

**The Human Resources and Governance (HR&G) Committee is expected to consider HR&G Committee Agenda Item 6.2:**

***Recommendation Regarding  
Proposed 2018 ERCOT KPIs***

**at its meeting on December 11, 2017.**

**The Board of Directors is expected to hear the HR&G Committee's recommendation on this matter as part of the HR&G Committee Report at the Board meeting on December 12, 2017.**

**Attached are the Committee and Board materials in relation to these agenda items.**



# **Item 6.2: Recommendation Regarding Proposed 2018 ERCOT KPIs**

*Betty Day*

Vice President, Governance Risk & Compliance

Human Resources and Governance Committee  
Meeting

ERCOT Public

December 11, 2017

# 2018 Key Performance Indicators (KPIs)

- Maintain 29 Board reported KPIs and 22 internal KPIs

Year	Total KPIs	Reported to Board	Tracked Internally
2011	77	77	0
2012	70	70	0
2013	67	67	0
2014	61	30	31
2015	53	30	23
2016	52	30	22
2017	51	29	22
2018	51	29	22

- Proposed revisions to ten KPIs:
  - Two edits revise target and/or stretch metric:
    - RG5, Wind forecast performance
    - EM\_i 15, CRR auction postings
  - Six administrative edits to description and/or metric language
  - Two revisions clarify the description for dispute management and client service internal KPIs

# 2018 KPI Recommendation – Reliable Grid

KPI Identifier	Executive	Capability	KPI Description	Target	Stretch
RG 1	Rickerson	Grid Security Management / <del>Real Time System Control / Scheduling &amp; Dispatch</del>	Control Performance Standard 1 (CPS1) frequency control performance (rolling 12 month CPS1 score)	> 140	> 150
RG 2	Rickerson	Grid Security Management / <del>Real Time System Control / Scheduling &amp; Dispatch</del>	Interconnection Reliability Operating Limit (IROL) exceedance limitations	None longer than 20 minutes	None longer than 10 minutes
RG 3	Rickerson	Outage Coordination / Planning	Outage Coordination performance: requests approved or denied within timeline and with mitigation plans developed if required	97%	99%
RG 4	Rickerson	Forecasting	Operations Load Forecast performance - Mean Average Percent Error (MAPE): monthly average day ahead load forecasts used for DRUC MAPE	All less than 4.0%	All less than 3.5%
RG 5	Rickerson	Forecasting	Wind forecast performance - MAPE based on installed wind capacity: monthly average day ahead wind forecasts used for DRUC MAPE	All less than <del>15%</del> <u>10%</u>	All less than <del>10%</del> <u>8%</u>
RG 6	Day	Compliance Monitoring & Reporting	Achieve compliance with NERC/FERC Standards	No significant violations found in a NERC Compliance <del>Audit</del> <u>Engagement</u>	N/A
RG 7	N/A	N/A	RG7 intentionally left blank	N/A	N/A
RG 8	Day	Compliance Monitoring & Reporting	Achieve compliance with <del>SSAE16</del> <u>SOC</u> controls	No exceptions found in an <del>SSAE16</del> <u>SOC</u> audit	N/A
RG 9	Dreyer	IT Application Services	Energy Management System Tier 1 Aggregate Availability	All Tier 1 systems meet or exceed defined SLAs	N/A
RG 10	Dreyer	IT Application Services	Energy Management System Tier 2 Aggregate Availability	Achieve 99.9% availability for 10 of 11 Tier 2 systems	Achieve 99.9% availability for all Tier 2 systems
RG 11	Dreyer	IT Application Services	Security Constrained Economic Dispatch (SCED) Availability	99.95%	100%
RG 12	Dreyer	IT Application Services	Security Constrained Economic Dispatch (SCED): number of unplanned outages greater than 30 consecutive minutes (per quarter)	Zero	N/A
RG 13	Dreyer	IT Application Services	Outage Scheduler Availability	99%	99.5%
RG 14	Dreyer	IT Application Services	Network Model Management System (NMMS) Availability	99%	99.5%

