

State(s) Traversed	Planning Stage	Voltage	In-Service Date	Length (Miles)	Project Name	Estimated Cost (2010 Dollars)
Colorado	In-Service	230 kV	2010	0	Chambers 230/115kV Transmission Intertie Project	\$ 18,000,000
Colorado	Planned	345 kV	2011	82	Midway – Waterton 345kV Transmission Project	\$ 35,000,000
Colorado	Planned	345 kV	2013	95	Pawnee – Smoky Hill 345kV Transmission Project	\$ 131,000,000
Colorado	Planned	115 kV	2010	6	Sandown – Leetsdale 115kV Transmission Project	\$ 11,000,000
Colorado	In-Service	115 kV	2010	4	Ault - Black Hollow Reconductor	\$ 500,000
Colorado	Planned	230 kV	2011	80	Story - Erie	\$ 60,000,000
Colorado	Planned	138 kV	2012	12	Granby - Windy Gap	\$ 12,000,000
Colorado	Planned	230 kV	2012	0	Weld 230/115-kV Transformer	\$ 5,100,000
Colorado	Conceptual	345 kV	2017	124	Pawnee - Daniels Park 345 kV Transmission Project	\$ 65,000,000
Colorado	Planned	345 kV	2017	350	Lamar – Front Range Transmission Project	\$ 287,000,000
Colorado	In-Service	230 kV	2010	1	Portner 230/13.8kV Substation	\$ 5,400,000
Colorado	Planned	230 kV	2012	9	Dixon-Horseshoe 230kV Line	\$ 27,200,000
Colorado	Planned	230 kV	2011	21	Fordham-Fort St. Vrain 230kV Line	\$ 81,700,000
Colorado	Planned	230 kV	2014	0	Boyd 230/115kV Substation Expansion	\$ 2,000,000
Colorado	Planned	115 kV	2016	0	Fort Collins Northeast 115/13.8kV Substation	\$ 5,500,000
Colorado	Planned	230 kV	2013	0	Timberline 230/115kV Substation Expansion	\$ 3,000,000
Colorado	Planned	345 kV	2017	57	Lamar-Vilas 345/230kV Transmission Project	\$ 37,000,000
Colorado	Conceptual	230 kV	2016	90	Ault - Cherokee 230kV Transmission Project	\$ 77,000,000
Colorado	In-Service	115 kV	2010	8	Reader-Airport 115 kV line	\$ 6,000,000
Colorado	In-Service	115 kV	2010	0	Arquea Gulch 115/69 kV Substation	\$ 6,300,000
Colorado	In-Service	115 kV	2010	25	West Canon-Arquea Gulch 115 kV line	\$ 11,800,000
Colorado	In-Service	115 kV	2009	0	Reader 115 kV Upgrade	\$ 4,000,000
Colorado	In-Service	115 kV	2009	0	Greenhorn 115 kV substation	\$ 5,350,000
Colorado	Planned	230 kV	2015	60	Burlington - Wray 230kV Line	\$ 30,069,000
Colorado	Planned	230 kV	2011	79	Big Sandy - Lincoln - Midway 230kV Line Uprate	\$ 12,002,000
Colorado	Planned	115 kV	2011	0	Frenchman Creek 115-kV Capacitor	\$ 1,100,000
Colorado	Planned	230 kV	2012	0	Ault 230/115 kV Transformer	\$ 8,000,000
Colorado	Planned	230 kV	2011	0	Hayden 230/138 kV Transformer Replacement	\$ 4,000,000
Colorado	Planned	138 kV	2011	0	Hayden Reactors	\$ 467,000
Colorado	Planned	115 kV	2011	0	Willoby 115-kV Substation	\$ 5,006,000
Colorado	Planned	230 kV	2011	0	College Lake 230kV Substation	\$ 4,000,000

Colorado	Planned	115 kV	2011	14	West Station-Baculite Mesa 115 kV	\$	11,900,000
Colorado	Planned	115 kV	2011	0	Baculite Mesa 115 kV Substation	\$	10,500,000
Colorado	Planned	115 kV	2011	0	West Station Expansion	\$	3,500,000
Colorado	Planned	115 kV	2011	0	Nyberg 115 kV Substation	\$	5,250,000
Colorado	Planned	115 kV	2011	0	Baculite Mesa-Nyberg 115 kV line	\$	4,200,000
Colorado	Planned	115 kV	2011	5	Baculite Mesa-Airport Memorial 115 kV Rebuild	\$	3,000,000
Colorado	Conceptual	230 kV	2014	7	Bluestone Substation	\$	7,000,000
Colorado	Planned	230 kV	2011	23	Niwot-Gunbarrel LSR Project	\$	17,000,000
Colorado	Planned	115 kV	2013	20	Portland-West Station #2 115 kV transmission line and associated substation expansion/upgrades	\$	12,500,000
Colorado	Planned	115 kV	2013	0	Overton 115 kV substation	\$	5,500,000
Colorado	Planned	115 kV	2013	0	LaJunta Tri-State Interconnect	\$	6,000,000
Colorado	Planned	115 kV	2012	5	Pueblo-Hyde Park-West Station 115 kV transmission line rebuild	\$	2,700,000
Colorado	Planned	115 kV	2014	5	Greenhorn-Reader 115 kV transmission line rebuild	\$	3,000,000
Colorado	Planned	115 kV	2013	0	Reader 115:69 kV transformer replacement	\$	6,500,000
Colorado	Planned	115 kV	2014	17	Estes-Flatiron 115-kV rebuild	\$	18,900,000
Colorado	Planned	115 kV	2013	4	Eldorado - Plainview	\$	-
Colorado	Planned	230 kV	2011	0	Weld PS 230 - 115 kV Transformer Replacement	\$	-
Colorado	Planned	230 kV	2014	25	Story Gulch - Rifle (Ute) 230 kV Transmission Line	\$	24,163,000
Colorado	In-Service	115 kV	2010	1	Comanche - Reader 2nd 115 kV Circuit	\$	-
Colorado	Planned	345 kV	2016	45	Calumet - Comanche Transmission Project	\$	72,000,000
Colorado	Planned	230 kV	2016	95	San Luis Valley - Calumet Transmission Project	\$	108,000,000
Colorado	Planned	230 kV	2017	38	Big Sandy - Calhan 230 kV	\$	-
State Totals				1,407		\$	1,283,107,000

State(s) Traversed	Planning Stage	Voltage	In-Service Date	Length (Miles)	Project Name	Estimated Cost (2010 Dollars)
Nebraska	Planned	115 kV	2011	0	Sidney 115-kV Capacitor	\$ 1,100,000
Nebraska	Conceptual	115 kV	2015	5	Baculite Mesa-Overton 115 kV line rebuild	\$ 2,000,000
State Totals				5		\$ 3,100,000

State(s) Traversed	Planning Stage	Voltage	In-Service Date	Length (Miles)	Project Name	Estimated Cost (2010 Dollars)
Nevada	Planned	500 kV AC	2014	0	NORTHWEST 500/230 KV AUTOTRANSFORMER # 2	\$ 40,000,000
Nevada	Planned	345 kV	2018	42	EAST TRACY TO BLACKHAWK TO MIRA LOMA 345 KV LINE	\$ 65,000,000
Nevada	Conceptual	345 kV	2018	46	WEST TRACY TO FORT SAGE 345 KV LINE	\$ 78,000,000
Nevada	Planned	500 kV AC	2018	16	SUNRISE 500 KV SUBSTATION AND LINE FOLD	\$ 76,000,000
Nevada	Planned	500 kV AC	2012	236	One Nevada Line or ON Line (SWIP Phase I)	\$ 660,000,000
Nevada	Planned	500 kV AC	2013	31	HARRY ALLEN TO NORTHWEST 500 KV LINE # 2	\$ 70,000,000
Nevada	Planned	500 kV AC	2013	75	Northwest to Amargosa Valley 500 kV line	\$ 80,000,000
Nevada	Conceptual	500 kV AC	2015	265	West Side Tie	\$ 300,000,000
Nevada	Planned	500 kV AC	2013	60	Harry Allen - Mead #2 500 kV line	\$ 70,000,000
State Totals				771		\$ 1,439,000,000

State(s) Traversed	Planning Stage	Voltage	In-Service Date	Length (Miles)	Project Name	Estimated Cost (2010 Dollars)
New Mexico	Planned	115 kV	2011	6	Alamogordo Third Source	\$ 3,000,000
New Mexico	Planned	115 kV	2012	0	Alamogordo Dynamic Voltage Support	\$ 21,000,000
New Mexico	In-Service	345 kV	2009	0	Blackwater Life Extension	\$ 13,000,000
New Mexico	In-Service	345 kV	2008	0	Diablo Autotransformer	\$ 4,788,407
New Mexico	In-Service	115 kV	2008	74	KM/MA 115 kV Line Upgrade	\$ 4,000,000
New Mexico	Planned	345 kV	2013	0	Rio Puerco Phase 2	\$ 7,120,000
New Mexico	Planned	345 kV	2010	16	Rio Puerco Phase 1	\$ 41,000,000
New Mexico	In-Service	345 kV	2008	0	Arroyo Autotransformer	\$ 3,088,886
New Mexico	Planned	115 kV	2012	10	Santa Teresa-Montoya 115 kV line	\$ 6,121,537
New Mexico	Planned	115 kV	2013	0	Talavera 115/23.9 kV Substation	\$ 5,685,000
New Mexico	Planned	115 kV	2011	0	Belen Series Reactor	\$ 4,000,000
New Mexico	Planned	115 kV	2010	0	Yah-Ta-Hey Additional Capacitors Phase 1	\$ 1,300,000
New Mexico	Planned	115 kV	2010	0	Mimbres Additional Capacitors	\$ 2,000,000
New Mexico	Planned	115 kV	2012	2	Sandia-North 115 kV Line	\$ 7,000,000
New Mexico	Planned	115 kV	2011	0	Jornada Substation	\$ 3,246,712
New Mexico	Planned	115 kV	2010	0	Santa Teresa 30 MVA Transformer (T2)	\$ 1,600,000
New Mexico	Planned	115 kV	2010	13	Apollo – Jornada Transmission Line	\$ 10,881,000
New Mexico	Planned	115 kV	2011	15	Cox – Apollo Transmission Line	\$ 4,000,000
New Mexico	Planned	115 kV	2012	7	LE1 (Organ) - Jornada Transmission Line	\$ 5,745,168
New Mexico	Planned	115 kV	2013	0	NW2 (Verde) Substation 30 MVA Transformer	\$ 3,620,000
New Mexico	Planned	345 kV	2015	0	Afton Autotransformer	\$ 3,000,000
New Mexico	Planned	115 kV	2022	0	Rio Grande Autotransformers Upgrade	\$ 2,600,000
New Mexico	Planned	115 kV	2015	14	Afton - Airport Transmission Line	\$ 3,025,750
New Mexico	Planned	115 kV	2015	16	Airport – Jornada Transmission Line	\$ 3,025,750
New Mexico	Planned	115 kV	2017	0	Uvas Substation 12 MVA Transformer	\$ 4,000,000
New Mexico	Planned	115 kV	2017	0	Leasburg Substation 30 MVA Transformer	\$ 4,000,000
New Mexico	In-Service	115 kV	2009	1	Corrales Bluffs to Southern 115 kV Line	\$ 1,762,000
New Mexico	In-Service	115 kV	2010	52	Willard-Belen 115 kV Line Rebuild	\$ -
New Mexico	In-Service	115 kV	2009	65	Upgrade Willard-Algodones 115 kV Line	\$ -
New Mexico	Planned	345 kV	2013	0	Ojo 345/115 kV Transformer Replacement	\$ 8,500,000
New Mexico	Planned	345 kV	2014	0	Second Yah-Ta-Hey 345/115 kV Transformer	\$ 13,000,000

New Mexico	Planned	115 kV	2012	0	Moriarty Capacitors	\$ 7,600,000
New Mexico	Planned	115 kV	2011	0	Additional Sandia Shunt Capacitor	\$ 1,136,744
New Mexico	Planned	115 kV	TBD	0	Ojo Voltage Support	\$ 16,500,000
New Mexico	Planned	115 kV	TBD	0	Taos Voltage Support	\$ 16,500,000
State Totals				291		\$ 236,846,954

