Land use

```
1 Length of alternative route 
Length of route utilizing existing electric facilityy right-of-way (ROW)
    Length of route parallel to existing eeectric facility ROW ROW
    (roads, highways, railway, or telephone utility ROW, etc.
Length of route parallel to apparent property lines}\mp@subsup{}{}{2}\mathrm{ (or other natural or cultural features)
07 Sum of evaluation criteria 3, 4,5 and 6
Length of route parallel to pipeline ROW
Length of route across parks/recreational areas 3
Number of additional parks/recreational areas\mp@subsup{}{}{3}}\mathrm{ within 1,000 feet of the route centerline
    Length of route across cropland
    Length of route across pasture/rangeland
    Length of route across land irrigated by traveling systems (rolling or pivot type)
    Length of route across gravel pits, mines, or quarries
    Number of pipeline crossings
Number of electric transmission line crossings 
Number of Interstate (IH), US (Ighway or R',to-Market (RM) road crossings
Number of Farm-to-Market (FM) or Ranch-to-Market (RM) road crossings
Number of heliports within 5,000 feet of the route centerline
Number of FAA registered airports4 (runways >3,200 feet) within 20,000 feet of the route centerline
Number of FAA registered airports (runways < 3,200 feet) within 10,000 feet of the route centerline 
N Number of Frequency Modulation radio (FM radio), microwave towers, etc. within 2,000 feet of the route centerline
Number of existing water wells within 200 feet of the route centerline
28 Number of oil and gas wells within 200 feet of the r
```


## Aesthetics

30 Estimated length of route within foreground visual zone ${ }^{5}$ of US, Interstate, and State highways Estimated length of route within foreground visual zone ${ }^{5}$ of FM/RM roads

## Ecology

```
33 Length of route across bottomland/riparian forest
    Length of route across upland forest
Acreage of route across National Wetland Inventory (NWI) mapped forested or scrub/shrub wetlands
Acreage of route across NWI mapped emergent wetlands
Acrage of route across NNwm mapped emergent wetrands 
8 Length of route across open water (lakes, ponds, etc.)
Length of route across known occupied red-cockaded woodpecker cluster habitat
Length of route across Coastal Management Zone
41 Number of stream/canal crossings 
43 Lumber of navigable waterway crossings natural streams or rivers
Length of route across FEMA mapped 100-year floodplains
```


## Cultural resources

```
45 Number of cemeteries within 1,000 feet of the route centerline 
```

46 Number of recorded historic or archaeological resources crossed by route
47 Number of additional recorded historic or archaeological resources within 1,000 feet of route centerline
48 Number of resources determined eligible for or listed on the National Register of Historic Places crossed by route
49 Number of addititional resources determined eligible for or listed on the National Register of Historic Places
within 1,000 feet of route centerline
50 Length of route across high archaeological/historical site potential





## Cypress to Legend 500 kV Transmission Line Project

The Entergy Texas Cypress to Legend 500 kilovolt (kV) Transmission Line Project (Project) consists of a new 500 kV single-circuit transmission line that will be routing from the existing Cypress Substation in Hardin County and extend the transmission line to the new Legend 500 kV Substation in Jefferson County. 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 is to be located approximately 1.5 miles southwest of the intersection of SH 73 and SH 82. The new transmission line could be approximately 35 miles in length and follow a path through Hardin and Jefferson Counties until it reaches the new Legend 500 kV Substation, depending on the route ultimately approved by the Public Utility Commission of Texas (PUCT).


## What is the purpose and need of the project?

The primary purpose of the Project is to provide electric service to support the industrial growth in the Port Arthur area in Jefferson County, Texas and to provide greater reliability to the east Texas region. To accomplish this, a new substation, to be called "Legend 500 kV Substation," is needed to support the requested load capacity.

## 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 new 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 new H-frame type structure, single-circuit 500 kV transmission line that extend from ETl's existing Cypress Substation and connect into the new Legend 500 kV Substation

## Typical Structures



