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# **ERCOT 2015 West Texas Study (WTS) Update**

RPG Meeting - April 21, 2015

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# Study Objective

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- Identify transmission needs in West Texas using latest load forecast data
- Develop comprehensive transmission plan to address identified needs through 2020

# Load Forecast Data

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- West Texas Oil and gas industry provided latest load forecast data to TDSPs and ERCOT – end of January
- TDSPs translated the load forecast data and provided model updates (idevs) to ERCOT – end of February

# WTS Base Case Development

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- Used final WFW reliability cases from 2014 RTP for years 2017, 2019, and 2020 as the start cases
- Updated load forecast data and system topology for West and Far West
- Updated generation per latest GINR information
- WTS base cases completed for 2017 and 2019

# WTS 2017 Base Case

- Final summer peak cases from the 2014 RTP with an updated load forecast from the TDSPs
- Total load increase of approximately 1350 MW in West and Far West regions

Case	West (MW)	Far West (MW)
2017 (RTP)	2410	3322
2017 WTS	2324	4760

TSP	West (MW)	Far West (MW)
AEP	-57	69
GSEC	-39	-16
LCRA	-17	0
Oncor	35	839
Sharyland	-8	413
TNMP	0	134

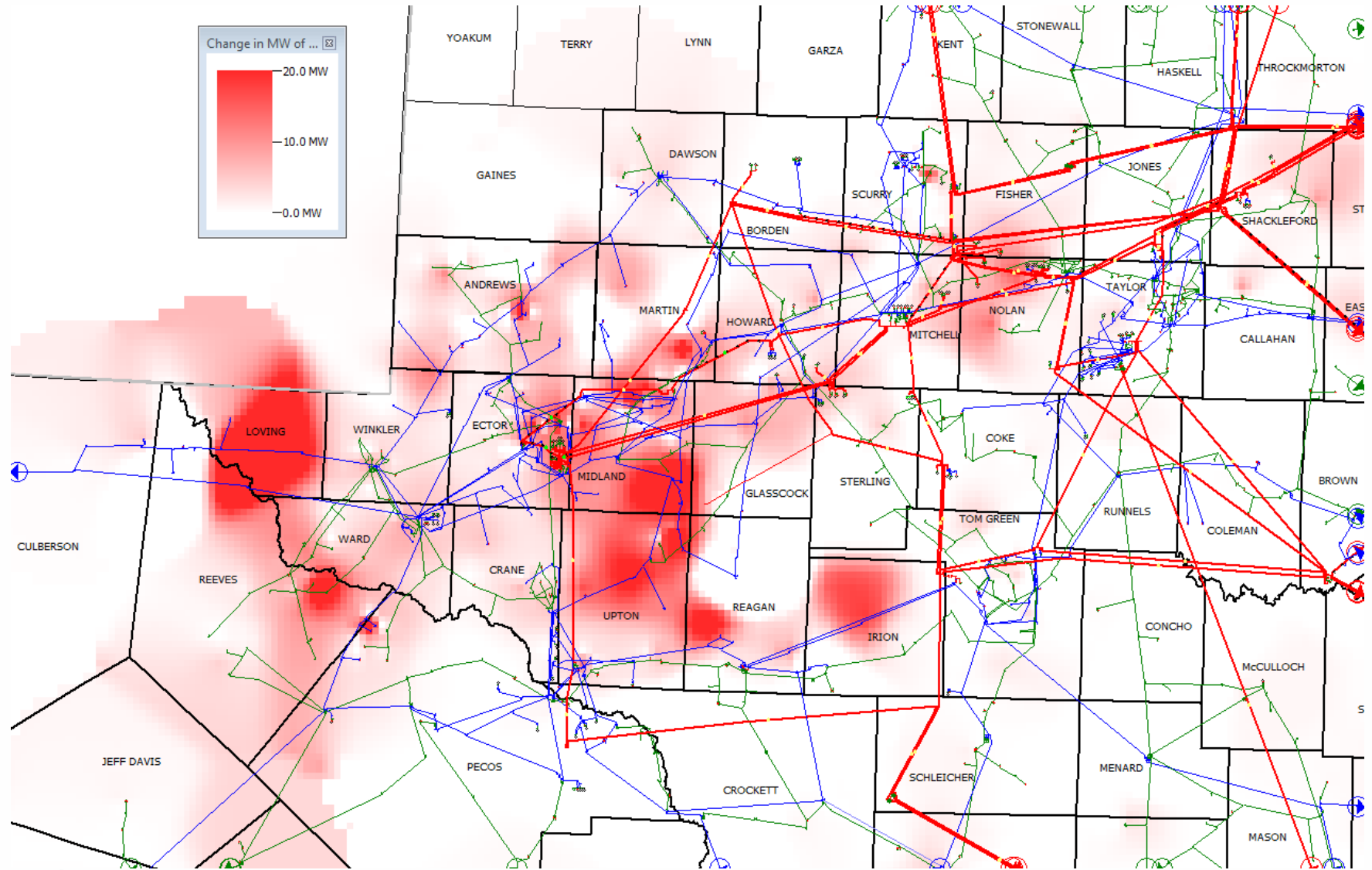
# WTS 2019 Base Case

- Final summer peak cases from the 2014 RTP with an updated load forecast from the TDSPs
- Total load increase of approximately 1800 MW in West and Far West regions

