

CLRTPG Loads & Resources Balance for 2013 and 2018 Summer		
	CLRTP 2018	Notes
Existing CLRTPG Capacity		
Installed Net Dependable Capacity	7391	
Firm Purchased Capacity		
CLRTPG Total	1743	
IPP Purchases (Assuming some contract extensions)		
CLRTPG Total	3071	
Qualifying Facilities (QF's)		
CLRTPG Total	226	
SPS Diversity Exchange	101	
Possible Projected Resources		
CLRTPG Total	1696	Sum of Projected Resources with LSE assumed cap factor
Total Firm Purchases	5103	
CLRTPG Net Dependable Capacity	12494	
CLRTPG Net Dependable Capacity with Projected Resources	14190	
CLRTPG Native Load Heavy Summer	13675	Sum of CLRTPG Loads
Interruptible Load	272	
Existing Saver's Switch	129	
Efficiency Programs	239	
ENITITY Firm Load Obligation	13035	
Total Resource Need For PSCO	716	Assuming 2007 CRP preferred plan approved
Total Resource Need For TSGT	215	
Total Resource Need For PRPA	7	
Total Resource Need For CSU	153	
Total Resource Need For BHP	74	
TOTAL CLRTPG RESOURCE NEED	1165	

PSCo Loads & Resources Balance for Colorado Long Range Transmission Plan		
	CLRTP	Notes
Existing/Planned PSCo Dependable Capacity (MW)	2018 HS	
Coal		
Arapahoe Gen 3 & 4	0	Retire in 2013
Cameo	0	Retire in 2011
Cherokee 1-4	717	
Comanche 1 & 2	660	
Craig 1 & 2	84	
Hayden 1 & 2	237	
Pawnee 1	505	
Valmont 5	186	
Zuni 1 & 2	0	Retire in 2010
Gas		
Alamosa	36	
Fruita	20	
Ft. Lupton	100	
Fort Saint Vrain	737	
Valmont 6	43	
Hydro		
Cabin Creek	162	
Shoshone	15	
Planned PSCo Dependable Capacity (MW)		
Comanche # 3 Generation	750	ISD 2010

Total	4252	Existing/Planned PSCo Generation
Firm Purchased Capacity		
Basin Electric Power Cooperative No.1	0	From LRS
Basin Electric Power Cooperative No.2	0	From LRS
Tri-State G&T No.2	0	Available from LRS or Craig
Tri-State G&T No.3	0	Available from LRS or Craig
Tri-State G&T No.5	0	Available from LRS or Craig
Pacificorp (w/ reserves)	176	Available from LRS or Craig (Contract renewed)
Wheeling Losses	-5	
Sub Total	171	
Existing/Planned IPP Purchases		
Fort Saint Vrain CT	261	Squirrel contingency 2009
Calpine Blue Spruce	271	Assume Contract renewed
Calpine Rocky Mountain Energy Center	587	Assume Contract renewed
Black Hills Valmont 7 & 8	79	Assume Contract renewed (BHP)
Black Hills Arapahoe 5, 6, 7	122	Assume Contract renewed (BHP)
ManChief Power Company	261	Renewed
Brush 4D	135	
Invenergy Spindle CT	269	
Cogentrix Plains End	228	
Fountain Valley Midway	0	Contract expired in 2012
Front Range Power	0	Contract expired in 2009
Tri State Limon	0	Contract expired in 2015
Tri State Brighton	0	Contract expired in 2015
CPP Brush 1 & 3	0	Contracts expired after 2016
Black Hills Gillette	0	Contracts expired after 2016
Black Hills WyGen	0	Contracts expired after 2016
Celerity Energy	0	Contracts expired after 2016
Williams Gas Processing Co.	0	Contracts expired after 2016
JM Generation	0	Contracts expired after 2016
WM Landfill Gas	3	
Colorado Green Wind	20	12.5% of Capacity for Summer Peak
Peetz Logan Wind	50	12.5% of Capacity for Summer Peak

Cedar Creek Wind	38	12.5% of Capacity for Summer Peak
Twin Buttes Wind	9	12.5% of Capacity for Summer Peak
Invenergy Spring Canyon Wind	8	12.5% of Capacity for Summer Peak
enXco Ridge Crest Wind	4	12.5% of Capacity for Summer Peak
Alamosa Solar	5	
On-Site PV Solar	22	

