



Business Integration Update

Betty Day

Vice President, Business Integration

Board of Directors Meeting

September 20, 2011

Summary

- **PMO Update:**

- Overall projects are on-target for delivery and budget with active risk mitigation.
- The Data Center project completed major milestones during the past month.
- Four NPRRs and one SCR were implemented during August.

- **Market Rules Update:**

- 10 new revision requests were filed during the month of August (compared to 12 new in July).
- In 2011, more than 50% of new NPRRs have been submitted by ERCOT.
- Began using new CBA approach with NPRRs that is based on business case justifications.

- **Enterprise Information Management Update:**

- New public dashboards for System Ancillary Services Capacity Monitor and Real Time System Conditions were implemented on www.ercot.com.
- Social media population continues to grow - Twitter: ~2,500 followers; Facebook: ~1,300 active users

PMO - Project Status Overview

- **Stabilization August Release**

- NPRR208, Registration and Settlement of Distributed Generation (DG) Less Than 1 MW
- NPRR221, Day-Ahead Market and Real-Time Market Default Allocation Changes
- NPRR323, Correct DAM Credit Exposure Language and Enable Qualified Expiring CRRs to Offset PTP Bid Exposure
 - Energy Only Portion (2nd of 2 pieces to this NPRR)
- NPRR350, Change to the Security Classification of the System Ancillary Service Capacity Monitor Dashboard
- SCR764, Public Access to Select MIS Dashboards
 - Real Time Systems Conditions Dashboard (1st of multiple releases for this SCR)
- Stabilization and Deferred Defects

- **Stabilization September Release**

- NPRR346, Removal of Redundant Posting Requirements Related to Electrical Bus Changes
- NPRR376, CRR Volume Limitation Enhancements
- SCR764, Public Access to Select MIS Dashboards
 - Load Forecast vs. Actual Dashboard (2nd of multiple releases for this SCR)
- Stabilization and Deferred Defects

PMO - Project Status Overview (continued)

- **ERCOT Internal Project Update**

- TML transition to MIS – moved to Planning/Execution
- Compliance Software Tool – moved to Planning
- RARF Upgrade for Wind, Solar and Storage Resources Compatibility – moved to Execution
- Zonal Decommissioning – extend Execution due to resource conflict with Data Center; Execution will still complete in 2011
- Cyber Security Project 1 & 3 – extend Planning to accommodate RFP process and resource availability; Planning will still complete in 2011.

- **Other Highlights**

- SCR760, Changes Needed for Information Model Manager and Topology Processor for Planning – moved to Execution
- NPRR310, Expand Output Schedule Acceptable Range to Include HSL & LSL – moved to Execution
- NPRR316, Negative Self-Arranged Ancillary Services – moved to Execution
- SCR762, Enable a Single Step Cancel/resubmit of Trades – moved to Execution
- SCR763, Modify COP Validation rule for responsive Reserve Services – moved to Execution

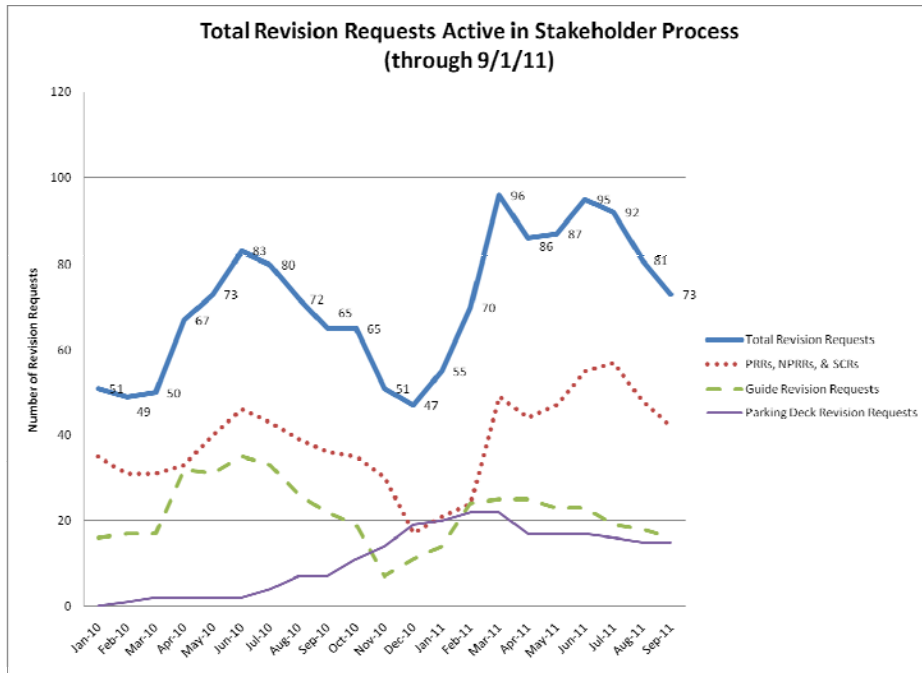
Project Prioritization – Summary

Project Category	2012 Target	2012 Projects Estimated Range	2013 Projects Estimated Range	2014 Projects Estimated Range
Regulatory	\$860k	\$600k - \$1.25M	-	-
Technical Foundation	\$6.5M	\$5.8M - \$11.75M	\$12.15M - \$22.35M	\$6.0M - \$11.0M
Business Strategy	\$7.1M	\$5.25M - \$10.95M	\$5.75M - \$10.85M	\$2.0M - \$4.0M
Efficiencies / Enhancements	\$2.05M	\$1.55M - \$3.35M	\$1.1M - \$2.45M	\$100k - \$250k
Total	\$16.5M*	\$13.2M - \$27.3M	\$19.0M - \$35.65M	\$8.1M - \$15.25M

* ERCOT will manage within the projected \$15M project funding allocation. Higher dollars targeted for cut line since individual project budgets are not yet finalized. Goal is to ensure maximum value in delivery to the market.

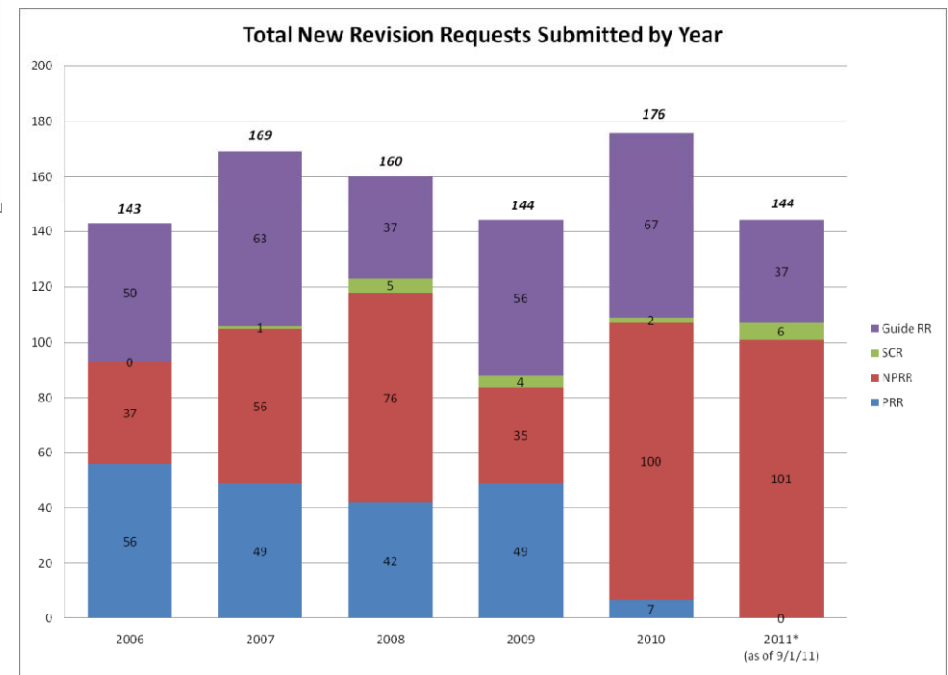
Ranges will change when closer to the time period identified as more information becomes available.

