

Purpose and need

Cypress to Legend 500 kV Transmission Line Project

What is the Cypress to Legend 500 kV Transmission Line Project?

Entergy Texas proposes to add new electric transmission infrastructure in Hardin and Jefferson Counties. Entergy Texas is planning to construct a new single-circuit 500 kilovolt (kV) electric transmission line approximately 35 miles in length (depending on the final route) that would connect the existing Cypress Substation to the new Legend 500 kV Substation (the “Project”). The existing Cypress Substation is located approximately 2.8 miles southeast of the intersection of Texas State Highway (SH) 327 and United States Highway 287. The new Legend 500 kV Substation will be located approximately 1.5 miles southwest of the intersection of SH 73 and SH 82. The study area and approximate locations of the proposed end points and existing transmission line facilities are shown on the map on the website <https://www.entergy-texas.com/transmission/cypress-legend>.

The proposed single-circuit transmission line would be erected utilizing steel structures within a right-of-way that would be up to 225 feet wide.

What is the purpose and need of the Cypress to Legend 500 kV Transmission Line Project?

The primary purpose of the Project is to provide electric service to support the load growth in Hardin, Orange, and Jefferson Counties in Southeast Texas. The new line will provide greater reliability to the Southeast Texas region by adding a new transmission source into the growing area.

The proposed project will require the following scopes of work:

1) Design and build the new Legend 500 kV Substation: The new Legend 500 kV Substation will be a 500/230 kV substation that will facilitate the installation of the proposed new 500 kV line extension.

2) Design and build the new Cypress to Legend 500 kV Transmission Line: The connecting transmission line will be a single-circuit 500 kV transmission line, primarily using steel structures, that will extend from ETI’s existing Cypress Substation and connect into the new Legend 500kV Substation.