

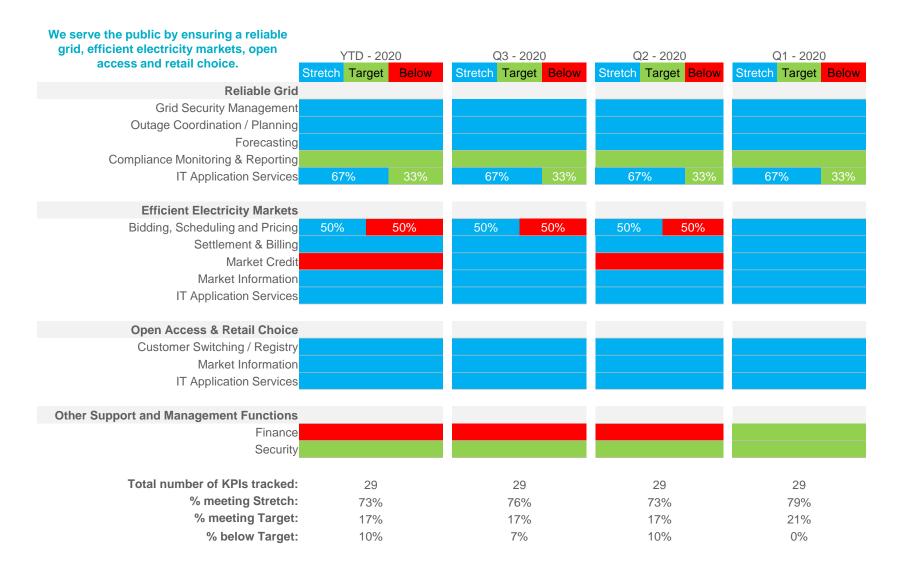
Item 5.1: Q3 2020 Key Performance Indicators (KPIs) Review

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Urgent Human Resources and Governance Committee Meeting

ERCOT Public December 7, 2020

Q1 – Q3 2020 Key Performance Indicator (KPI) Summary





Appendix:



Q1- Q3 2020 KPI Detail – Reliable Grid

KPI ID	KPI Description	2020 Target Performance	2020 Stretch Performance	2020 YTD	Q3	Q2	Q1			
Grid Security Management										
RG 1	Control Performance Standard 1 (CPS1) frequency control performance (rolling 12 month CPS1 score)	> 140	> 150	All scores greater than 150	Jul-168.30%, Aug-170.50%, Sep-173.60%	April-168.90%, May-170.80%, June-170.70%	Jan-174.86%, Feb-174.80%, March-174.51%			
RG 2	Interconnection Reliability Operating Limit (IROL) exceedance limitations	None longer than 20 minutes	None longer than 10 minutes	No IROL exceedances	No IROL exceedances	No IROL exceedances	No IROL exceedances			
Outage Co	pordination / Planning									
RG 3	Outage Coordination performance: requests approved or denied within timeline and with mitigation plans developed if required	97%	99%	99.69%	99.92%	99.80%	99.34%			
Forecastir	ng	1								
RG 4	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%	2.63%	2.26%	3.22%	2.42%			
RG 5	Wind forecast performance - MAPE based on installed wind capacity: monthly average day ahead wind forecasts used for DRUC MAPE	All less than 10%	All less than 8%	All less than 8%	Jul-4.60%, Aug-4.40%, Sep-3.40%	April-4.50%, May-4.50%, June-4.80%	Jan-4.00%, Feb-4.10%, March-5.10%			
RG 6	Solar forecast performance - MAPE based on installed solar capacity: monthly average day ahead solar forecasts used for DRUC MAPE.	All less than 15%	All less than 10%	All less than 10%	Jul-5.40%, Aug-5.24%, Sep-6.76%	April-5.01%, May-6.79%, June-5.01%	Jan-5.82%, Feb-5.77%, March-7.37%			
Compliand	Compliance Monitoring & Reporting									
RG 8	Achieve compliance with SOC controls	No exceptions found in a SOC audit	N/A	No exceptions found in a SOC audit	No exceptions found in an SOC audit	No exceptions found in a SOC audit	No exceptions found in a SOC audit			



RG7 is intentionally left blank.