Market Rules Update

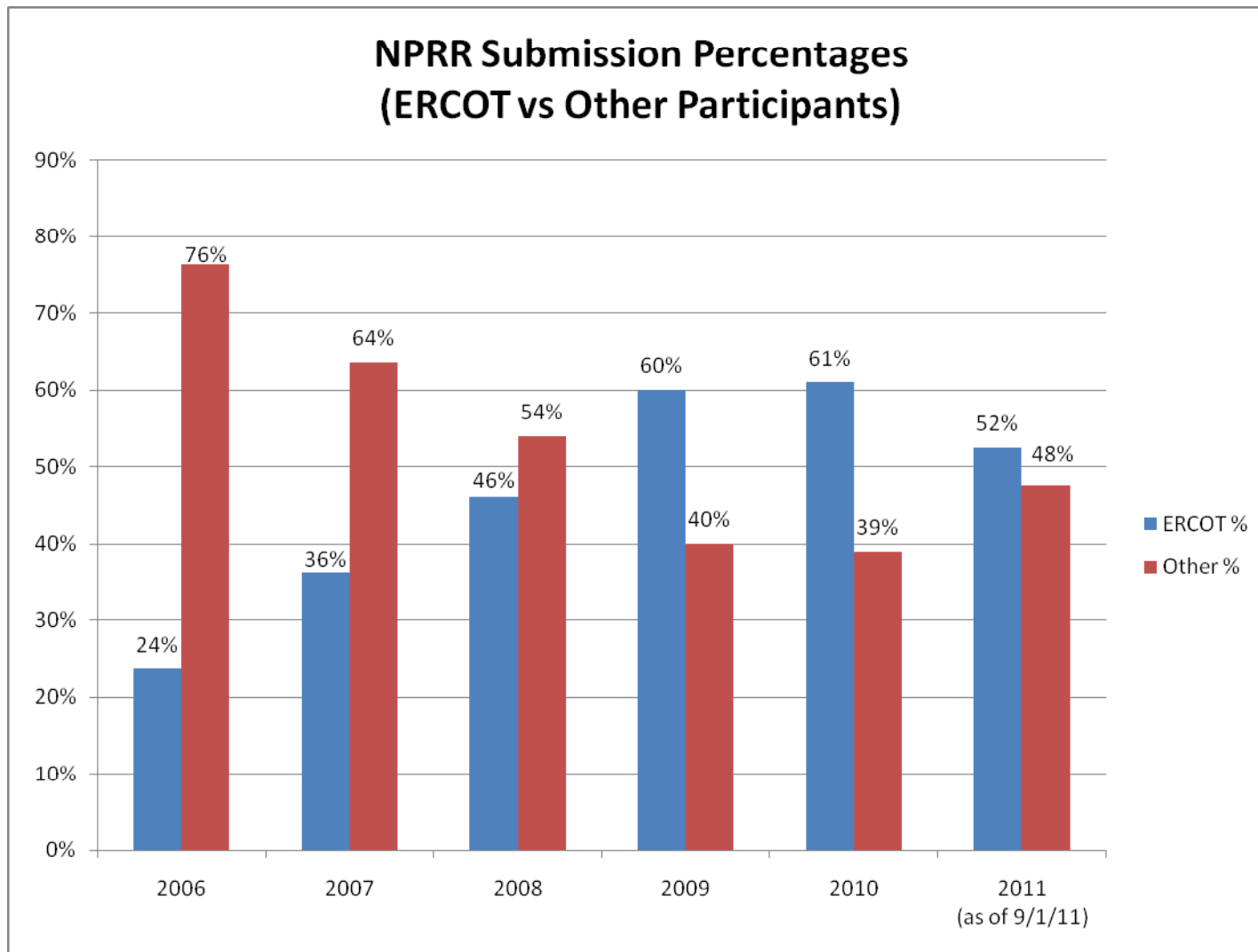


Market Rules staff has been managing an average of 82 revisions each month during 2011.

The total number of Revision Requests is expected to end higher in 2011 than in recent years. However, the total number of Revision Requests in process is beginning to trend down from the monthly peak of 95 processed in June.

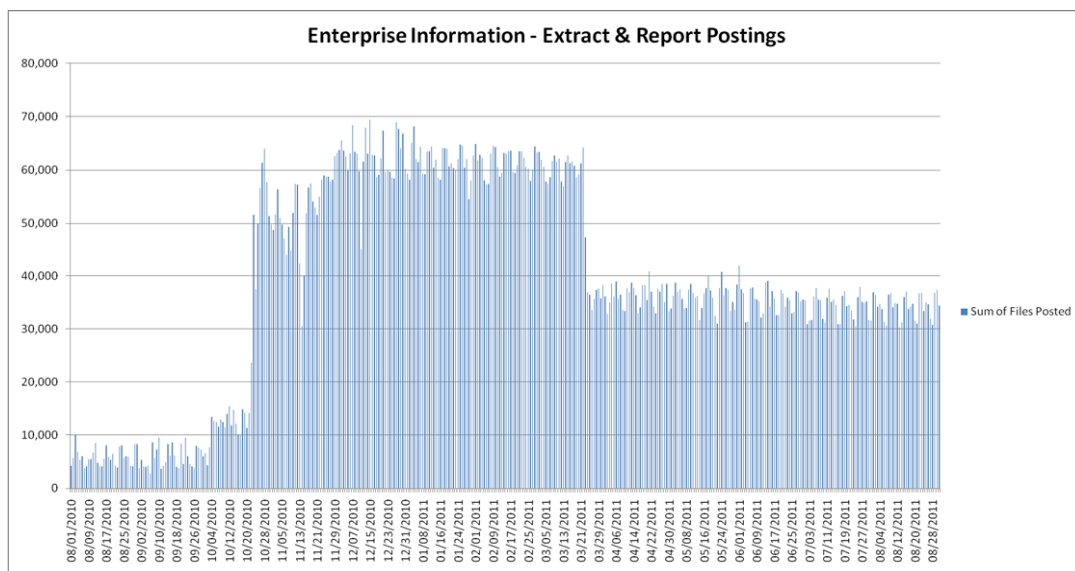


Market Rules Update



* The 2006-2007 stats are deceiving as ERCOT staff was often taking NPRRs to TPTF to get their endorsement and then TPTF would submit the NPRR. This helped to speed the process as PRS was sending all NPRRs through TPTF prior to considering the language.

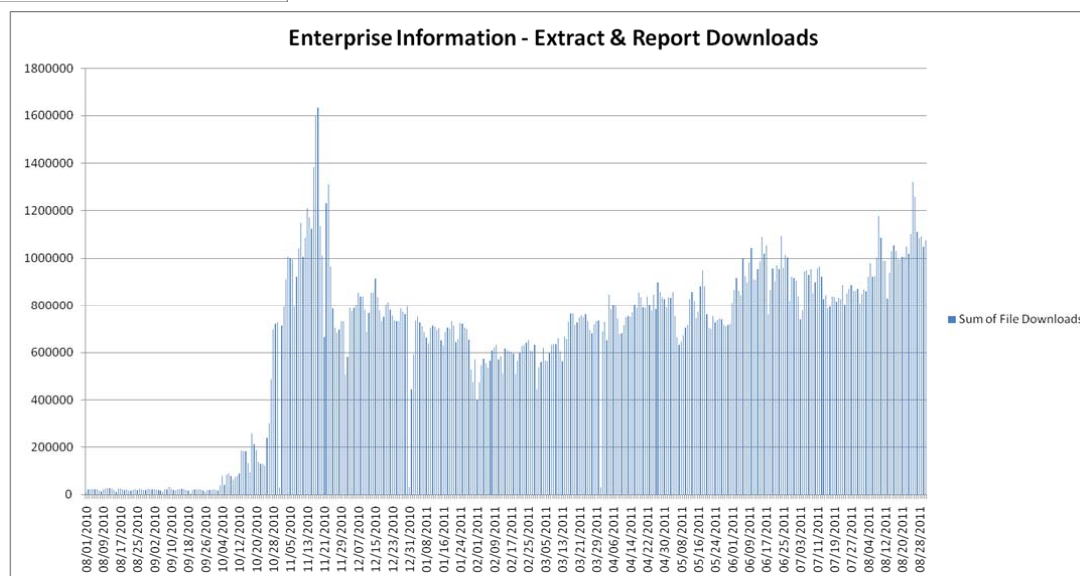
Enterprise Information – Extracts & Reports



The number of extracts and reports posted remains fairly constant but the number of files downloaded is trending upward.

