total	\$	460.5	\$	458.5	\$	2.0	\$	183.3

Amounts in Millions

Note 1: Forecast consists of actuals through December 2009 and reforecast January, February and March



Financial Review - CTO Contingency Fund Q1 Risk Items Update

Line	Major Activities/Adjustments	Likely to Spend ¹	Risk	Approved NCRs	Unutilized Risk Funds
1.	 External Labor Support for Delivery Assurance and Market Experts for Operational Support & Guidelines (\$2.4M) & Board directive for Organization Study (\$0.5M) 	Н	\$ 2.9	(\$ 0.8)	\$2.1
2.	•Infrastructure hardware upgrades and application patching	L	2.0	(0.6)	1.4
3.	•Software Licenses and Maintenance Fees	Н	1.9	(1.9)	-
4.	•Current in-flight change requests within the NCR pipeline	Н	1.6	(0.4)	1.2
5.	•Market Collateralization for Credit system changes and NPRRs	Н	1.0	-	1.0
6.	•Business Process Monitoring scoping and requirements gathering based on other ISO implementations, Internal and External Labor support for problem analysis, monitoring configurations, tools and utilities	Н	1.0	(0.2)	0.8
7.	 Network Modeling changes for loading and publishing to support NPRR 	Н	0.2	-	0.2
8.	•IMM Development Resources from ABB	L	0.2	-	0.2
9.	 Uncategorized Nodal Change Request External resources for SYS, PC INT & INF 	N/A	-	(0.9)	(0.9)
	Total		<u>\$ 10.8</u>	<u>(\$ 4.8)</u>	<u>\$ 6.0</u>

Amounts in Millions

Note 1: H – high probability risk will materialize, L – low probability risk will materialize



Quarterly Reforecast Process Update

Financial Review - Board Discretionary Fund Summary

- The Board Approved Budget is \$643.8M
- Board Discretionary Fund increased by \$7.3M to \$112.8M
 - Direct Program Costs:
 - Estimate at Completion reforecast favorable net variance \$6.8M
 - Unutilized Q1 2010 EAC Risk Items \$6.0M
 - Q1 Favorable variance \$1.8M
 - Estimate to complete reforecast (\$1.0)M
 - Apr.-Dec. favorable variance \$4.3M
 - CTO risk items (\$5.3)M
 - Indirect Program Costs:
 - Finance charge impacts \$0.5M
 - Q1 Favorable variance \$0.2M
 - Estimate to Completion (Apr-Dec 2010) favorable variance - \$0.1M
 - Post completion finance charge favorable variance - \$0.2M

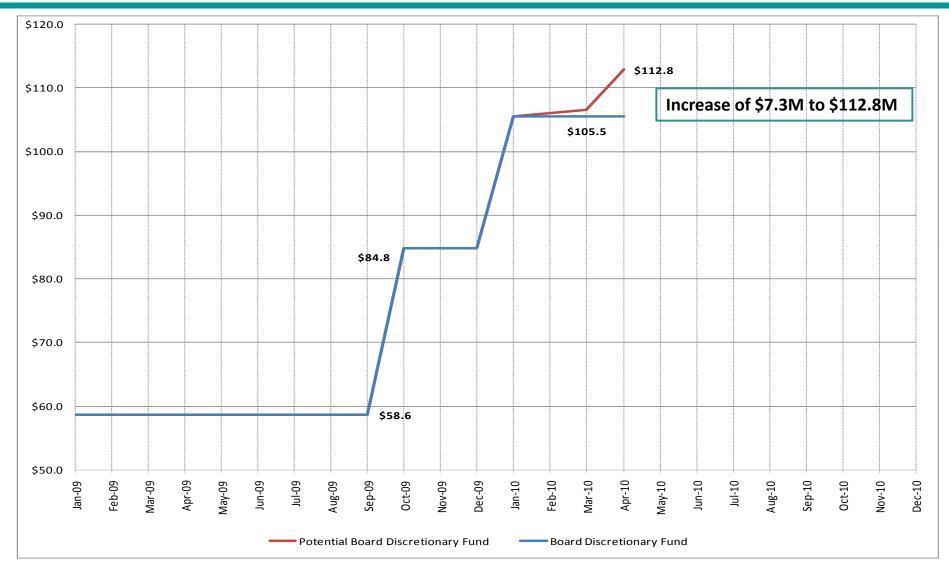
Summary					
Board Discretionary Fund	Millions				
Beginning balance, 1/01/10	\$105.5				
Direct Program Costs (see next slide)	6.8				
Indirect Program Costs	<u>0.5</u>				
Ending balance, 4/1/10	\$ <u>112.8</u>				