Q1- Q3 2020 KPI Detail – Reliable Grid

KPI ID	KPI Description	2020 Target Performance	2020 Stretch Performance	2020 YTD	Q3	Q2	Q1
IT Applic	ation Services						
RG 9	Energy Management System Tier 1 Aggregate Availability	All Tier 1 systems meet or exceed defined SLAs (99.90%)	N/A	100%	100%	100%	100%
RG 10	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	100%	100%	100%	100%
RG 11	Security Constrained Economic Dispatch (SCED) Availablity	99.95%	100%	100%	100%	100%	100%
RG 12	Security Constrained Economic Dispatch (SCED): number of unplanned outages greater than 30 consecutive minutes (per quarter)	Zero	N/A	Zero	Zero	Zero	Zero
RG 13	Outage Scheduler Availability	99%	99.5%	100%	100%	100%	100%
RG 14	Network Model Management System (NMMS) Availability	99%	99.5%	100%	100%	100%	100%



Q1- Q3 2020 KPI Detail – Efficient Electricity Markets

KPI ID	KPI Description	2020 Target Performance	2020 Stretch Performance	2020 YTD	Q3	Q2	Q1			
Bidding,	Bidding, Scheduling and Pricing									
EM 1	DAM quality of solution as measured with price corrections: percent of hourly prices requiring DAM price correction	1-3 % of time	< 1 % of time	6.19%	7.87%	10.45%	0.25%			
EM 2	SCED solution is solved and posted: percent of 15-minute Settlement Interval prices where price corrections are performed. This measure includes corrections from routine work (e.g., database loads and site failover)	0.25% - 1%	<0.25%	0.04%	0.09%	0.02%	0.00%			
Settleme	nt & Billing									
EM 3	Achieve timely settlements per Protocol defined timelines	99%	100%	100%	100%	100%	100%			
EM 4	Perform accurate settlements as measured by the percent of statements/invoices that do not require a correction as a result of an error in the settlement and billing systems or processes	98%	99.9%	99.95%	99.94%	99.90%	100%			
Market C	redit									
EM 5	Credit reports are correct and posted in a timely manner	98%	100%	98.41%	99.94%	95.30%	100%			
Market In	Market Information									
EM 6	Wholesale extracts available per Protocol timelines	98%	99%	99.96%	99.96%	99.96%	99.98%			
T Application Services										
EM 7	Congestion Revenue Rights (CRR) Availability	99%	99.5%	100%	100%	100%	100%			
EM 8	Market Management System Aggregate Availability	99%	99.5%	100%	100%	100%	100%			



Q1- Q3 2020 KPI Detail - Open Access & Retail Choice

KPI ID	KPI Description	2020 Target Performance	2020 Stretch Performance	2020 YTD	Q3	Q2	Q1		
Customer	Customer Switching / Registry								
OARC 1	Conduct retail transaction processing per Protocol timelines	98%	99%	99.86%	99.64%	99.99%	99.94%		
OARC 2	End use customer switch notifications processed per PUCT rules	99%	100%	100%	100%	100%	100%		
Market Inf	Market Information								
OARC 3	Retail extracts available per Protocol timelines	98%	99%	100%	100%	100%	100%		
IT Applica	IT Application Services								
OARC 4	Retail Processing Availability - Business Hours	99.90%	99.95%	100%	100%	100%	100%		
OARC 5	Market Information System (MIS) Availability	99%	99.5%	99.95%	99.99%	99.88%	99.97%		



Q1- Q3 2020 KPI Detail - Other Support & Management Functions

KPI ID	KPI Description	2020 Target Performance	2020 Stretch Performance	2020 YTD	Q3	Q2	Q1
Finance							
OSM 1	Manage spending to be equal to or less than the board-approved expenditure budget	Between 0 - 5% favorable variance	N/A	-0.10%	6.30%	-9.10%	2.50%
Security							
OSM 2	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	Zero externally reportable cyber security incidents	Zero externally reportable cyber security incidents		Zero externally reportable cyber security incidents
OSM 3	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	Zero externally reportable physical security incidents			