August 2011 Statistics

Postings	Downloads
Total = 1,061,029	Total = 31,627,360
86% - Certified	91% - Public
8% - Secure	7% - Secure
6% - Public	2% - Certified



Enterprise Information – New Dashboards Available

ERCOT

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About ERCOT | Services | Committees and Groups | Market Rules | Market Information | Grid Information

Home > Grid Information > Current System Conditions

Current System Conditions

Emerging Technology Tracking System

Generation

Load

Transmission

Market Reports

Zonal Grid Information Report Archives

CURRENT SYSTEM CONDITIONS

View dashboards for current system conditions such as frequency, load, and system capacity in the ERCOT control area.

Current Information

Real-Time System Conditions

View displays of real-time system conditions including frequency, DC tie flows and wind output.

System Ancillary Service Capacity

View displays of responsive reserve, non-spin, and regulation up/down capacity as well as capacity to increase/decrease base points and physical responsive capacity.

System or application launches in a new browser window.

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Real-Time System Conditions	
Last Updated Sep 09 2011 12:52:20 CDT	
Frequency	
Current Frequency	59.979
Instantaneous Time Error	2.255
Real-Time Data	
Actual System Demand	44501
Total System Capacity	50818
Total Wind Output (hourly average)	497
DC Tie Flows	
DC_E (East)	-92
DC_L (Laredo VFT)	1
DC_N (North)	25
DC_R (Railroad)	0
DC_S (Eagle Pass)	1

System Ancillary Service Capacity Monitor	
Last Updated Sep 09 2011 12:54:37 CDT	
Responsive Reserve Capacity (MW)	
Generation Resources	1,283
Load Resources (excludes Controllable Load Resources)	995
Controllable Load Resources	0
Non-Spin Reserve Capacity (MW)	
On-Line Generation Resources With Energy Offer Curves	90
On-Line Generation Resources with Output Schedule	0
Off-Line Generation Resources	632
Undeployed Load Resources	0
Regulation Up / Regulation Down Capacity (MW)	
Undeployed Reg-Up	430
Undeployed Reg-Down	485
System Capacity (MW)	
Capacity with Energy Offer Curve Available to Increase SCED Base Points	6,582
Capacity without Energy Offer Curve Available to Increase SCED Base Points	65
Capacity with Energy Offer Curve Available to Decrease SCED Base Points	-16,029
Capacity without Energy Offer Curve Available to Decrease SCED Base Points	-1,526
ERCOT-Wide Physical Responsive Capacity	4,998

New Dashboards available on ERCOT.com on the Grid Information page to provide current information on system conditions and ancillary services.

Questions?



Data Center Update

David Forfia

Board of Directors Meeting
September 20, 2011

Monthly Highlights & Upcoming Program Activities

- **Wave 1 – Corporate and Support Systems – remains in progress**
 - Lower priority file share migrations and supporting infrastructure remain to complete.
- **Wave 1.5 – All Virtual Systems**
 - Completed
- **Wave 2 – Development & Integrated Test systems**
 - Austin integrated test environments moved in August
 - Performance testing progress to verify system capacity
- **Wave 3 – Bastrop Control and Data Center Commissioning**
 - First system moves successfully completed in August
 - Final group of systems moving in September
- **Wave 4 – Bastrop Disaster Recovery Environment**
 - System builds in progress
 - Test scenarios in development
 - Disaster recovery test scheduled completion moved out one week.
- **Wave 5 – Taylor Production Migration**
 - First production system migrate in September
 - Data center system moves begin in September and complete in December

