

IONS PAGE

-Fill out all yellow highlight cells in the INPUT CONTRACT DATA tab	<u>INPUT CONTRACT DATA</u>
-When the contract term is entered, the tables below will automatically set up to accommodate a 10-, 15-, and 20-year contract.	<u>CONTRACT TERM</u>
-When Utility Service Territory is selected from the drop down menu, the WACC and the TOD factors will be filled in based on values in the TOD DEFINITIONS Tab	<u>TOD DEFINITIONS</u>
-Enter estimated annual sales by TOD period	<u>ANNUAL SALES</u>
-Enter Contract Price by TOD period	<u>CONTRACT PRICE</u>
-Annual Weighted Average Contract Price is calculated by spreadsheet (Based on estimated annual sales and contract price by TOD period, does NOT use IOU TOD Factors)	<u>WTD. AVG. CONTRACT PRICE</u>
-Annual Weighted Average MPR is calculated on TOD ADJUSTED MPR Tab (Based on estimated annual sales by TOD period and TOD Factors)	<u>TOD ADJUSTED MPR</u>
-AMFs (Above MPR Costs) calculated on AMFs CALCULATION Tab	<u>AMFs CALCULATION</u>
-Enter data for prior contracts requesting Above-Market Funds in the SUMMARY tab. Enter total cost limitation of above-MPR costs based on limit established in Resolution E-4160. (Nominal dollars, no discounting) The Total 2008 NPV of Above-MPR Costs requested by IOU is calculated using the IOU WACC as a discount rate. The 2008 NPV total is subtracted from the limit established in Resolution E-4160 to calculate the remaining Above-Market Funds available.	<u>SUMMARY</u>

TRACT DATA SHEET

ecessary information on this sheet.

Facility Name **Alpine PV 66 MW**

Information submitted to the California Public Utilities Commission is subject to public disclosure unless designated confidential pursuant to Pub. Util. Code Section 583, General Order (G.O.) 66-C

Solicitation Year	2007
MPR Year	2009
Contract Start Year	2012
Contract Term	20
Capacity (MW)	66
Contract Price (\$/MWh)	{Redacted}
MPR for Contract Start Year (\$/MWh)	
WACC (Utility specific)	

Purchasing Utility **PG&E**

TOD FACTORS

PG&E	S Super-P (A1)	S Shdr (A2)	S Night (A3)	W Super-P (B1)	W Shdr (B2)	W Night (B3)	Sp Super-P (C1)	Sp Shdr (C2)	Sp Night (C3)
{Redacted}									

[Modify TODs](#)

Estimated Annual Sales by TOD Period (kWh)

Contract Year	Start Year	{Redacted}							Sp Night (C3)
1	2012								0
2									0
3									0
4									0
5									0
6									0
7									0
8									0
9									0
10									0
11									0
12									0
13									0
14									0
15									0
16									0
17									0
18									0
19									0
20									0

TRACT DATA SHEET

ecessary information on this sheet.

Annual TOD Adjusted Final Contract Price by TOD Period (\$/MWh Nominal)

Contract Year	Start Year	S Super-P (A1)	S Shdr (A2)	S Night (A3)	W Super-P (B1)	W Shdr (B2)	W Night (B3)	Sp Super-P (C1)	Sp Shdr (C2)	Sp Night (C3)
1	2012	[Redacted]								
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18		254.625	115.125	87.500	150.375	131.125	105.125	128.750	106.875	82.000
19		254.625	115.125	87.500	150.375	131.125	105.125	128.750	106.875	82.000
20		254.625	115.125	87.500	150.375	131.125	105.125	128.750	106.875	82.000

Annual Final Contract Price (\$/MWh Nominal)

Contract Year	Price
1	125
2	125
3	125
4	125
5	125
6	125
7	125
8	125
9	125
10	125
11	125
12	125
13	125
14	125

Estimated Annual Sales
{Redacted}
139,220,395
137,872,097
136,838,056
135,811,771
135,090,535



Wtd. Avg. Contract Price

{Redacted}

146.176
145.916
145.695
145.688
145.905

RESULTS PAGE

INPUTS (Transferred from Inputs Sheet)

Facility Name	Alpine PV 66 MW
MPR Year	2009
Contract Start Year	2012
Contract Term	20
Capacity (MW)	66
Contract Price (\$/MWh)	{Redacted}
MPR for Contract Start Year (\$/MWh)	
WACC (Utility specific)	
Purchasing Utility	PG&E

RESULTS

Levelized Final Contract Price (\$/MWh) over the term of the contract	{Redacted}
Levelized above market costs (\$/MWh) over the term of the contract	
Total Amount of above market costs (\$) over the term of the contract	
Levelized TOD-Adjusted MPR (\$/MWh) over the term of the contract	

All prices in 2012 dollars

Contract Year	Start Year	Estimated Annual Sales (kWh)
1	2012	{Redacted}
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
TOTAL		

ABOVE MPR FUNDS (AMFs) SUMMARY

Utility Name	PG&E
Total IOU AMFs	{Redacted}
Prior AMFs Allocations	
Alpine PV 66 MW	
Total AMFs Allocated	
Balance:	

2009

AMFs Awards	
	Nominal \$
2007	{Redacted}
2008	
2009	
2010	
2011	
2012	
2013	
2014	
2015	
2016	
2017	
2018	
2019	
2020	
TOTAL	

