

2008 Transmission Proxy Cost

Question:

What are the Transmission Proxy Costs for the following locations and capacities:

- 1) Ukiah (150 MW)
- 2) Contra Costa (1500 MW)
- 3) Pittsburg (600 MW)

Please send your response to the LTRFO at LTRFO@exchange.pge.com

What are the Transmission Proxy Costs for the following locations and capacities:

- 1) Los Esteros 115kV (150 MW)
- 2) Oakland C 115kV (400 MW)
- 3) Mission 115kV (50 MW)

Response:

Table 1 contains the Transmission Proxy Costs for Peak and Shoulder Periods for

- 1) Ukiah 115 kV (150 MW)
- 2) Contra Costa 230 kV (1500 MW)
- 3) Pittsburg 230 kV (600 MW)

and for:

- 1) Los Esteros 115kV (150 MW)
- 2) Oakland C 115kV (400 MW)
- 3) Mission 115kV (50 MW)

**Table 1: 2008 Transmission Proxy Cost based on PG&E 2008 TRCR filed on September 7, 2007
PEAK and SHOULDER PERIODS**

Cluster	Generation (MW)	Proxy Voltage Support* 2007\$ (\$million)	Proxy Facilities 2007\$ (\$million)	limiting elements	Proxy facilities
Ukiah 115kV	150	\$10	\$0		
Contra Costa 230kV	1500	\$98	\$69	CCPP – Wind Master – Tesla 230 kV line CCPP – Brentwood 230 kV line Lone Tree – US Winds- Cayetano 230 kV line Newark – Las Positas 230 kV line Dublin – Vineyard 230 kV line	1. Reconductor from Lone tree to junction into Cayetano and N Dublin; build new switching station, S1, to loop in CCPP - Los Positas, Lone Tree - Cayantano and the N Dublin - Vineyard 230 kV lines 2. Reconductor from S1 to junction to Vineyard, Build new switching station, S2, to loop in the Los Positas - Newark, US Wind - Vineyard and Vineyard - Newark 230 kV lines. 3. Reconductor from S2 - Newark 230 kV DCTL 4. Recondcutor CCPP-Tesla 230 kV line
Pittsburg 230kV	600	\$39	\$0		
Los Esteros 115kV	150	\$10	\$0		
Oakland C 115kV'	400	\$26	\$11	115 kV Breakers	Install bus reactors
Mission 115kV	50	\$3	\$0		

* Pro-rata with generation addition

Note:

PG&E's estimates of Transmission Proxy Costs will be used solely for the purpose of ranking and evaluating Offers. The actual transmission upgrade cost for a specific renewable project may differ from these estimates and PG&E is not responsible or in any way liable for deviations between estimated and actual costs.

Question:

For the recently posted proxy cost for Contra Costa, is there any level less than 1500 MW that could be provided with for a smaller proxy cost? If so, what would the MW levels and costs be?

Response:

For Contra Costa with additional generation of 800 MW (instead of the original 1,500 MW), the Transmission Proxy Cost would be \$54 million

Question:

For the recently provided proxy costs at Contra Costa, Pittsburgh, Los Esteros, Oakland C, Mission and Ukiah, are those costs for baseload generation? Would these costs be any different for peak/shoulder and night time periods?

Response:

The recent Transmission Proxy Costs (TPC) at Contra Costa, Pittsburgh, Los Esteros, Oakland C, Mission and Ukiah are based on Peak/Shoulder periods. Table 2 contains the TPC for base load and as available generation. The difference between these TPCs (in Table 2) and the corresponding TPCs in Table 1 for Peak and Shoulder Periods will be the TPCs for Night Periods for the associated clusters.

**Table 2: 2008 Transmission Proxy Cost based on PG&E 2008 TRCR filed on September 7, 2007
BASE LOAD AND AS AVAILABLE**

Cluster	Generation (MW)	Proxy Voltage Support* 2007\$ (\$million)	Proxy Facilities 2007\$ (\$million)	limiting elements	Proxy facilities
Ukiah 115kV	150	\$10	\$0		
Contra Costa 230kV	1500	\$98	\$69	CCPP – Wind Master – Tesla 230 kV line CCPP – Brentwood 230 kV line Lone Tree – US Winds- Cayetano 230 kV line Newark – Las Positas 230 kV line Dublin – Vineyard 230 kV line	1. Reconductor from Lone tree to junction into Cayetano and N Dublin; build new switching station, S1, to loop in CCPP - Los Positas, Lone Tree - Cayantano and the N Dublin - Vineyard 230 kV lines 2. Reconductor from S1 to junction to Vineyard, Build new switching station, S2, to loop in the Los Positas - Newark, US Wind - Vineyard and Vineyard - Newark 230 kV lines. 3. Reconductor from S2 - Newark 230 kV DCTL 4. Recondcutor CCPP-Tesla 230 kV line
Pittsburg 230kV	600	\$39	\$0		
Los Esteros 115kV	150	\$10	\$0		
Oakland C 115kV'	400	\$26	\$101	115 kV Breakers Oakland C - Station L - Station D 115 kV underground cable	Install bus reactors Install new underground 115 kV cable
Mission 115kV	50	\$3	\$0		

* Pro-rata with generation addition

Note:

PG&E's estimates of Transmission Proxy Costs will be used solely for the purpose of ranking and evaluating Offers. The actual transmission upgrade cost for a specific renewable project may differ from these estimates and PG&E is not responsible or in any way liable for deviations between estimated and actual costs.