Financial Review - CTO Contingency Fund Q1 Risk Items Update

Program Risk & Changes	Major Activities/Adjustments	CTO Fund	Board Fund
	Existing CTO Contingency at January 1, 2010	\$ 10.8	
Approved Change Management Items Charged to CTO Contingency	 NCR87 TIBCO Software (\$1.9M) NCR83 Board Directive for Organizational Study (\$0.5M) NCR91;76 Market Strategist; FMO Backfill (\$0.6M) NCR84 Seimens Software (\$0.3M) NCRs <\$0.2M (\$1.5M) 	(4.8)	
	Close-Out Unutilized Q1 2010 EAC Risk Items	(6.0)	6.0
Budget to Actual Variance	Q1 Favorable Variance		1.8
Estimate to Complete	 Favorable Impact of Reforecast Apr Dec. 2010 Removal of TBD External Resources De-scoping of TBD Audit Services Reduction in Backfill to Support Nodal Program Validated HW/SW Maintenance Costs 		4.3
Risk Items for Inclusion in CTO Contingency (See Appendix)	 Credit Management Infrastructure Hardware Upgrades and Application Patching Uncategorized Nodal Change Requests External Labor Support for Market Analysis Business Process Monitoring and Cutover Support Current Open Nodal Change Request Network Modeling Management IMM Development Resources from ABB 	1.2 1.0 1.0 0.8 0.7 0.3 0.2 0.1	(1.2) (1.0) (1.0) (0.8) (0.7) (0.3) (0.2) (0.1)
	Total Board Discretionary Fund Giveback		<u>\$ 6.8</u>
	CTO Contingency Fund at April 1, 2010	<u>\$ 5.3</u>	



Financial Review - Board Discretionary Fund





Financial Review - Estimate At Completion Q2 Reforecast

				Estimate To E		Es	stimated
Line	Cost Summary	LTD	Actual	Complete		Program Total	
1	Internal Labor Costs	\$	63.8	\$	20.1	\$	83.9
2	Backfill Labor Costs		5.6		0.7		6.3
3	External Resource Costs		264.2		17.7		281.9
4	Software & Software Maintenance		28.1		2.0		30.1
5	Hardware & Hardware Maintenance		52.1		2.3		54.4
6	Other		2.1		0.3		2.4
7	CTO Contingency Fund Request		-		5.3		5.3
8	Sales Tax Refund		(7.3)		-		(7.3)
9	Sub-total Direct Project Costs	\$	408.6	\$	48.4	\$	457.0
10	Allocations		20.9		2.1		23.0
11	Finance Charges		29.0		22.0		51.0
12	Sub-total Indirect Project Costs	\$	49.9	\$	24.1	\$	74.0
13	Total	\$	458.5	\$	72.5	\$	531.0

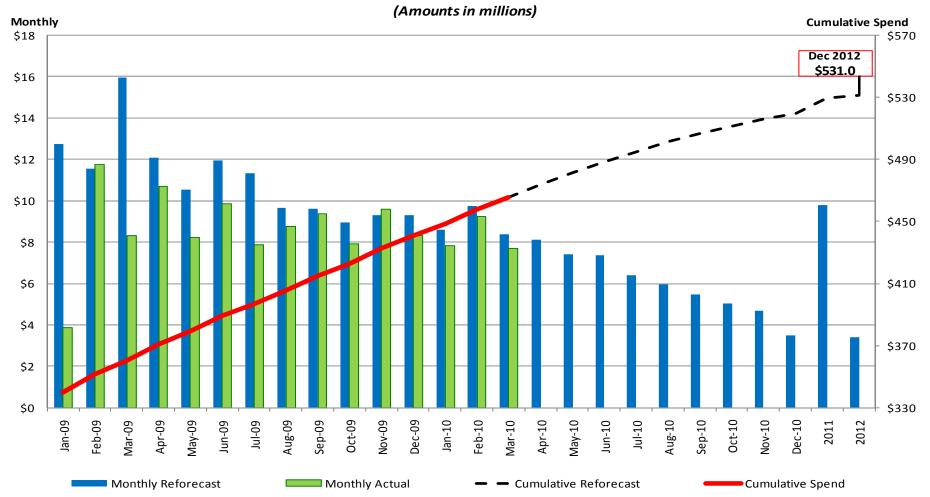
	Supplemental Information	Q1 Balance	Giveback	Q2 Balance
14	Board Discretionary Fund	\$ 105.5	\$7.3	\$ 112.8
15	February 2009 Approved Budget			<u>\$ 643.8</u>