# 2018 KPI Recommendation – Reliable Grid (Internal)

KPI Identifier	Executive	Capability	KPI Description	Target	Stretch
RG_i 15	Dreyer	IT Application Services	HRUC executed every hour: percent of complete HRUC's per month, including ones missed due to database loads and site failover	99%	99.5%
RG_i 16	Dreyer	IT Application Services	No loss of VSAT/TSAT application functionality for 30 continuous minutes or longer, excluding invalid solutions due to State Estimator dependencies and planned site failovers	3 per Quarter	1 per Quarter
RG_i 17	Rickerson	System Planning	Regional Planning project Review Studies completed on time without substantive error	95% complete on time or no more than 1 late if less than 20 projects.	99% complete on time.
RG_i 18	Rickerson	Transmission Connection Management	Generation Interconnection Request (GIR) screening studies completed on time without errors	95% completed on time or no more than 1 late if less than 20 GIRs	100% completed on time
RG_i 19	Rickerson	Compliance Monitoring & Reporting	Required Planning Report performance	No more than two reports required by PUCT Rule, DOE project, NERC or State law filed late or with error.	100% of reports required by PUCT Rule, DOE project, NERC or State law completed on time without errors.

# 2018 KPI Recommendation – Efficient Markets

KPI Identifier	Executive	Capability	KPI Description	Target	Stretch
EM 1	Ogelman	Bidding, Scheduling & Pricing	DAM quality of solution as measured with price corrections: percent of hourly prices requiring DAM price correction	1-3 % of time	< 1 % of time
EM 2	Ogelman	Bidding, Scheduling & Pricing	SCED solution is solved and posted: percent of 15-minute Settlement Interval prices where price corrections are performed	0.5% -- 1%	< 0.5%
EM 3	Ogelman	Settlement & Billing	Achieve timely settlements, per Protocol defined timelines	99%	100%
EM 4	Ogelman	Settlement & Billing	Perform accurate settlements as measured by the percent of Operating Day and operating month settlement that does not require a correction as a result of an error in the settlement and billing systems or processes	98%	99.9%
EM 5	Ogelman	Market Credit	Credit reports are correct and posted in a timely manner	98%	100%
EM 6	Gage	Market Information	Wholesale extracts available per Protocol timelines	98%	99%
EM 7	Dreyer	IT Application Services	Congestion Revenue Rights (CRR) Availability	99%	99.5%
EM 8	Dreyer	IT Application Services	Market Management System Aggregate Availability	99%	99.5%

# 2018 KPI Recommendation – Efficient Markets (Internal)

KPI Identifier	Executive	Capability	KPI Description	Target	Stretch
EM_i 9	Ogelman	Bidding, Scheduling & Pricing	Percent of days with successful DAM execution solution completed and posted successfully	100%	n/a
EM_i 10	Ogelman	Bidding, Scheduling & Pricing	DAM executions completed in acceptable timeframe: percent of days with posting solution before 1600	98%	100%
EM_i 11	Ogelman Rickerson	Bidding, Scheduling & Pricing	Ancillary Services Requirements posted for the year	Posted by December 20th of the previous year for the current year	N/A
EM_i 12	Ogelman	Wholesale Metering, Data Collection & Data Aggregation	AMS interval data is loaded into ERCOT systems by final settlement from the MRE in accordance with Protocols for data loading	99%	99.75%
EM_i 13	Ogelman	Wholesale Metering, Data Collection & Data Aggregation	IDR meter data is loaded into ERCOT systems by true-up settlement from the MRE in accordance with Protocols for settlement	99%	99.75%
EM_i 14	Ogelman	Wholesale Metering, Data Collection & Data Aggregation	EPS meter data is accurate and complete as measured by the percent of data that doesn't change after an initial settlement	99%	99.9%
EM_i 15	Ogelman	CRR Management	CRR auctions are performed according to Nodal Protocols Requirements (7.5.1). CRR auctions results are validated and posted as required by the CRR Activity Calendar.	All Monthly Auctions and LTASs are posted on time per the CRR Activity Calendar	<del>All Monthly Auctions are posted on time and all LTASs are posted one week earlier than required by the CRR Activity Calendar</del> N/A
EM_i 16	Gage	Dispute Management	Process disputes <u>within protocol timelines in time for resolution by the next available settlement statement per Protocol timelines or Client Services resolution targets</u>	98%	100%
EM_i 17	Gage	Client Services	<u>Establish and Maintain Account Plans and execute per guidelines and schedule. Complete Market Participant outreach (site visits, WebEx, telephone or email) according to Client Services annual outreach plan</u>	98%	100%
EM_i 18	Gage	Account Management	Achieve "Very Satisfied" or "Satisfied" ratings on annual survey of Account Management services	90% satisfied or highly satisfied	95% satisfied or highly satisfied

