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CEI South Electric TDSIC Plan Projects																					
Milestone Month Order Number	Oracle/Power Plant Number	ABM	OC	City	TDSIC Program	Maximo Short Description	Previous Planned Year as of 7/20/21	Current Planned Year	Planned Year Variance Comments	Original Estimate Assume	Previous Filled Capital Estimate as of 4/30/2021	Current Capital Estimate	Estimate \$ Variance	Estimate % Variance	Estimate Variance Comments	Actual \$ 7/21/21 15/21/21)	Actual \$ Since TDSIC Inception (thru 10/31/21)	Actual \$ Variance	Actual % Variance	Project Complete (Y or N)	Actual Variance Comments
14039012	1720270116024	Elect Substation - Trans TDSIC	Boonville	Newburgh	Supervisory Control and Data Acquisition Upgrades	Microwave Tower Upgrades	2017	2017					0%					48%	Y	A change in scope due to original estimate including OEM (uninstalled) items that were removed from the project which brought overall cost down. Work scope was reduced	
13625674	172027011618023	Elect Substation - Trans TDSIC	Mt. Vernon	Evansville	Supervisory Control and Data Acquisition Upgrades	All Brown G1 #1 RTU C_0	2017	2017					0%					58%	Y	Labor costs were less due to utilizing internal engineering. There were additional labor savings due to contractor bid less than estimate	
13626298	172027011616019	Elect Substation - Dist TDSIC	Evansville	Evansville	System Protection Relay Upgrades	AutoSet - Devon Y51-2	2017	2017					0%					-20%	Y	Additional labor and material was required to add a vacuum interruption not identified in original estimate.	
13626305	172027011616025	Elect Substation - Dist TDSIC	Evansville	Evansville	System Protection Relay Upgrades	Relay replacement-Louis Alito all 4 circuits	2017	2017					0%					70%	Y	Additional labor and material was required due to technology that reduced engineering, material and construction costs	
13626415	162027011618011	Elect Substation - Trans TDSIC	Rockport	Holland	System Protection Relay Upgrades	Relay replacement-St Honey capacitor Bank	2017	2017					0%					59%	Y	Labor cost was less than estimated due to utilization of internal construction resources. Estimate assumed external contract	
13626324	172027011618018	Elect Substation - Trans TDSIC	Fort Branch	Holland	System Protection Relay Upgrades	Relay PLC-Fiber CONV-Duff 284-2	2017	2017					0%					57%	Y	Labor cost was less than estimated due to utilization of internal engineering and construction resources. Estimate assumed external contract engineering and construction labor	
13626322	172027011618019	Elect Substation - Trans TDSIC	Rockport	Holland	System Protection Relay Upgrades	Relay PLC-Fiber CONV-Dubois ZB4- 2	2017	2017					0%					48%	Y	Labor cost was less than estimated due to utilization of internal engineering and construction resources. Estimate assumed external contract engineering and construction labor	
13626361	172027011616016	Elect Substation - Trans TDSIC	Evansville	Evansville	System Protection Relay Upgrades	Relay replacement-Green Oaks 5 circuits & 4x Ech	2017	2017					0%					6%	Y		
13626580	172027011618015	Elect Substation - Trans TDSIC	Boonville	Newburgh	System Protection Relay Upgrades	Relay replacement-Cully 282 1 and Isolation	2017	2017					0%					-19%	Y		
14312149		Elect Substation - Dist TDSIC	Evansville	Evansville	System Protection Relay Upgrades	Relay Replacement Area 71	2017	2017					0%					100%	Y	This project was incorporated and executed with Maxime project 14034413	
14034433	172027011616033	Elect Substation - Dist TDSIC	Evansville	Evansville	System Protection Relay Upgrades	Relay replacement-Area 188 and 288	2017	2017					0%					59%	Y	Implemented new relays with technology that reduced engineering, material and construction costs	
14034440	172027011616034	Elect Substation - Dist TDSIC	Evansville	Evansville	System Protection Relay Upgrades	Relay replacement-Berry 2 & 3 6 4	2017	2017					0%					68%	Y	Implemented new relays with technology that reduced engineering, material and construction costs	
14312172	172027011616025	Elect Substation - Dist TDSIC	Evansville	Evansville	System Protection Relay Upgrades	Relay Replacement Gateway 288 388 488	2017	2017					0%					74%	Y	Implemented new relays with technology that reduced engineering, material and construction costs	
13626362	172027011616016	Elect Substation - Trans TDSIC	Evansville	Evansville	System Protection Relay Upgrades	Relay PLC-Fiber CONV-Heldobach Z91-2	2017	2017					0%					23%	Y	Implemented new relays with technology that reduced engineering, material and construction costs	
13626410	172027011616031	Elect Substation - Trans TDSIC	Evansville	Evansville	System Protection Relay Upgrades	NE Sub 138kV 69kV Transfer Bus	2017	2017					0%					-18%	Y		
14312138	172027011616037	Elect Substation - Trans TDSIC	Evansville	Evansville	System Protection Relay Upgrades	Relay Replacement Ohio River Station 4400 4600+700	2017	2017					0%					72%	Y	Implemented new relays with technology that reduced engineering, material and construction costs	
13626412	172027011616017	Elect Substation - Trans TDSIC	Evansville	Evansville	System Protection Relay Upgrades	Relay PLC-Fiber CONV Pigeon Creek Z91-2	2017	2017					0%					35%	Y	Implemented new relays with technology that reduced engineering, material and construction costs	
