

**CenterPoint Energy Houston Electric, LLC
345 kV Space City Solar Project in
Wharton County, Texas
PUCT Docket No. 51568
Description of the Alternative Routes**

CenterPoint Energy Houston Electric, LLC (“CenterPoint Energy”) has filed an application with the Public Utility Commission of Texas (“PUC”) to obtain a Certificate of Convenience and Necessity (“CCN”) to construct the proposed 345 kV Space City Solar Project in Wharton County, Texas. In its CCN application for this project, CenterPoint Energy has presented seven alternative routes comprised of 16 segments for consideration by the PUC. The following table lists the segment combinations that make up CenterPoint Energy’s seven alternative routes and the length of each alternative route in miles. **All routes and route Segments are available for selection and approval by the PUC. Only one multi-segment transmission line route will ultimately be constructed. Alternative Routes are not listed in any order of preference or priority.**

| Proposed Alternative Route Number | Segment Composition | Length (Miles) |
|-----------------------------------|---------------------|----------------|
| 1 | A-N-P | 4.2 |
| 2 | B-C-G-J-N-P | 4.1 |
| 3 | B-C-G-K-O-P | 3.5 |
| 4 | B-C-H-L-O-P | 3.6 |
| 5 | B-C-H-I-M | 6.2 |
| 6 | B-D-E-I-M | 6.9 |
| 7 | B-D-F-M | 8.0 |

Note: All distances of the routes above are approximate and rounded to the nearest tenths of a mile. The distances of individual Segments described below are rounded to the hundredths of a mile and may not sum to the total length of route presented above due to rounding.

The following narrative, along with the enclosed map, provides a detailed description of the Segments that form the seven alternative routes for consideration by the PUC for the 345 kV Space City Solar Project.

Note: A “pipeline corridor”, as referenced in the segment descriptions below, may contain more than one pipeline.

Segment A

Segment A begins at the proposed Space City Solar Interconnection Substation, which is located on the northeast corner of the intersection of Farm to Market Road (FM) 3086 and County Road (CR) 434 approximately 1.84 miles south of FM 441. Segment A proceeds north for approximately 0.84 mile, paralleling the east side of FM 3086. The segment turns east for approximately 0.74 mile, then angles east-southeast for approximately 0.12 mile, then proceeds east for approximately 0.54 mile. The segment then angles east-northeast for approximately 0.25 mile, crossing an existing pipeline corridor. The segment then angles east for approximately 0.38 mile, crossing three existing pipeline corridors, an existing transmission line, and CR 401. The segment terminates at its intersection with Segments J and N, on the east side of CR 401.

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Segment B

Segment B begins at the proposed Space City Solar Interconnection Substation, which is located on the northeast corner of the intersection of FM 3086 and CR 434 approximately 1.84 miles south of FM 441. Segment B proceeds east for approximately 0.83 mile, paralleling the north side of CR 434. The segment terminates at its intersection with Segments C and D, on the north side of CR 434.

Segment C

Segment C begins at its intersection with Segments B and D, on the north side of CR 434, and proceeds east for approximately 0.77 mile, paralleling the north side of CR 434. The segment terminates at its intersection with Segments G and H, on the north side of CR 434.

Segment D

Segment D begins at its intersection with Segments B and C, on the north side of CR 434, and proceeds south for approximately 0.44 mile, crossing CR 434. The segment terminates at its intersection with Segments E and F.

Segment E

Segment E begins at its intersection with Segments D and F. The segment proceeds southeast for approximately 0.15 mile, crossing six existing pipeline corridors. The segment then angles east for approximately 0.52 mile, then angles northeast for approximately 0.71 mile, paralleling the northwest side of an existing transmission line and crossing CR 401. The segment terminates at its intersection with Segments H, I, and L, on the northwest side of an existing transmission line.

Segment F

Segment F begins at its intersection with Segments D and E. The segment proceeds south for approximately 0.5 mile, crossing six existing pipeline corridors, then angles southeast for approximately 0.20 mile, crossing two existing pipeline corridors, an existing transmission line, and Moccasin Creek. The segment then angles east-northeast for approximately 0.38 mile, then angles east for approximately 0.38 mile. The segment angles east-northeast for approximately 0.15 mile, crossing and then paralleling CR 401 on the southeast side and crossing two existing pipeline corridors. The segment turns north for approximately 0.72 mile, paralleling the east side of CR 401 and crossing Moccasin Creek, then angles northeast for approximately 0.28 mile, paralleling the southeast side of an existing transmission line. The segment terminates at its intersection with Segments I and M, on the southeast side of an existing transmission line.