State(s) Traversed	Planning Stage	Voltage	In-Service Date	Length (Miles)	Project Name	Estimated Cost (2010 Dollars)
South Dakota	In-Service	230 kV	2010	0	Rapid City Voltage Support	\$ -
South Dakota	Planned	230 kV	2011	0	Minnekahta 230/69 kV Substation	\$ 6,500,000
South Dakota	Planned	230 kV	2014	0	St. Onge 230/69 kV Substation	\$ 2,700,000
State Totals				0		\$ 9,200,000

State(s) Traversed	Planning Stage	Voltage	In-Service Date	Length (Miles)	Project Name	Estimated Cost (2010 Dollars)
Texas	In-Service	115 kV	2008	14	Coyote-Montwood 115 kV line	\$ 5,071,169
Texas	Planned	345 kV	2010	0	Picante 345/115 kV Substation	\$ 6,134,574
Texas	In-Service	115 kV	2010	11	Newman-Picante 115 kV line	\$ 6,009,000
Texas	Planned	115 kV	2010	0	Pendale (SE1) 115/13.8 kV Substation	\$ 4,912,897
Texas	In-Service	115 kV	2008	0	Ascarate 115/69 kV Autotransformer Replacement (T4)	\$ 1,795,614
Texas	In-Service	115 kV	2008	7	Newman-Pipeline 115 kV line	\$ 3,999,250
Texas	In-Service	115 kV	2008	5	Rio Grande-Sunset (5700 line) 69 kV to 115 kV Line Upgrade	\$ 1,669,200
Texas	In-Service	115 kV	2008	2	Rio Grande-Mesa 115 kV Line (upgrade)	\$ 250,000
Texas	Planned	115 kV	2019	5	Ripley – Thorn Transmission Line Reconductor	\$ 2,257,829
Texas	In-Service	115 kV	2008	2	Austin North - Dyer Transmission Line Reconductor	\$ 637,300
Texas	In-Service	115 kV	2008	1	Ascarate - Copper Transmission Line Reconductor	\$ 650,000
Texas	In-Service	115 kV	2008	0	Jornada Substation 30 MVAR Capacitor Bank	\$ 300,000

Texas	In-Service	115 kV	2009	0	Ripley (NW1) Substation 30 MVA Transformer	\$	4,362,208
Texas	In-Service	115 kV	2009	0	Pelicano (NS2) Substation 45 MVA Transformer	\$	3,662,013
Texas	Planned	115 kV	2012	9	Caliente-Coyote (16700) Transmission Line Rebuild & Reconductor	\$	3,667,307
Texas	Planned	115 kV	2010	0	SC1 (Thomason) Substation 30 MVA Transformer	\$	4,289,984
Texas	In-Service	115 kV	2010	5	Picante (NC1) - Biggs Transmission Line	\$	319,286
Texas	In-Service	115 kV	2010	5	Picante (NC1) – Global Reach Transmission Line	\$	2,250,000
Texas	In-Service	115 kV	2009	1	Marlow - Trowbridge Transmission Line Reconductor	\$	496,355
Texas	Planned	115 kV	2010	4	Global Reach - Vista Transmission Line Reconductor	\$	450,000
Texas	Planned	115 kV	2010	6	Austin North - Mesa Transmission Line Reconductor	\$	684,900
Texas	Planned	115 kV	2010	4	Wrangler - Sparks Transmission Line Reconductor	\$	3,006,510
Texas	Planned	115 kV	2010	0	Global Reach Substation 30 MVAR Capacitor Bank	\$	375,000
Texas	Planned	115 kV	2010	0	Picante Substation 30 MVAR Capacitor Bank	\$	375,000
Texas	Planned	115 kV	2011	0	Leo Substation Upgrade from 69 kV to 115 kV	\$	3,650,000
Texas	Planned	115 kV	2011	0	LE1 (Organ) Substation	\$	5,771,198
Texas	Planned	115 kV	2012	0	NE1 Substation	\$	4,575,000
Texas	Planned	115 kV	2011	4	Leo - Dyer (6500) Transmission Line Upgrade to 115 kV	\$	1,295,131
Texas	Planned	115 kV	2011	4	Leo - Milagro (7800) Transmission Line Upgrade to 115 kV	\$	2,500,000
Texas	In-Service	115 kV	2011	1	Ascarate-Trowbridge Transmission Line Reconductor	\$	150,000
Texas	Planned	115 kV	2011	6	Newman-Milagro (11600) Line Rebuild & Reconductor	\$	1,658,000
Texas	Planned	115 kV	2011	0	Sparks Substation Capacitor Bank	\$	450,000
Texas	Planned	115 kV	2011	0	Montoya Substation Capacitor Bank	\$	450,000
Texas	Planned	115 kV	2011	0	Wrangler Substation Capacitor Bank	\$	450,000
Texas	Planned	115 kV	2012	0	Airport Substation Transformer (T2)	\$	4,531,800
Texas	Planned	115 kV	2013	0	Global Reach Substation Transformer (T2)	\$	3,021,000
Texas	Planned	115 kV	2018	0	NE1 Substation Transformer (T2)	\$	4,575,000
Texas	Planned	115 kV	2014	0	Pendale (SE1) Substation Transformer (T2)	\$	3,562,500
Texas	Planned	115 kV	2015	0	NW3 (Transmountain) Substation Transformer	\$	3,950,000
Texas	Planned	115 kV	2015	0	Global Reach Substation Capacitor Bank	\$	450,000
Texas	Planned	115 kV	2015	0	Picante Substation Capacitor Bank	\$	450,000
Texas	Planned	115 kV	2017	0	Pipeline Substation 30 MVA Transformer	\$	4,000,000
Texas	In-Service	115 kV	2010	0	Ascarate T5 Autotransformer Replacement	\$	2,000,000
Texas	Planned	115 kV	2016	2	Sol – Vista Transmission Line Upgrade	\$	923,452

Texas	Planned	115 kV	2016	0	Lane 115/69 kV Autotransformer Upgrade from 100 MVA to 150 MVA or Addition of 2nd 100 MVA Autotransformer	\$ 1,300,000
Texas	Conceptual	115 kV	2016	7	Caliente-Vista Line Reconductor	\$ -
State Totals				105		\$ 107,338,477

State(s) Traversed	Planning Stage	Voltage	In-Service Date	Length (Miles)	Project Name	Estimated Cost (2010 Dollars)
Wyoming	Planned	115 kV	2019	160	Central Wyoming Transmission Improvements	\$ 50,000,000
Wyoming	Planned	115 kV	2013	94	Yellowtail - South	\$ 15,000,000
Wyoming	In-Service	230 kV	2009	50	Donkey Creek-Pumpkin Buttes 230 kV Line	\$ 17,000,000
Wyoming	Planned	230 kV	2010	60	Pumpkin Buttes-Windstar 230 kV Line	\$ 22,500,000
Wyoming	In-Service	115 kV	2010	0	Teckla DVAR	\$ 6,000,000
Wyoming	In-Service	230 kV	2009	130	Hughes Transmission Project	\$ -
Wyoming	Planned	230 kV	2014	60	Teckla-Osage 230 kV line	\$ 10,300,000
Wyoming	Planned	345 kV	2013	10	Arrow - Archer - Cheyenne Transmission Project	\$ 31,691,000
Wyoming	Planned	230 kV	2013	0	Cheyenne South Substation	\$ 10,000,000
Wyoming	Planned	115 kV	2011	0	East Business Park 115 kV substation	\$ 3,750,000
Wyoming	Planned	115 kV	2012	0	NCAR 115 kV substation	\$ 2,000,000
Wyoming	Planned	115 kV	2013	0	Swan Ranch 115 kV substation	\$ 2,500,000
Wyoming	Planned	115 kV	2012	1	Happy Jack-NCAR 115 kV Line	\$ 550,000
Wyoming	Planned	115 kV	2013	3	Corlett-Swan Ranch 115 kV line	\$ 1,725,000
Wyoming	Planned	115 kV	2013	6	Swan Ranch-Cheyenne South 115 kV line	\$ 3,266,000
State Totals				574		\$ 176,282,000

State(s) Traversed	Planning Stage	Voltage	In-Service Date	Length (Miles)	Project Name	Estimated Cost (2010 Dollars)
Multiple	Conceptual	500 kV AC	2020	2500	High Plains Express Transmission Project	\$ 5,000,000,000
Multiple	In-Service	230 kV	2008	60	Mead – Davis	\$ -
Multiple	Planned	500 kV DC	2015	725	TransWest Express Project	\$ 3,000,000,000
Multiple	Planned	500 kV AC	2015	500	SunZia Southwest Transmission Project	\$ 1,000,000,000
Multiple	In-Service	230 kV	2010	180	Miracle Mile - Ault	\$ 100,000,000
Multiple	Conceptual	230 kV	2015	70	Shiprock - SW Colorado (Iron Horse) 230 kV Project	\$ 94,604,000
Multiple	Planned	230 kV	2015	75	Osage-Lange 230 kV line	\$ 11,400,000
Multiple	Planned	500 kV AC	2014	339	Southwest Intertie Project or SWIP (SWIP Phase II)	\$ -
Multiple	Planned	345 kV	2014	180	Wyoming-Colorado Intertie	\$ -
Multiple	Conceptual	500 kV AC	2017	250	Las Vegas - Los Angeles Project	\$ 1,100,000,000
Multiple	Conceptual	230 kV	2015	0	WECC - Eastern Interconenction DC Upgrade Project	\$ 600,000,000
Multiple	Conceptual	500 kV DC	2016	800	Centennial West Clean Line	\$ 2,500,000,000
Multiple	Conceptual	345 kV	2014	225	Southline Transmission Project -- (Afton-Apache)	\$ 325,000,000
Multiple	Conceptual	345 kV	2014	20	Tres Amigas Superstation	\$ -
State Totals				5,924		\$ 13,731,004,000

EXHIBIT 5 - 2011 WESTCONNECT PROJECTS SORTED BY SUBREGIONAL PLANNING GROUP

SPG Name	Planning Stage	Voltage	In-Service	Length	Project Name	Estimated Cost (2010 Dollars)
CCPG	Planned	345 kV	2011	82	Midway – Waterton 345kV Transmission Project	\$ 35,000,000
CCPG	Planned	345 kV	2013	95	Pawnee – Smoky Hill 345kV Transmission Project	\$ 131,000,000
CCPG	Planned	115 kV	2010	6	Sandown – Leetsdale 115kV Transmission Project	\$ 11,000,000
CCPG	Planned	230 kV	2011	80	Story - Erie	\$ 60,000,000
CCPG	Planned	115 kV	2019	160	Central Wyoming Transmission Improvements	\$ 50,000,000
CCPG	Planned	138 kV	2012	12	Granby - Windy Gap	\$ 12,000,000
CCPG	Planned	115 kV	2013	94	Yellowtail - South	\$ 15,000,000
CCPG	Conceptual	345 kV	2017	124	Pawnee - Daniels Park 345 kV Transmission Project	\$ 65,000,000
CCPG	Planned	345 kV	2017	350	Lamar – Front Range Transmission Project	\$ 287,000,000
CCPG	Planned	230 kV	2012	9	Dixon-Horseshoe 230kV Line	\$ 27,200,000
CCPG	Planned	230 kV	2011	21	Fordham-Fort St. Vrain 230kV Line	\$ 81,700,000
CCPG	Planned	345 kV	2017	57	Lamar-Vilas 345/230kV Transmission Project	\$ 37,000,000
CCPG	Conceptual	230 kV	2016	90	Ault - Cherokee 230kV Transmission Project	\$ 77,000,000
CCPG	Planned	230 kV	2010	60	Pumpkin Buttes-Windstar 230 kV Line	\$ 22,500,000
CCPG	Planned	230 kV	2014	60	Teckla-Osage 230 kV line	\$ 10,300,000
CCPG	Planned	230 kV	2015	75	Osage-Lange 230 kV line	\$ 11,400,000
CCPG	Planned	230 kV	2015	60	Burlington - Wray 230kV Line	\$ 30,069,000
CCPG	Planned	230 kV	2011	79	Big Sandy - Lincoln - Midway 230kV Line Uprate	\$ 12,002,000
CCPG	Planned	345 kV	2013	10	Arrow - Archer - Cheyenne Transmission	\$ 31,691,000