14038815	172027011616015	Elect Substation - Dist TDSIC	Evansville	Evansville	System Protection Relay Upgrades	AutoSet - Sunbeam Y52	2017	2017					0%					-23%	Y	Additional labor and material costs due to the new Auto- Sunbeam system being integrated with the existing relay. A second RTU and converter had to be purchased and installed to complete the communications path	
14312151	172027011616036	Elect Substation - Dist TDSIC	Francisco	FL Branch	System Protection Relay Upgrades	Relay Replacement Toyota 100 100	2017	2017					0%					71%	Y	Implemented new relays with technology that reduced engineering, material and construction costs	
14312171	172027011616038	Elect Substation - Dist TDSIC	Mt. Vernon	Mt. Vernon	System Protection Relay Upgrades	Relay Replacement Mead Johnson Park 288	2017	2017					0%					76%	Y	Implemented new relays with technology that reduced engineering, material and construction costs	
14312232	172027011616029	Elect Substation - Dist TDSIC	Mt. Vernon	Mt. Vernon	System Protection Relay Upgrades	Relay Replacement Southwest 1st	2017	2017					0%					6%	Y		
13626513	172027011616013	Elect System Improve - Trans TDSIC	Boonville	Boonville	Transmission Line Rebuilds	Y56 Polar to Midway rebuilds (6.4 miles) (Ind w_CPOW plan)	2017	2017					0%					24%	Y	Material costs were significantly less due to structure built lower than estimated. Construction costs were also less than estimate	
13626514	172027011616011	Elect System Improve - Trans TDSIC	Boonville	Boonville	Transmission Line Rebuilds	Y56 Midway to Christey rebuild (7.6 miles) (Ind w_CPOW plan)	2017	2017					0%					35%	Y	Material costs were significantly less due to structure built lower than estimate. Construction costs were also less than estimate	
13592379	17585401156240	Elect System Improve - Distr TDSIC	Evansville	Evansville	Underground Cable Replacements and Looping	Cross Pointe Phase 3 Rebuild for Capacity	2017	2017					0%					-152%	Y	Original plan was to reconstruct entire circuit. Spur conduct had been installed and existing conductor was preserved for projected load growth. Revised scope required baring in approximately 100' of new conduit as well installation of new adjacent conductors	
13202730	17585401156256	Elect System Improve - Distr TDSIC	Evansville	Evansville	Underground Cable Replacements and Looping	Lakeside-Terrace Cable replacement-Phase B	2017	2017					0%					118%	Y	Additional labor was required for backfill excavation work and maneuvering around unknown adjacent private facilities	
13297500	17585401156249	Elect System Improve - Distr TDSIC	Evansville	Evansville	Underground Cable Replacements and Looping	Echo Apts underground Phase 1 cable replacement	2017	2017					0%					-67%	Y	Additional labor was required for private utility lesions not being addressed. Additionally, the contractor had to vac out trenches instead of installation by bore due to utility conflicts	
13990093	17585601156222	Elect System Improve - Distr TDSIC	Boonville	Newburgh	Underground Cable Replacements and Looping	Lenni Road-UD replacement	2017	2017					0%					-63%	Y	Additional labor was required for backfill excavation work and maneuvering around unknown adjacent private facilities	
14364806	17585401156235	Elect System Improve - Distr TDSIC	Evansville	Evansville	Underground Cable Replacements and Looping	Hadden Road cable replacement	2017	2017					0%					-67%	Y	Additional material and labor for two switchgear that were moved from the project from 2018 (Maxime project 1370352) for bonding which required pavement restoration also required more open cutting	
13603232	17585401156265	Elect System Improve - Distr TDSIC	Evansville	Evansville	Underground Cable Replacements and Looping	Underground Cable replace in Carroll Acres Rosewood Ave	2017	2017					0%					-53%	Y	Additional labor was required for backfill excavation work and maneuvering around adjacent facilities	
13886071	17585601156218	Elect System Improve - Distr TDSIC	Rockport	Rockport	Underground Cable Replacements and Looping	High Street Urd Replace	2017	2017					0%					-35%	Y	Additional labor for bore difficulty due to poor soil conditions - rock/buried construction materials - and customer not locating private facilities	
13503231	17585601156219	Elect System Improve - Distr TDSIC	Boonville	Newburgh	Underground Cable Replacements and Looping	Broadview SUBO Cable replace Phase 2	2017	2017					0%					-33%	Y	Additional labor for bore difficulty due to poor soil conditions - rock/buried construction materials - and customer not locating private facilities	
13634158	17585401156248	Elect System Improve - Distr TDSIC	Evansville	Evansville	Underground Cable Replacements and Looping	Underground Cable replace in Echo Hills	2017	2017					0%					-31%	Y	Additional labor for bore difficulty due to poor soil conditions - rock/buried construction materials - and customer not locating private facilities	
13131619	17585401156258	Elect System Improve - Distr TDSIC	Evansville	Evansville	Underground Cable Replacements and Looping	Lakeside Terrace Cable replacement Phase C	2017	2017					0%					-64%	Y	Additional labor for bore difficulty due to poor soil conditions - rock/buried construction materials - and customer not locating private facilities	
13810742	17585501156222	Elect System Improve - Distr TDSIC	Mt. Vernon	Mt. Vernon	Underground Cable Replacements and Looping	Country Club Est Cable REPL Phase I	2017	2017					0%					-46%	Y	Additional labor for bore difficulty due to poor soil conditions - rock/buried construction materials - and customer not locating private facilities	