Segment G

Segment G begins at its intersection with Segments C and H, on the north side of CR 434, and proceeds east-northeast for approximately 0.27 mile, paralleling five existing pipeline corridors and crossing CR 401. The segment terminates at its intersection with Segments J and K, on the east side of CR 401.

Segment H

Segment H begins at its intersection with Segments C and G, on the north side of CR 434. The segment proceeds east-southeast for approximately 0.15 mile, crossing CR 434 and five existing pipeline corridors. The segment angles east for approximately 0.10 mile, paralleling CR 434 on the south side and crossing CR 401, then angles east-southeast for approximately 0.15 mile. The segment terminates at its intersection with Segments E, I, and L, on the northwest side of an existing transmission line.

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Segment I

Segment I begins at its intersection with Segments E, H, and L, on the northwest side of an existing transmission line, and proceeds east-southeast for approximately 0.06 mile, crossing an existing transmission line. The segment terminates at its intersection with Segments F and M, on the southeast side of an existing transmission line.

Segment J

Segment J begins at its intersection with Segments G and K, on the east side of CR 401. The segment proceeds north for approximately 0.31 mile, paralleling CR 401. The segment angles slightly to the east for approximately 0.25 mile and then angles back to the north for approximately 0.35 mile, crossing Moccasin Creek, four existing pipeline corridors, and an existing transmission line. The segment terminates at its intersection with Segments A and N, on the east side of CR 401 and north of the existing transmission line.

Segment K

Segment K begins at its intersection with Segments G and J, on the east side of CR 401. The segment proceeds east-northeast for approximately 0.84 mile, paralleling five existing pipeline corridors on the north side, and crossing Moccasin Creek. The segment terminates at its intersection with Segments L and O, on the northwest side of an existing transmission line.

Segment L

Segment L begins at its intersection with Segments E, H, and I, on the northwest side of an existing transmission line. The segment proceeds northeast for approximately 0.81 mile, paralleling the northwest side of an existing transmission line, and crossing Moccasin Creek and five existing pipeline corridors. The segment terminates at its intersection with Segments K and O, on the northwest side of an existing transmission line.

Segment M

Segment M begins at its intersection with Segments F and I, on the southeast side of an existing transmission line. The segment proceeds east for approximately 1.55 miles, crossing Moccasin Creek and two existing pipeline corridors, then angles east-northeast for approximately 0.18 mile, crossing three existing transmission lines. The segment angles east for approximately 0.35 mile, crossing an existing pipeline corridor and Juanita Creek then turns north for approximately 0.26 mile, then angles west-northwest for approximately 0.26 mile. The segment turns north for approximately 0.46 mile, angles slightly northwest for approximately 0.16 mile, and angles north for approximately 0.10 mile, crossing two existing pipeline corridors and CR 403. The segment turns west and parallels CR 403 for approximately 0.27 mile, crossing seven pipeline corridors. The segment turns north-northwest for approximately 0.20 mile, then turns west for approximately 0.33 mile, paralleling the south side of an existing transmission line, crossing an existing transmission line. The segment turns south for approximately 0.03 mile and terminates at the existing Hillje Substation, which is located approximately 0.23 miles east of CR 403 and approximately .82 miles south of FM 441.

Segment N

Segment N begins at its intersection with Segments A and J, on the east side of CR 401. The segment proceeds east for approximately 0.81 mile, crossing an existing pipeline corridor. The segment angles south-southeast for approximately 0.13 and angles east for approximately 0.26 mile, paralleling the north side of the existing transmission line and paralleling the south side of CR 403. The segment terminates at its intersection with Segments O and P, on the south side of CR 403.

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Segment O

Segment O begins at its intersection with Segments K and L, on the northwest side of an existing transmission line and proceeds northeast for approximately 0.64 mile, paralleling the northwest side of an existing transmission line and crossing five existing pipeline corridors. The segment turns north for approximately 0.06 mile, crossing an existing pipeline corridor and an existing transmission line. The segment terminates at its intersection with Segments N and P, on the south side of CR 403.

Segment P

Segment P begins at its intersection with Segments N and O on the south side of CR 403, and proceeds north for approximately 0.09 mile, crossing CR 403. The segment terminates at the existing Hillje Substation, which is located approximately 0.23 miles east of CR 403 and approximately 0.82 miles south of FM 441.