					Project		
CCPG	Planned	115 kV	2011	14	West Station-Baculite Mesa 115 kV	\$	11,900,000
CCPG	Planned	115 kV	2011	0	Baculite Mesa-Nyberg 115 kV line	\$	4,200,000
CCPG	Planned	115 kV	2011	5	Baculite Mesa-Airport Memorial 115 kV Rebuild	\$	3,000,000
CCPG	Planned	230 kV	2011	23	Niwot-Gunbarrel LSR Project	\$	17,000,000
CCPG	Planned	115 kV	2013	20	Portland-West Station #2 115 kV transmission line and associated substation expansion/upgrades	\$	12,500,000
CCPG	Planned	115 kV	2012	5	Pueblo-Hyde Park-West Station 115 kV transmission line rebuild	\$	2,700,000
CCPG	Planned	115 kV	2014	5	Greenhorn-Reader 115 kV transmission line rebuild	\$	3,000,000
CCPG	Conceptual	115 kV	2015	5	Baculite Mesa-Overton 115 kV line rebuild	\$	2,000,000
CCPG	Planned	115 kV	2014	17	Estes-Flatiron 115-kV rebuild	\$	18,900,000
CCPG	Planned	115 kV	2012	1	Happy Jack-NCAR 115 kV Line	\$	550,000
CCPG	Planned	115 kV	2013	3	Corlett-Swan Ranch 115 kV line	\$	1,725,000
CCPG	Planned	115 kV	2013	6	Swan Ranch-Cheyenne South 115 kV line	\$	3,266,000
CCPG	Planned	115 kV	2013	4	Eldorado - Plainview	\$	-
CCPG	Planned	230 kV	2014	25	Story Gulch - Rifle (Ute) 230 kV Transmission Line	\$	24,163,000
CCPG	Planned	345 kV	2016	45	Calumet - Comanche Transmission Project	\$	72,000,000
CCPG	Planned	230 kV	2016	95	San Luis Valley - Calumet Transmission Project	\$	108,000,000
CCPG	Planned	230 kV	2017	38	Big Sandy - Calhan 230 kV	\$	-
SPG Total				1,835		\$	1,291,766,000

SPG Name	Planning Stage	Voltage	In-Service	Length	Project Name	Estimated Cost (2010 Dollars)
SSPG	Planned	230 kV	2011	30	O'Banion – Elverta/Natomas Double Circuit 230-kV	\$ 79,000,000
SSPG	Planned	345 kV	2018	42	EAST TRACY TO BLACKHAWK TO MIRA LOMA 345 KV LINE	\$ 65,000,000
SSPG	Conceptual	345 kV	2018	46	WEST TRACY TO FORT SAGE 345 KV LINE	\$ 78,000,000
SSPG	Conceptual	230 kV	TBD	55	Tracy-Hurley Uprate	\$ 54,000,000
SSPG	Planned	345 kV	2014	180	Wyoming-Colorado Intertie	\$ -
SPG Total				353		\$ 276,000,000

SPG Name	Planning Stage	Voltage	In-Service	Length	ProjectName	Estimated Cost (2010 Dollars)
SWAT	Planned	115 kV	2011	6	Alamogordo Third Source	\$ 3,000,000
SWAT	Planned	230 kV	2017	42	Blythe – Goldmine Tap	\$ 53,800,000
SWAT	Planned	230 kV	2019	79	Bouse – Kofa	\$ 72,500,000
SWAT	Planned	230 kV	2012	13	Thornton Rd. – Empire	\$ 12,000,000
SWAT	Conceptual	500 kV AC	TBD	0	Northeastern Arizona - Phoenix 500kV line	\$ -
SWAT	Planned	230 kV	2014	21	Desert Basin - Pinal Central 230kV line	\$ 45,865,000
SWAT	Planned	230 kV	2017	8	Dome Tap-Gila	\$ 10,080,000
SWAT	Planned	230 kV	2020	11	Dome Tap – Wellton Mohawk	\$ 10,000,000
SWAT	Planned	230 kV	2014	9	ED2-ED4	\$ 15,100,000
SWAT	Planned	230 kV	2013	9	ED5-ED4	\$ 14,900,000
SWAT	Planned	230 kV	2012	9	Empire – ED5	\$ 16,000,000
SWAT	Planned	230 kV	2015	20	Gila-Knob	\$ 18,200,000
SWAT	Planned	230 kV	2020	22	Goldmine Tap - Knob	\$ 17,729,000

SWAT	Planned	230 kV	2022	52	Headgate Rock – Blythe	\$	5,700,000
SWAT	Planned	230 kV	2014	7	Kofa – Dome Tap	\$	1,700,000
SWAT	Planned	230 kV	2014	15	North Gila - TS8 230kV line	\$	45,279,000
SWAT	Planned	230 kV	2015	12	Palm Valley - TS2 - Trilby Wash 230kV line	\$	18,513,000
SWAT	Planned	115 kV	2011	0	Marana Tap to Marana 115 kV Line Upgrade	\$	681,465
SWAT	Planned	115 kV	2012	9	Marana to Avra Valley 115 kV Line Upgrade	\$	3,816,491
SWAT	Conceptual	500 kV AC	TBD	130	Palo Verde - Saguaro 500kV line	\$	-
SWAT	Planned	500 kV AC	2014	110	Palo Verde Hub - North Gila 500kV #2 line	\$	181,416,000
SWAT	Planned	500 kV AC	2014	28	Delany - Sun Valley 500kV line	\$	58,100,000
SWAT	Planned	230 kV	2015	13	Parker – Headgate Rock	\$	16,500,000
SWAT	Planned	230 kV	2017	64	Parker – Blythe	\$	53,089,000
SWAT	Planned	230 kV	2017	22	Parker – Bouse	\$	17,700,000
SWAT	Planned	230 kV	2014	6	Pinal Central – Randolph 230kV	\$	9,800,000
SWAT	Planned	500 kV AC	2014	30	Pinal West – Pinal Central 500kV & 230kV	\$	55,000,000
SWAT	Planned	230 kV	2019	20	RS17 - RS24 – Abel 230kV	\$	58,000,000
SWAT	Planned	345 kV	TBD	25	RS26 Project	\$	-
SWAT	Planned	345 kV	2013	0	Rio Puerco Phase 2	\$	7,120,000
SWAT	Planned	345 kV	2010	16	Rio Puerco Phase 1	\$	41,000,000
SWAT	Conceptual	230 kV	TBD	0	Sun Valley - TS11 - Buckeye 230kV line	\$	-
SWAT	Conceptual	230 kV	TBD	0	Sun Valley - TS10 - TS11 230kV line	\$	-
SWAT	Planned	230 kV	2014	15	Sun Valley - Trilby Wash 230kV line	\$	39,216,000
SWAT	Conceptual	230 kV	TBD	0	Sun Valley - Morgan 230kV line	\$	-
SWAT	Planned	500 kV AC	2016	40	Sun Valley - Morgan 500kV line	\$	105,641,000
SWAT	Planned	230 kV	2014	5	Sundance - Pinal Central 230kV line.	\$	21,783,000
SWAT	Planned	138 kV	2014	10	Canoa Ranch - Duval CLEAR 138 kV Circuit Extension	\$	8,000,000
SWAT	Planned	138 kV	2017	10	Irvington - Tucson 138 kV Transmission Line Circuit 2	\$	17,500,000
SWAT	Planned	230 kV	TBD	20	Golden Valley 230kV Transmission Line	\$	-

SWAT	Planned	230 kV	2018	56	Griffith - N. Havasu 69/230kV Transmission Line	\$	-
SWAT	Planned	138 kV	2016	4	Marana 138kV Transmission Line	\$	9,000,000
SWAT	Planned	500 kV AC	2014	38	Pinal Central - Tortolita 500 kV Project	\$	104,000,000
SWAT	Planned	138 kV	2017	4	Orange Grove - East Ina 138kV Transmission Line	\$	2,000,000
SWAT	Planned	138 kV	2016	7	Midvale - Spencer 138 Transmission Line	\$	1,000,000
SWAT	Planned	138 kV	2011	15	Tortolita-North Loop 138 kV Quad-Circuit	\$	15,000,000
SWAT	Planned	230 kV	2013	35	CV – Devers II Sub 230kV transmission line	\$	-
SWAT	Planned	230 kV	2016	20	ECSS – Highline, 230kV transmission line	\$	29,500,000
SWAT	Planned	230 kV	2010	9	IV Sub - Dixieland Sub 230kV transmission line	\$	15,000,000
SWAT	Conceptual	230 kV	2018	18	Dixieland - ECSS 230kV transmission line	\$	27,000,000
SWAT	Planned	230 kV	2010	8	Midway – Geothermal Area 230kV line (Phase 1)	\$	15,700,000
SWAT	Planned	230 kV	2012	8	Midway – Geothermal Area; 230kV Line Phase 2	\$	16,000,000
SWAT	Planned	230 kV	2014	65	North Gila- Highline, 230 kV transmission line	\$	-
SWAT	Planned	500 kV AC	2015	500	SunZia Southwest Transmission Project	\$	1,000,000,000
SWAT	Planned	115 kV	2014	5	Apache/Hayden to San Manuel 115 kV Line	\$	6,701,359
SWAT	Conceptual	115 kV	2014	3	Avra Valley to Sandario Tap 115 kV Line Upgrade	\$	1,889,788
SWAT	Conceptual	115 kV	2015	14	Sandario Tap to Three Points 115 kV Line Upgrade	\$	7,737,602
SWAT	Planned	115 kV	2012	10	Santa Teresa-Montoya 115 kV line	\$	6,121,537
SWAT	Planned	138 kV	2012	56	Vail to Valencia 115 - 138kV Conversion	\$	43,000,000
SWAT	Conceptual	230 kV	TBD	7	Westwing - Raceway 230kV line	\$	-
SWAT	Conceptual	230 kV	TBD	0	Yucca - TS8 230kV line	\$	-
SWAT	Conceptual	230 kV	TBD	11	Westwing - El Sol 230kV line	\$	-

SWAT	Conceptual	230 kV	2016	16	Apache to Butterfield 230 kV Line Upgrade	\$	-
SWAT	Conceptual	230 kV	2017	69	Butterfield to Bicknell 230 kV Line Upgrade	\$	-
SWAT	Planned	115 kV	2012	2	Sandia-North 115 kV Line	\$	7,000,000
SWAT	Planned	230 kV	2015	38	Three Terminal Plan Circuit 1	\$	45,817,000
SWAT	Planned	230 kV	TBD	28	Three Terminal Plan Circuit 2	\$	33,800,000
SWAT	Planned	230 kV	TBD	18	Three Terminal Plan Circuit 3	\$	22,703,483
SWAT	Conceptual	230 kV	2013	90	Harcuar Transmission Project (HTP)	\$	-
SWAT	Conceptual	345 kV	TBD	41	Winchester - Vail Double Circuit 345kV Line	\$	-
SWAT	Planned	115 kV	2019	5	Ripley – Thorn Transmission Line Reconductor	\$	2,257,829
SWAT	Planned	115 kV	2012	9	Caliente-Coyote (16700) Transmission Line Rebuild & Reconductor	\$	3,667,307
SWAT	Planned	115 kV	2010	13	Apollo – Jornada Transmission Line	\$	10,881,000
SWAT	Planned	115 kV	2010	4	Global Reach - Vista Transmission Line Reconductor	\$	450,000
SWAT	Planned	115 kV	2010	6	Austin North - Mesa Transmission Line Reconductor	\$	684,900
SWAT	Planned	115 kV	2010	4	Wrangler - Sparks Transmission Line Reconductor	\$	3,006,510
SWAT	Planned	115 kV	2011	15	Cox – Apollo Transmission Line	\$	4,000,000
SWAT	Planned	115 kV	2012	7	LE1 (Organ) - Jornada Transmission Line	\$	5,745,168
SWAT	Planned	115 kV	2011	4	Leo - Dyer (6500) Transmission Line Upgrade to 115 kV	\$	1,295,131
SWAT	Planned	115 kV	2011	4	Leo - Milagro (7800) Transmission Line Upgrade to 115 kV	\$	2,500,000
SWAT	Planned	115 kV	2011	6	Newman-Milagro (11600) Line Rebuild & Reconductor	\$	1,658,000
SWAT	Planned	115 kV	2015	14	Afton - Airport Transmission Line	\$	3,025,750
SWAT	Planned	115 kV	2015	16	Airport – Jornada Transmission Line	\$	3,025,750
SWAT	Planned	115 kV	2016	2	Sol – Vista Transmission Line Upgrade	\$	923,452