# 2018 KPI Recommendation – Open Access & Retail Choice (Board & Internal)

KPI Identifier	Executive	Capability	KPI Description	Target	Stretch
OARC 1	Ogelman	Customer Switching / Registry	Conduct retail transaction processing per Protocol timelines	98%	99%
OARC 2	Ogelman	Customer Switching / Registry	End use customer switch notifications processed per PUCT rules	99%	100%
OARC 3	Gage	Market Information	Retail extracts available per Protocol timelines	98%	99%
OARC 4	Dreyer	IT Application Services	Retail Processing Availability - Bus. Hours	99.9%	99.95%
OARC 5	Dreyer	IT Application Services	Market Information System (MIS) Availability	99%	99.5%
OARC_i 6	Dreyer	IT Application Services	Retail Processing Availability - Non bus. Hours	99%	99.5%
OARC_i 7	Dreyer	IT Application Services	Retail API Availability	99%	99.5%
OARC_i 8	Dreyer	IT Application Services	MarkeTrak Availability	99%	99.5%
OARC_i 9	Ogelman	Dispute Management	Manage retail transaction issues and disputes within defined timelines	96%	98%



# 2018 KPI Recommendation – Other Support & Management Functions (Board & Internal)

KPI Identifier	Executive	Capability	KPI Description	Target	Stretch
OSM 1	Petterson	Finance	Manage spending to be equal to or less than the board-approved expenditure budget <del>for 2016</del>	Between 0 -- 5% favorable variance	n/a
OSM 2	Day	Security	Maintain ERCOT ISO's security posture against cyber security threats as defined in the Security Incident Response Plan	Zero externally reportable cyber security incidents	N/A
OSM 3	Day	Security	Maintain ERCOT ISO's security posture against physical security threats as defined in the Security Incident Response Plan	Zero externally reportable physical security incidents	N/A
OSM_i 4	Dreyer	IT Application Services	Operate data centers providing availability consistent with data center designed objectives	99.98%	100%
OSM_i 5	Magness	Internal Audit	Execute the Internal Audit Plan as approved by the Finance and Audit Committee having all audit projects in process by end of year	100% in process by year end	N/A
OSM_i 6	Gage	Corporate Communications	ERCOT Energy Emergency Alert Communications -- Corporate Communications provides follow-up communications and media/public notifications per Crisis Communications Procedure	100%	N/A



**Date:** December 5, 2017  
**To:** Board of Directors  
**From:** Bill Magness, President and Chief Executive Officer  
**Subject:** 2018 ERCOT Key Performance Indicators (KPIs)

**Issue for the ERCOT Board of Directors**

**ERCOT Board of Directors Meeting Date:** December 12, 2017

**Item No.:** 11.1

**Issue:**

Whether the Board of Directors (Board) of Electric Reliability Council of Texas, Inc. (ERCOT) should approve the 2018 ERCOT KPIs as recommended by ERCOT staff.