13381417	17585401156239	Elect System Improve - Distr TDSIC	Evansville	Evansville	Underground Cable Replacements and Looping	Kahre Lake Cable replace Phase 5	2017	2017					0%					-19%	Y		
13616999	17585601156210	Elect System Improve - Distr TDSIC	Rockport	Santa Claus	Underground Cable Replacements and Looping	Underground Cable replace in Christmas Lake Phase 6	2017	2017					0%					-18%	Y		
13381396	17585401156238	Elect System Improve - Distr TDSIC	Evansville	Evansville	Underground Cable Replacements and Looping	Kahre Lake Cable replacement Phase 4	2017	2017					0%					-5%	Y		
13784804	17585401156260	Elect System Improve - Distr TDSIC	Evansville	Evansville	Underground Cable Replacements and Looping	Underground Cable REPL in Village Green Apartments Ph I	2017	2017					0%					-26%	Y	Additional labor was required for backfill excavation work and maneuvering around unknown adjacent private facilities. Additional labor was also required to change out 3 vaults not in the estimate	
14050339	17585401156234	Elect System Improve - Distr TDSIC	Evansville	Evansville	Underground Cable Replacements and Looping	Foxdale Mall underground Additional Loop	2017	2017					0%					-3%	Y		
14352342	17585401156236	Elect System Improve - Distr TDSIC	Evansville	Evansville	Underground Cable Replacements and Looping	Gates Lake cable replacement Phase 3	2017	2017					0%					-2%	Y		
13299935	17585401156214	Elect System Improve - Distr TDSIC	Evansville	Evansville	Underground Cable Replacements and Looping	Cross Pointe Phase 1 Rebuild for Capacity	2017	2017					0%					6%	Y		

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CEI South  
Electric TDSIC Plan Projects

Masking Work Order Number	Drake/Prairie Plant Number	ABM	DC	City	TDSIC Program	Melimo Short Description	Previous Planned Year as of 4/30/21	Current Planned Year	Planned Year Variance Commentary	Original Estimate Estimate as of 4/30/2021	Previous Filled Capital Estimate as of 4/30/2021	Current Capital Estimates	Estimate \$ Variance	Estimate % Variance	Estimate Variance Commentary	Actual \$ 4/30/21 - 10/31/21	Actual \$ after TDSIC inception (thru 10/31/21)	Actual \$ Variance	Actual % Variance	Project Complete (Y or N)?	Actual Variance Commentary
13092940	17585601156216	Elect System Improve - Distr TDSIC	Rockport	Santa Claus	Underground Cable Replacements and Looping	Underground Cable replacement in Christmas Lake Phase B	2017	2017					0%						14K	Y	
14029627	1758540115630	Elect System Improve - Distr TDSIC	Evanville	Evanville	Underground Cable Replacements and Looping	Eastland Mall Und replacement	2017	2017					0%						13%	Y	
13832686	17585601156215	Elect System Improve - Distr TDSIC	Bonnieville	Newburgh	Underground Cable Replacements and Looping	Broadview SUBD Cable REPL Phase 3	2017	2017					0%						22%	Y	Labor was less due to minimal other facilities within the easement - less labor/time required to perform installation
14059110	17585601156225	Elect System Improve - Distr TDSIC	Mt. Vernon	Evanville	Underground Cable Replacements and Looping	Reb 1PH OH to underground	2017	2017					0%						-7%	Y	
13827303	17585401156261	Elect System Improve - Distr TDSIC	Evanville	Evanville	Underground Cable Replacements and Looping	Underground Cable REPL in Village Green Apartments Ph II	2017	2017					0%						16K	Y	
13506089	17585601156220	Elect System Improve - Distr TDSIC	Rockport	Rockport	Underground Cable Replacements and Looping	underground Cable replace in Reo Heights Sub	2017	2017					0%						-28%	Y	Indemnity weather caused poor ground conditions and slower installation, resulting in additional labor and restoration costs
14041755	17585401156218	Elect System Improve - Distr TDSIC	Evanville	Evanville	Underground Network Upgrades	Chestnut circuit Tie w. Mulberry Network and Court Street	2017	2017					0%						-17%	Y	
14306087	17585401156237	Elect System Improve - Distr TDSIC	Evanville	Evanville	Underground Network Upgrades	Replacement of network transformer CM-22 3000A 1BT	2017	2017					0%						31%	Y	Labor cost was less than estimated due to utilization of internal construction resources and required less traffic control. Estimate assumed external contract construction labor
13795063	17585401156251	Elect System Improve - Distr TDSIC	Evanville	Evanville	Underground Network Upgrades	Rugi Nat Trans CM-22 3000A Station N1	2017	2017					0%						34%	Y	Labor was less due to the use of internal crews and required less traffic control
13501940	17585601156213	Elect System Improve - Distr TDSIC	Bonnieville	Newburgh	Underslung Replacements	Convert d1397 to a GDAB - VANADA-HATFIELD	2017	2017					0%						-11%	Y	
13501942	17585401156228	Elect System Improve - Distr TDSIC	Evanville	Evanville	Underslung Replacements	convert d1145 to a GDAB - VILLA HENNE-NOTHERNWOOD	2017	2017					0%						-6%	Y	
13501873	17585401156226	Elect System Improve - Distr TDSIC	Evanville	Evanville	Underslung Replacements	convert d1688 to a GDAB- RIVERSIDE DR-CIDGE AVE	2017	2017					0%						3%	Y	
13501831	17585401156223	Elect System Improve - Distr TDSIC	Evanville	Evanville	Underslung Replacements	convert d1219 to a GDAB - PERLELESS DR-MARK RD	2017	2017					0%						17%	Y	
13501261	17585401156219	Elect System Improve - Distr TDSIC	Evanville	Evanville	Underslung Replacements	convert d1220 to a GDAB - LAUNDALE-ELLENWOOD 2	2017	2017					0%						19%	Y	
