

General Cost Outlines for Typical Distribution Energy Resource (DER) System Updates		
Entergy New Orleans Estimated Transmission Project Costs		
Scope Category	Scope Description	Estimated Cost*
Direct Transfer Trip (DTT) Install – Minor Upgrades	DTT install that includes upgrading the existing low-voltage breaker relays and installing new relay panel(s) in the existing control house. <i>*This scope of work and estimated cost does not include the required fiber installation, that scope and estimate will be included in the Distribution scope of work and estimate.*</i> (Required based on substation).	\$740,000
Direct Transfer Trip (DTT) Install – Major Upgrades	DTT install that includes replacing/upgrading the existing low-voltage breakers, installing new high-voltage voltage transformers, & installing new relay panel(s) including modifying the existing control house. <i>*This scope of work and estimated cost does not include the required fiber installation, that scope and estimate will be included in the Distribution scope of work and estimate.*</i> (Required based on substation).	\$1,940,000
Substation Regulator Install/Upgrade	Regulator install/replacement that includes installing new foundation(s) and installing new relays. (As required).	\$740,000
Substation Regulator Control Replacement/Upgrade	Regulator Control replacement/upgrade that includes installing new relay cables. (As required).	\$160,000
Substation Transformer Replacement/Upgrade	Transformer replacement/upgrade that includes modifying the existing foundation and installing new relays. (As required).	\$4,000,000
Substation Low-Voltage Feeder Bay & Breaker Install	Low-voltage feeder bay and breaker install that includes installing new foundations and relay upgrades. (As required).	\$1,360,000
Entergy New Orleans Estimated Distribution Project Costs		
Scope Category	Scope Description	Estimated Cost*
Fiber Installation- ADSS on distribution poles	Install one mile of overhead ADSS Fiber and associated equipment.	\$200,000 - \$800,000
Fiber Installation-Underground	Install one mile of underground Fiber and associated equipment.	\$170,000 - \$1,100,000
Overhead (OH) point of Interconnection (POI) / point of Common Coupling (PCC)	Install 3-phase overhead IPO Recloser, 300ft of 3-phase overhead primary conductor, Primary Metering, and associated overhead equipment.	\$185,000
Conductor Upgrade / Reconductoring	Replace one mile of existing overhead smaller gauge primary conductor with larger 3-phase overhead primary conductor and transfer of associated equipment and secondary/neutral.	\$520,000 - \$2,400,000
New overhead line extension	Install one mile of 3-phase overhead primary with associated equipment and neutral.	\$160,000 - \$1,500,000
Overhead line extension -single phase to three phase	Replace one mile of existing 1-phase overhead smaller gauge primary conductor with larger 3-phase overhead primary conductor and transfer of associated equipment and secondary/neutral.	\$520,000 - \$2,000,000
Install/Remove capacitor bank (600 - 1200kvar)	Install new 3- Phase capacitor bank with pole replacement and transfer associated equipment.	\$100,000
Install overhead primary metering	Install new 3- Phase primary metering with pole replacement and transfer associated equipment.	\$40,000
Overhead switch installation (Disconnects – load break)	Install new 3- Phase Gang switch with pole replacement and transfer associated equipment.	\$40,000
Install line regulators	Install new 3-phase pole mounted regulators.	\$130,000 - \$400,000
Overhead transformers upgrade/installation	Install 1-phase/3-phase overhead transformers.	\$15,000 - \$60,000
Pad-mounted transformer upgrade/installation	Install 1-phase/3-phase underground pad-mounted transformers.	\$15,000 - \$80,000
Three-Phase Riser Pole Installation	Install new 3- Phase pole with underground primary PVC riser and associated equipment.	\$40,000 - \$300,000
Recloser Upgrade/Installation	Install new 3- Phase IPO recloser with pole replacement and transfer associated equipment.	\$100,000 - \$180,000
Pad-Mounted switchgear installation	Install new 3-phase automated/non-automated pad-mounted switchgear.	\$200,000 - \$300,000
Underground Cable Installation	Install one mile of new 3-phase underground primary cable and associated equipment. (Does not include CBD installations).	\$1,300,000 - \$7,000,000
Underground Cable Replacement	Replace one mile of 3-phase underground primary cable and associated equipment. (Does not include CBD installations).	\$1,300,000 - \$7,000,000
<p>*Actual costs will differ from these estimates and may vary based on the site-specific design, engineering, construction, and complexity of the install. Interconnecting customers are responsible for all costs associated with the modifications necessary to interconnect to Entergy's distribution system.</p>		