

Wheeling Access Charges Effective January 1, 2003

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

Scheduling Point (s)	Voltage (kV)	Jan 03	Feb 03	Mar 03	Apr 03	May 03	Jun 03	Jul 03	Aug 03	Sep 03	Oct 03	Nov 03	Dec 03
COB													
MALIN_5_RNDMTN	500	1.92	1.92	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84
CAPJAK_5_OLINDA	500	1.92	1.92	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84
Palo Verde													
PVERDE_5_DEVERS	500	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33
PVERDE_5_NG-PLV	500	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33
NOB													
SYLMAR_2_NOB	500	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12
Mead													
MEAD_2_WALC	230	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39
Victorville													
LUGO_5_VICTVL	500	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39
Sylmar-AC													
SYLMAR_2_LDWP	230	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39
LUGOWSTWG_BG													
LUGO_5_WSTWNG	500	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39
LUGOMKTPC_BG													
LUGO_5_MKTPLC	500	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39
LUGOTMONA_BG													
LUGO_5_MONA	345	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39
LUGOGONDR_BG													
LUGO_5_GONDER	230	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39

Table 2: Wheeling Access Charge for “Single PTO-Owned” Scheduling Points

PTO	Scheduling Points	Voltage Level (kV)	Voltage Designation	HV Wheeling Access Rate (\$/MWh)	LV Wheeling Access Rate (\$/MWh)
SCE	DEVERS_2_COCHLA	230	HV	2.39	---
	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			
SCE	BLYTHE_1_WALC	161	LV	2.39	.3210
	INYOS_2_LDWP	115			
	MOHAVE_6_69KV	69			
	SLVRPK_7_SPP	55			
PG&E	ELVRTA_2_ELVRTW	230	HV	1.58	---
	HURLEY_2_WAPA	230			
	RANCHO_2_BELOTA	230			
	LAKE_2_GOLDHL	230			
	CASCAD_1_CRAGVW	115			
SUMITM_1_SPP	115				
SDG&E	IVALLY_2_23050	230	HV	2.27	---
	IVALLY_2_230S	230			
	TJUANA_2_23040	230			
	NGILA_5_NG4	69			

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	2.39	.3210

PTO	NON-PTO	TAKE-OUT POINT	Voltage (kV)	Voltage Level Designation	
	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	HV
		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

PTO	HV Wheeling Access Rate (\$/MWh)	LV Wheeling Access Rate (\$/MWh)
PG&E	1.58	2.2548

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:	HV
		<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		

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	
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	