13501829	17585401156222	Elect System Improve - Distr TDSIC	Evanville	Evanville	Underslung Replacements	convert d1133 to a GDAB - PARKLAWN-THOMPSON AVE	2017	2017					0%						20%	Y	Labor was less due to unneeded traffic control
13501789	17585401156220	Elect System Improve - Distr TDSIC	Evanville	Evanville	Underslung Replacements	convert d1451 to a GDAB - Mitchell Rd-PERLELESS RD	2017	2017					0%						35%	Y	Labor was less due to unneeded traffic control
13960254	17585601156221	Elect System Improve - Distr TDSIC	Rockport	Santa Claus	Underslung Replacements	Convert Ex inline switch to a GDAB D2490	2017	2017					0%						-9%	Y	
13501838	17585401156225	Elect System Improve - Distr TDSIC	Evanville	Evanville	Underslung Replacements	convert d1332 to a GDAB - POLLACK AVE-GREEN COVE	2017	2017					0%						24%	Y	Labor cost was less than estimated due to utilization of internal construction resources and required less traffic control. Estimate assumed external contract labor
13960433		Elect System Improve - Distr TDSIC	Evanville	Evanville	Underslung Replacements	Convert Ex inline switch to a GDAB D1223	2017	2017	Project cancelled in Period 2				0%	Switch was determined to be a Gang Operated Air Break switch ("GODAB"), replaced by a new switch outside of the TDSIC program					0%	Cancelled	
13504047		Elect System Improve - Distr TDSIC	Evanville	Evanville	Underslung Replacements	Convert Ex inline switch to a GDAB D1265	2017	2017	Project cancelled in Period 2				0%	Switch was determined to be a GODAB Switch, replaced outside of the TDSIC program					0%	Cancelled	
14159372	1854E772001J 17197901CC7012	Elect Pole Replacement - Distr TDSIC	Various	Wood Pole Replacements	2017 wood pole replacements	2017 wood pole replacements	2017	2017					0%						20%	Y	Costs were only through October 31, 2017 due to Supreme Court decision on multiple-unit projects
13602026	17585601156223	Elect System Improve - Distr TDSIC	Mt. Vernon	Mt. Vernon	Underground Cable Replacements and Looping	Replace 600 Amp Live Front SWG PMH-11	2019	2019					0%						-11%	Y	
13966024	17202701E16042	Elect Substation - Trans TDSIC	Evanville	Evanville	System Protection Relay Upgrades	Relay RFL-ORS 126-168-288-388	2017	2017					0%						56%	Y	Implemented new relays with technology that reduced engineering, material and construction costs.
13970715	17202701E16043	Elect Substation - Trans TDSIC	Evanville	Evanville	System Protection Relay Upgrades	Relay replacement-VIP 188-388 40B	2017	2017					0%						72%	Y	Implemented new relays with technology that reduced engineering, material and construction costs.
13703502		Elect System Improve - Distr TDSIC	Evanville	Evanville	Underground Cable Replacements and Looping	Replace 600 Amp Live Front SWGR PMH-9	2017	2017					0%						0%	Y	Bundled with Maximo project 14364B06 for efficiencies
13616346		Elect System Improve - Distr TDSIC	Evanville	Evanville	12kV Circuit Rebuilds and Looping	3PH circuit Tie-Mehr Sub N. to St Joe Schenck	2018	2018	Project cancelled in Period 2				0%	The project was completed in a non-TDSIC transmission project in late 2016					0%	Cancelled	
13519156	18585601156217	Elect System Improve - Distr TDSIC	Bonnieville	Newburgh	12kV Circuit Rebuilds and Looping	Newburgh and Hwy 662 circuit Tie Capacitor upgrade	2018	2018					0%						-39%	Y	Labor cost was higher due to difficult terrain, having multiple modifications on and off the project due to storm supports now available and emergency work. Contract crews that are available are more efficient and timelier to work storms than trying to pull crews from outside our footprint
13616576	17585601156233	Elect System Improve - Distr TDSIC	Bonnieville	Newburgh	12kV Circuit Rebuilds and Looping	Newburgh CCT - Reconstructor	2018	2018					0%						-34%	Y	Additional labor was required for backyard basement work. Actual cost of material was higher than estimated
13501857	17585401156281	Elect System Improve - Distr TDSIC	Evanville	Evanville	12kV Circuit Rebuilds and Looping	3Phase circuit Tie along Dado Flyer Rd	2018	2018					0%						-39%	Y	Additional labor was required for maneuvering around unknown adjacent private facilities, inclement weather, and additional traffic control
13501870	17585401156282	Elect System Improve - Distr TDSIC	Evanville	Evanville	12kV Circuit Rebuilds and Looping	RED BANK circuit 3PH replace copper conductor	2018	2018					0%						-18%	Y	
13505894	17585401156262	Elect System Improve - Distr TDSIC	Evanville	Evanville	12kV Circuit Rebuilds and Looping	3Phase circuit Tie along St Joseph Rd	2018	2018					0%						18%	Y	
13505887	18585401156241	Elect System Improve - Distr TDSIC	Evanville	Evanville	12kV Circuit Rebuilds and Looping	3PH circuit Tie along Seminary Road	2018	2018					0%						39%	Y	Labor cost was due to utilization of in-house crews and less tree trimming required than estimated
13613315	17585601156307	Elect System Improve - Distr TDSIC	Evanville	Evanville	12kV Circuit Rebuilds and Looping	NFT Autumn 3PH circuit Tie along St Joe Ave	2018	2018					0%						12%	Y	
13616347	18585401156210	Elect System Improve - Distr TDSIC	Evanville	Evanville	12kV Circuit Rebuilds and Looping	Fifth Ave and Highland circuit Tie upgrade	2018	2018					0%						-19%	Y	Additional labor was required for backyard easement work. Actual cost of material was higher than estimated