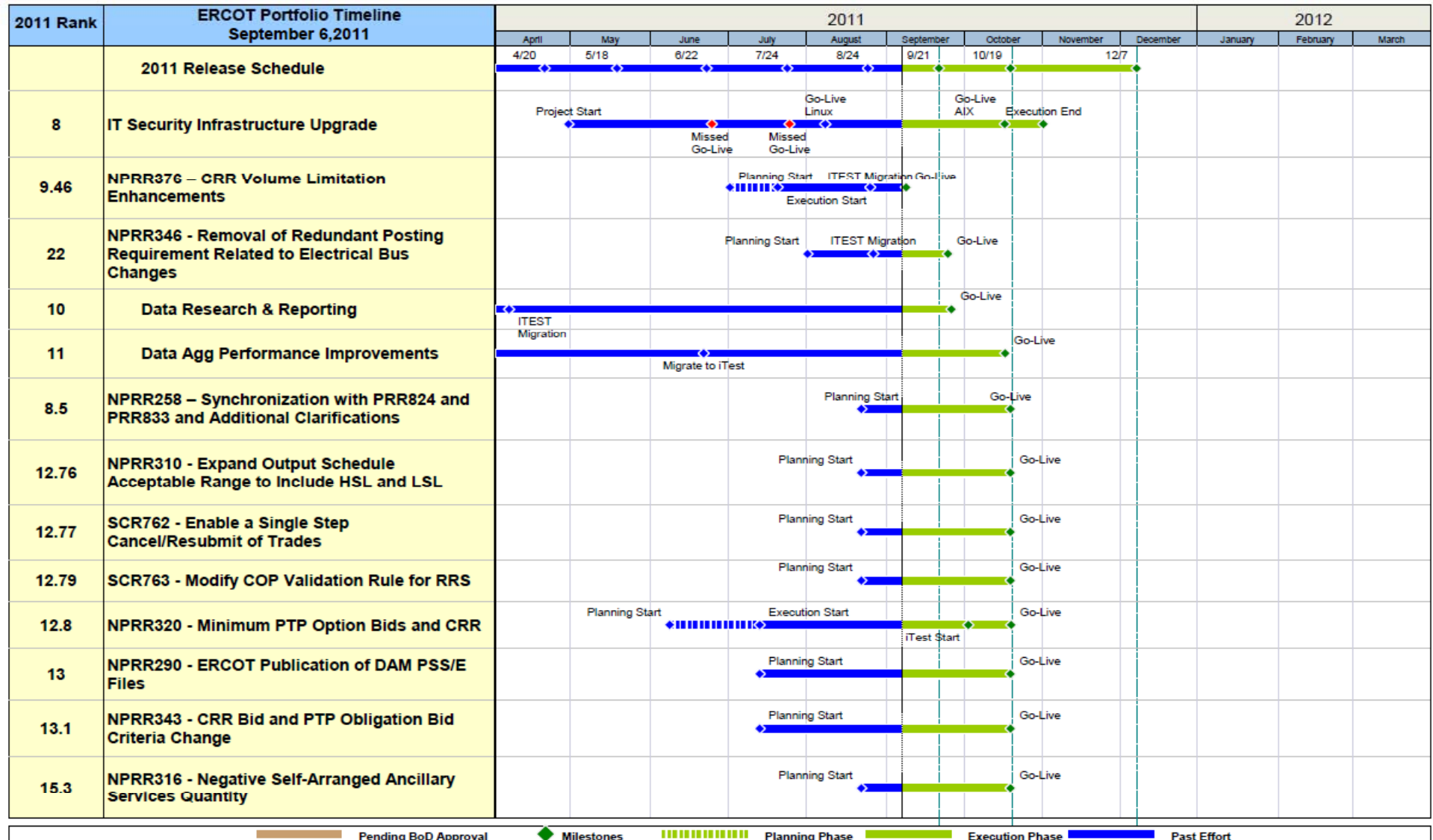
Critical Path & Percent Complete

Critical Path Milestone	Planned Start	Actual Start	Planned Finish	Actual Finish	Status
Wave 0 - Wave 1 Equipment Installed	1/1/11	1/1/11	2/28/11	3/25/11	✓ Complete
Wave 1 - Supporting Systems Installed	3/1/11	3/25/11	5/16/11	4/22/11	✓ Complete
Wave 2 - Test Environments Moved	5/16/11	4/22/11	9/23/11	9/2/11	✓ Complete
Wave 3 – Bastrop Control Center	7/4/11	6/20/11	10/5/11		In progress
Wave 4 – Successful Commercial Disaster Recovery Test	7/1/11	6/6/11	10/7/11 10/14/11		In progress
Wave 5 – Taylor Production Migration	9/12/11	7/4/11	12/4/11 1/17/12		In progress

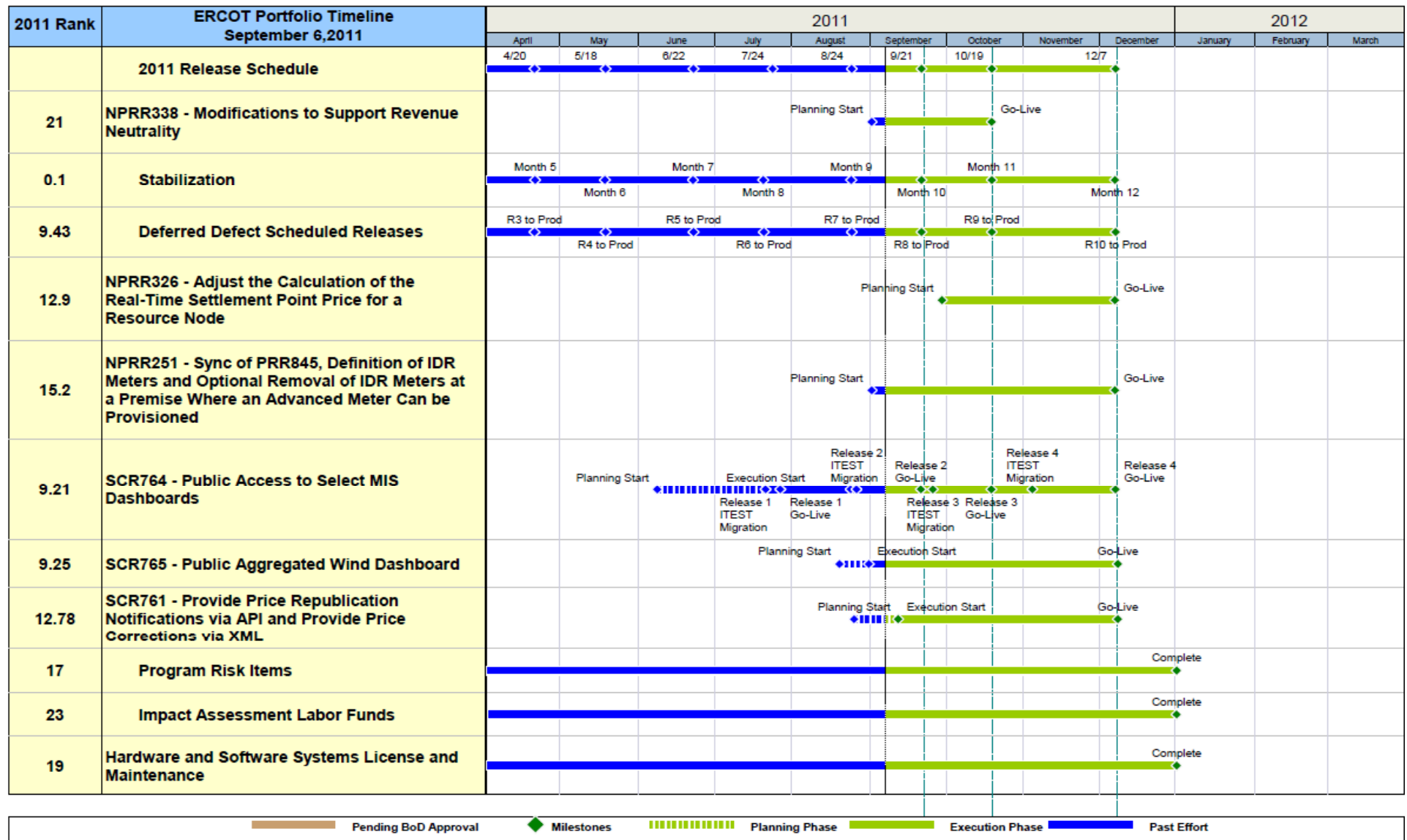
WAVES	Start	Finish	Percentage of Total Moves	Percent in Progress	Percent Complete	Percent Time Elapsed
WAVE 1 - Corporate and Supporting Infrastructure	3/1/2011	6/6/2011	16.5%	15.6%	84.4%	100.0%
WAVE 1.5 - Virtual Host Migration	3/21/2011 3/21/2011	4/27/2011 6/21/2011	1.7% 14.0%		100.0% 100.0%	100.0% 100.0%
WAVE 2 Development and Testing	4/22/11 5/16/2011	9/23/2011	35.8%	4.6%	78.8%	85.8%
WAVE 3 EMMS and Austin Control Room	7/4/2011	10/5/2011	3.7%	26.5%	75.3%	65.9%
WAVE 4 Bastrop Disaster Recovery Environment	7/1/2011	10/7/2011 10/14/11	4.8%	100%	0.0%	61.2%
WAVE 5 Production moved to TCC3	7/4/2011 9/12/2011	12/4/2014 1/17/2012	23.5%	8.6%	15.8%	20.7%
Overall	3/1/2011	1/17/2012	100.0%	12.0%	64.3%	58.54%