Financial Performance

Financial Review - Program Cost Management 2009 and 2010 Forecast

Monthly Budget, Forecast and Actual Analysis



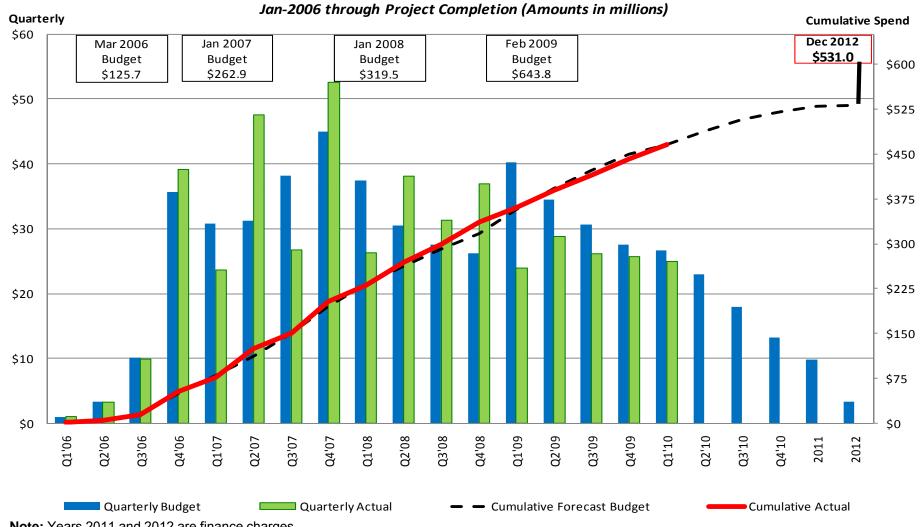
Amounts in Millions

Note: Years 2011 and 2012 are finance charges



Financial Review - Program Cost Management 2006 to 2010 Quarterly

Quarterly Budget, Forecast and Actual Analysis



Note: Years 2011 and 2012 are finance charges



Questions?