13611510	17585501156237	Elect System Improve - Distr TDSIC	Mt. Vernon	Mt. Vernon	12kV Circuit Rebuilds and Looping	Springfield, Morris 3PH circuit Tie-McKinney Rd II	2018	2018					0%						-12%	Y	
13602293	17585501156239	Elect System Improve - Distr TDSIC	Mt. Vernon	Mt. Vernon	12kV Circuit Rebuilds and Looping	Springfield, Morris 3PH circuit Tie-McKinney Rd I	2018	2018					0%						17%	Y	

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Maximo Work Order Number	Owner/Power Plant Number	ABM	OC	City	TDSIC Program	Maximo Short Description	Previous Planned Year as of 4/30/21	Current Planned Year	Planned Year Variance Commentary	Original Settlement Estimate	Previous Filled Capital Estimate as of 4/30/2021	Current Capital Estimates	Estimate S Variance	Estimate S Variance	Estimate Variance Commentary	Actual S 10/1/21 - 10/31/21)	Actual S since TDSIC Inception (Thru 10/31/21)	Actual S Variance	Actual % Variance	Project Complete (Y or N?)	Actual Variance Commentary
13503767	1758540156278	Elec System Improve - Distr TDSIC	Evansville	Evansville	4KV Conversions	Bellemeade Ave circuit Conversion (Ellenwood Sub) Ph II	2018	2018					0%					-33%	Y	Additional construction labor was required for backyard easement work as well as additional traffic control	
11505816	1758540156275	Elec System Improve - Distr TDSIC	Evansville	Evansville	4KV Conversions	North Weinbach Ave circuit Conv (Ellenwood Sub) Phase 1	2018	2018					0%					-38%	Y	Additional labor required due to poor weather that impacted construction efficiency. The project had to stop work due to inability to use certain materials as originally designed. Additional streetlight material required to bring existing streetlights up to current standard of LEDs. It was necessary to replace 250' of existing 4KV 10A PH with 1/2 due to condition of existing facilities creating a safety issue when transferring load for the project	
13505818	1758540156289	Elec System Improve - Distr TDSIC	Evansville	Evansville	4KV Conversions	South Weinbach Ave circuit Conv (Ellenwood Sub)	2018	2018					0%					-29%	Y	Working with the City of Evansville to coordinate their ongoing street rehabilitation required numerous delays. This was followed with additional delays due to limited access and backyard access issues for higher labor costs. Added 600' of 10A 1/0 AAC to replace 330' spacer because of inadequate insulation rating per the standard	
13756449	1758540156278	Elec System Improve - Distr TDSIC	Evansville	Evansville	4KV Conversions	North Weinbach Ave circuit Conv (Ellenwood Sub) Phase 2	2018	2018					0%					-51%	Y	Additional construction labor was required for backyard easement work as well as additional traffic control	
13997103	1758540156216	Elec System Improve - Distr TDSIC	Evansville	Evansville	4KV Conversions	Bellemeade Ave circuit Conversion (Ellenwood Sub) PHII	2018	2018					0%					-15%	Y	Additional construction labor was required for backyard easement work as well as additional traffic control	
13997203	1758540156227	Elec System Improve - Distr TDSIC	Evansville	Evansville	4KV Conversions	Bellemeade Ave circuit Conversion (Ellenwood Sub) PHIII	2018	2018					0%					-32%	Y	Additional construction labor was required for backyard easement work as well as additional traffic control	
14029204	1758540156293	Elec System Improve - Distr TDSIC	Evansville	Evansville	4KV Conversions	Washington Ave circuit Conversion (Ellenwood Sub) Ph I	2018	2018					0%					36%	Y	Additional construction labor was required for backyard easement work as well as additional traffic control	
14029209	1758540156294	Elec System Improve - Distr TDSIC	Evansville	Evansville	4KV Conversions	Washington Ave circuit Conversion (Ellenwood Sub) Ph II	2018	2018					0%					-28%	Y	Additional labor required due to limited access for backyard work within project area	
14145309	1758540156299	Elec System Improve - Distr TDSIC	Evansville	Evansville	4KV Conversions	First Ave & Igheheart circuit CONV (Igheheart Sub) Ph I	2018	2018					0%					-14%	Y		
13500016	1758550156234	Elec System Improve - Distr TDSIC	Mt. Vernon	Mt. Vernon	4KV Conversions	East Main circuit CONV (Mt. Vernon Main Sub) Ph I	2018	2018					0%					3%	Y		
13500051	1758550156234	Elec System Improve - Distr TDSIC	Mt. Vernon	Mt. Vernon	4KV Conversions	North Main circuit CONV (Mt. Vernon Main Sub)	2018	2018					0%					5%	Y		
13500081	1758550156231	Elec System Improve - Distr TDSIC	Mt. Vernon	Mt. Vernon	4KV Conversions	OH Refiner #2 circuit CONV (Mt. Vernon Main)	2018	2018					0%					17%	Y		
13855752	1758550156233	Elec System Improve - Distr TDSIC	Mt. Vernon	Mt. Vernon	4KV Conversions	ESGO, Sec Dist, East Main circuit, 4KV Conversions East Main circuit CONV (Mt. Vernon Main Sub)	2018	2018					0%					7%	Y		
13997001	1758540156011	Elec System Improve - Distr TDSIC	Evansville	Evansville	Distribution Automation	2018- Distribution Automation #1 Ellerwood and Stedwell circuits	2018	2018					0%					-7%	Y	Additional contract labor was required for the initial development of our new Lazer Distribution Automation control schemes	
13997031	1758540156026	Elec System Improve - Distr TDSIC	Evansville	Evansville	Distribution Automation	2018- Distribution Automation #2 Kritzville and Saint Joseph Ave circuits	2018	2018					0%					-12%	Y		
13997067	1758540156238	Elec System Improve - Distr TDSIC	Mt. Vernon	Mt. Vernon	Distribution Automation	2018- Distribution Automation #3 Ford Rd and Copperline Rd circuits	2018	2018					0%					-36%	Y	Additional material cost for the new Distribution Automation standards	