Appendix

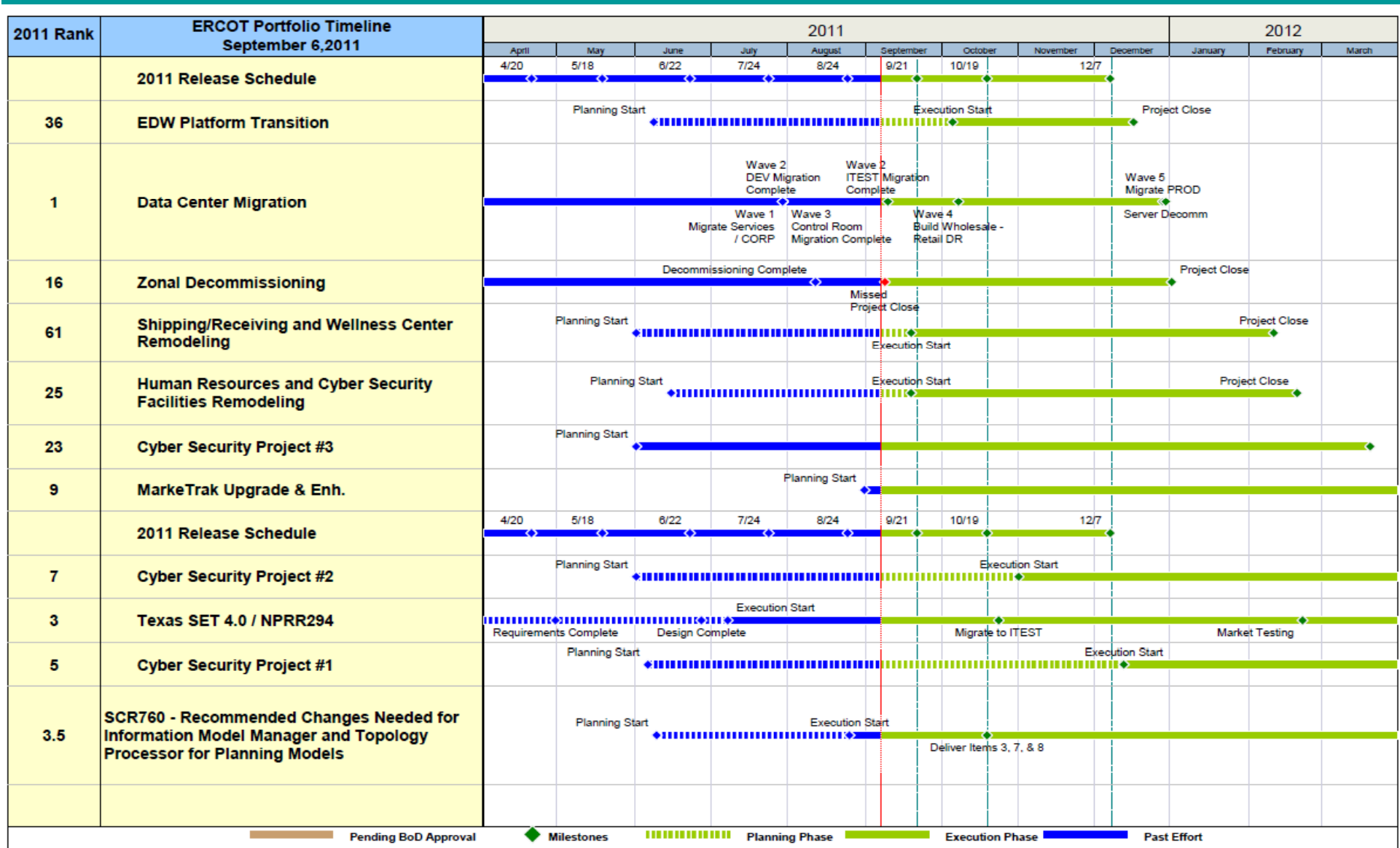
ERCOT Portfolio Status Report (as of 9/9/2011)



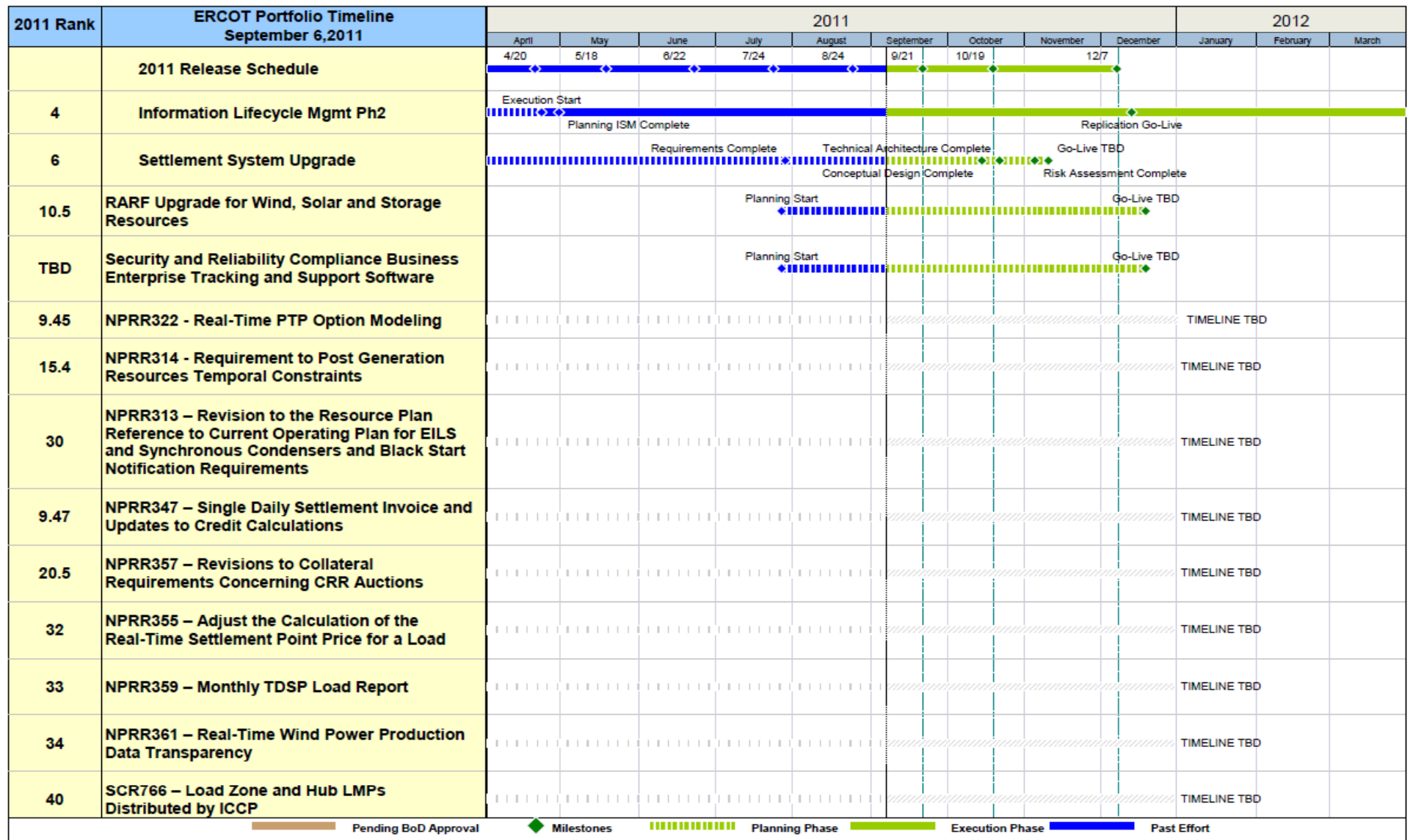
ERCOT Portfolio Status Report (as of 9/9/2011)