SWAT	Conceptual	345 kV	TBD	26	Vail - Irvington (New Substation) - South Loop 345kV Line and Irvington Substation	\$	-
SWAT	Planned	138 kV	2017	10	North Loop - Rillito 138kV Line Reconductor	\$	10,000,000
SWAT	Planned	138 kV	2012	0	Rosemont 138kV Line	\$	20,000,000
SWAT	Conceptual	138 kV	TBD	4	Rancho Vistoso - Sun City 138kV Line	\$	-
SWAT	Planned	138 kV	2012	3	Irvington - 22nd ST 138kV Line Reconductor	\$	4,000,000
SWAT	Planned	138 kV	2017	11	Irvington – Tech Park / Tech Park – Vail 138 kV Line Reconductor	\$	5,000,000
SWAT	Planned	138 kV	2019	14	North Loop - DMP 138kV Line Reconductor	\$	-
SWAT	Planned	500 kV AC	2013	198	NTP Segment 1	\$	-
SWAT	Conceptual	500 kV AC	TBD	21	Abel – RS20 500kV line	\$	-
SWAT	Conceptual	500 kV AC	TBD	200	RS20 – Silver King – Coronado Gen Station 500kV Line	\$	-
SWAT	Conceptual	230 kV	TBD	0	Dinosaur - RS21 230kV	\$	-
SWAT	Conceptual	230 kV	TBD	9	Rogers – Browning 230kV	\$	-
SWAT	Planned	230 kV	TBD	38	Silver King - Browning 230kV	\$	-
SWAT	Planned	230 kV	TBD	1	Superior 230kV Loop-in	\$	-
SWAT	Conceptual	230 kV	TBD	13	Thunderstone - Santan 230kV	\$	-
SWAT	Conceptual	230 kV	TBD	0	Pinnacle Peak - Brandow (with future tie into Rogers or Thunderstone) 230kV	\$	-
SWAT	Conceptual	230 kV	TBD	35	Silver King - Knoll - New Hayden 230kV	\$	-
SWAT	Conceptual	115 kV	TBD	1	New Hayden 115kV station loop-in	\$	-
SWAT	Planned	500 kV AC	2011	70	Pinal Central - Abel/Browning 500/230kV	\$	127,000,000
SWAT	Planned	230 kV	2011	27	SLRC Power Center, Transmission Line	\$	102,000,000
SWAT	Conceptual	115 kV	2016	7	Caliente-Vista Line Reconductor	\$	-
SWAT	Conceptual	230 kV	TBD	0	Mural - San Rafael 230kV	\$	-
SWAT	Planned	138 kV	2013	2	DeMoss Petrie - Tucson 138 kV Line	\$	9,000,000
SWAT	Planned	500 kV AC	TBD	50	Hassayampa - Pinal West 500kV #2	\$	-
SWAT	Planned	230 kV	2011	9	Dinosaur to Abel 230kV line	\$	11,000,000

SWAT	Planned	500 kV AC	2013	15	Delany-Palo Verde 500kV Line	\$	41,661,000
SWAT	Conceptual	500 kV DC	2016	800	Centennial West Clean Line	\$	2,500,000,000
SWAT	Conceptual	345 kV	2014	225	Southline Transmission Project -- (Afton-Apache)	\$	325,000,000
SWAT	Conceptual	230 kV	2014	130	Southline Transmission Project -- (Apache-Saguaro)	\$	225,000,000
SWAT	Planned	138 kV	2017	0	Rancho Vistoso to La Canada 138kV Line Reconductor	\$	-
SWAT	Planned	138 kV	2020	0	Los Reales to Vail Reconductor	\$	5,500,000
SWAT	Conceptual	138 kV	2020	0	Los Reales to Pantano 138kV Line Reconductor	\$	7,500,000
SWAT	Planned	138 kV	2014	0	North East Loop – Rillito 138 kV line Reconductor	\$	1,500,000
SWAT	Planned	138 kV	2016	0	Irvington – Robert Bills-Wilmot 138 kV Line Reconductor	\$	12,500,000
SWAT	Planned	138 kV	2018	0	DeMoss Petrie to North East Loop Reconductor	\$	6,000,000
SWAT	Planned	230 kV	2013	5	Coolidge - Valley Farms	\$	6,500,000
SWAT	Planned	230 kV	2015	17	ED5-Saguaro Northern	\$	27,263,000
SWAT	Planned	230 kV	2015	17	ED5 - Saguaro Southern	\$	27,684,000
SWAT	Planned	230 kV	2017	40	Valley Farms - Oracle	\$	47,877,000
SWAT	Planned	230 kV	2017	20	Tucson - Nogales	\$	25,000,000
SWAT	Planned	230 kV	2019	35	Saguaro - Tucson	\$	44,847,000
SWAT	Planned	230 kV	2020	76	Nogales - Apache	\$	97,627,000
SPG Total				4,341		\$	6,196,279,522

SPG Name	Planning Stage	Voltage	In-Service	Length	Project Name	Estimated Cost (2010 Dollars)
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CCPG and SWAT	Conceptual	500 kV AC	2020	2500	High Plains Express Transmission Project	\$	5,000,000,000
SSPG and SWAT	Planned	500 kV AC	2018	16	SUNRISE 500 KV SUBSTATION AND LINE FOLD	\$	76,000,000
SSPG and SWAT	Planned	500 kV AC	2012	236	One Nevada Line or ON Line (SWIP Phase I)	\$	660,000,000
SSPG and SWAT	Planned	500 kV AC	2013	31	HARRY ALLEN TO NORTHWEST 500 KV LINE # 2	\$	70,000,000
CCPG and SWAT	Conceptual	230 kV	2015	70	Shiprock - SW Colorado (Iron Horse) 230 kV Project	\$	94,604,000
SSPG and SWAT	Planned	500 kV AC	2013	75	Northwest to Amargosa Valley 500 kV line	\$	80,000,000
SSPG and SWAT	Conceptual	500 kV AC	2015	265	West Side Tie	\$	300,000,000
SSPG and SWAT	Planned	500 kV AC	2013	60	Harry Allen - Mead #2 500 kV line	\$	70,000,000
SPG Total				3,253		\$	6,350,604,000

SPG Name	Planning Stage	Voltage	In-Service	Length	Project Name	Estimated Cost (2010 Dollars)
REGIONAL	Planned	500 kV DC	2015	725	TransWest Express Project	\$ 3,000,000,000
REGIONAL	Planned	500 kV AC	2014	339	Southwest Intertie Project or SWIP (SWIP Phase II)	\$ -
REGIONAL	Conceptual	500 kV AC	2017	250	Las Vegas - Los Angeles Project	\$ 1,100,000,000
REGIONAL	Conceptual	500 kV AC	2015	85	North Gila - Imperial Valley #2	\$ 400,000,000
SPG Total				1,399		\$ 4,500,000,000

EXHIBIT 6 - WESTCONNECT TRANSMISSION PLAN OVERVIEW MAPS

This exhibit contains maps of the 2011 WestConnect Transmission Plan. They give a ten-year perspective of the transmission system additions within the WestConnect planning area. Each proposed transmission line is represented by a different color line based upon voltage class. The in-service date is indicated along-side the planned transmission line on each map and is followed by a project lookup number. Details about each project are provided in the lookup tables provided as Exhibits 6-2 through 6-10. In an effort to efficiently display all of the WestConnect Transmission Plans for the next ten years, the maps have been broken down into three separate levels of presentation. The three levels of maps depict the WestConnect-wide EHV system, plans within each Subregional Planning Group’s footprint and plans at a local level.

The WestConnect EHV system map displays the 345 kV and above existing and proposed transmission lines. This map has the precision available when looked at from a Western United States regional perspective. This perspective will include the entire WestConnect planning area and depicts the existing transmission system bold system voltage colors. Subregional planning group maps are provided for the CCPG, SSPG and SWAT planning group and display the 230 kV and above proposed transmission lines. These maps depict the WestConnect Transmission Plan from a subregional perspective.

The local maps show the existing and proposed transmission lines for the Albuquerque, Denver, El Paso, Southern California/Western Arizona, Phoenix, Tucson and Las Vegas areas. These maps depict the WestConnect Transmission Plan from a more localized perspective. This perspective includes only a portion of a state’s geography but includes proposed 115 kV and above WestConnect Transmission Plan lines for the local area depicted. The maps located within this Exhibit are described in the chart below:

Map	Exhibit Number
Area Map Look Up Table	Exhibit 6-2 thru 6-14
WestConnect EHV Overview	Exhibit 6 Map 1
CCPG Overview	Exhibit 6 Map 2
SSPG Overview	Exhibit 6 Map 3
SWAT Overview	Exhibit 6 Map 4
Albuquerque Area	Exhibit 6 Map 5
Denver Area	Exhibit 6 Map 6
El Paso Area	Exhibit 6 Map 7
CRT Study Area	Exhibit 6 Map 8
Phoenix Area	Exhibit 6 Map 9
Tucson Area	Exhibit 6 Map 10
Las Vegas Area	Exhibit 6 Map 11
Northern CCPG Area	Exhibit 6 Map 12

MAP ID LOOKUP TABLE

Lookup ID	Project Name	Planning Stage	In Service Date	Length (Miles)	Cost (2010 Dollars)	Sponsor
2010-131	IV Sub - Dixieland Sub 230kV transmission line	Planned	2010	9	15000000	Imperial Irrigation District
2010-133	Midway – Geothermal Area 230kV line (Phase 1)	Planned	2010	8	15700000	Imperial Irrigation District
2010-153	Picante 345/115 kV Substation	Planned	2010	0	6134574	El Paso Electric Company
2010-155	Pendale (SE1) 115/13.8 kV Substation	Planned	2010	0	4912897	El Paso Electric Company
2010-293	Apollo – Jornada Transmission Line	Planned	2010	13	10881000	El Paso Electric Company
2010-295	Global Reach - Vista Transmission Line Reconductor	Planned	2010	4	450000	El Paso Electric Company
2010-296	Austin North - Mesa Transmission Line Reconductor	Planned	2010	6	684900	El Paso Electric Company
2010-297	Wrangler - Sparks Transmission Line Reconductor	Planned	2010	4	3006510	El Paso Electric Company
2010-383	Pumpkin Buttes-Windstar 230 kV Line	Planned	2010	60	22500000	Black Hills Power
2010-431	Lane-Copper (16900) 69 kV Line Rebuild & Reconductor	Planned	2010	5	2359408	El Paso Electric Company
2010-79	Rio Puerco Phase 1	Planned	2010	16	41000000	Public Service Company of New Mexico
2010-81	Sandown – Leetsdale 115kV Transmission Project	Planned	2010	6	11000000	Public Service Company of Colorado/ Xcel Energy
2011-126	Tortolita-North Loop 138 kV Quad-Circuit	Planned	2011	15	15000000	Tucson Electric Power/ Unisource Energy
2011-16	Alamogordo Third Source	Planned	2011	6	3000000	Public Service Company of New Mexico
2011-169	Story - Erie	Planned	2011	80	60000000	Western Area Power Administration - RMR
2011-178	O’Banion – Elverta/Natomas Double Circuit 230-kV	Planned	2011	30	79000000	Western Area Power Administration - SNR
2011-257	Pantano to Sahuarita 230 kV Line Loop-in to New Tucson	Planned	2011	0	6857876	Southwest Transmission Cooperative
2011-267	Jornada Substation	Planned	2011	0	3246712	El Paso Electric Company
2011-301	LE1 (Organ) Substation	Planned	2011	0	5771198	El Paso Electric Company
2011-304	Cox – Apollo Transmission Line	Planned	2011	15	4000000	El Paso Electric Company
2011-307	Leo - Dyer (6500) Transmission Line Upgrade to 115 kV	Planned	2011	4	1295131	El Paso Electric Company
2011-308	Leo - Milagro (7800) Transmission Line Upgrade to 115 kV	Planned	2011	4	2500000	El Paso Electric Company