	Sub Total	2371	
Qualifying Facilities (QF's)			
Thermo Greeley (Monfort)		0	Contract expired in 2010
Thermo Power (UNC)		69	Contract renewed
Thermo Fort Lupton		129	
Brush Cogen Partners (Brush 2)		0	Contract expired in 2009
Small QFs (21 facilities)		20	
	Sub Total	218	
SPS Diversity Exchange			
		101	Lamar HVDC Tie
Projected Resources			
2007 Resource Plan			
G14 - Morgan County Energy Center		0	Were not chosen
G25 - Blue Spruce Energy Center - 264 MW Expansion		0	Were not chosen
G31 - Squirrel Creek		0	Were not chosen
Corner Point Generation		0	Were not chosen
Biomass		4	2007 Preferred Resource Plan
Wind		175	12.5% of Capacity for Summer Peak
Concentrating Solar Power		417	60% Capacity
Arapahoe Repowering		480	
Geothermal		0	
PSCo Share of IGCC		0	
	2007 Resource Plan Sub Total	1076	
Total Firm Purchases			
		2861	Sum
PSCo Net Dependable Capacity			
		7113	PSCo Gen + Firm Purchases
PSCo Net Dependable Capacity with Projected Resources			
		8189	
PSCO Native Load in 2018 Heavy Summer			
Sept 2007 Updated Native Load			
		8213	Added back 250 MW of wholesale load
Interruptible Load		240	
Existing Saver's Switch		129	
Enhanced DSM		201	
	PSCo Firm Load Obligation 2018 HS	7643	
Reserve Margin IRP			
		16%	
Reserve Requirement			
		1223	MW (% of Load)
IREA & HCEA Backup			
		40	
Actual Reserve Capacity w/o Projected Resources			
		-530	MW (dependable less Load)
Actual Reserve Capacity with Projected Resources			
		546	MW (dependable less load)
Resource Need w/o CRP Resources			
		1792	
Resource Need with CRP Resources			
		716	

PRPA Loads & Resources Balance for Colorado Long Range Transmission Plan

	CLRTP	Notes
Existing PRPA Capacity	2018 HS1	
Rawhide Unit 1	278	net
Rawhide Unit A	65	net
Rawhide Unit B	65	net
Rawhide Unit C	65	net
Rawhide Unit D	65	net
Rawhide Unit F	138	net
Craig Unit 1	77	net
Craig Unit 2	77	net
Wind	0	8 MW at Medicine Bow
Installed Net Dependable Capacity	830	
Firm Purchased Capacity		
SLIP	60	net
LAP	30	net
Sub Total	90	
IPP Purchases		
Sub Total	0	
PRPA Exports		
Rawhide House Power	0	use net generation values
Sub Total	0	
Qualifying Facilities (QF's)		
Sub Total	0	
DC TIES		
Sub Total	0	
Possible Projected Resources		
Purchase Power or Build		
Wind	0	12 MW for 2013 and 45 MW for 2018, locations TBD
Sub Total	0	
Total Firm Purchases	90	
PRPA Net Dependable Capacity	920	owned + contracted
PRPA Net Dependable Capacity with Projected Resources	920	owned + contracted + projected
PRPA Native Load	877	City Load (incl DSM) + 2% Losses, High forecast 9-07
Interruptible Load	15	
Efficiency Program	0	
PRPA Firm Load Obligation	862	
Reserve Margin		
Reserve Requirement (Calc)	65	based on losing largest unit during summer peak with assistance from contracts & purchases
Actual Reserve Capacity w/o Projected Resources	58	owned + contracted - firm load obligation
Actual Reserve Capacity with Projected Resources	58	owned + contracted + projected - firm load obligation
Resource Need w/o Projected Resources	7	reserve requirement - (owned + contracted - firm load obligation)
Resource Need with Projected Resources	7	reserve requirement - (owned + contracted + projected - firm load obligation)