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Projects Update

Project Name	Scope	Objectives	Current Status	Issue	Potential Risks	Risk Probability
Stabilization	Evaluate and remediate ERCOT Nodal Operational Issues including higher than normal: production outages, issue analysis, software defect remediation, stakeholder support, and request for information volumes	Maintain Nodal Operational Stability during the first months of System Operations	On track for September release.	None	Staff attrition may impact resource availability and delivery timelines.	Medium
Deferred Defects	Evaluate and remediate the defects that were deferred from the Nodal Project	Continue to improve the operational efficiency of the Nodal Applications and reduce the impact of workarounds for both ERCOT and Market Participants	On track for September release.	None	Staff attrition may impact resource availability and delivery timelines.	Medium
Data Center Migration	Replace data center hardware that is approaching end of life and migrate hardware to new Taylor and Bastrop data centers	Reduce level of risk of hardware failure and resulting impact on critical business functions	Overall Migrations 64.3% Complete Wave 1 - Corp & Supporting infrastructure 84.4% complete Wave 3 - Bastrop Control Center Migrations are in progress at 75.3% complete. Wave 4 - Bastrop Disaster Recovery Environment build-out in progress Wave 5 - Production migration planning in progress.	None	System capacity requirements may exceed initial planning estimates. Mitigation - Performance testing in progress.	Medium
SCR760 Changes Needed for Information Model Manager and Topology Processor for Planning Models	Implement and support nine (9) system changes that update the NMMS Database and/or the tools used to create the Annual Planning Model.	Support additional features required by the Transmission Service Provider Planning teams in an effort to more efficiently and accurately build the Annual Planning Models.	SCR760-3, SCR760-7 and SCR760-8 code complete and delivered. ERCOT testing in progress. Planned for Production with October on cycle release (10/19 - 10/23). Requirements for SCR760-2, SCR760-4, and SCR760-9 finalized. SOW complete. Development in progress. Requirements for SCR760-5 in progress.	None	Inability of vendor to deliver quality software in a timely manner as scheduled.	Medium
Texas SET 4.0- Acquisition and Transfer of Customers From One REP to Another; Meter Tampering Transactional Solution	TX SET Version 4.0 is the next iteration of retail market transaction enhancements and modifications to enable more efficient transaction processing and business process solidification to be supported by the Texas Electric Retail Market. The TX SET Working Group has identified a number of Change Controls that are being assembled into a project for market-wide implementation.	Implement a solution as outlined in NPRR294 to facilitate the large transition of ESI IDs as a result of an acquisition pursuant to SUBST. R 25.493, Acquisition and Transfer of Customers from one Retail Electric Provider to Another.	Planning Phase - Complete. Internal TX SET 4.0 Business Requirements - Complete. Detail Design Documentation - Complete. Implementation Guides (DRAFT) - Complete. Test Plan - Complete. Execution Schedule - Complete. Development - In Progress. Test Script Writing - in Progress.	None	Development life cycle may take longer than planned. Software defects discovered during testing may delay releases and affect the project timelines.	Low

Projects Update

Project Name	Scope	Objectives	Current Status	Issue	Potential Risks	Risk Probability
Zonal Decommission	The complete decommission (hardware, software, network, data, instances) of all systems that will no longer be used after Nodal Go-Live.	Track and coordinate ERCOT assets (hardware, software) as they are being decommissioned or repurposed back into the ERCOT Asset pool.	Change request approved to extend project to December 31, 2011 to address the following: 1) A list of additional extracts which were missed in the initial analysis or reports and extracts need to be addressed 2) Remaining Tru64 hardware and components 3) All remaining non-EMMS hardware and components 4) Access and query capability for Outage Coordination to Outage Scheduling historic data.	None	Cognos user training to query historic TCR data.	Low
Information Lifecycle Mgmt Phase 2	Define and implement ERCOT's Information Lifecycle Management (ILM) to a defined group of Commercial System databases.	Free up usable storage quickly and control future growth rates by applying ERCOT ILM standards and policies.	For Execution 1: Testing group 2 deliverables. Continuing development of Group 3 deliverables.	None.	Delivery timelines may be impacted by resource availability. Risk probability reduced as a result of restructured execution phase.	Medium
Settlement System Upgrade	Create a custom settlement solution that can be maintained by ERCOT staff. It will include the removal of the Oracle Lodestar Billing Expert application.	Replace all Lodestar proprietary code, data structures and tools with an ERCOT supported solution that does not require a maintenance agreement with an outside vendor.	Completing work on the Conceptual Design documents and working with IT for the layout of the architecture for DEV.	None	Resource availability and delivery timelines may be impacted by stabilization, 'impact analysis' and other higher priority projects.	Medium
Data Research & Reporting	Deliver a Electric Service Identifier (ESI ID) data research and reporting tool for ERCOT Commercial Operations to provide accurate, complete and efficient reporting and research capabilities using retail transaction data.	The delivery of timely, accurate and supportable reports, creation of a framework to build additional data marts, and the assurance that the transitioned ETS data is designed to be highly reliable and recoverable, with automated auditing and notification.	User Acceptance Testing underway. Development and Support teams supporting testing activities	None	Software defects discovered during testing may impact project timelines.	Low
Data Agg Performance Improvements	ERCOT has the capability to load and process Advance Metering Systems (AMS) settlement meter data in support of market forecasts for deployment.	To stress test data agg code in an environment with similar resources as production and make any necessary improvements to data agg code to ensure data agg's ability to support the volume of AMS ESIIDS that will come over the next 10 years (Forecasted by ERCOT to be 7.4 million AMS ESIIDS).	Performance enhancements code is in Production. Tested successfully data loads simulating 6.5 million AMS ESIIDS. Currently testing replication impacts of simulated data loads.	None	Unable to resolve performance issues to meet expected volumes may impact delivery schedule.	Medium
SCR 764 Public Access to Select MIS Dashboards	Implement system changes to allow public access to a graphical view of non-confidential system conditions and pricing information for the following MIS Dashboards: • Load Forecast vs. Actual • LMP Contour Map • SCED Up/Down	<ul style="list-style-type: none"> Better understanding of market to optimize position in market. Understand interactions of different aspects of market. Restoring transparency from zonal to Nodal for market data. This does not apply to the LMP Contour Map or SCED Up/Down dashboards. Public visibility into the ERCOT System conditions. Mobile availability. 	<p>Execution underway with production implementation of first dashboard (Real Time System Conditions) in August.</p> <p>Still on scheduled to meet next go-live for Load Forecast vs. Actual dashboard the week of September 25th. Other two remaining implementations are noted below.</p> <ul style="list-style-type: none"> - SCED Up/Down Dashboard (October go-live) - LMP Ticker & LMP Contour Map Dashboards (December go-live) 	None	Development life cycle may take longer than planned. Software defects discovered during testing may delay releases and affect the project timelines.	Low

Projects Update

Project Name	Scope	Objectives	Current Status	Issue	Potential Risks	Risk Probability
NPRR320 Minimum PTP Option Bids and CRR Auction Fees	This NODAL Protocol Revision Request will charge a fee to make a bid and sets a minimum price of PTP Option bids. The revenue from the fees will be put in the Congestion Revenue Right (CRR) Balancing Account.	<ul style="list-style-type: none"> Introduces a financial incentive for CRR account holders to submit rational bids. Reduces impacts from large bid volumes cause by speculative practices. Expected to reduce the potential for ERCOT to expand the CRR System in the future due to the system limitation of 200,000 bids per auction. 	Gated to Planning. Requirements - Complete. Code - In Progress. Test Planning - In Progress	None	Development life cycle may take longer than planned. Software defects discovered during testing may delay releases and affect the project timelines.	Low
NPRR290 Publication of DAM PSS/E Files	This Nodal Protocol Revision Request (NPRR) enhances transparency of the transmission topology (including all scheduled Outages) used in the Day-Ahead Market (DAM) by requiring ERCOT to publish certain data files (in Power System Simulator for Engineering (PSS/E) format for easy review by all Market Participants with standard power flow tools such as PTI PSS/E, Power World Simulator	To provide Market Participants the transparency and ability to review the implied power flows of the DAM solution, this NPRR adds a requirement for ERCOT to post daily on the Market Information System (MIS) Public Area a package of transmission data files in PSS/E format that describe each hour's associated transmission system topology (including contingencies) and mapping of generators, Loads, transmission lines, transformers, and Hubs.	Development in progress.	None	Development life cycle may take longer than planned. Software defects discovered during testing may delay releases and affect the project timelines.	Low
NPRR343 CRR Bid and PTP Obligation Bid Criteria Change	This Nodal Protocol Revision Request (NPRR) would remove the ability to bid for Congestion Revenue Rights (CRRs) in the CRR Auction or bid for Point-to-Point (PTP) Obligations in the Day-Ahead Market (DAM) that exist entirely within a station.	<p>For the DAM - Automated posting of Electrically Similar Settlement Points built from the 0600 DAM study (supporting Power System Simulator for Engineering (PSS/E) file postings in NPRR290, ERCOT Publication of DAM PSS/E Files) – the DAM solution engine would not award those transactions inclusive of any outages received by 1000 – and automated post-DAM disclosure of the final list of Electrically Similar Settlement Points applicable to the DAM solution.</p> <p>For CRR - Modify CRR application to detect and prevent Electrically Similar Settlement Point PTP Obligation bids when the CRR Auction bid portfolio is entered by the Market Participant.</p>	Gating to Execution scheduled for September 14, 2011. Requirements - Complete. Estimates received from vendors. Will bundle release to production with NPRR290.	Might require a two phased deliver cycle for MMs and CRR based on priorities of business and vendor(s).	Joint development effort between ERCOT and (2) vendors could results in elongated break/fix cycles should issues arise during the testing cycle.	Medium
NPRR346 Removal of Redundant Posting Requirement Related to Electrical Bus Changes	This Nodal Protocol Revision Request (NPRR) removes a redundant requirement for ERCOT to produce a report regarding Electrical Bus changes. The reporting requirement in paragraph (2) of Section 3.5.1 is a redundant posting of similar information required by Section 3.5.3.1, Posting of Hub Buses and Electrical Buses included in Hubs.	To remove the redundant link, giving better visibility into the Market.	Gated to Execution. Currently being tested in iTest.	None	None	None