2011-310	Newman-Milagro (11600) Line Rebuild & Reconductor	Planned	2011	6	1658000	El Paso Electric Company
2011-368	Fordham-Fort St. Vrain 230kV Line	Planned	2011	21	81700000	Platte River Power Authority
2011-386	Minnekahta 230/69 kV Substation	Planned	2011	0	6500000	Black Hills Power
2011-407	Pinal Central - Abel/Browning 500/230kV	Planned	2011	70	127000000	Salt River Project
2011-409	SLRC Power Center, Transmission Line	Planned	2011	27	102000000	San Luis River Colorado Project
2011-432	Rio Grande-Sunset (5600) 69 kV line Reconductor	Planned	2011	5	191767	El Paso Electric Company
2011-434	Rio Grande – Asarco Tap (5500) 69 kV Line Reconductor	Planned	2011	3	250000	El Paso Electric Company
2011-435	Asarco Tap – Sunset (5900) 69 kV Line Reconductor	Planned	2011	0	600000	El Paso Electric Company
2011-444	Big Sandy - Lincoln - Midway 230kV Line Uprate	Planned	2011	79	12002000	Tri-State Generation and Transmission Association
2011-449	Canoa Ranch 138/13.8 kV Substation	Planned	2011	0	9000000	Tucson Electric Power/ Unisource Energy
2011-466	Sidney 115-kV Capacitor	Planned	2011	0	1100000	Western Area Power Administration - RMR
2011-467	Frenchman Creek 115-kV Capacitor	Planned	2011	0	1100000	Western Area Power Administration - RMR
2011-473	Hayden Reactors	Planned	2011	0	467000	Western Area Power Administration - RMR
2011-475	Dinosaur to Abel 230kV line	Planned	2011	9	11000000	Salt River Project
2011-478	Willoby 115-kV Substation	Planned	2011	0	5006000	Western Area Power Administration - RMR
2011-481	College Lake 230kV Substation	Planned	2011	0	4000000	Platte River Power Authority
2011-482	West Station-Baculite Mesa 115 kV	Planned	2011	14	11900000	Black Hills Energy
2011-483	Baculite Mesa 115 kV Substation	Planned	2011	0	10500000	Black Hills Energy
2011-484	West Station Expansion	Planned	2011	0	3500000	Black Hills Energy
2011-485	Nyberg 115 kV Substation	Planned	2011	0	5250000	Black Hills Energy
2011-486	Baculite Mesa-Nyberg 115 kV line	Planned	2011	0	4200000	Black Hills Energy
2011-487	Baculite Mesa-Airport Memorial 115 kV Rebuild	Planned	2011	5	3000000	Black Hills Energy
2011-489	Niwot-Gunbarrel LSR Project	Planned	2011	23	17000000	Public Service Company of Colorado/ Xcel Energy
2011-49	Midway – Waterton 345kV Transmission Project	Planned	2011	82	35000000	Public Service Company of Colorado/ Xcel Energy
2011-536	East Business Park 115 kV substation	Planned	2011	0	3750000	Cheyenne Light Fuel and Power
2011-64	Marana Tap to Marana 115 kV Line Upgrade	Planned	2011	0	681465	Southwest Transmission Cooperative
2012-134	Midway – Geothermal Area; 230kV Line Phase 2	Planned	2012	8	16000000	Imperial Irrigation District

2012-157	Santa Teresa-Montoya 115 kV line	Planned	2012	10	6121537	El Paso Electric Company
2012-160	Vail to Valencia 115 - 138kV Conversion	Planned	2012	56	43000000	Tucson Electric Power/ Unisource Energy
2012-173	Granby - Windy Gap	Planned	2012	12	12000000	Western Area Power Administration - RMR
2012-185	One Nevada Line or ON Line (SWIP Phase I)	Planned	2012	236	660000000	NV Energy
2012-22	Thornton Rd. – Empire	Planned	2012	13	12000000	Western Area Power Administration - DSW
2012-249	Sandia-North 115 kV Line	Planned	2012	2	7000000	Public Service Company of New Mexico
2012-288	Caliente-Coyote (16700) Transmission Line Rebuild & Reconductor	Planned	2012	9	3667307	El Paso Electric Company
2012-302	NE1 Substation	Planned	2012	0	4575000	El Paso Electric Company
2012-305	LE1 (Organ) - Jornada Transmission Line	Planned	2012	7	5745168	El Paso Electric Company
2012-347	Rosemont 138kV Line	Planned	2012	0	20000000	Tucson Electric Power/ Unisource Energy
2012-348	Point of Interconnection 138kV Switchyard (Rosemont)	Planned	2012	0	8250000	Tucson Electric Power/ Unisource Energy
2012-352	Irvington - 22nd ST 138kV Line Reconductor	Planned	2012	3	4000000	Tucson Electric Power/ Unisource Energy
2012-367	Dixon-Horseshoe 230kV Line	Planned	2012	9	27200000	Platte River Power Authority
2012-37	Empire – ED5	Planned	2012	9	16000000	Western Area Power Administration - DSW
2012-38	Youngs Canyon (Flagstaff) 345kV Interconnection	Planned	2012	0	16714000	Arizona Public Service
2012-497	Pueblo-Hyde Park-West Station 115 kV transmission line rebuild	Planned	2012	5	2700000	Black Hills Energy
2012-537	NCAR 115 kV substation	Planned	2012	0	2000000	Cheyenne Light Fuel and Power
2012-539	Happy Jack-NCAR 115 kV Line	Planned	2012	1	550000	Cheyenne Light Fuel and Power
2012-560	Davis 230 kV Switchyard Rebuild	Planned	2012	0	4651000	Western Area Power Administration - DSW
2012-561	Bouse Tap Rebuilt	Planned	2012	0	7900000	Western Area Power Administration - DSW
2012-65	Marana to Avra Valley 115 kV Line Upgrade	Planned	2012	9	3816491	Southwest Transmission Cooperative
2013-103	Craycroft Barril 138/13.8 kV Substation	Planned	2013	0	3000000	Tucson Electric Power/ Unisource Energy

2013-109	Harrison 138/13.8 kV Substation	Planned	2013	0	12000000	Tucson Electric Power/ Unisource Energy
2013-128	CV – Devers II Sub 230kV transmission line	Planned	2013	35	0	Imperial Irrigation District
2013-159	Talavera 115/23.9 kV Substation	Planned	2013	0	5685000	El Paso Electric Company
2013-176	Yellowtail - South	Planned	2013	94	15000000	Western Area Power Administration - RMR
2013-186	HARRY ALLEN TO NORTHWEST 500 KV LINE # 2	Planned	2013	31	70000000	NV Energy
2013-262	ED5 230 kV Switching Station	Planned	2013	0	16550000	Southwest Public Power Resource Group
2013-263	Harcuvar Transmission Project (HTP)	Conceptual	2013	90	0	Central Arizona Project
2013-315	NW2 (Verde) Substation 30 MVA Transformer	Planned	2013	0	3620000	El Paso Electric Company
2013-34	ED5-ED4	Planned	2013	9	14900000	Western Area Power Administration - DSW
2013-395	NTP Segment 1	Planned	2013	198	0	Dine Power Authority
2013-445	Arrow - Archer - Cheyenne Transmission Project	Planned	2013	10	31691000	Tri-State Generation and Transmission Association
2013-452	North Loop 138 kV Yard Reconfiguration, Three Phases	Planned	2013	0	12000000	Tucson Electric Power/ Unisource Energy
2013-453	DeMoss Petrie - Tucson 138 kV Line	Planned	2013	2	9000000	Tucson Electric Power/ Unisource Energy
2013-464	Northwest to Amargosa Valley 500 kV line	Planned	2013	75	80000000	NV Energy
2013-471	Harry Allen - Mead #2 500 kV line	Planned	2013	60	70000000	NV Energy
2013-490	Delany-Palo Verde 500kV Line	Planned	2013	15	41661000	Arizona Public Service
2013-494	Portland-West Station #2 115 kV transmission line and associated substation expansion/upgrades	Planned	2013	20	12500000	Black Hills Energy
2013-495	Overton 115 kV substation	Planned	2013	0	5500000	Black Hills Energy
2013-496	LaJunta Tri-State Interconnect	Planned	2013	0	6000000	Black Hills Energy
2013-530	Cheyenne South Substation	Planned	2013	0	10000000	Western Area Power Administration - RMR
2013-535	Scatter Wash (TS6) 230/69kV substation	Planned	2013	0	14337000	Arizona Public Service
2013-538	Swan Ranch 115 kV substation	Planned	2013	0	2500000	Cheyenne Light Fuel and Power
2013-540	Corlett-Swan Ranch 115 kV line	Planned	2013	3	1725000	Cheyenne Light Fuel and Power
2013-541	Swan Ranch-Cheyenne South 115 kV line	Planned	2013	6	3266000	Cheyenne Light Fuel and Power
2013-542	Eldorado - Plainview	Planned	2013	4	0	Public Service Company of Colorado/ Xcel Energy
2013-544	Series Capacitor Replacement at Vail (Springerville - Vail)	Planned	2013	0	5500000	Tucson Electric Power/ Unisource

						Energy
2013-563	Coolidge - Valley Farms	Planned	2013	5	6500000	Western Area Power Administration - DSW
2013-73	Pawnee – Smoky Hill 345kV Transmission Project	Planned	2013	95	131000000	Public Service Company of Colorado/ Xcel Energy
2013-78	Rio Puerco Phase 2	Planned	2013	0	7120000	Public Service Company of New Mexico
2014-114	Orange Grove 138/13.8 kV Substation	Planned	2014	0	10000000	Tucson Electric Power/ Unisource Energy
2014-115	Pinal Central - Tortolita 500 kV Project	Planned	2014	38	104000000	Tucson Electric Power/ Unisource Energy
2014-135	North Gila- Highline, 230 kV transmission line	Planned	2014	65	0	Imperial Irrigation District
2014-140	Apache/Hayden to San Manuel 115 kV Line	Planned	2014	5	6701359	Southwest Transmission Cooperative
2014-141	Avra Valley to Sandario Tap 115 kV Line Upgrade	Conceptual	2014	3	1889788	Southwest Transmission Cooperative
2014-156	Padres (SE2) 69/13.8 kV Substation	Planned	2014	0	4081000	El Paso Electric Company
2014-28	Desert Basin - Pinal Central 230kV line	Planned	2014	21	45865000	Salt River Project
2014-33	ED2-ED4	Planned	2014	9	15100000	Western Area Power Administration - DSW
2014-387	Teckla-Osage 230 kV line	Planned	2014	60	10300000	Black Hills Power
2014-388	St. Onge 230/69 kV Substation	Planned	2014	0	2700000	Black Hills Power
2014-4	Duval CLEAR 138kV Switchyard	Planned	2014	0	7500000	Tucson Electric Power/ Unisource Energy
2014-438	Southwest Intertie Project or SWIP (SWIP Phase II)	Planned	2014	339	0	Great Basin Transmission, LLC
2014-446	Tortolita 500 kV Switchyard	Planned	2014	0	15000000	Tucson Electric Power/ Unisource Energy
2014-46	Kofa – Dome Tap	Planned	2014	7	1700000	Western Area Power Administration - DSW
2014-47	Mazatzal loop-in of Cholla-Pinnacle Peak 345kV	Planned	2014	0	22705000	Arizona Public Service
2014-488	Bluestone Substation	Conceptual	2014	7	7000000	Public Service Company of Colorado/ Xcel Energy
2014-493	Wyoming-Colorado Intertie	Planned	2014	180	0	Wyoming-Colorado Intertie, LLC
2014-498	Greenhorn-Reader 115 kV transmission line rebuild	Planned	2014	5	3000000	Black Hills Energy
2014-52	North Gila - TS8 230kV line	Planned	2014	15	45279000	Arizona Public Service
2014-529	Estes-Flatiron 115-kV rebuild	Planned	2014	17	18900000	Western Area Power