13505960	1758560156232	Elec System Improve - Distr TDSIC	Boonville	Rockport	Distribution Capacitor Replacements	Tennyson circuit - capacitor upgrade	2018	2018					0%					-30%	Y	Actual cost of material and labor was higher than estimate	
13501832	1758540156295	Elec System Improve - Distr TDSIC	Evansville	Evansville	Distribution Capacitor Replacements	Pearlrod Road circuit - capacitor upgrade	2018	2018					0%					0%	Y		
13505837	1758540156296	Elec System Improve - Distr TDSIC	Evansville	Evansville	Distribution Capacitor Replacements	Kasson circuit - capacitor upgrade	2018	2018					0%					26%	Y	Labor cost was less than estimated due to utilization of internal construction resources and reduced loss traffic control. Estimate assumed external contract construction labor	
13605900	1758540156301	Elec System Improve - Distr TDSIC	Evansville	Evansville	Distribution Capacitor Replacements	Old State Road circuit - capacitor upgrade	2018	2018					0%					14%	Y		
13605904	1758540156308	Elec System Improve - Distr TDSIC	Evansville	Evansville	Distribution Capacitor Replacements	Union Township circuit - capacitor upgrade	2018	2018					0%					7%	Y	Labor cost was less than estimated due to utilization of internal construction resources and required less traffic control. Estimate assumed external contract construction labor	
13501925	1758550156228	Elec System Improve - Distr TDSIC	Francisco	Stedwell	Distribution Capacitor Replacements	Stedwell circuit - capacitor upgrade	2018	2018					0%					9%	Y		
13500037	1758550156229	Elec System Improve - Distr TDSIC	Francisco	Winslow	Distribution Capacitor Replacements	Winslow circuit - capacitor upgrade	2018	2018					0%					4%	Y		
13605937	1758550156236	Elec System Improve - Distr TDSIC	Mt. Vernon	Mt. Vernon	Distribution Capacitor Replacements	Springfield circuit - capacitor upgrade	2018	2018					0%					30%	Y	Labor cost was less than estimated due to utilization of internal construction resources and required less traffic control. Estimate assumed external contract construction labor	
13505928	1758560156226	Elec System Improve - Distr TDSIC	Rockport	Rockport	Distribution Capacitor Replacements	Rose Hill circuit - capacitor upgrade	2018	2018					0%					-28%	Y	Additional labor cost to replace newly installed switch bank that failed	
13684740	1820270118011	Elec Substation Trans TDSIC	Boonville	Newburgh	Instrument Transformer Replacements	Culley PT replacements	2018	2018					0%					-10%	Y		
13670917	1720270118029	Elec Substation - Trans TDSIC	Evansville	Evansville	Instrument Transformer Replacements	Northwest PT replacements	2018	2018					0%					27%	Y	Labor costs were less due to utilizing internal engineering. There were additional labor savings due to contractor bid less than estimate	
14035346	1720270156204	Elec System Improve - Trans TDSIC	Evansville	Haubstadt	Optical Ground Wire	OPGW - St Wendell to Scott Twp. (Y34) 5.6mi	2018	2018					0%					0%	Y		
14035349	1720270156205	Elec System Improve - Trans TDSIC	Evansville	Evansville	Optical Ground Wire	OPGW - Stringtown to Mohr (Y30) 3.6 mi	2018	2018					0%					9%	Y		
14039524	1720270156206	Elec System Improve - Trans TDSIC	Rockport	Santa Clause	Optical Ground Wire	Santa Claus to Newtonville OPGW Addition (12.9 miles)	2018	2018					0%					-25%	Y	Additional labor and material costs to perform all change outs in the original analyzed areas	
14155363	5854CS6001	Elec System Improve - Distr TDSIC	Various	PCB Transformer Replacements	PCB transformers replacement-2018	2018	2018					0%						10%	Y		
14080654	1820270118011	Elec Substation - Trans TDSIC	Mt. Vernon	Mt. Vernon	Substation Arrestor Replacements	Replace arresters: BENTON CORNER-transformer highside	2018	2018					0%					-127%	Y	Switching for outage was extensive and required significant overtime hours to avoid long outages for system reliability. Work to change arrestors was more complicated than expected	

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CEI South Electric TDSIC Plan Projects																					
Maxime Work Order Number	Ordn/Power Plant Number	ARM	OC	City	TDSIC Program	Maxime Short Description	Previous Planned Year as of 4/30/21	Current Planned Year	Planned Year Variance Commentary	Original Estimate	Previous Filed Capital Estimate as of 4/30/2021	Current Capital Estimate	Estimate % Variance	Estimate % Variance Commentary	Actual \$ Var 5/19/21 - 10/31/21	Actual \$ Since TDSIC Inception (thru 10/31/21)	Actual \$ Variance	Actual % Variance	Project Complete (Y or N?)	Actual Variance Commentary	
14030676	1B202701118021	Elec Substation - Trans TDSIC	Mt. Vernon	Mt. Vernon	Substation Arrestor Replacements	Replace arrestors: MT VERNON MAIN-NW 177-Fencalan-Brown	2018	2018					0%					40%	Y	[Material costs were less than estimated. Construction performed by internal resources]	
14034482	17202701118033	Elec Substation - Trans TDSIC	Bonnieville	Newburgh	Substation Circuit Breaker Replacements	Replace: Culley 138KV OCB 2388, 2500, 2688 & 69KV OCB 488, 126	2018	2018					0%					-18%	Y	[Construction on the Culley breakers had to be performed in two phases due to equipment availability. The cost savings could only be obtained on weekends resulting in a substantial amount of overtime work. Splitting the construction into two phases and weekends resulted additional mobilization charges]	