Projects Update

Project Name	Scope	Objectives	Current Status	Issue	Potential Risks	Risk Probability
MMS Submissions Rel. 1.1 Phase I - SCR762 Phase II - NPRR310/316 and SCR763	NPRR310 - Expand Output Schedule Acceptable Range to Include HSL & LSL NPRR316 - Negative Self-Arranged Ancillary Services SCR762 - Enable a Single Step Cancel/resubmit of Trades SCR763 - Modify COP Validation rule for responsive Reserve Services	Phase I SCR762 - modifies the Market Management System (MMS) such that submission of a trade that has already been confirmed causes the confirmed trade to be overwritten by the new submission and marked as unconfirmed. Phase II NPRR310 - updates the criteria by which Output Schedules are deemed valid to include Output Schedules that are equal in value to the Resource High Sustained Limit (HSL) and Low Sustained Limit (LSL). NPRR316 - allows Qualified Scheduling Entities (QSEs) to enter a negative value for a Self-Arranged Ancillary Service Quantity. SCR763 - modifies the existing Current Operating Plan (COP) validation to use the highest Emergency Ramp Rate value from the registered Emergency Ramp Rate curve as an input to the COP validation check of Responsive Reserve (RRS) responsibility.	Development in progress for Phase I.	None	Development life cycle may take longer than planned. Software defects discovered during testing may delay releases and affect the project timelines.	Low

Project Prioritization – 2012 Funding Summary

Project Category	Target Funding	Projects Started in Previous Years	New 2012 Projects
Regulatory	\$ 860,000	2	1
Business Strategy	\$ 7,100,000	5	15
Efficiencies & Enhancements	\$ 2,050,000	2	9
Technical Foundation	\$ 6,500,000	4	7
Total	\$ 16,510,000	13	32

ERCOT will manage within the projected \$15M project funding allocation.

As active projects move through the project lifecycle and new projects are considered for initiation, they will be reassessed for criticality, cost/benefit and resource availability against other projects in the portfolio.

Inclusion on the preliminary 2012 PPL does not guarantee funding!

2012 Project Prioritization – Regulatory

Project Category	2012 Rank	Project	2012 Budget	2013 Budget	2014 Budget	Source
Regulatory	1 *	CFTC Compliance	100k-250k	-	-	ERCOT
Regulatory	2 *	Compliance Software Tool	500k-1M	-	-	ERCOT
2012 Funding			\$860,000			

* Projected carryover project from 2011

2012 Project Prioritization – Business Strategy (page 1 of 2)

Project Category	2012 Rank	Project	2012 Budget	2013 Budget	2014 Budget	Source
Business Strategy	1 *	TX SET 4.0	\$250k-\$500k	-	-	Market
Business Strategy	2 *	SCR760 - Changes for IMM and Topology Pr	\$1M-\$2M	\$100k-\$250k	-	Market
Business Strategy	3 *	Cyber Security Project #1	\$50k-\$100k	-	-	ERCOT
Business Strategy	4 *	Cyber Security Project #2	<\$50k	-	-	ERCOT
Business Strategy	5	TSAT Wind Model	\$100k-\$250k	-	-	ERCOT
Business Strategy	6	PRR830/NPRR269 - Reactive Power Capabi	\$250k-\$500k	-	-	ERCOT
Business Strategy	7	Demand Response (Look Ahead SCED)	\$500k-\$1M	\$3M-\$5M	-	ERCOT
Business Strategy	8	Facilities Project	\$1M-\$2M	-	-	ERCOT
Business Strategy	9	Cyber Security Project #3	\$500k-\$1M	-	-	ERCOT
Business Strategy	10	Cyber Security Project #4	\$500k-\$1M	-	-	ERCOT
Business Strategy	11	NPRR347 - Single Daily Invoice	\$50k-\$100k	-	-	ERCOT
Business Strategy	12	NPRR260 - MIS Secure Access	\$100k-\$250k	-	-	Market
Business Strategy	↑ +7 13 *	MarkeTrak Upgrade/Enhancements ^{SCR756}	\$500k-\$1M	-	-	Market
Business Strategy	14	TML Transition to MIS	\$100k-\$250k	-	-	ERCOT
Business Strategy	↑ +1 15	Planning Site Transition to MIS	\$100k-\$250k	-	-	ERCOT
Business Strategy	↑ +1 16	NPRR222 - Half Hour Start Clawback	<\$50k	-	-	Market
Business Strategy	17	Cyber Security Project #5	\$100k-\$250k	-	-	ERCOT

Ranking changes by COPS
(vs. initial ERCOT proposed ranks)

September 20, 2011

* Projected carryover project from 2011



2012 Project Prioritization – Business Strategy (page 2 of 2)

Project Category	2012 Rank	Project	2012 Budget	2013 Budget	2014 Budget	Source
Business Strategy	18	NPRR326 - Adjust Real-Time SPP Calc.	<\$50k	-	-	ERCOT
Business Strategy	19	NPRR272 - Quick Start Resources	\$100k-\$250k	-	-	ERCOT
Business Strategy	20	NPRR207 - Unit Deselection	\$50k-\$100k	-	-	Market
Business Strategy	21	Cert. Data Product Subscription Stand.	-	\$100k-\$250k	-	ERCOT
Business Strategy	22	EPS Metering DB Redesign	-	\$250k-\$500k	-	ERCOT
Business Strategy	23	NPRR181: FIP Definition Revision	-	\$100k-\$250k	-	Market
Business Strategy	24	NPRR210: Wind Forecasting Change to P50	-	<\$50k	-	Market
Business Strategy	25	NPRR241: AIL Calc & Credit Reports Publish	-	\$100k-\$250k	-	Market
Business Strategy	26	NPRR256: Sync with PRR787, Add Non-Com	-	\$100k-\$250k	-	Market
Business Strategy	27	NPRR240 - Proxy Energy Offer Curve	-	<\$50k	-	Market
Business Strategy	28	Incremental Update Capability - Phase 2	-	\$1M-\$2M	\$1M-\$2M	ERCOT
Business Strategy	29	MP Online Data Entry - Ph 2	-	\$1M-\$2M	-	ERCOT
Business Strategy	30	MP Online Data Entry - Ph 3	-	-	\$1M-\$2M	ERCOT
Business Strategy	31	NPRR257: Sync with NOG Section 9	-	-	-	ERCOT
Business Strategy	32	SCR755: ERCOT.com Website Enhancement	-	-	-	Market
Business Strategy	33	NOGRR034: Rescind Telemetry Perf Calc Ex	-	-	-	Market