						Administration - RMR
2014-531	Southline Transmission Project -- (Afton-Apache)	Conceptual	2014	225	325000000	Southline Transmission, L.L.C.
2014-534	Southline Transmission Project -- (Apache-Saguaro)	Conceptual	2014	130	225000000	Southline Transmission, L.L.C.
2014-547	Story Gulch - Rifle (Ute) 230 kV Transmission Line	Planned	2014	25	24163000	Public Service Company of Colorado/ Xcel Energy
2014-554	North East Loop – Rillito 138 kV line Reconductor	Planned	2014	0	1500000	Tucson Electric Power/ Unisource Energy
2014-575	Tres Amigas Superstation	Conceptual	2014	20	0	Tres Amigas LLC
2014-67	Palo Verde Hub - North Gila 500kV #2 line	Planned	2014	110	181416000	Arizona Public Service
2014-68	Delany - Sun Valley 500kV line	Planned	2014	28	58100000	Arizona Public Service
2014-74	Pinal Central – Randolph 230kV	Planned	2014	6	9800000	Salt River Project
2014-75	Pinal West – Pinal Central 500kV & 230kV	Planned	2014	30	55000000	Salt River Project
2014-87	Sun Valley - Trilby Wash 230kV line	Planned	2014	15	39216000	Arizona Public Service
2014-93	Sundance - Pinal Central 230kV line.	Planned	2014	5	21783000	Arizona Public Service
2014-99	Canoa Ranch - Duval CLEAR 138 kV Circuit Extension	Planned	2014	10	8000000	Tucson Electric Power/ Unisource Energy
2015-139	SunZia Southwest Transmission Project	Planned	2015	500	1000000000	SunZia Transmission, LLC
2015-147	Sandario Tap to Three Points 115 kV Line Upgrade	Conceptual	2015	14	7737602	Southwest Transmission Cooperative
2015-252	Shiprock - SW Colorado (Iron Horse) 230 kV Project	Conceptual	2015	70	94604000	Tri-State Generation and Transmission Association
2015-254	Three Terminal Plan Circuit 1	Planned	2015	38	45817000	Southwest Public Power Resource Group
2015-327	Afton - Airport Transmission Line	Planned	2015	14	3025750	El Paso Electric Company
2015-328	Airport – Jornada Transmission Line	Planned	2015	16	3025750	El Paso Electric Company
2015-343	Willow 345kV Substation	Conceptual	2015	0	16500000	Tucson Electric Power/ Unisource Energy
2015-389	Osage-Lange 230 kV line	Planned	2015	75	11400000	Black Hills Power
2015-39	Gila-Knob	Planned	2015	20	18200000	Western Area Power Administration - DSW
2015-443	Burlington - Wray 230kV Line	Planned	2015	60	30069000	Tri-State Generation and Transmission Association
2015-465	West Side Tie	Conceptual	2015	265	300000000	NV Energy
2015-500	Baculite Mesa-Overton 115 kV line rebuild	Conceptual	2015	5	2000000	Black Hills Energy
2015-502	North Gila - Imperial Valley #2	Conceptual	2015	85	400000000	Energy Capital Partners
2015-548	Series Capacitor Replacement at Vail 345kV Substation	Planned	2015	0	5500000	Tucson Electric Power/ Unisource

	(Greenlee - Vail)					Energy
2015-564	ED5-Saguaro Northern	Planned	2015	17	27263000	Western Area Power Administration - DSW
2015-565	ED5 - Saguaro Southern	Planned	2015	17	27684000	Western Area Power Administration - DSW
2015-57	Palm Valley - TS2 - Trilby Wash 230kV line	Planned	2015	12	18513000	Arizona Public Service
2015-570	Tucson Substation	Planned	2015	0	11608000	Western Area Power Administration - DSW
2015-70	Parker – Headgate Rock	Planned	2015	13	16500000	Western Area Power Administration - DSW
2015-97	TransWest Express Project	Planned	2015	725	3000000000	TransWest Express, LLC
2016-102	Corona 138/13.8 kV Substation	Planned	2016	0	9000000	Tucson Electric Power/ Unisource Energy
2016-112	Marana 138kV Transmission Line	Planned	2016	4	9000000	Tucson Electric Power/ Unisource Energy
2016-125	Midvale - Spencer 138 Transmission Line	Planned	2016	7	1000000	Tucson Electric Power/ Unisource Energy
2016-129	ECSS – Highline, 230kV transmission line	Planned	2016	20	29500000	Imperial Irrigation District
2016-235	Apache to Butterfield 230 kV Line Upgrade	Conceptual	2016	16	0	Southwest Transmission Cooperative
2016-332	Americas - Lane (5200) Line Reconductor	Planned	2016	4	832893	El Paso Electric Company
2016-337	Sol – Vista Transmission Line Upgrade	Planned	2016	2	923452	El Paso Electric Company
2016-345	University of Arizona Tech Park 138/13.8kV Substation	Planned	2016	0	7000000	Tucson Electric Power/ Unisource Energy
2016-346	Spencer 138/13.8kV kV Substation	Planned	2016	0	0	Tucson Electric Power/ Unisource Energy
2016-357	Anklam 138/13.8kV Substation	Planned	2016	5	8000000	Tucson Electric Power/ Unisource Energy
2016-371	Fort Collins Northeast 115/13.8kV Substation	Planned	2016	0	5500000	Platte River Power Authority
2016-378	Ault - Cherokee 230kV Transmission Project	Conceptual	2016	90	77000000	Public Service Company of Colorado/ Xcel Energy
2016-428	Caliente-Vista Line Reconductor	Conceptual	2016	7	0	El Paso Electric Company
2016-429	Clint-Valley 69 kV Transmission Line Reconductor	Planned	2016	3	0	El Paso Electric Company
2016-450	Naranja 138/13.8 kV Substation	Planned	2016	0	7000000	Tucson Electric Power/ Unisource Energy
2016-5	Marana 138/13.8 kV Substation	Planned	2016	0	10000000	Tucson Electric Power/ Unisource

						Energy
2016-526	Centennial West Clean Line	Conceptual	2016	800	2500000000	Clean Line Energy Partners
2016-555	Irvington – Robert Bills-Wilmot 138 kV Line Reconductor	Planned	2016	0	12500000	Tucson Electric Power/ Unisource Energy
2016-557	Calumet - Comanche Transmission Project	Planned	2016	45	72000000	Public Service Company of Colorado/ Xcel Energy
2016-558	San Luis Valley - Calumet Transmission Project	Planned	2016	95	108000000	Public Service Company of Colorado/ Xcel Energy
2016-80	TS12 loop-in of Saguaro-Milligan 230kV line	Planned	2016	0	10476000	Arizona Public Service
2016-89	Sun Valley - Morgan 500kV line	Planned	2016	40	105641000	Arizona Public Service
2017-10	East Ina 138/13.8 kV Substation	Planned	2017	1	9000000	Tucson Electric Power/ Unisource Energy
2017-104	Irvington - Tucson 138 kV Transmission Line Circuit 2	Planned	2017	10	17500000	Tucson Electric Power/ Unisource Energy
2017-110	Hartt 138/13.8 kV Substation	Planned	2017	0	8000000	Tucson Electric Power/ Unisource Energy
2017-119	Orange Grove - East Ina 138kV Transmission Line	Planned	2017	4	2000000	Tucson Electric Power/ Unisource Energy
2017-20	Blythe – Goldmine Tap	Planned	2017	42	53800000	Western Area Power Administration - DSW
2017-236	Butterfield to Bicknell 230 kV Line Upgrade	Conceptual	2017	69	0	Southwest Transmission Cooperative
2017-264	Pawnee - Daniels Park 345 kV Transmission Project	Conceptual	2017	124	65000000	Public Service Company of Colorado/ Xcel Energy
2017-266	Lamar – Front Range Transmission Project	Planned	2017	350	287000000	Public Service Company of Colorado/ Xcel Energy
2017-3	Kino 138/13.8 kV Substation	Planned	2017	0	8000000	Tucson Electric Power/ Unisource Energy
2017-30	Dome Tap-Gila	Planned	2017	8	10080000	Western Area Power Administration - DSW
2017-333	Uvas Substation 12 MVA Transformer	Planned	2017	0	4000000	El Paso Electric Company
2017-335	Leasburg Substation 30 MVA Transformer	Planned	2017	0	4000000	El Paso Electric Company
2017-344	North Loop - Rillito 138kV Line Reconductor	Planned	2017	10	10000000	Tucson Electric Power/ Unisource Energy
2017-353	Irvington – Tech Park / Tech Park – Vail 138 kV Line Reconductor	Planned	2017	11	5000000	Tucson Electric Power/ Unisource Energy
2017-377	Lamar-Vilas 345/230kV Transmission Project	Planned	2017	57	37000000	Public Service Company of

						Colorado/ Xcel Energy
2017-433	Padres - Ascarate 69 kV Transmission Line Reconductor	Planned	2017	5	1000000	El Paso Electric Company
2017-501	Las Vegas - Los Angeles Project	Conceptual	2017	250	1100000000	Energy Capital Partners
2017-551	Rancho Vistoso to La Canada 138kV Line Reconductor	Planned	2017	0	0	Tucson Electric Power/ Unisource Energy
2017-559	Big Sandy - Calhan 230 kV	Planned	2017	38	0	Tri-State Generation and Transmission Association
2017-566	Valley Farms - Oracle	Planned	2017	40	47877000	Western Area Power Administration - DSW
2017-567	Tucson - Nogales	Planned	2017	20	25000000	Western Area Power Administration - DSW
2017-571	ED5 Substation	Planned	2017	0	20178000	Western Area Power Administration - DSW
2017-71	Parker – Blythe	Planned	2017	64	53089000	Western Area Power Administration - DSW
2017-72	Parker – Bouse	Planned	2017	22	17700000	Western Area Power Administration - DSW
2018-108	Griffith - N. Havasu 69/230kV Transmission Line	Planned	2018	56	0	Tucson Electric Power/ Unisource Energy
2018-132	Dixieland - ECSS 230kV transmission line	Conceptual	2018	18	27000000	Imperial Irrigation District
2018-181	EAST TRACY TO BLACKHAWK TO MIRA LOMA 345 KV LINE	Planned	2018	42	65000000	NV Energy
2018-182	WEST TRACY TO FORT SAGE 345 KV LINE	Conceptual	2018	46	78000000	NV Energy
2018-184	SUNRISE 500 KV SUBSTATION AND LINE FOLD	Planned	2018	16	76000000	NV Energy
2018-447	Medina 138/13.8 kV Substation	Planned	2018	0	7000000	Tucson Electric Power/ Unisource Energy
2018-556	DeMoss Petrie to North East Loop Reconductor	Planned	2018	0	6000000	Tucson Electric Power/ Unisource Energy
2019-172	Central Wyoming Transmission Improvements	Planned	2019	160	50000000	Western Area Power Administration - RMR
2019-21	Bouse – Kofa	Planned	2019	79	72500000	Western Area Power Administration - DSW
2019-277	Ripley – Thorn Transmission Line Reconductor	Planned	2019	5	2257829	El Paso Electric Company
2019-354	North Loop - DMP 138kV Line Reconductor	Planned	2019	14	0	Tucson Electric Power/ Unisource Energy
2019-430	Rio Bosque-Padres 69 kV Transmission Line Reconductor	Planned	2019	0	0	El Paso Electric Company

2019-448	Raytheon 138/13.8 kV Substation	Planned	2019	0	7000000	Tucson Electric Power/ Unisource Energy
2019-451	UA Med 138/13.8 kV Substation	Planned	2019	0	7000000	Tucson Electric Power/ Unisource Energy
2019-568	Saguaro - Tucson	Planned	2019	35	44847000	Western Area Power Administration - DSW
2019-76	RS17 - RS24 – Abel 230kV	Planned	2019	20	58000000	Salt River Project
2020-31	Dome Tap – Wellton Mohawk	Planned	2020	11	10000000	Western Area Power Administration - DSW
2020-40	Goldmine Tap - Knob	Planned	2020	22	17729000	Western Area Power Administration - DSW
2020-43	High Plains Express Transmission Project	Conceptual	2020	2500	5000000000	Public Service Company of Colorado/ Xcel Energy
2020-552	Los Reales to Vail Reconductor	Planned	2020	0	5500000	Tucson Electric Power/ Unisource Energy
2020-553	Los Reales to Pantano 138kV Line Reconductor	Conceptual	2020	0	7500000	Tucson Electric Power/ Unisource Energy
2020-569	Nogales - Apache	Planned	2020	76	97627000	Western Area Power Administration - DSW
2020-572	ED2 Substation	Planned	2020	0	13484000	Western Area Power Administration - DSW
2020-573	ED4 Substation	Planned	2020	0	10581000	Western Area Power Administration - DSW
2020-574	Casa Grande Substation	Planned	2020	0	3999000	Western Area Power Administration - DSW
2022-42	Headgate Rock – Blythe	Planned	2022	52	5700000	Western Area Power Administration - DSW
TBD-100	Sun City 138/13.8 kV Substation	Conceptual	TBD	4	0	Tucson Electric Power/ Unisource Energy
TBD-106	Golden Valley 230kV Transmission Line	Planned	TBD	20	0	Tucson Electric Power/ Unisource Energy
TBD-165	Westwing - Raceway 230kV line	Conceptual	TBD	7	0	Arizona Public Service
TBD-166	Yucca - TS8 230kV line	Conceptual	TBD	0	0	Arizona Public Service
TBD-194	Westwing - El Sol 230kV line	Conceptual	TBD	11	0	Arizona Public Service
TBD-24	Northeastern Arizona - Phoenix 500kV line	Conceptual	TBD	0	0	Arizona Public Service
TBD-255	Three Terminal Plan Circuit 2	Planned	TBD	28	33800000	Southwest Public Power Resource Group