14034982		Elec Substation - Trans TDSIC	Fort Branch	Fl. Branch	Substation Circuit Breaker Replacements	FORT BRANCH RURAL 188 - 488KV	2018	2018					0%					100%	Y	[Combined with Maximo project 14034983 (Fl. Branch Transformer 1 replacement) due to efficiencies]	
13954609		Elec Substation - Distr TDSIC	Fort Branch	Fl. Branch	Substation Circuit Breaker Replacements	FORT BRANCH RURAL 488 - 4858830	2018	2018					0%					100%	Y	[Combined with Maximo project 13954628 (Fl. Branch Transformer 2 replacement) due to efficiencies]	
13676312	17202701116026	Elec Substation - Rockport	Rockport	Rockport	Substation Circuit Breaker Replacements	Replacement of GRANDVIEW 12KV circuit breaker 1	2018	2018					0%					37%	Y	[Labor came in under on bids due to efficiencies of bundling multiple projects]	
13625321	17202701118427	Elec Substation - Distr TDSIC	Rockport	Rockport	Substation Circuit Breaker Replacements	Replacement of GRANDVIEW 12KV circuit Breaker 2	2018	2018					0%					45%	Y	[Labor came in under on bids due to efficiencies of bundling multiple projects together]	
14038891	17202701116028	Elec Substation - Rockport	Rockport	Rockport	Substation Circuit Breaker Replacements	ROCKPORT 1BB - 4859588	2018	2018					0%					-5%	Y		
14038897	17202701116029	Elec Substation - Distr TDSIC	Rockport	Rockport	Substation Circuit Breaker Replacements	ROCKPORT 1BB - 4859588	2018	2018					0%					-11%	Y		
13950501	17202701116070	Elec Substation - Distr TDSIC	Evansville	Evansville	Substation Transformer Replacements	GRIEN OATS T2 - A5-196	2018	2018					0%					-2%	Y	[Construction cost were higher due to addition of driveway and gate (or access to site. Increased labor and material for the relocation of distribution circuit exits compared to estimate)]	
13964628	17202701116041	Elec Substation - Distr TDSIC	Fort Branch	Fl. Branch	Substation Transformer Replacements	FORT BRANCH RURAL T2 - HUBOTS	2018	2018					0%					41%	Y	[Labor came in under on bids due to efficiencies of bundling multiple projects]	
14034985	17202701116040	Elec Substation - Distr TDSIC	Fort Branch	Fl. Branch	Substation Transformer Replacements	FORT BRANCH RURAL T2 - 5217850	2018	2018					0%					-12%	Y	[Labor was higher than estimate due to the need to use a mobile sub for load requirements and higher material costs due to regulators along with their oil containment]	
13664609	17202701118028	Elec Substation - Trans TDSIC	Rockport	Rockport	Substation Transformer Replacements	Grandview Sub 138_69 Transformer Upgrade (\$0 to 100 MVA)	2018	2018					0%					21%	Y	[Construction cost were higher from bids received compared to estimate due to the need to move existing equipment, removal of old equipment, engineering and permitting, and around and installing a larger transformer in a tight area with the rest of the substation equipment]	
14035034	17202701116030	Elec Substation - Distr TDSIC	Rockport	Rockport	Substation Transformer Replacements	Replacement of GRANDVIEW Dist. SUNSTA Distribution TRF	2018	2018					0%					-13%	Y	[Additional regulators on two circuits were charged out as well due to those controllers not being able to communicate with the new SCADA. This added material and labor to the project]	
14038805	17202701116032	Elec Substation - Distr TDSIC	Rockport	Date	Substation Transformer Replacements	Replacement of SAINT MCINNAD Dist. SUNSTA TRF	2018	2018					0%					-13%	Y	[Labor was higher than estimate due to multiple mobilization for weather and complexity of letting mobile sub in a small area]	
13954173	17202701116049	Elec Substation - Distr TDSIC	Bonnieville	Bonnieville	Supervisory Control and Data Acquisition Upgrades	Bonnieville RTU C_0	2018	2018					0%					6%	Y		
13956009	1B202701118038	Elec Substation - Trans TDSIC	Evansville	Evansville	Supervisory Control and Data Acquisition Upgrades	PPG RTU C_0	2018	2018					0%					49%	Y	[Project cost reduced due to Internal engineering and in-house construction]	
14807820	17202701116068	Elec Substation - Rockport	Santa Clarita	Rockport	Supervisory Control and Data Acquisition Upgrades	Distribution SCADA - Orviley	2018	2018					0%					4%	Y		
13676349	17202701118071	Elec Substation - Rockport	Rockport	Date	Supervisory Control and Data Acquisition Upgrades	Distribution SCADA - St Mtnroad	2018	2018					0%					7%	Y	[The control equipment required was less than originally estimated]	
13623201	1B202701116022	Elec Substation - Trans TDSIC	Evansville	Evansville	System Protection Relay Upgrades	Relay PLC Fiber CONV/Bridged 283-2	2018	2018					0%					37%	Y	[Project cost reduced due to Internal engineering and in-house construction]	
14034435	17202701116052	Elec Substation - Distr TDSIC	Evansville	Evansville	System Protection Relay Upgrades	Relay replacement-Berry T1 and T2 MSC	2018	2018					0%					49%	Y	[Implementing new relay technology that reduced engineering, material and construction costs]	
14034885	17202701116053	Elec Substation - Trans TDSIC	Evansville	Evansville	System Protection Relay Upgrades	Relay replacement-East Ind. 12 and T3 MSC	2018	2018					0%					52%	Y	[Implemented new relay technology that reduced engineering, material and construction costs]	
14034901	17202701116059	Elec Substation - Rockport	Evansville	Evansville	System Protection Relay Upgrades	Relay replacement -EastInd T1 188_ 288	2018	2018					0%					27%	Y	[Implemented new relay technology that reduced engineering, material and construction costs]	
