



**AEPSC – Port Lavaca Area
Improvement Project –
ERCOT Independent Review (EIR)
Status Update**

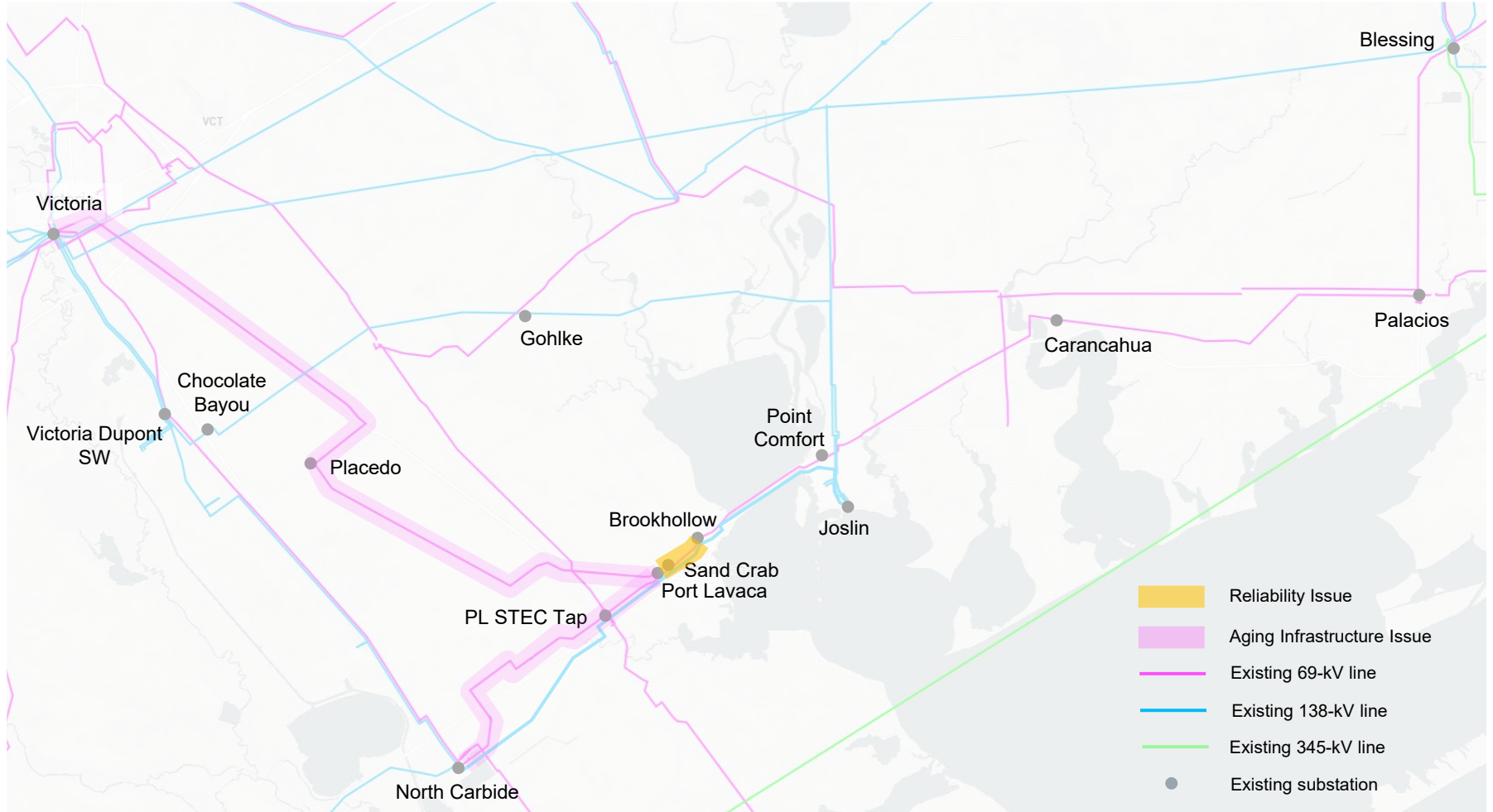
Tanzila Ahmed

Regional Planning Group (RPG) Meeting
June 15, 2021

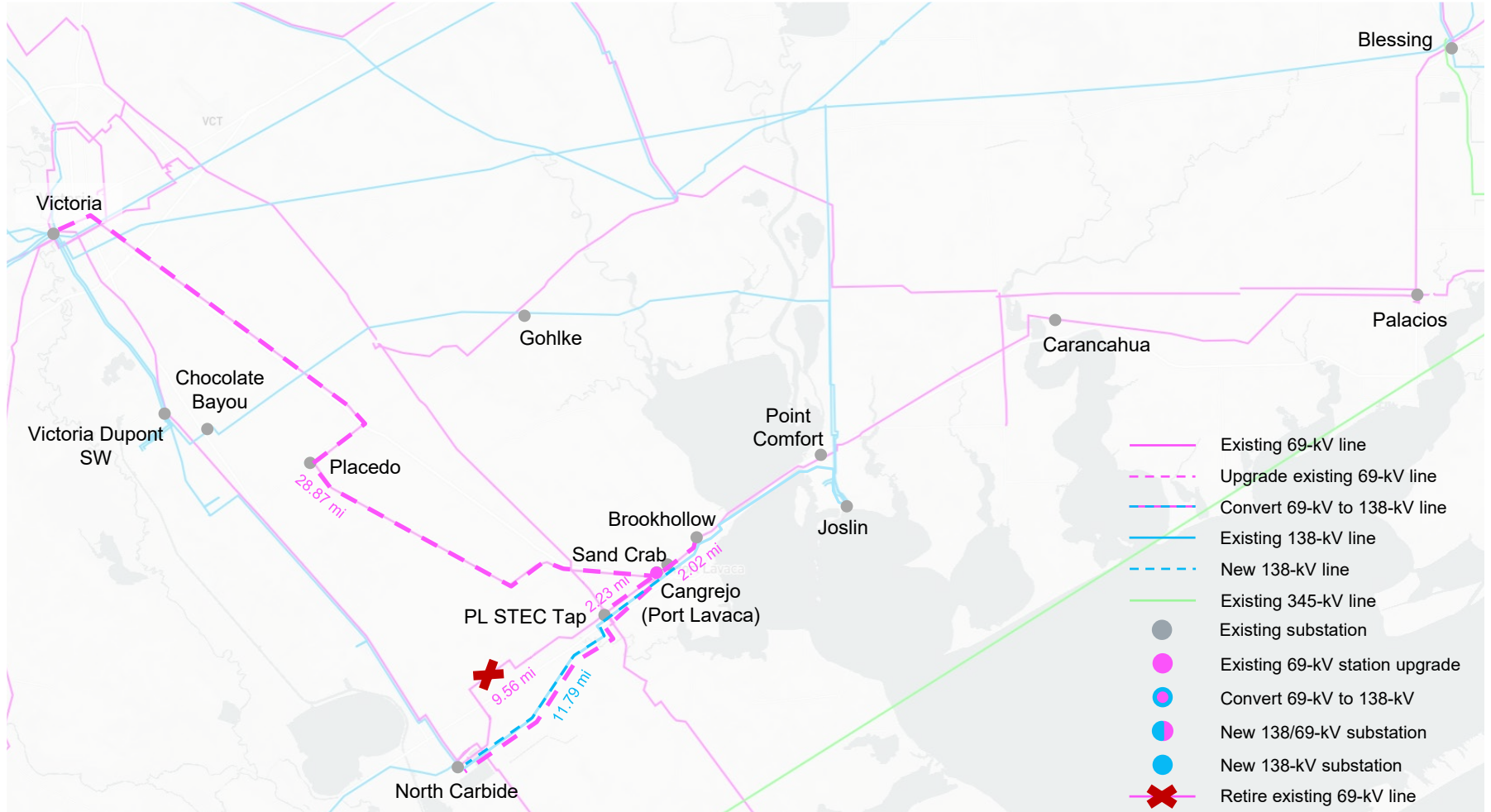
Recap

- ERCOT provided study scope for AEPSC Port Lavaca Area Improvement project at the April 2021 RPG meeting
 - [http://www.ercot.com/content/wcm/key_documents_lists/213851/AEPSC -
Port Lavaca Area Improvement Project Scope -
April 6 RPG Final.pdf](http://www.ercot.com/content/wcm/key_documents_lists/213851/AEPSC_-_Port_Lavaca_Area_Improvement_Project_Scope_-_April_6_RPG_Final.pdf)
- ERCOT conducted a reliability analysis and presented the need for transmission upgrade at the May 2021 RPG meeting
 - [http://www.ercot.com/content/wcm/key_documents_lists/213855/AEPSC -
Port Lavaca Area Improvement Project Status Update -
May 11 RPG Final.pdf](http://www.ercot.com/content/wcm/key_documents_lists/213855/AEPSC_-_Port_Lavaca_Area_Improvement_Project_Status_Update_-_May_11_RPG_Final.pdf)
- ERCOT is currently evaluating options to address the reliability need and aging infrastructure issues in the study region

Study Area Map



Option 1



More [details](#) in Appendix

Option 2EA



More [details](#) in Appendix

Option 4EA



More [details](#) in Appendix

Preliminary Results – Option Evaluation

- Among various options evaluated, ERCOT found Options 1, 2EA, and 4EA as short-listed options for further review
 - These three options addressed the reliability need and aging infrastructure issues in the study area
 - The details of options evaluated can be found in Appendix

	Option 1	Option 2EA	Option 4EA
Address the project needs	Yes	Yes	Yes
Require CCN	Yes (2.02 mi)	Yes (2.02 mi)	Yes (2.02 mi)
Total millage for transmission upgrades (miles)	45	44	30

Next Steps

- ERCOT will further evaluate the short-listed options
- ERCOT will conduct a congestion analysis for a recommended transmission upgrade to ensure that the identified transmission upgrades do not result in new congestion within the study region
- Tentative Timeline
 - Final recommendation in July 2021

Thank You!