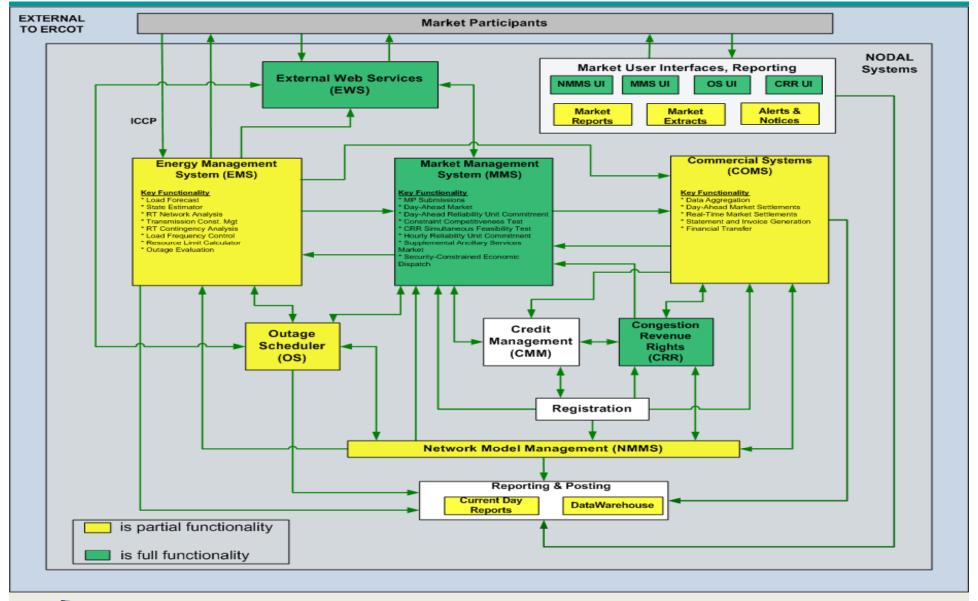
Appendix

Financial Review - Supplemental Schedule Q2 Reforecast - CTO Contingency Request Detail

Program Risk & Changes	Risk	Risk Details
Credit Management	\$1.2	 \$0.5M NPRR 206 (ABB Dev, Reporting, and Testing) \$0.3M Potential Future Exposure Model requested from FNA \$0.1M T5 TPT Break-fix and Workflow Training \$0.3M Defect Resolution and Reports
Infrastructure Hardware & Application Upgrades	1.0	\$0.5M for Unplanned Hardware (Servers and Storage)\$0.5M for HW/SW Maintenance True-Ups
Unauthorized Nodal Change Request	1.0	 Estimate based on historical uncategorized change requests and future complexities. Includes risk for defect remediation and work efficiencies
External Labor Support for Market Analysis	0.8	 Additional External Market Resources of approximately 3,000 total hours
Business Process Monitoring & Cutover Coordination	0.7	 \$0.2M External resource for HP Open View \$0.5M External Resources for Cutover Coordination
Current Open Change Request	0.3	Open Nodal Change Request Estimate as of April 1, 2010
Network Model Management	0.2	External Resource Support for Network Modeling
Independent Market Monitoring (IMM)	0.1	Additional IMM External Resources of approximately 500 hours
Total	<u>\$5.3</u>	



Nodal Systems Blueprint - Market Trials - Phase 4 - April 1st



Nodal Program Risks & Issues: Definitions

Definitions for Category, Probability and Severity of Risks & Issues:

Category

- Scope: Will require a scope change
- Schedule: Will require a schedule change
- Budget: Will require a budget change

Probability

- High : Probability to occur is ≥ 90%; perceived impact would require a Change Request over the next 1-3 months
- Medium: Probability to occur is between 31 89%; perceived impact would require a Change Request over the next 4 -10 months
- Low: Probability to occur is ≤ 30 %; not expected to require a Change Request

Severity

- High: Milestone impact, or budget impact >\$250,000
- Medium: Milestone impact but expected to be mitigated, or budget impact between \$0 - \$250,000
- Low: No milestone impact, or no budget impact



Defect Definitions

Severity	Definition
Severity 1: Data loss/critical error	Defects that render unavailable the critical functions of the system under test. These include errors such as system errors, application failures, loss of data, incorrect calculations, inability to transfer data, failure to access database, and inability to display information to the user.
Severity 2: Loss of functionality w/o workaround	Defects that render unavailable partial functionality of the system under test with no workaround available. These include errors such as incorrect information displayed to the user, information not updating correctly, extracts failing, and missing export files.
Severity 3: Loss of functionality with workaround	Defects that render unavailable partial functionality of the system under test with a workaround available. These include errors such as incorrect message displayed, optional information missing or not displayed correctly, not receiving e-mail notifications, and incorrect defaults.
Severity 4: Partial loss of a feature set	Defects that affect a feature that is not executed on a frequent basis and there is not a significant impact on the system. These include errors such as help information, filtering, and consistent naming.
Severity 5: Cosmetic/documentation error	Defects that are cosmetic and need to be resolved, but are not a factor in the functionality or stability of the system. These include errors such as field alignment, report formatting, drop down list order, fonts, column order and documentation that is inconsistent with the system(s) as tested.

	Prescription in Quality Center
Priority 1	Must fix ASAP
Priority 2	Must fix prior to Go-Live
Priority 3	Not critical to fix before Go-Live
Priority 4	Minor system/user impact
Priority 5	No system/user impact