ONCOR FAR WEST TX STUDY UPDATE

RPG Meeting - Webex December 15, 2020

Assets Planning Business and Operations Support Oncor Electric Delivery Co LLC



IHS Markit Study Scope

- Provide a comprehensive 10 year forecast
- Area covers the Far West Weather Zone, plus six adjacent productive counties
- Electric load forecast based on:
 - Geology and resource assessment
 - Industry intelligence
 - Oil and gas expertise
 - Commercial considerations
 - Translations of historical and forecasted oil and gas activities into electric load demands





Permian Basin: oil production history and forecast to 2030 – includes massive new cost-effective resource

- Texas portion of Permian Basin oil production expected to grow over 50% by 2030 from 3.8 MMbbls/day (end of 2019) to 5.8 MMbbls/day
- Technology advances in the last decade have unlocked approximately 78 billion barrels of previously non-commercial unconventional resource potential
- Expansive drilling opportunities at low breakeven prices in the Midland and Delaware Basins drives production growth and future power demand





IHS Markit - industry driven bottom-up approach





Building an industrial power forecast at the County Level





Combined I-R-C peak load demand forecast – to nearly double by 2030

- The Delaware and Midland basins are experiencing rising power demand, driven by the steadily rising industrial loads due to ongoing and forecasted increases in oil and gas activity
- Overall, only 79% of oil and gas operations are currently being met by the grid, but in the burgeoning Delaware Basin only 61% is being met by the grid
- Industrial power demand currently comprises 70% of the 5,160 MW of the peak load, and is projected to account for 86% of the 10,200 MW of peak load by 2030
- Conservative demand assumptions feedback from some oil and gas companies suggests IHS power estimates may be low





Granular projection data through 2030 - MW by square mile





Substation and transmission plan methodology



Impact of Covid-19 on power demand is limited, and US WTI long-term price outlook projects sustained growth

- Load forecast was issued in March and intended to be a long term forecast
 - Recent decreases in the Permian Basin are typical of other US basins and many other areas of the world that have been forced to reduce oil output – however, 40-45% of all O&G capital investment in the USA is projected to be in the Permian Basin
 - Much of Permian production breaks even at under \$45/bbl, and with prices expected to average about ~\$47bbl in 2021, production is expected to resume growth in 2021
- Far West Weather Zone demand growth continues, with monthly peak demands exceeding those from 2019
- By 2022, long-term price outlook expected to return to near pre-Covid-19 levels of the low \$60/bbl range, which will incentivize Permian Basin development with production outlook to resume upward trajectory







Conclusions – West Texas load additions: Permian Basin study

- Although recent oil and gas activity has been reduced due to a black swan event (Covid-19), price recovery will drive long term increases in oil and gas activities and power demand
- Undeveloped oil resources of approximately 78 billion barrels can be produced with current technology and forecasted long-term oil prices
- Producers prefer the low-cost option of electrical grid power, and utilities have an obligation to serve load; however, portions of the Permian Basin (particularly the Delaware Basin), are still significantly underserved by the electrical grid
- Sufficient T&D capacity additions will be required to meet the forecasted doubling of demand associated with the projected long-term increases in oil and gas activity, especially in the Delaware Basin



QUESTIONS