TBD-256	Three Terminal Plan Circuit 3	Planned	TBD	18	22703483	Southwest Public Power Resource Group
TBD-270	Tracy-Hurley Uprate	Conceptual	TBD	55	54000000	Western Area Power Administration - SNR
TBD-271	Winchester - Vail Double Circuit 345kV Line	Conceptual	TBD	41	0	Tucson Electric Power/ Unisource Energy
TBD-342	Vail - Irvington (New Substation) - South Loop 345kV Line and Irvington Substation	Conceptual	TBD	26	0	Tucson Electric Power/ Unisource Energy
TBD-349	Rancho Vistoso - Sun City 138kV Line	Conceptual	TBD	4	0	Tucson Electric Power/ Unisource Energy
TBD-396	Abel – RS20 500kV line	Conceptual	TBD	21	0	Salt River Project
TBD-397	RS20 – Silver King – Coronado Gen Station 500kV Line	Conceptual	TBD	200	0	Salt River Project
TBD-399	Dinosaur - RS21 230kV	Conceptual	TBD	0	0	Salt River Project
TBD-400	Rogers – Browning 230kV	Conceptual	TBD	9	0	Salt River Project
TBD-401	Silver King - Browning 230kV	Planned	TBD	38	0	Salt River Project
TBD-402	Superior 230kV Loop-in	Planned	TBD	1	0	Salt River Project
TBD-403	Thunderstone - Santan 230kV	Conceptual	TBD	13	0	Salt River Project
TBD-404	Pinnacle Peak - Brandow (with future tie into Rogers or Thunderstone) 230kV	Conceptual	TBD	0	0	Salt River Project
TBD-405	Silver King - Knoll - New Hayden 230kV	Conceptual	TBD	35	0	Salt River Project
TBD-406	New Hayden 115kV station loop-in	Conceptual	TBD	1	0	Salt River Project
TBD-437	Mural - San Rafael 230kV	Conceptual	TBD	0	0	Arizona Public Service
TBD-44	Jojoba loop-in of TS4-Panda 230kV line	Planned	TBD	0	12594000	Arizona Public Service
TBD-474	Hassayampa - Pinal West 500kV #2	Planned	TBD	50	0	Salt River Project
TBD-476	RS20 230kV Substation	Conceptual	TBD	0	0	Salt River Project
TBD-477	RS23 230kV Substation	Conceptual	TBD	0	0	Salt River Project
TBD-532	Avery 230/69kV substation	Planned	TBD	0	0	Arizona Public Service
TBD-66	Palo Verde - Saguaro 500kV line	Conceptual	TBD	130	0	CATS Sub-Regional Planning Group Participants
TBD-77	RS26 Project	Planned	TBD	25	0	Salt River Project
TBD-85	Sun Valley - TS11 - Buckeye 230kV line	Conceptual	TBD	0	0	Arizona Public Service
TBD-86	Sun Valley - TS10 - TS11 230kV line	Conceptual	TBD	0	0	Arizona Public Service
TBD-88	Sun Valley - Morgan 230kV line	Conceptual	TBD	0	0	Arizona Public Service

EXHIBIT 7 - DETAILED CHANGES BETWEEN 2010 AND 2011 WESTCONNECT PLAN

2011 PLAN - COMPLETED PROJECTS

Project Name	Voltage	Sponsor Name	Plan Modification
MORGAN-PINNACLE PEAK 500KV LINE	500 kV AC	Arizona Public Service	Placed In-Service
MORGAN-RACEWAY-PINNACLE PEAK 230KV LINE	500 kV AC	Arizona Public Service	Placed In-Service
Arquea Gulch 115/69 kV Substation	115 kV	Black Hills Energy	Placed In-Service
Donkey Creek-Pumpkin Buttes 230 kV Line	230 kV	Black Hills Power	Placed In-Service
Rapid City Voltage Support	230 kV	Black Hills Power	Placed In-Service
ECSS 300 MVA 230/92kV transformer addition	230 kV	Imperial Irrigation District	Placed In-Service
Ault - Black Hollow Reconductor	115 kV	Western Area Power Administration - RMR	Placed In-Service
Portner 230/13.8kV Substation	230 kV	Platte River Power Authority	Placed In-Service
Chambers 230/115kV Transmission Intertie Project	230 kV	Public Service Company of Colorado	Placed In-Service
Blackwater Life Extension	345 kV	Public Service Company of New Mexico	Placed In-Service
Randolph-Browning 230kV	230 kV	Salt River Project	Placed In-Service
Miracle Mile - Ault	230 kV	Western Area Power Administration - RMR	Placed In-Service
Cienega 138/13.8 kV Substation	138 kV	Tucson Electric Power/ Unisource Energy	Placed In-Service
Cienega 138/13.8 kV Transmission Line	138 kV	Tucson Electric Power/ Unisource Energy	Placed In-Service
Tucson 138 kV Yard Reconfiguration	138 kV	Tucson Electric Power/ Unisource Energy	Placed In-Service

2011 PLAN – PLAN ADDITIONS

Project Name	Voltage	Sponsor Name	Plan Modification
SCATTER WASH (TS6) 230/69KV SUBSTATION	230 kV	Arizona Public Service	Added to Plan
Greenhorn 115 kV Substation	115 kV	Black Hills Energy	Added to Plan
Pueblo-Hyde Park-West Station 115 kV transmission line rebuild	115 kV	Black Hills Energy	Added to Plan
LaJunta Tri-State Interconnect	115 kV	Black Hills Energy	Added to Plan
Overton 115 kV substation	115 kV	Black Hills Energy	Added to Plan
Portland-West Station #2 115 kV transmission line and associated substation expansion/upgrades	115 kV	Black Hills Energy	Added to Plan
Reader 115:69 kV transformer replacement	115 kV	Black Hills Energy	Added to Plan
Greenhorn-Reader 115 kV transmission line rebuild	115 kV	Black Hills Energy	Added to Plan
Baculite Mesa-Overton 115 kV line rebuild	115 kV	Black Hills Energy	Added to Plan
Corlett-Swan Ranch 115 kV line	115 kV	Cheyenne Light, Fuel and Power	Added to Plan
East Business Park 115 kV substation	115 kV	Cheyenne Light, Fuel and Power	Added to Plan
Happy Jack-NCAR 115 kV Line	115 kV	Cheyenne Light, Fuel and Power	Added to Plan
NCAR 115 kV substation	115 kV	Cheyenne Light, Fuel and Power	Added to Plan
Swan Ranch 115 kV substation	115 kV	Cheyenne Light, Fuel and Power	Added to Plan
Swan Ranch-Cheyenne South 115 kV line	115 kV	Cheyenne Light, Fuel and Power	Added to Plan
Centennial West Clean Line	500 kV DC	Clean Line Energy Partners	Added to Plan
Newman-Picante 115 kV line	115 kV	El Paso Electric	Added to Plan
Caliente-Coyote (16700) Transmission Line Rebuild & Reconductor	115 kV	El Paso Electric	Added to Plan
Ripley – Thorn Transmission Line Reconductor	115 kV	El Paso Electric	Added to Plan
Las Vegas - Los Angeles Project	500 kV AC	Energy Capital Partners	Added to Plan
North Gila - Imperial Valley #2	500 kV AC	Energy Capital Partners	Added to Plan
WECC - Eastern Interconnection DC Upgrade Project	230 kV	Energy Capital Partners	Added to Plan
Comanche - Reader 2nd 115 kV Circuit	115 kV	Public Service Company of Colorado	Added to Plan

Weld PS 230 - 115 kV Transformer Replacement	230 kV	Public Service Company of Colorado	Added to Plan
Eldorado - Plainview	115 kV	Public Service Company of Colorado	Added to Plan
Story Gulch - Rifle (Ute) 230 kV Transmission Line	230 kV	Public Service Company of Colorado	Added to Plan
New Hayden 115kV station loop-in	115 kV	Salt River Project	Added to Plan
Southline Transmission Project -- (Afton- Apache)	345 kV	Southline Transmission LLC	Added to Plan
Southline Transmission Project -- (Apache-Saguaro)	230 kV	Southline Transmission LLC	Added to Plan
Avra Valley Substation Capacitor Bank	115 kV	Southwest Transmission Cooperative	Added to Plan
New Tucson Substation Capacitor Bank	230 kV	Southwest Transmission Cooperative	Added to Plan
Redtail Substation Capacitor Bank	230 kV	Southwest Transmission Cooperative	Added to Plan
San Rafael Substation Capacitor Bank	230 kV	Southwest Transmission Cooperative	Added to Plan
Tres Amigas Superstation	345 kV	Tres Amigas LLC	Added to Plan
Big Sandy - Calhan 230 kV	230 kV	Tri-State Generation and Transmission	Added to Plan
Cheyenne South Substation	230 kV	Western Area Power Administration - RMR	Added to Plan
Series Capacitor Replacement at Vail (Springerville - Vail)	345 kV	Tucson Electric Power/ Unisource Energy	Added to Plan
North East Loop – Rillito 138 kV line Reconductor	138 kV	Tucson Electric Power/ Unisource Energy	Added to Plan
Series Capacitor Replacement at Vail 345kV Substation (Greenlee - Vail)	345 kV	Tucson Electric Power/ Unisource Energy	Added to Plan
Irvington – Robert Bills-Wilmot 138 kV Line Reconductor	138 kV	Tucson Electric Power/ Unisource Energy	Added to Plan
Series Capacitor Replacement at McKinley 345kV Substation (Bank #1)	345 kV	Tucson Electric Power/ Unisource Energy	Added to Plan
Series Capacitor Replacement at McKinley 345kV Substation (Bank #2)	345 kV	Tucson Electric Power/ Unisource Energy	Added to Plan
Irvington – Tech Park / Tech Park – Vail 138 kV Line Reconductor	138 kV	Tucson Electric Power/ Unisource Energy	Added to Plan
Loop in of Hartt 138kV Substation	138 kV	Tucson Electric Power/ Unisource Energy	Added to Plan
Rancho Vistoso to La Canada 138kV Line Reconductor	138 kV	Tucson Electric Power/ Unisource Energy	Added to Plan
Series Capacitor Replacement at Greenlee 345kV Substation (Springerville - Greenlee)	345 kV	Tucson Electric Power/ Unisource Energy	Added to Plan
DeMoss Petrie to North East Loop Reconductor	138 kV	Tucson Electric Power/ Unisource Energy	Added to Plan
Los Reales to Pantano 138kV Line Reconductor	138 kV	Tucson Electric Power/ Unisource Energy	Added to Plan
Los Reales to Vail Reconductor	138 kV	Tucson Electric Power/ Unisource Energy	Added to Plan

2011 PLAN - REMOVED PROJECTS

Project Name	Voltage	Sponsor Name	Plan Modification
DUGAS LOOP-IN OF NAVAJO-WESTWING 500KV LINE	500 kV AC	Arizona Public Service	Removed from Plan
South Pueblo 115 kV substation	115 kV	Black Hills Energy	Removed from Plan
Pipeline-Picante 115 kV line	115 kV	El Paso Electric	Removed from Plan
Rio Grande – Thorn Transmission Line Reconductor	115 kV	El Paso Electric	Removed from Plan
Caliente-Coyote (16700) Transmission Line Rebuild & Reconductor	115 kV	El Paso Electric	Removed from Plan
Laporte 230kV Substation Expansion	230 kV	Platte River Power Authority	Removed from Plan
Point on the Kearny - Hayden 115kV line to New Hayden; double circuit loop	115 kV	Salt River Project	Removed from Plan
CAP 115 kV Line Loop-in to Sandario	115 kV	Southwest Transmission Cooperative	Removed from Plan
North Loop to Rattlesnake 115 kV Line	115 kV	Southwest Transmission Cooperative	Removed from Plan
Saguaro to North Loop 115 kV Line	115 kV	Southwest Transmission Cooperative	Removed from Plan
Valencia to CAP Black Mountain 115 kV Line	115 kV	Southwest Transmission Cooperative	Removed from Plan
Apache 230/115 kV Transformer Replacement	230 kV	Southwest Transmission Cooperative	Removed from Plan
CAP 115 kV Line Loop-in to San Joaquin	115 kV	Southwest Transmission Cooperative	Removed from Plan
Pantano Substation Capacitor Bank	230 kV	Southwest Transmission Cooperative	Removed from Plan
Saguaro to Adonis 115 kV Line Loop-in to Naviska	115 kV	Southwest Transmission Cooperative	Removed from Plan
CAP 115 kV Line Loop-in to Picture Rocks	115 kV	Southwest Transmission Cooperative	Removed from Plan
CS2 Substation	230 kV	Southwest Transmission Cooperative	Removed from Plan
Kartchner to CS2 230 kV Line	230 kV	Southwest Transmission Cooperative	Removed from Plan
Pantano to Kartchner 115 kV Line Upgrade	115 kV	Southwest Transmission Cooperative	Removed from Plan
San Rafael to CS2 230 kV Line	230 kV	Southwest Transmission Cooperative	Removed from Plan
Elverta Breaker and a Half	230 kV	Western Area Power Administration - SNR	Removed from Plan
Boyd-Weld	230 kV	Western Area Power Administration - RMR	Removed from Plan
Green Valley-Canoa Ranch 138 kV	138 kV	Tucson Electric Power/ Unisource Energy	Removed from Plan
Vail - Irvington 138kV Double Circuit Line Uprate	138 kV	Tucson Electric Power/ Unisource Energy	Removed from Plan

