

Wheeling Access Charges for 1998 through 2000

The following tables contain Wheeling Access Charges at the scheduling points. The Wheeling Access Charge is applicable for Wheeling on the ISO Controlled Grid. No Wheeling Access Charge is applied if a Scheduling Coordinator uses only Existing Transmission Capacity.

Table 1A: Scheduling Points “Owned” by More than One Participating TO.

Table 2A: Scheduling Points “Owned” by a Single Participating TO.

The following FERC ruling resulted in revised wheeling access charges:

Revised Access Charge Rates effective April 1, 1998 to August 31, 2002 per Southern California Edison’s (SCE) revised TO1 Transmission Revenue Requirement (TRR) under Docket #’s ER97-2355, et al.

Table 1A: Weighted Average Wheeling Access Charge (\$/MWh) for "Multi PO-Owned" Scheduling Points (April 98 – Dec 00)

Scheduling Points	Apr 98	May 98	Jun 98	Jul 98	Aug 98	Sep 98	Oct 1-29 98	Oct 30-31 98	Nov 98	Dec 98
<u>COB:</u> MALIN_5_RNDMTN CAPJAK_5_OLINDA	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.43	3.60	3.60
<u>Palo Verde:</u> PVERDE_5_DEVERS PVERDE_5_NG-PLV	4.59	4.59	5.81	5.81	5.81	5.81	4.59	4.59	4.59	4.59
<u>NOB:</u> SYLMAR_2_NOB	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.61	3.61	3.61

Scheduling Points	Jan 99	Feb 99	Mar 99	Apr 99	May 1-30, 99	May 31, 99	Jun 99	Jul 99	Aug 99	Sep 99	Oct 99	Nov 99	Dec 99
<u>COB:</u> MALIN_5_RNDMTN CAPJAK_5_OLINDA	3.54	3.54	3.39	3.39	3.39	1.80	1.80	1.80	1.80	1.80	1.80	2.06	2.06
<u>Palo Verde:</u> PVERDE_5_DEVERS PVERDE_5_NG-PLV	4.33	4.33	3.86	3.86	3.63	3.63	3.86	3.86	3.86	3.86	3.86	3.86	3.86
<u>NOB:</u> SYLMAR_2_NOB	3.55	3.55	3.55	3.55	3.55	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08

Scheduling Points	Jan 00	Feb 00	Mar 00	Apr 00	May 00	Jun 00	Jul 00	Aug 00	Sep 00	Oct 00	Nov 00	Dec 00
<u>COB:</u> MALIN_5_RNDMTN CAPJAK_5_OLINDA	2.01	2.01	1.77	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78
<u>Palo Verde:</u> PVERDE_5_DEVERS PVERDE_5_NG-PLV	4.26	4.26	3.87	3.87	3.67	3.87	3.87	3.87	3.87	3.87	3.87	3.87
<u>NOB:</u> SYLMAR_2_NOB	2.03	2.03	2.03	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05

Table 2A: Wheeling Access Charge for “Single PTO-Owned” Scheduling Points (April 98 – Dec 00)

PTO	Scheduling Points	Wheeling Rate (\$/MWh) Effective Dates
SCE *	BLYTHE_1_WALC DEVERS_2_COCHLA ELDORD_5_MCLLGH ELDORD_5_MOENKP ELDORD_5_PSUEDO FCORNR_5_PSUEDO INYOS_2_LDWP MOHAVE_6_69KV MOHAVE_5_500KV MEAD_2_WALC MIRAGE_2_COCHLA MOENKO_5_PSUEDO PARKR_2_GENE SLVRPK_7_SPP SYLMAR_2_LDWP LUGO_5_VICTVL MRCHNT_2_ELDORD	2.05 (Apr 98 – Dec 98) 1.99 (Jan 99 – Dec 99) 1.67 (Jan 00 – Dec 00)
PG&E **	CASCAD_1_CRAGVW SUMITM_1_SPP	2.96 (Apr 98 – 29 Oct 98) 3.10 (30 Oct 98 – 30 May 99) 1.29 (31 May 99 – Mar 00) 1.31 (Apr 00 – Dec 00)
SDG&E	IVALLY_2_23050 IVALLY_2_230S NGILA_5_NG4 TJUANA_2_23040	5.81 (Apr 98 – Dec 98) 5.45 (Jan 99 – Dec 99) 5.19 (Jan 00 – Dec 00)

Table 3: Wheeling Access Charge for SCE Take Out Points Interconnecting Non-PTOs Within ISO Control Area to the ISO Controlled Grid

PTO	HV Wheeling Access Rate (\$/MWh)	LV Wheeling Access Rate (\$/MWh)
SCE	2.05	(Apr 98 – Dec 98)
	1.99	(Jan 99 – Dec 99)
	1.67	(Jan 00 – Dec 00)

PTO	NON-PTO	TAKE-OUT POINT	Voltage (kV)	Voltage Level Designation	
SCE	Anaheim	Lewis	230	HV	
	Anza	Vista	230	HV	
	APS Cities	Blythe	161	LV	
	Azusa	Rio Hondo	230	HV	
	Banning	Garnet	115	LV	
	CDWR	Bailey	66	66	LV
			Eldorado	500	HV
			Midway	500	HV
			Pardee	230	HV
			Songs	230	HV
			Sylmar	500	HV
			Vincent	500	HV
			Vista	230	HV
			Colton	Vista	230
	MSR	Victorville/Lugo Midpoint	500	500	HV
			Midway	500	HV
	MWD	Etiwanda	230	230	HV
			Vincent	500	HV
	Pasadena	Goodrich	230	230	HV
	Riverside	Vista	230	230	HV
	SoCal Water	Vista	230	230	HV
			Victor	115	LV