Stakeholder comments also welcomed through:

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Option 1 Details

Transmission Upgrades	Length (mi)
Rebuild Port Lavaca 69-kV substation (new station at Cangrejo)	--
Rebuild the existing Brookhollow to Port Lavaca (Cangrejo) 69-kV using 2000 A conductor, operate at 69-kV	2.02
Rebuild a portion of the existing North Carbide to Port Lavaca (Cangrejo) using 2000 A conductor, operate at 69-kV	2.23
Retire the existing Port Lavaca STEC tap. – North Carbide 69-kV line	9.56
Rebuild a portion of the existing North Carbide to Joslin using 2000 A conductor utilizing double circuit structures: #1. North Carbide - Port Lavaca (Cangrejo) - Sand Crab 138-kV line, operate at 69-kV #2. North Carbide - Port Lavaca (Cangrejo) 69-kV line, operate at 69-kV	11.79
Rebuild the existing Port Lavaca (Cangrejo) to Victoria using 2000 A conductor, operate at 69-kV	28.87

Option 1 [Map](#)

Option 2EA Details

Transmission Upgrades	Length (mi)
Rebuild Port Lavaca 69-kV substation (new station at Cangrejo) as 138/69-kV substation	--
Install an 138/69-kV transformer at the new Cangrejo 138/69-kV substation	--
Rebuild Placedo 69-kV substation (new station Beecher) as 138-kV substation	--
Rebuild the existing Brookhollow to Port Lavaca (Cangrejo) 69-kV using 2000 A conductor, operate at 69-kV	2.02
Rebuild a portion (STEC tap. - Cangrejo) of the existing North Carbide - Port Lavaca (Cangrejo) using 2000 A conductor, operate at 69-kV	2.23
Retire the existing Port Lavaca STEC tap. – North Carbide 69-kV line	9.56
Rebuild a portion of the existing North Carbide to Joslin using 2000 A conductor utilizing double circuit structures: #1. North Carbide – Cangrejo - Sand Crab 138-kV line (i.e., loop the existing the North Carbide to Sand Carb 138-kV line into Cangrejo), operate at 138-kV #2. North Carbide - Cangrejo 138-kV line, operate at 138-kV	11.79
Construct a new Dacosta 138-kV substation at the intersection of the existing Chocolate Bayou – Gohlke 138-kV line and the existing Port Lavaca (Cangrejo) – Victoria 69-kV line	--
Rebuild a portion of the existing Port Lavaca (Cangrejo) to Victoria using 2000 A conductor, operate at 138-kV and terminate at the new Dacosta 138-kV substation	17.97
Retire remaining portion of the existing Placedo (Beecher) – Victoria 69-kV line	10.73
Rebuild portion of the existing Point Comfort – Carancahua 69-kV line, operate at 69-kV	10.28

Option 2EA [Map](#)

Option 4EA Details

Transmission Upgrades	Length (mi)
Rebuild Port Lavaca 69-kV substation (new station at Cangrejo) as 138/69-kV substation	--
Install an 138/69-kV transformer at the new Cangrejo 138/69-kV substation	--
Rebuild the existing Brookhollow to Port Lavaca (Cangrejo) 69-kV using 2000 A conductor and operate at 69-kV	2.02
Rebuild a portion of the existing North Carbide to Port Lavaca (Cangrejo) using 2000 A conductor and operate at 69-kV	2.23
Retire the existing Port Lavaca STEC tap. – North Carbide 69-kV line	9.56
Rebuild a portion of the existing North Carbide to Joslin using 2000 A conductor utilizing double circuit structures: #1. North Carbide - Cangrejo - Sand Crab 138-kV line (i.e., loop the existing the North Carbide to Sand Carb 138-kV line into Cangrejo), operate at 138-kV #2. North Carbide - Cangrejo 138-kV line, operate at 138-kV	11.79
Rebuild Placedo 69-kV substation (new station at Beecher) as 138-kV substation	--
Rebuild portion of the existing Placedo (Beecher) – Victoria 69-kV line (~4miles) with a double circuit 138-kV structure to cut into the existing Chocolate Bayou – Gohlke 138-kV line to create a loop, operate at 138-kV	4
Retire remaining portion of the existing Placedo (Beecher) – Victoria 69-kV line	10.73
Retire the existing Port Lavaca – Placedo (Beecher) 69-kV line	13.97
Rebuild portion of the existing Point Comfort – Carancahua 69-kV line, operate at 69-kV	10.28

Option 4EA [Map](#)