
PG&E's 500 MW Solar Photovoltaic Program

2/3/2010



PG&E's Capital Cost Target is Reasonable

Capital Cost (2008\$)

Project	Capacity (MW)	Cost per kW (dc)
PG&E proposal	250 (ac)	\$3,493*
SCE proposal	250 (dc)	\$3,500
PG&E pilot (request)	2	\$4,821
PG&E pilot (actuals)	2	\$4,182
SCE pilot (request)	5	\$5,000
SCE pilot (SCE brief)	2	\$4,300

*The projected present value cost of PG&E's land purchases is \$60 million vs. SCE's leases of \$40 million. However the land purchases, unlike the leases, will have residual value for customers at program's end.

U.S. Mid- to Large-Sized PV Projects in Operation

Based on publicly reported information

Project Name	Developer	Purchasing Utility	Location	Size (MW, dc)	
Sacramento Soleil 2008	enXco	SMUD	Sacramento, CA	1	
FSE Blythe	First Solar (acquired by NRG)	SCE	Blythe, CA	21	
Exelon-Conergy Solar Energy Center	Conergy	Exelon Generation, LLC	Philadelphia, PA	3	\$6 a)
Vineland Solar One	Conectiv Energy	Vineland Municipal Utility	New Jersey	2	(b) \$12
El Dorado Energy Solar Project	First Solar / Sempra	PG&E	Boulder City, NV	10	(c) \$4
DeSoto Next Generation Solar Energy Center	Florida Power & Light	FPL	Arcadia, FL	25	(d) \$6
Nellis Air Force Base	MMA Renewable Ventures	Nellis Air Force Base	Clark County, NV	14	(e) \$7
Alamosa Photovoltaic Solar Plant	SunEdison	Xcel Energy	Alamosa, CO	8	
Fort Carson Army Base	Three Phases and Green Rock Capital	Fort Carson Army Base	Colorado Springs, CO	\$6,500	(f)
Total MWs Developed/Avg. Price				86	\$

(a) http://www.conergy.us/casestudies_projects.aspx

(b) <http://www.vinlandsolarone.com/about.html>

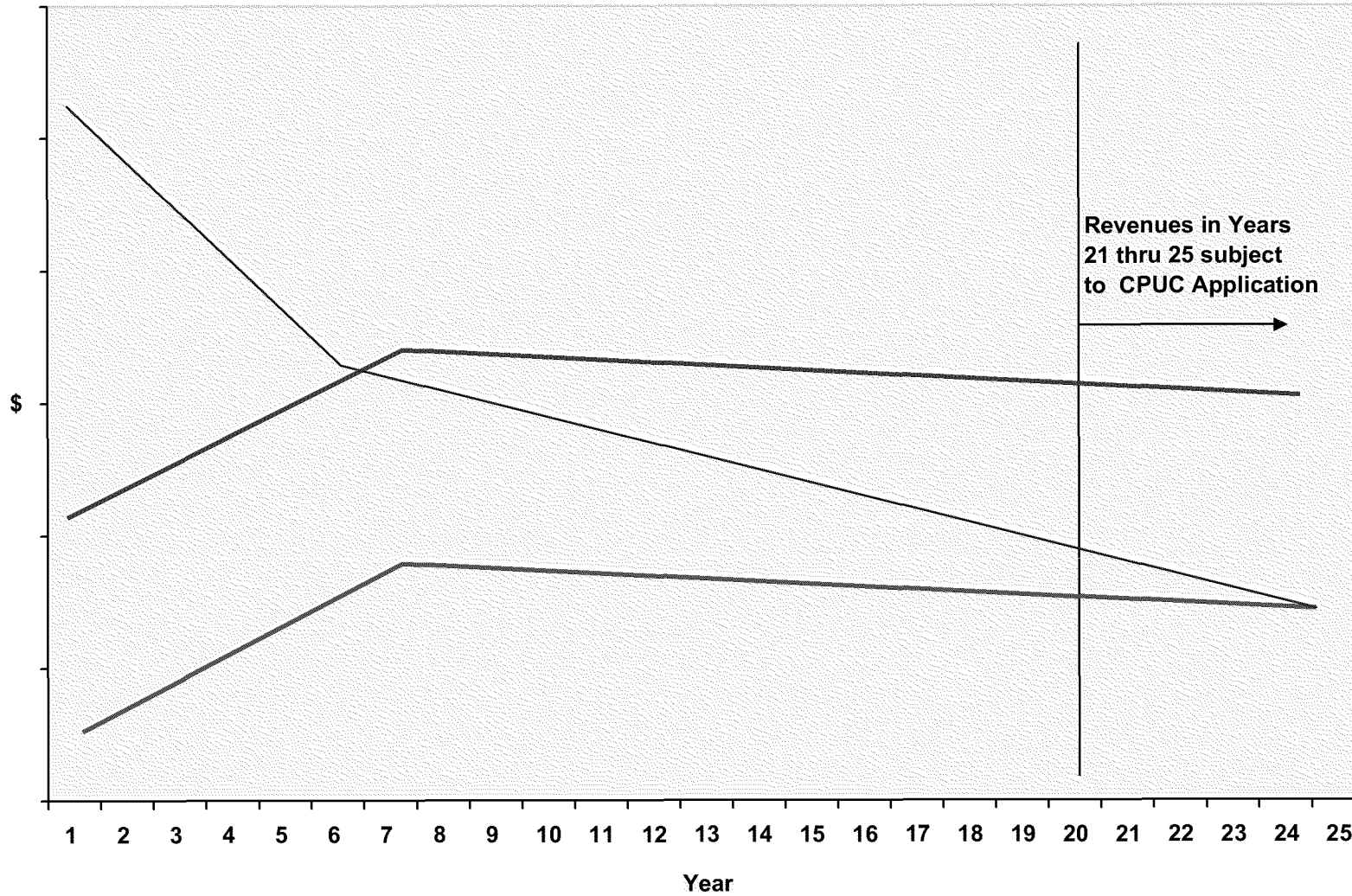
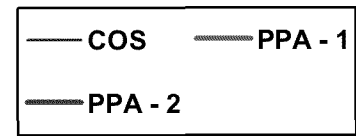
(c) http://www.powermag.com/renewables/solar/Top-Plants-El-Dorado-Energys-Solar-Facility-Boulder-City-Nevada_2302_p2.html

(d) http://www.energyonline.com/Industry/News.aspx?NewsID=7401&FPL_Commissions_DeSoto_Next_Generation_Solar_Energy_Center_

(e) <http://www.metaefficient.com/news/north-americas-largest-solar-electric-plant-in-switched-on.html>

(f) <http://apolloalliance.org/rebuild-america/renewable-energy-rebuild-america/signature-stories-renewable-energy/army%E2%80%99s-olive-drab-turns-brighter-shade-of-green/>

PD Ratemaking Proposal - Illustrative



PG&E RPS Contracts

In total, more than 20% currently under contract

PG&E has signed 86 RPS* contracts totaling more than 7,397 MW since 2002

	#	MW
Geothermal	8	637
Wind	26	1,989
Bioenergy	20	257
Solar PV	12	1,595
Solar Thermal	13	2,782
Solar/Biomass	1	107
Small Hydro	5	28
Wave	1	2
Total	86	7,397

*Does not include small renewable generator PPAs

**Map only includes terminated PPAs to the extent they contributed to RPS target