Cost Limitation	
	Nominal \$
BVES	{Redacted}
PG&E	
SDGE	
SCE	

Item #	Facility Name	Expected	Contract	Capacity	Energy	MPR (\$/MWH)		Contract Price (\$/MWh)	Estimated Above-MPR Costs	Estimated Above-MPR Costs		
		Start	Term (Years)	MW	GWh/Year	Adopted	TOD-Adj.	TOD Wtd. Avg.	\$/MWh	\$ NPV 2009	\$ NPV Start Year	Nominal \$
	Alpine PV 66 MW	2012	20	66	145	{Redacted}						
1	Cleantech Phase 1 (CalRenew)	2010	20	5	9	{Redacted}						
2	Green Volts	2008	20	2	4							
3	Solel	2012	25	500	1,389							
4	Arlington (Horizon)	2009	15	104	241							
5	Desert Topaz (OptiSolar/First Solar)	2012	27	150	288							
6	Desert Topaz (OptiSolar/First Solar)	2013	26	250	486							
7	Desert Topaz (OptiSolar/First Solar)	2014	25	150	291							
8	CVSR SunPower 126 MW phase	2013	25	126	311							
9	SunPower 63 MW phase	2012	25	63	182							
10	SunPower 21 MW phase	2011	25	21	61							
11	El Dorado (Sempra)	2009	20	10	22							
12	Hatchet Ridge	2011	15	103	303							
13	Copper Mountain (Sempra)	2011	20	48	101							
14	Invenergy (Vantage Wind LLC)	2010	15	90	277							
15	Agua Caliente (Nextlight)	2014	25	290	687							
16	FPL Genesis (Scenarios Average)	2013/2015	25	250	542							
17	Harper Lake (Mojave Solar / Abengc)	2013	25	250	616							
18	Alpaugh (ENCO/ Samsung)	2013	25	50	76							
19	First Solar Desert Center	2015	25	300	617							
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
TOTAL				2,828	6,648					{Redacted}		{Redacted}

Start Year

None

Term

10

15

20

25

2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2020
2021
2022
2023
2024
2025

ABOVE-MPR COSTS CALCULATION

Facility Name	Alpine PV 66 MW		
MPR Year			2009
Contract Start Year			2012
Contract Term			20
Capacity (MW)			66
Contract Price (\$/MWh)			{Redacted}
MPR for Contract Start Year (\$/MWh)			
WACC (Utility specific)			

		(A)	(B)	(C) (A) x (B)	(D) (A) x (Lev. Above Market Costs)
Contract Year	Start Year	Estimated Annual Sales (kWh)	Annual Weighted Average Final Bid-Offer Price (\$/MWh)	Annual Final Bid- Offer Payments	Above Market Costs
1	2012	{Redacted}			
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
		0			
		0			
		0			
		0			
		0			
NPV (2012) over 20 years		{Redacted}			
Total Sum of Above Market Costs over Contract Term					

200811660.23344

Levelized Final Contract Price (\$/MWh) [= (NPV(C) / NPV(A)) * 1000]	
Levelized over contract term	{Redacted}
Levelized Above Market Costs (\$/MWh)	
Levelized above market costs over contract term	{Redacted}

TOD ADJUSTED MPR

Facility Name	Alpine PV 66 MW
MPR Year	2009
Contract Start Year	2012
Contract Term	20
Capacity (MW)	{Redacted}
Contract Price (\$/MWh)	
MPR for Contract Start Year (\$/MWh)	
WACC (Utility specific)	

		(A)	(B)	(C) (A) x (B)
Contract Year	Start Year	Estimated Annual Sales (kWh)	Annual TOD Weighted MPR Price (\$/MWh)	Annual Final Bid-Offer Payments
1	2012	{Redacted}		
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

Estimated Annual Sales by TOD Period (kWh)				
TOD FACTOR	S Super-P (A1)	S Shdr (A2)	S Night (A3)	W Super-P (B1)
Contract Year	{Redacted}			
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0

TOD ADJUSTED MPR

NPV (2012)					

	\$0	\$0	\$0	\$0
--	-----	-----	-----	-----

Levelized TOD-Adjusted MPR (\$/MWh) [= (NPV(C) / NPV(A)) * 1000]	
Levelized over contract term	{Redacted}

Annual MPR Payments by TOD Period				
TOD FACTOR	S Super-P (A1)	S Shdr (A2)	S Night (A3)	W Super-P (B1)
Contract Year	{Redacted}			
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

\$0	\$0	\$0	\$0	\$0	\$0
-----	-----	-----	-----	-----	-----

W Shdr (B2)	W Night (B3)	Sp Super-P (C1)	Sp Shdr (C2)	Sp Night (C3)	Total
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TOD DEFINITIONS

PG&E	S Super-P (A1)	S Shdr (A2)	S Night (A3)	W Super-P (B1)	W Shdr (B2)	W Night (B3)	Sp Super-P (C1)	Sp Shdr (C2)	Sp Night (C3)
SCE	S On-P	S Mid-P	S Off-P	W Mid-P	W Off-P	W S. Off-P			
SDG&E	S On-P	S Semi-P	S Off-P	W On-P	W Semi-P	W Off-P			

[Return to Input Sheet](#)

PG&E	{Redacted}
SCE	
SDG&E	

PG&E	7.60%
SCE	10.60%
SDG&E	11.60%

UPDATE

2007 TOD's

PG&E	{Redacted}
SCE	
SDG&E	

PG&E's TOD Factors

	S Super-P (A1)	S Shdr (A2)	S Night (A3)	W Super-P (B1)	W Shdr (B2)	W Night (B3)	Sp Super-P (C1)	Sp Shdr (C2)	Sp Night (C3)
2,005	{Redacted}								
2,006									
2,007									
2,008									
2,009									

2005 MPR			
	10	15	20
2,007	cted}		
2,008			
2,009			
2,010			
2,011			
2,012			
2,013			
2,014			
2,015			
2,016			
2,017			
2,018			
2,019			
2,020			

2006 MPR					2007 MPR				2008 MPR				2009 MPR			
25	10	15	20	25	10	15	20	25	10	15	20	25	10	15	20	25

{Redacted}