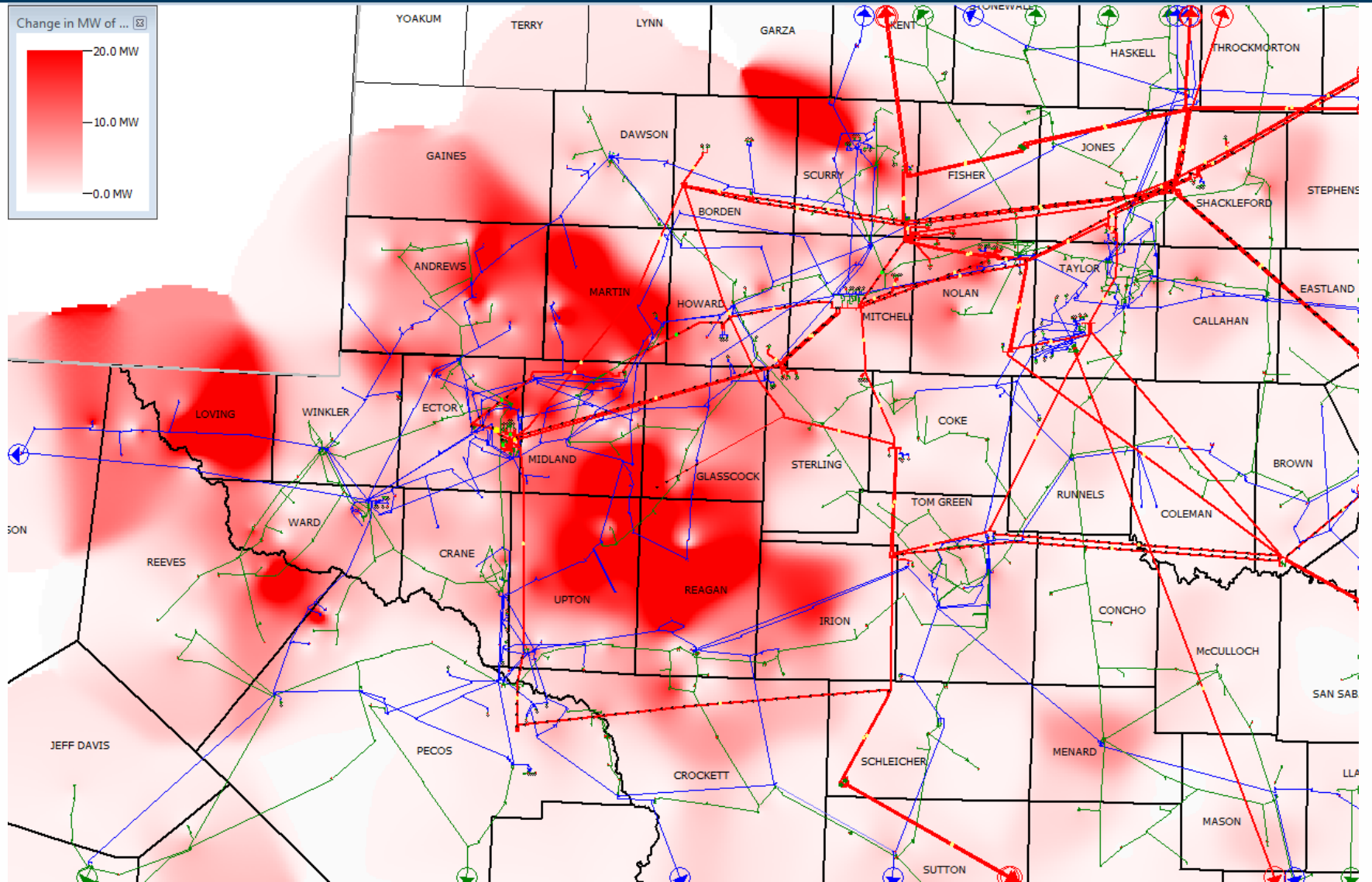
Case	West (MW)	Far West (MW)
2019 (RTP)	2488	3586
2019 WTS	2402	5495

TSP	West (MW)	Far West (MW)
AEP	-45	112
GSEC	-53	-10
LCRA	-20	0
Oncor	44	1068
Sharyland	-12	609
TNMP	0	130

# 2017 WTS load increase compared to 2014 RTP



# 2019 WTS loads increase compared to 2014 RTP





# Tentative Timeline

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- Complete the preliminary steady state analysis for 2017 & 2019 – June 2015
- Complete reliability analysis (identify projects), complete economic analysis and other sensitivity analysis – Aug. 2015
- Final report with project recommendations – 3<sup>rd</sup> quarter of 2015