TSGT Loads & Resources Balance for Colorado Long Range Transmission Plan

	CLRTPG	Notes
Existing TSG&T Capacity	2018 HS	
Craig 1 and 2	206	
Craig 3	448	
LRS 2 and 3	404	
Nucla	100	
San Juan	41	
Rifle	72	
Brighton / Knutson 1 and 2	128	
Burlington	100	
Limon	128	
Springerville transfer into Colorado	122	Tot2a Cap - San Juan Gen
Sub Total	1749	
Firm Purchased Capacity		
Loveland Area Project Co/Wy	271	excludes Tribal LAP
Loveland Area Project Nebraska	88	serves W.Nebraska load
CRSP - North (E)	146	
CRSP - North (W)	15	excluding Tribal CRSP
Basin - Nebraska	330	Supplemental for W.Nebraska
Basin	225	includes additional 25 MW above present purchase
Tribal CRSP/LAP	6	
Brush II	70	
Fort Lupton	155	
Sub Total	1306	
TSG&T Firm Transactions		North area only
PACE F1	-25	
Basin/PRECORP	-13	
Sub Total	-38	
TSG&T Non-Firm Transactions		North area only
PSCo #2	0	Unit contingent sale
PSCo #3	0	Unit contingent sale
Sub Total	0	
IPP Purchases		
Bio Gas	0	netted against load
Sub Total	0	
Qualifying Facilities (QF's)		
Vallecito hydro	5	
Other small hydro	3	Small IPP purchases netted against load
Sub Total	8	
DC TIES		
Sub Total	0	
Possible Projected/External Resources		
RPS Requirements	0	WIND 75 IN 2013 92 IN 2018=167MW, MISC=36MW IN 2018
Off-system Transfers	0	PSCo NM/WY Swap
East Colorado 600MW Resource	600	
Sub Total	600	
Total Purchased Firm Resources less Net Firm Sales	1268	excluding QF's
Existing TSG&T Net Dependable Capacity	3017	
TSG&T Net Dependable Capacity with Projected Resources	3617	
TSG&T Native Load / Heavy Summer	2968	Wyo.+W.Nebr.+All Colo.+5% loss on net firm Load
Interruptible Load	0	no interruptible load
Efficiency Program	0	
TSG&T Firm Load Obligation	2968	includes losses
Reserve Margin	15%	Total Planning Reserve
Operating Reserve Requirement	124	
Planning Reserve Requirement (Calc)	140	
Sub Total	264	Reserve on Net Firm Load
Actual Reserve Capacity w/o Projected Resources	49	Resources less Firm and non-firm load
Actual Reserve Capacity with Projected Resources	649	
Resource Need w/o Projected Resources	215	All Load +sales+reserve less resources
Resource Need with Projected Resources	-385	

CSU Loads & Resources Balance for Colorado Long Range Transmission Plan

	CLRTP	Notes
	2018 HS1	
Existing CSU Capacity		
Installed Net Dependable Capacity	487	
Firm Purchased Capacity		
WAPA	76	
Sub Total	76	
IPP Purchases		
Front Range Power Project	460	
Sub Total	460	
Qualifying Facilities (QF's)		
Sub Total	0	
DC TIES		
Sub Total	0	
Possible Projected Resources		
Purchase Power or Build	0	
Wind	10	45 MW Wind 2013 & 52 MW 2018. 2018 Total = 97 MW
Sub Total	10	
Total Firm Purchases		
	536	
CSU Net Dependable Capacity		
	1023	
CSU Net Dependable Capacity with Projected Resources		
	1033	
CSU Native Load		
	1155	
Interruptible Load	17	
Efficiency Program	38	DSM
CSU Firm Load Obligation	1100	
Reserve Margin		
Reserve Requirement (Calc)	76	7% less WAPA import
Actual Reserve Capacity w/o Projected Resources		
	-77	
Actual Reserve Capacity with Projected Resources		
	-67	
Resource Need w/o Projected Resources		
	153	
Resource Need with Projected Resources		
	143	

BHP Loads & Resources Balance for Colorado Long Range Transmission Plan

	CLRTP	Notes
	2018 HS1	
Existing BHP Capacity		
Installed Net Dependable Capacity	73	
Firm Purchased Capacity		
PSCo Basin Contract No. 1	100	
PSCo Basin Contract No. 2	75	
Sub Total	100	
IPP Purchases		
Fountain Valley	240	
Sub Total	240	
Qualifying Facilities (QF's)		
Sub Total	0	
DC TIES		
Sub Total	0	
Possible Projected Resources		
Purchase Power or Build	0	
Wind	10	10% of 103 MW
Sub Total	10	
Total Firm Purchases		
	340	
BHP Net Dependable Capacity	413	0
BHP Net Dependable Capacity with Projected Resources	423	
BHP Native Load		
	462	
Interruptible Load	0	
Efficiency Program	0	DSM
BHP Firm Load Obligation	462	
Reserve Margin		
Reserve Requirement (Calc)	25	7% less WAPA import
Actual Reserve Capacity w/o Projected Resources	-49	
Actual Reserve Capacity with Projected Resources	-39	
Resource Need w/o Projected Resources	74	
Resource Need with Projected Resources	64	