



AEPSC LRGV Import Transmission Project – ERCOT Independent Review Update

Regional Planning Group

May 14, 2019

Status of AEPSC Lower Rio Grande Valley (LRGV) Import Project

- ❑ An update was provided to RPG in March 2019

http://www.ercot.com/content/wcm/key_documents_lists/165278/AEPSC_LR_GV_Import_Update_March2019-RPG_FINAL.PPTX

- ❑ Significant changes in Generation and Load in the study region

Current Status of AEPSC Lower Rio Grande Valley (LRGV) Import Project

❑ New generation additions

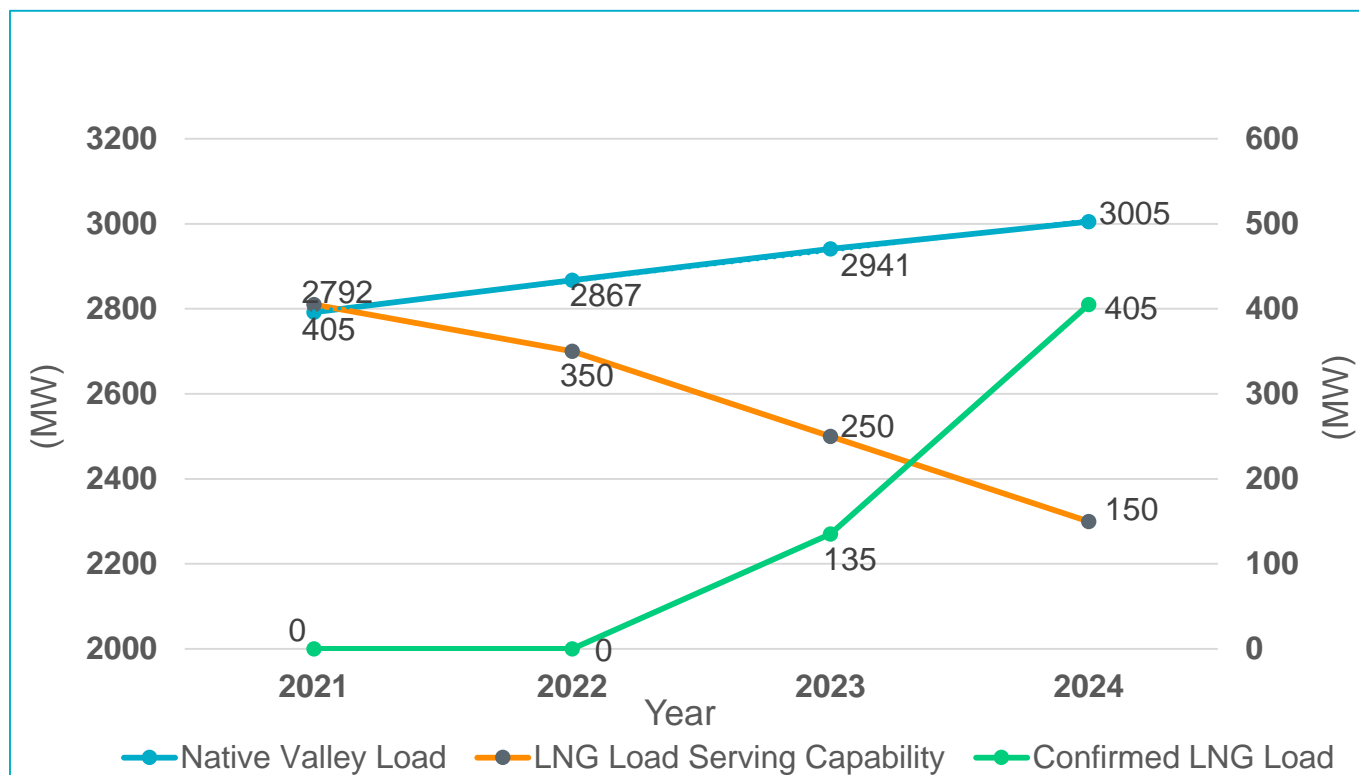
- Generator that meet Planning Guide Section 6.9 requirements in the study area are added to the case (as of April 2019 GIS report)

Projected COD	INR	Project Name	Fuel Type	Capacity (MW)	POI	Date Met PG 6.9(1)
3/1/2020	16INR0081	Mesteno Wind	Wind	202	Del Sol 345 kV (80355)	4/25/2018
1/10/2020	17INR0037	Palmas Altas Wind	Wind	145	La Palma 138 kV	10/4/2018
6/30/2020	18INR0059	Raymond Wind	Wind	202	Rio Hondo - North Edinburg 345 kV tap	10/17/2018
12/21/2020	20INR0042	Chalupa Wind	Wind	174	New station Kelvin on Rio Hondo - La Palma 138 kV line	10/18/2018
12/31/2019	16INR0111	Las Lomas Wind	Wind	200	Lopeno 138 kV	1/29/2019
12/31/2020	19INR0045	Rayos Del Sol	Solar	150	Taps Mesquite-Rangerville 138 kV	1/23/2019
10/31/2020	17INR0025	Reloj Del Sol Wind	Wind	202	Cenizo 345 kV (80220)	3/4/2019
11/15/2019	19INR0053	Hidalgo II Wind	Wind	50.4	Mirasole 345 kV	04/30/2019

❑ New confirmed load

- STEC confirmed 405 MW of LNG load by Summer 2023

Valley Load Serving Capability Limits



- LNG Load Serving Capability = the amount of LNG load that can be added near the Brownsville ship channel before Valley import reliability limits are reached. This is based on system conditions known at the time of study
- A reliability need is identified under G1-G1 condition after addition of LNG load beyond 2023

Next Steps

- ERCOT is studying project alternatives to meet the identified reliability need and consider the benefits on identified Lobo-North Edinburg SSR issues
http://www.ercot.com/content/wcm/key_documents_lists/165186/06_South_Texas_SS_O_Update_ROS_May_2019.pdf
- Sensitivities for new load additions
 - 840 MW of additional LNG Load in LRGV
 - 900 MW load in Corpus Christi area
- ERCOT will consider combining the independent reviews for the AEPSC and STEC Valley Import RPG projects



QUESTIONS?

APPENDIX

LRGV Load Forecast (without LNG)

- LRGV is defined to include four counties: Cameron, Willacy, Hidalgo, and Starr
- LRGV load is composed of load in zones 610, 615, 800, 829, 875, and 876

Year	ERCOT 90 th Percentile Summer Peak Forecast (MW)
2019	2666
2020	2729
2021	2792
2022	2867
2023	2941
2024	3005
2025	3065
2026	3133
2027	3200