14034931	1B202701116020	Elec Substation - Distr TDSIC	Evansville	Evansville	System Protection Relay Upgrades	Eastside 12KV PHOT-CONTR upgrade	2018	2018	Project cancelled in Period 3				0%	This project has been cancelled due to breaker replacements in 2020.				0%	Cancelled		
14034952	17202701118037	Elec Substation - Trans TDSIC	Evansville	Evansville	System Protection Relay Upgrades	Relay replacement Folt Y4 Y50 2 190-3	2018	2018					0%					20%	Y	[Labor cost was less than estimated due to utilization of internal engineering and construction resource. Estimate assumed external contract engineering and construction labor]	
14035030	17202701116054	Elec Substation - Trans TDSIC	Evansville	Evansville	System Protection Relay Upgrades	Relay replacement-Gateway T2 and T1 MSC	2018	2018					0%					45%	Y	[Implemented new relay technology that reduced engineering, material and construction costs]	
14035125	1B202701116014	Elec Substation - Distr TDSIC	Evansville	Evansville	System Protection Relay Upgrades	AutoSect - Mohr Rd	2018	2018					0%					24%	Y	[Labor cost was less than estimated due to utilization of Internal engineering and construction resources. Estimate assumed external contract engineering and construction labor]	
13626409	1B202701118017	Elec Substation - Trans TDSIC	Evansville	Evansville	System Protection Relay Upgrades	Relay PLC-Fiber CONV-NE 255	2018	2018					0%					29%	Y	[Labor cost was less than estimated due to utilization of Internal engineering and construction resources. Estimate assumed external contract engineering and construction labor]	
13676411	1B202701118034	Elec Substation - Trans TDSIC	Evansville	Evansville	System Protection Relay Upgrades	Relay PLC-Fiber CONV-NW 283-2	2018	2018	..				0%					41%	Y	[Labor cost was less than estimated due to utilization of Internal engineering and construction resources. Estimate assumed external contract engineering and construction labor]	
13635673	1820701118016	Mt. Vernon	Mt. Vernon	Mt. Vernon	System Protection Relay Upgrades	Relay PLC-Fiber CONV-AB Brown 255	2018	2018					0%					1%	Y		
14034951	17202701116051	Elec Substation - Trans TDSIC	Mt. Vernon	Mt. Vernon	System Protection Relay Upgrades	Relay replacement-Farm Bureau T1 and T2 MSC	2018	2018					0%					26%	Y	[Labor cost was less than estimated due to utilization of Internal engineering and construction resources. Estimate assumed external contract engineering and construction labor]	
14039311	17202701118021	Elec System Improve - Trans TDSIC	Evansville	Evansville	Transmission Line Rebuilds	Y76 Phase II-Waderville to New Harmony 9 miles w/ OPGW	2018	2018					0%					13%	Y		
14039315	17202701118027	Elec System Improve - Trans TDSIC	Evansville	Evansville	Transmission Line Rebuilds	Y76 Phase II-County Line 6 miles w/ OPGW	2018	2018					0%					-15%	Y	[Erosion control costs were higher than estimate due to weather. Additional line clearance was needed as well. Very wet conditions required, more matting than estimated]	
14039318	17202701118020	Elec System Improve - Trans TDSIC	Evansville	Evansville	Transmission Line Rebuilds	Y76 Phase II-County Line to Waderville 6.3 miles w/ OPGW	2018	2018					0%					-5%	Y	[Erosion control costs were higher than estimate due to weather. Additional line clearance and rock was needed compared to estimate]	
13506049	18585401155219	Elec System Improve - Distr TDSIC	Bonnieville	Bonnieville	Underground Cable Replacements and Looping	Underground Cable replace in Cambridge Acres	2018	2018					0%					34%	Y		
13091539	18585401155229	Elec System Improve - Distr TDSIC	Newburgh	Newburgh	Underground Cable Replacements and Looping	Meadow Apts Cable Replacement	2018	2018					0%					-14%	Y		
13503224	17585401156277	Elec System Improve - Distr TDSIC	Evansville	Evansville	Underground Cable Replacements and Looping	Underground Cable replace in Carrollton Court Phase I	2018	2018					0%					65%	Y	[Actual labor was less than estimate due to existing unknown conduit locations and labor required for new conduit. This caused the labor to exceed the estimate due to existing labor.]	
13503437	17585401156278	Elec System Improve - Distr TDSIC	Evansville	Evansville	Underground Cable Replacements and Looping	Underground Cable replace in Westhaven Hills	2018	2018					0%					-29%	Y	[Additional labor required to replace two pad mount transformers (field verified during construction to be in poor condition, hydro/valve existing sewer lines, that could not be hand located, and limited access to much of the backyard work)]	
13506040	18585401156242	Elec System Improve - Distr TDSIC	Evansville	Evansville	Underground Cable Replacements and Looping	Underground Cable replace in BRENTWOOD	2018	2018					0%					5%	Y		
13506072	17585401156277	Elec System Improve - Distr TDSIC	Evansville	Evansville	Underground Cable Replacements and Looping	Create 1PH underground Loop on Clover circuit	2018	2018					0%					-23%	Y	[Additional labor required for 120' bore to eliminate splicing of aging conductor that was field verified to be in poor condition]	
13506075	17585401156279	Elec System Improve - Distr TDSIC	Evansville	Evansville	Underground Cable Replacements and Looping	Underground Cable replace in Dale Haven Estates Ph 1	2018	2018					0%					-42%	Y	[Inclement weather caused poor ground conditions and slower installation, resulting in additional labor and restoration costs]	