

Project Description

High Road Clean Energy LLC (High Road) requested Electric Power Engineers, Inc. (EPE) to complete a Security Constrained Economic Dispatch (SCED) analysis focusing on evaluating transmission congestion and curtailment for the Mariah del Norte wind project (Mariah) which is an existing 230 MW Wind project interconnected to the 345 kV Windmill substation in the Panhandle of Texas. The analysis simulated 8760 Locational Marginal Pricing (LMP) calculations for the remainder of the 2017 study year (May – December 2017) under the current Electric Reliability Council of Texas (ERCOT) nodal market.

This analysis was performed by conducting a nodal market study based on an 8760 hours-per-year generation, load and transmission simulation using EPE's proprietary MarketnSight simulation engine and databases. The study integrates the effects of energy schedules from energy resources on transmission congestion and curtailment as well as LMP considering market conditions under N-1 conditions, consistent with the operation of the nodal market in ERCOT.

The purpose of this study was to project the operation/performance of Mariah by estimating generation, pricing and curtailment through analysis of the nodal market for the remainder of 2017.