**Background/History:**

The ERCOT leadership team annually develops specific key performance indicators and corresponding target metrics to drive performance of the organization. The indicators, along with their specific measurements are outlined in the 2018 KPIs. The KPIs are reviewed on a quarterly basis and are used to measure the successful performance of the organization. It is important that the leadership team and the ERCOT Board of Directors (Board) are aligned on the specific goals and focus of ERCOT for 2018.

The Human Resource and Governance (HR&G) Committee will be considering whether to recommend that the Board approve the 2018 KPIs as presented at its meeting on December 11, 2017. A copy of the proposed 2018 KPI recommendation is attached hereto as Attachment A.

**Key Factors Influencing Issue:**

The 2018 KPIs correlate to ERCOT's strategic direction of the Board and provide performance measures to the Board and ERCOT leadership and staff.

**Conclusion/Recommendation:**

The ERCOT leadership team recommends that the HR&G Committee recommend approval and that the ERCOT Board approve the 2018 KPIs as presented.



**ELECTRIC RELIABILITY COUNCIL OF TEXAS, INC.**  
**BOARD OF DIRECTORS RESOLUTION**

WHEREAS, after due consideration of the alternatives, the Board of Directors (Board) of Electric Reliability Council of Texas, Inc. (ERCOT) deems it desirable and in the best interest of ERCOT to accept the recommendations of ERCOT staff and the Human Resources and Governance Committee to approve the 2018 ERCOT Key Performance Indicators (KPIs) attached hereto as Attachment A.

THEREFORE, BE IT RESOLVED, that the 2018 ERCOT KPIs, attached hereto as Attachment A, are hereby authorized and approved.

**CORPORATE SECRETARY'S CERTIFICATE**

I, Vickie G. Leady, Assistant Corporate Secretary of ERCOT, do hereby certify that, at its December 12, 2017 meeting, the ERCOT Board passed a motion approving the above Resolution by \_\_\_\_\_.

IN WITNESS WHEREOF, I have hereunto set my hand this \_\_\_\_ day of December, 2017.

\_\_\_\_\_  
Vickie G. Leady  
Assistant Corporate Secretary

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RG 4	Rickerson, Woody	Forecasting	Operations Load Forecast performance - Mean Average Percent Error (MAPE): monthly average day ahead load forecasts used for DRUC MAPE	All less than 4.0%	All less than 3.5%
RG 5	Rickerson, Woody	Forecasting	Wind forecast performance - MAPE based on installed wind capacity: monthly average day ahead wind forecasts used for DRUC MAPE	All less than <del>15%-10%</del>	All less than <del>10% 8%</del>
RG 6	Day, Betty	Compliance Monitoring & Reporting	Achieve compliance with NERC/FERC Standards	No significant violations found in a NERC Compliance <del>Audit-Engagement</del>	N/A
RG 7 - Deleted		N/A	N/A	N/A	N/A
RG 8	Day, Betty	Compliance Monitoring & Reporting	Achieve compliance with <del>SSAE16 SOC</del> controls	No exceptions found in an <del>SSAE16 SOC</del> audit	N/A
RG 9	Dreyer, Jerry	IT Application Services	Energy Management System Tier 1 Aggregate Availability	All Tier 1 systems meet or exceed defined SLAs (99.90%)	N/A
RG 10	Dreyer, Jerry	IT Application Services	Energy Management System Tier 2 Aggregate Availability	Achieve 99.9% availability for 10 of 11 Tier 2 systems	Achieve 99.9% availability for all Tier 2 systems
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EM_i 11	<del>Ogelman, Kenan,</del> Rickerson, Woody	Bidding, Scheduling & Pricing	Ancillary Services Requirements posted for the year	Posted by December 20th of the previous year for the current year	N/A
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OSM 3	Day, Betty	Security	Maintain ERCOT ISO's security posture against physical security threats as defined in the Security Incident Response Plan	Zero externally reportable physical security incidents	N/A
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