

Wheeling Access Charges

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.

High Voltage (HV) Wheeling Access Charges are assessed for wheeling from transmission facilities with voltage rating of 200 kV or higher. Wheeling from transmission facilities with a voltage rating of less than 200 kV will result in Low Voltage (LV) Wheeling Access Charges in addition to the HV Wheeling access charge.

Table 1: Scheduling Points “Owned” by More than One Participating TO: *The applicable Wheeling Access Charge is shown for each month to reflect that the amount of Converted Rights associated with these Scheduling Points may change monthly.*

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

Table 3: SCE Take-Out Points Interconnecting Non PTOs Within the ISO Control Area to the ISO Controlled Grid.

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

**Table 1: Weighted Average Wheeling Rates (\$/MWh) for "Multi PTO-Owned" Scheduling Points
September 1 - December 31st 2004 Rates**

Scheduling Point (s)	Voltage (kV)	2004				Dec 2004
		Sep 1-16	Sep 17-30	Oct	Nov	
COB	500	2.3566	2.3566	2.3566	2.3905	2.3905
	500					
Palo Verde	500	2.4944	2.4944	2.5041	2.5041	2.5041
	500					
NOB	500	2.5201	2.5201	2.5201	2.5181	2.5181
	230	2.6771	2.6771	2.6771	2.6771	
Victorville	500	2.6771	2.6771	2.6771	2.6771	2.6771
	230	2.6771	2.6771	2.6771	2.6771	
Sylmar-AC	500	2.6771	2.6771	2.6771	2.6771	2.6771
	500					
LUGO BGs	500	2.6771	2.6771	2.6771	2.6771	2.6771
	500					
	345	2.6771	NA	NA	NA	
	230					
	500					
	345	NA	2.6771	2.6771	2.6771	
230						

2
0
0
0
4

**Table 2: Wheeling Access Charge for “Single PTO-Owned” Scheduling Points
Effective September 1, 2004 - December 31, 2004**

PTO	Scheduling Points	Voltage Level (kV)	Voltage Designation	HV Wheeling Access Rate (\$/MWh)	LV Wheeling Access Rate (\$/MWh)	
SCE	DEVERS_2_COCHLA	230	HV	2.6771	---	
	ELDORD_5_MCLLGH	500				
	ELDORD_5_MOENKP	500				
	ELDORD_5_PSUEDO	500				
	FCORNR_5_PSUEDO	500				
	MIRAGE_2_COCHLA	230				
	MOENKO_5_PSUEDO	500				
	MOHAVE_5_500KV	500				
	MRCHNT_2_ELDORD	230				
	PARKR_2_GENE	230				
	BLYTHE_1_WALC	161	LV	2.6771	0.3304	
	INYOS_2_LDWP	115				
	MOHAVE_6_69KV	69				
	SLVRPK_7_SPP	55				
PG&E	ELVRTA_2_ELVRTW	230	HV	2.2381	---	
	HURLEY_2_WAPA	230				
	RANCHO_2_BELOTA	230				
	LAKE_2_GOLDHL	230				
		CASCAD_1_CRAGVW	115	LV	2.2381	2.926
		SUMITM_1_SPP	115			
SDG&E	IVALLY_2_23050	230	HV	2.3067	---	
	IVALLY_2_230S	230				
	TJUANA_2_23040	230				
		NGILA_5_NG4	69	LV	2.3067	3.5751

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

Effective September 1, 2004 - December 31, 2004

PTO	HV Wheeling Access Rate (\$/MWh)	LV Wheeling Access Rate (\$/MWh)
SCE	2.6771	0.3304

PTO	NON-PTO	TAKE-OUT POINT	Voltage (kV)	Voltage Level Designation		
SCE	Anza	Vista	230	HV		
	APS Cities	Blythe	161	LV		
	City of Industry	Walnut	230	HV		
	CDWR		Bailey	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	HV
			MSR		Victorville/Lugo	500
	Midpoint	500			HV	
	MWD		Etiwanda	230	HV	
			Vincent	500	HV	
	Pasadena	Goodrich	230	HV		
	SoCal Water		Vista	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

Effective September 1, 2004 - December 31, 2004

PTO	HV Wheeling Access Rate (\$/MWh)	LV Wheeling Access Rate (\$/MWh)
PG&E	2.2381	2.926

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	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.	HV	
		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) 		
15. Midway Substation			HV	
16. Coastal Branch Plants (Devil's Den, Bluestone, and Polonio Pass) all tapped off the 70kV Arco-Polonio line.			LV	
Central CA 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	
Hercules Municipal Utility	Franklin substation in Hercules (60kV)		LV	
Lassen Municipal Utility District	Westwood (60 kV)		LV	
McAllister Ranch Irrigation District	Tevis substation in Bakersfield (60kV)		LV	
Modesto Irrigation District	1. Westley (230 kV)		HV	
	2. Herdlyn substation in Tracy (60kV)		LV	
Northern CA 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	
Port of Stockton	Rough and Ready Island substation in Stockton (60kV)		LV	
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	
Westside Power Authority	Swift substation in San Jose (115kV)		LV	