Table 4: Wheeling Access Charge for PG&E Take Out Points Interconnecting Non-PTOs Within ISO Control Area to the ISO Controlled Grid

Dates	PG&E's Wheeling Rate (\$/MWh)
1 April 98 – 29 Oct 98	2.96
30 Oct 98 – 30 May 99	3.10
31 May 99 – 31 Mar 00	High Voltage: 1.29 Low Voltage: 3.44
1 April 00 – 31 Dec 00	High Voltage: 1.31 Low Voltage: 3.59

PTO	Interconnection with Non PTO	Take Out Point Within CAISO Grid	Voltage Level Designation
PG&E	California Department of Water Resources	1. Table Mountain Substation: Oroville-Thermalito-Table Mountain Nos. 1, 2 & 3 (230kV lines)	HV
		2. Geysers Power Plant: Bottle Rock Tap off Geysers-Fulton No. 2 (230 kV line)	HV
		3. Barker Slough Pumping Plant: Barker Slough Tap off Brighton-Davis (115 kV line)	LV
		4. Cordelia Pumping Plant: Cordelia No. 2 (60 kV tap)	LV
		5. Interim Cordelia Pumping Plant: Cordelia No. 1 (60 kV tap)	LV
		6. Delta (Harvey O. Banks Pumping Plant): Delta Substation off Contra Costa-Tesla No. 2 (230 kV line)	HV
		7. South Bay Pumping Plant: Herdlyn-Livermore (60 kV line tap)	LV
		8. Del Valle Pumping Plant: Fed from 21 kV Los Positas 2106 circuit from Bank 2 Los Positas Substation, which is served by Contra Costa-Newark No. 1 (230 kV line)	HV
		9. San Luis (Gianelli) Pump/Generation: Double circuit connected to Los Banos (230 kV bus)	HV
		10. Dos Amigos Pumping Plant: Tesla-Midway No. 2 (230 kV line), Los Banos Panoche section	HV
		11. Pine Flat Power Plant: 230 kV tap off Balch-McCall (230 kV)	HV
		12. Las Perillas Pumping Plant: Las Perillas 70 kV tap off Arco-Tulare Lake (70 kV)	LV
		13. Badger Hill Pumping Plant: Badger Hill 70 kV tap off Arco-Tulare Lake (70 kV)	LV
		14. Midway – Wheeler Ridge 230 kV transmission system between Midway Substation and the point of interconnection with the Wind Gap Pumpings Plant tap line. The following tap lines are connected to Midway: <ul style="list-style-type: none"> • Buena Vista Pumping Plant: Buena Vista Nos. 1 & 2 (230 kV) • Wheeler Ridge Pumping Plant: Wheeler Ridge Nos. 1 & 2 (230 kV) • Chrisman (Wind Gap) Pumping Plant: Wind Gap Nos. 1 & 2 (230 kV) 	HV
		15. Midway Substation	HV
		16. Coastal Branch Plants (Devil's Den, Bluestone, and Polonio Pass) all tapped off the 70kV Arco-Polonio line.	LV

Table 4: Wheeling Access Charge for Take Out Points Interconnecting Non-PTOs Within ISO Control Area to the ISO Controlled Grid

PTO	Interconnection with Non PTO	Take Out Point Within CAISO Grid	Voltage Level Designation
PG&E	Central California Power Agency	Geysers - Fulton No. 1 and No. 2 (230 kV)	HV
	City and County of San Francisco	1. Moccasin - Newark No. 1 (115 kV)	LV
		2. Moccasin - Newark No. 2 (115 kV)	LV
		3. Bellota - Gregg No. 2 at Warnerville Substation (230 kV)	HV
	City of Redding	Tracy (230 kV)	HV
	City of Shasta Lake	Tracy (230 kV)	HV
	City of Santa Clara	1. Newark - Scott No. 1 (115 kV)	LV
		2. Newark - Scott No. 2 (115 kV)	LV
		3. Newark - Kifer (115 kV)	LV
		4. San Jose B - Kifer (115 kV)	LV
	Lassen Municipal Utility District	Westwood (60 kV)	LV
	Modesto Irrigation District	Westley (230 kV)	HV
	Northern California Power Agency	1. Westley (230 kV)	HV
		2. Tracy (230 kV)	HV
		3. Scott (115 kV)	LV
		4. Kifer (115 kV)	LV
		5. Lompoc Substation (115 kV)	LV
		6. Palo Alto Subst. (115 kV)	LV
		7. Ukiah Subst. (115 kV)	LV
		8. Station C (115 kV)	LV
9. Station J (115 kV)		LV	
10. Industrial Subst. (60 kV)		LV	
11. Quincy Subst. (60 kV)		LV	
12. Biggs Subst. (60 kV)		LV	
13. Gridley Subst. (60 kV)		LV	
14. Healdsburg Subst. (60 kV)		LV	
Port of Oakland	Delivery Point SS-1 in Oakland. The 12 kV service is supplied from PG&E's Edos Substation	LV	
Sacramento Municipal Utility District *EFFECTIVE FROM APRIL 98 THRU JUNE 17 2002	1. Gold Hill - Lake (230 kV)	HV	
	2. Bellota No. 1 - Rancho Seco (230 kV)	HV	
	3. Bellota No. 2 - Rancho Seco (230 kV)	HV	
PG&E	Shelter Cove Resort Improvement District	PG&E's Garberville 1102 Circuit in Humboldt County (12 kV)	LV
	Turlock Irrigation District	Westley (230 kV)	HV
	Western Area Power Administration	1. Cottonwood Substation (230 kV)	HV
		2. Tracy Substation (69 kV) (230 kV)	LV HV
		3. New Melones (230 kV)	HV
4. O'Neill (230 kV)		HV	