Willow - Winchester 345kV Line	345 kV	Tucson Electric Power/ Unisource Energy	Removed from Plan
DMP - Northeast 138kV Line Uprate	138 kV	Tucson Electric Power/ Unisource Energy	Removed from Plan
Vail - Irvington 138kV Double Circuit Reconductor / Uprate Phase II	138 kV	Tucson Electric Power/ Unisource Energy	Removed from Plan
SS NO29 138/13.8 kV Substation	138 kV	Tucson Electric Power/ Unisource Energy	Removed from Plan
SS NO29 138kV Transmission Line	138 kV	Tucson Electric Power/ Unisource Energy	Removed from Plan
Willow 345kV Substation	345 kV	Tucson Electric Power/ Unisource Energy	Removed from Plan

2011 PLAN – PROJECT IN-SERVICE DATE CHANGES

Project Name	Voltage	Sponsor Name	Plan Modification
College Lake 230kV Substation	230 kV	Platte River Power Authority	In-Service changed from 2010 to 2011
Dixon-Horseshoe 230kV Line	230 kV	Platte River Power Authority	In-Service changed from 2010 to 2011
Alamogordo Third Source	115 kV	Public Service Company of New Mexico	In-Service changed from 2010 to 2011
Belen Series Reactor	115 kV	Public Service Company of New Mexico	In-Service changed from 2010 to 2011
Big Sandy - Lincoln - Midway 230kV Line Uprate	230 kV	Tri-State Generation and Transmission	In-Service changed from 2010 to 2011
Story - Erie	230 kV	Western Area Power Administration - RMR	In-Service changed from 2010 to 2011
Hayden 230/138 kV Transformer Replacement	230 kV	Western Area Power Administration - RMR	In-Service changed from 2010 to 2011
Tortolita-N. Loop Ckt 3/N. Loop-Rancho Vistoso 138 kV Reconfiguration	138 kV	Tucson Electric Power/ Unisource Energy	In-Service changed from 2010 to 2011
Tortolita-North Loop 138 kV Quad-Circuit	138 kV	Tucson Electric Power/ Unisource Energy	In-Service changed from 2010 to 2011
Ault 230/115 kV Transformer	230 kV	Western Area Power Administration - RMR	In-Service changed from 2010 to 2012
Marana to Avra Valley 115 kV Line Upgrade	115 kV	Southwest Transmission Cooperative	In-Service changed from 2011 to 2012
Irvington - 22nd ST 138kV Line Reconductor	138 kV	Tucson Electric Power/ Unisource Energy	In-Service changed from 2011 to 2012
Point of Interconnection 138kV Switchyard (Rosemont)	138 kV	Tucson Electric Power/ Unisource Energy	In-Service changed from 2011 to 2012
Rosemont 138kV Line	138 kV	Tucson Electric Power/ Unisource Energy	In-Service changed from 2011 to 2012
Tracy DBDB	230 kV	Western Area Power Administration - SNR	In-Service changed from 2011 to 2013
DeMoss Petrie - Tucson 138 kV Line	138 kV	Tucson Electric Power/ Unisource Energy	In-Service changed from 2011 to 2013
Bluestone Substation	230 kV	Public Service Company of Colorado	In-Service changed from 2011 to 2014
Avra Valley to Sandario Tap 115 kV Line Upgrade	115 kV	Southwest Transmission Cooperative	In-Service changed from 2011 to 2014
O'Banion – Elverta/Natomas Double Circuit 230-kV	230 kV	Western Area Power Administration - SNR	In-Service changed from 2012 to 2011
DELANY-PALO VERDE 500KV LINE	500 kV AC	Arizona Public Service	In-Service changed from 2012 to 2013
Rio Puerco Phase 2	345 kV	Public Service Company of New Mexico	In-Service changed from 2012 to 2013
Canoa Ranch - Duval CLEAR 138 kV Circuit Extension	138 kV	Tucson Electric Power/ Unisource Energy	In-Service changed from 2012 to 2014
Duval CLEAR 138kV Switchyard	138 kV	Tucson Electric Power/ Unisource Energy	In-Service changed from 2012 to 2014
Bicknell 345/230 kV Transformer Replacement	345 kV	Southwest Transmission Cooperative	In-Service changed from 2012 to 2015

Burlington - Wray 230kV Line	230 kV	Tri-State Generation and Transmission	In-Service changed from 2012 to 2015
Shiprock - SW Colorado (Iron Horse) 230 kV Project	230 kV	Tri-State Generation and Transmission	In-Service changed from 2012 to 2015
Weld 230/115-kV Transformer	230 kV	Western Area Power Administration - RMR	In-Service changed from 2013 to 2012
MAZATZAL LOOP-IN OF CHOLLA-PINNACLE PEAK 345KV	345 kV	Arizona Public Service	In-Service changed from 2013 to 2014
St. Onge 230/69 kV Substation	230 kV	Black Hills Power	In-Service changed from 2013 to 2014
Teckla-Osage 230 kV line	230 kV	Black Hills Power	In-Service changed from 2013 to 2014
NORTHWEST 500/230 KV AUTOTRANSFORMER # 2	500 kV AC	NV Energy	In-Service changed from 2013 to 2014
Timberline 230/115kV Substation Expansion	230 kV	Platte River Power Authority	In-Service changed from 2013 to 2014
Greenlee 2nd 345/230 kV Transformer	345 kV	Southwest Transmission Cooperative	In-Service changed from 2013 to 2015
TS12 LOOP-IN OF SAGUARO-MILLIGAN 230KV LINE	230 kV	Arizona Public Service	In-Service changed from 2013 to 2016
EAST TRACY TO BLACKHAWK TO MIRA LOMA 345 KV Line	345 kV	NV Energy	In-Service changed from 2013 to 2018
Boyd 230/115kV Substation Expansion	230 kV	Platte River Power Authority	In-Service changed from 2014 to 2013
Hackberry Substation Capacitor Bank	230 kV	Southwest Transmission Cooperative	In-Service changed from 2014 to 2013
SunZia SouthWest Transmission Project	500 kV	SunZia Transmission, LC	In-Service changed from 2014 to 2015
Sandario Tap to Three Points 115 kV Line Upgrade	115 kV	Southwest Transmission Cooperative	In-Service changed from 2014 to 2015
Calumet - Comanche Transmission Project	345 kV	Public Service Company of Colorado	In-Service changed from 2014 to 2016
San Luis Valley - Calumet Transmission Project	230 kV	Public Service Company of Colorado	In-Service changed from 2014 to 2016
Tracy-Hurley uprate	230 kV	Western Area Power Administration - SNR	In-Service changed from 2014 to TBD
Vail 345/138kV Transformer T4	345 kV	Tucson Electric Power/ Unisource Energy	In-Service changed from 2014 to TBD
Marana 138/13.8 kV Substation	138 kV	Tucson Electric Power/ Unisource Energy	In-Service changed from 2015 to 2016
Marana 138kV Transmission Line	138 kV	Tucson Electric Power/ Unisource Energy	In-Service changed from 2015 to 2016
Midvale - Spencer 138 Transmission Line	138 kV	Tucson Electric Power/ Unisource Energy	In-Service changed from 2015 to 2016
Naranja 138/13.8 kV Substation	138 kV	Tucson Electric Power/ Unisource Energy	In-Service changed from 2015 to 2016
Spencer 138/13.8kV kV Substation	138 kV	Tucson Electric Power/ Unisource Energy	In-Service changed from 2015 to 2016
University of Arizona Tech Park 138/13.8kV Substation	138 kV	Tucson Electric Power/ Unisource Energy	In-Service changed from 2015 to 2016
Hartt 138/13.8 kV Substation	138 kV	Tucson Electric Power/ Unisource Energy	In-Service changed from 2015 to 2017
Irvington - Tucson 138 kV Transmission Line Circuit 2	138 kV	Tucson Electric Power/ Unisource Energy	In-Service changed from 2015 to 2017

Kino 138/13.8 kV Substation	138 kV	Tucson Electric Power/ Unisource Energy	In-Service changed from 2015 to 2017
WEST TRACY TO FORT SAGE 345 KV LINE	345 kV	NV Energy	In-Service changed from 2015 to 2018
Fort Collins Northeast 115/13.8kV Substation	115 kV	Platte River Power Authority	In-Service changed from 2016 to 2014
North Loop - Rillito 138kV Line Reconductor	138 kV	Tucson Electric Power/ Unisource Energy	In-Service changed from 2016 to 2017
RS17 - RS24 – Abel 230kV	230 kV	Salt River Project	In-Service changed from 2017 to 2019
Central Wyoming Transmission Improvements	115 kV	Western Area Power Administration - RMR	In-Service changed from 2017 to 2019
Estes-Flatiron 115-kV rebuild	115 kV	Western Area Power Administration - RMR	In-Service changed from 2018 to 2014
San Rafael 2nd 230/69 kV Transformer	230 kV	Southwest Transmission Cooperative	In-Service changed from TBD to 2011
Ojo 345/115 kV Transformer Replacement	345 kV	Public Service Company of New Mexico	In-Service changed from TBD to 2013
Second Yah-Ta-Hey 345/115 kV Transformer	345 kV	Public Service Company of New Mexico	In-Service changed from 2014 to TBD

2011 PLAN - MISCELLANEOUS CHANGES

Project Name	Voltage	Sponsor Name	Plan Modification
YOUNGS CANYON (FLAGSTAFF) 345KV INTERCONNECTION	345 kV	Arizona Public Service	Facilities rating changed from 100 to 200 MVA
One Nevada Line (ON Line)	500 kV AC	NV Energy	Participant Change - Great Basin Transmission LLC Added
Tortolita-North Loop 138 kV Quad-Circuit	138 kV	Tucson Electric Power	Participant Change - Southwest Transmission Cooperative Removed
Three Terminal Plan Circuit 1	230 kV	Southwest Public Power Resource Group	Participant Change - Southwest Transmission Cooperative Removed
Three Terminal Plan Circuit 2	230 kV	Southwest Public Power Resource Group	Participant Change - Southwest Transmission Cooperative Removed
Three Terminal Plan Circuit 3	230 kV	Southwest Public Power Resource Group	Participant Change - Southwest Transmission Cooperative Removed
Pinal Central 230/115 kV Transformer	230 kV	Southwest Public Power Resource Group	Participant Change - Southwest Transmission Cooperative Removed
Pinal West - Pinal Central	500 kV AC	Salt River Project	Participant Change - Southwest Transmission Cooperative Removed
Calumet - Comanche Transmission Project	345 kV	Public Service Company of Colorado	Planning Stage Changed from Conceptual to Planned
San Luis Valley - Calumet Transmission Project	230 kV	Public Service Company of Colorado	Planning Stage Changed from Conceptual to Planned
Hassayampa - Pinal West 500kV #2	500 kV	Salt River Project	Planning Stage Changed from Conceptual to Planned
Weld 230/115-kV Transformer	230 kV	Western Area Power Administration - RMR	Planning Stage Changed from Conceptual to Planned
Wyoming-Colorado Intertie	345 kV	Wyoming - Colorado Intertie	Sponsor Change - Trans-Elect Development Company Removed