2012 Funding

\$7,100,000



2012 Project Prioritization – Efficiencies and Enhancements

Project Category	2012 Rank	Project	2012 Budget	2013 Budget	2014 Budget	Source
Efficiencies/Enhancements	1 *	Incremental Update Capability - Phase 1	\$100k-\$250k	-	-	ERCOT
Efficiencies/Enhancements	2	MP Online Data Entry - Ph 1	\$500k-\$1M	-	-	ERCOT
Efficiencies/Enhancements	3 *	CMS and MIR replacement	\$250k-\$500k	\$500k-\$1M		ERCOT
Efficiencies/Enhancements	4	ERCOT Website Enhancements - 2012	\$250k-\$500k	-	-	ERCOT
Efficiencies/Enhancements	5	Macomber Map NERC SA/Compliance Enh	\$250k-\$500k	-	-	ERCOT
Efficiencies/Enhancements	6	IGRID Implementation	<\$50k	-	-	ERCOT
Efficiencies/Enhancements	7	Contingency Functionality Enhmts.	<\$50k	-	-	ERCOT
Efficiencies/Enhancements	8	SMTNET Improvements	\$50k-\$100k	-	-	ERCOT
Efficiencies/Enhancements	9	MP Communications Tool	\$50k-\$100k	-	-	ERCOT
Efficiencies/Enhancements	10	Smartphone Interface ("MyGrid")	\$100k-\$250k	-	-	ERCOT
Efficiencies/Enhancements	11	OA Grid Health Operator View	<\$50k	-	-	ERCOT
Efficiencies/Enhancements	12	Secure File Transfer	-	\$50k-\$100k	-	ERCOT
Efficiencies/Enhancements	13	EMAIL and View by Protocol Enh.	-	\$100k-\$250k	-	ERCOT
Efficiencies/Enhancements	14	Replace N2N System	-	\$50k-\$100k	-	ERCOT
Efficiencies/Enhancements	15	Contract Mgmt Software	-	\$100k-\$250k	-	ERCOT
Efficiencies/Enhancements	16	Voice Analytics	-	\$100k-\$250k	-	ERCOT
Efficiencies/Enhancements	17	OTS Enhancements	-	\$100k-\$250k	-	ERCOT
Efficiencies/Enhancements	18	ERCOT Website Enhancements - 2013	-	\$100k-\$250k	-	ERCOT
Efficiencies/Enhancements	19	ERCOT Website Enhancements - 2014	-	-	\$100k-\$250k	ERCOT



2012 Project Prioritization – Technical Foundation

Project Category	2012 Rank	Project	2012 Budget	2013 Budget	2014 Budget	Source
Technical Foundation	1	Data Center Migration	100k-250k	-	-	ERCOT
Technical Foundation	2	Minor Cap - Critical - 2012	*500k-1M	-	-	ERCOT
Technical Foundation	3	ILM	500k-1M	-	-	ERCOT
Technical Foundation	4	Settlement Upgrade	1M-2M	1M-2M	-	ERCOT
Technical Foundation	5	Oracle 11g Upgrade	*1M-2M	-	-	ERCOT
Technical Foundation	6	EMS Upgrade	*1M-2M	3M-5M	3M-5M	ERCOT
Technical Foundation	7	Enterprise DW Platform Transition	500k-1M	3M-5M	-	ERCOT
Technical Foundation	8	UC4 (AppWorx) Automation Upgrade v8	*100k-250k	-	-	ERCOT
Technical Foundation	9	Siebel Upgrade 8.x	500k-1M	-	-	ERCOT
Technical Foundation	10	NMMS Upgrade	100k-250k	-	-	ERCOT
Technical Foundation	11	DC Growth & Asset Replacement - 2012	500k-1M	500k-1M	-	ERCOT
Technical Foundation	12	CRR Upgrade to v12.3	-	100k-250k	-	ERCOT
Technical Foundation	13	Cognos 10.x Upgrade	-	500k-1M	-	ERCOT
Technical Foundation	14	Capacity growth - storage/comp.	-	250K-500K	-	ERCOT
Technical Foundation	15	UC4 Automation Upgrade v9	-	250K-500K	-	ERCOT
Technical Foundation	16	Upgrade Siteminder	-	50K-100K	-	ERCOT
Technical Foundation	17	Replace Sun DSEE	-	500k-1M	500k-1M	ERCOT
Technical Foundation	18	Replace Sun IDM	-	500k-1M	500k-1M	ERCOT
Technical Foundation	19	REC Enhancements	-	500k-1M	-	ERCOT
Technical Foundation	20	Minor Cap - Critical - 2013	-	1M-2M	-	ERCOT
Technical Foundation	21	Minor Cap - Critical - 2014	-	-	1M	ERCOT
Technical Foundation	22	Minor Cap - Critical - 2015	-	-	-	ERCOT
Technical Foundation	23	DC Growth & Asset Replacement - 2013	-	1M-2M	-	ERCOT
Technical Foundation	24	DC Growth & Asset Replacement - 2014	-	-	3M-5M	ERCOT
Technical Foundation	25	DC Growth & Asset Replacement - 2015	-	-	-	ERCOT
Technical Foundation	n/a	Minor Cap - Critical - 2010	-	-	-	ERCOT
Technical Foundation	n/a	Minor Cap - Critical - 2011	-	-	-	ERCOT
Technical Foundation	n/a	Annual Storage Growth	-	-	-	ERCOT
Technical Foundation	n/a	AMS Performance	-	-	-	ERCOT
Technical Foundation	n/a	Likewise Upgrade	-	-	-	ERCOT
Technical Foundation	n/a	Fire Alarm Upgrade	-	-	-	ERCOT



Summary of Defects by Target Delivery (Stabilization & Deferred) (as of 9/7/2011)

Summary of Defects by Target Delivery									
System	Open Stabilization Priority 2 Target September 2011	Deferred Defects Priority 3					Priority 4 & 5 Defects (Potential Future Work)		Total Defects
		Group 7 9/2011	Group 8 10/2011	Group 9 12/2011	Unassigned	Total	Deferred Defects	Stabilization	
<i>MMS</i>	19		14	2	2	18	15	51	103
<i>EMS</i>	15	4	9	2	74	89	221	67	392
<i>COMS</i>	7	5	7		3	15	13	22	57
<i>CMM</i>	3	3				3	2		8
<i>NMMS</i>			10			10	28	6	44
<i>OS</i>		2	3			5	5	4	14
<i>CRR</i>	2					0	3	13	18
<i>MIS</i>						0	3	12	15
<i>CDR</i>			1			1		2	3
<i>EIS(EDW)</i>						0	2	1	3
<i>EIP</i>			2			2	5	8	15
<i>MPIM</i>						0		1	1
<i>Planning Model</i>					2	2	1	4	7
Total	46	14	46	4	81	145	298	191	680

Summary Stabilization & Deferred Defect Changes (as of 9/7/2011)

	Dec 03 to Jan 07	Jan 08 to Feb 03	Feb 04 to Feb 28	Mar 01 to Mar 31	Apr 01 to May 06	May 06 to Jun 08	Jun 09 to Jul 07	Jul 08 to Aug 04	Aug 05 to Sept 07
Stabilization defects (changes since last report)									
New Priority 1, 2 Defects	111	56	86	26	46	40	20	10	14
New Deferred Defects	92	95	38	105	97	84	37	59	53
Defects Resolved	90	51	60	133	82	109	67	59	41
Deferred defects (changes since last report)									
Defects Resolved	83	41	9	45	47	31	17	6	11

Forecast for September Release (as of 9/7/2011)

Breakout of September Release			
Project	Internal	Market Facing	Total
Stabilization defects	45	1	46
Deferred defects	14		14
Total	59	1	60