

Answers to 2a., 2b., and 2c.

{Redacted}

2011 RPS energy (kWh)

Row Labels	Sum of Annual Commercial Production in kWh	MWh
{Redacted}		

2011 RPS capacity (MW)

Row Labels	Sum of Jan	Sum of Feb	Sum of Mar	Sum of Apr	Sum of May	Sum of Jun	Sum of Jul
{Redacted}							

Sum of Aug Sum of Sep Sum of Oct Sum of Nov Sum of Dec Average RA MW



1,146

Cells in columns H, J, N and O, which are shaded in green, contain confidential and protected information. This market-sensitive information is submitted pursuant to D.06-06-066 and Public Utilities Code Section 583.

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Year	Complete Project Name	California Independent System Operator (CAISO) ID Number	CPUC ID Number	PG&E Project Number	California Energy Commission (CEC) ID Number	Power Purchase (PPA) ID Number	Annual Commercial Production in kWh	Project Size (Minimum) in kW	Project Size (Maximum) in kW
2011	{Redacted}	OAK L 7 EBMUD	N/A	N/A	60101E	01P171	{Redacted}	4,000	{Redacted}
2011		JSWWD4 2 UNITS	N/A	N/A	60096E	01P219		13,200	
2011		JSWWD1 2 UNITS	N/A	N/A	60130E	01W004		222,400	
2011		SEAWST 6 LAPOS	N/A	N/A	60144E	01W006		65	
2011		SEAWST 6 LAPOS	N/A	N/A	60142E	01W011		5,760	
2011		SEAWST 6 LAPOS	N/A	N/A	60147E	01W012		2,700	
2011		SEAWST 6 LAPOS	N/A	N/A	60146E	01W014		1,690	
2011		SEAWST 6 LAPOS	N/A	N/A	60145E	01W015		715	
2011		JSWWD1 2 UNITS	N/A	N/A	60133E	01W018		5,900	
2011		JSWWD4 2 UNITS	N/A	N/A	60138E	01W035		54,000	
2011		JVENTR 2 QFUNTS	N/A	N/A	60148E	01W094		33,000	
2011		JVENTR 2 QFUNTS	N/A	N/A	60140E	01W095		27,000	
2011		NEWARK 1 QF	N/A	N/A	60257E	01W119		10	
2011		JSWWD1 2 UNITS	N/A	N/A	60126E	01W146A		43,100	
2011		JSWWD1 2 UNITS	N/A	N/A	60128E	01W146C		11,900	
2011		JSWWD1 2 UNITS	N/A	N/A	60129E	01W146D		15,000	
2011		BLHVN 7 MENLOP	N/A	N/A	60104A	02P014		2,000	
2011		FULTON 1 QF	N/A	N/A	60155E	04H011		400	
2011		POTTER 7 VECINO	N/A	N/A	60214A	04H052EO1		330	
2011		NDVLY 1 UNITS	N/A	N/A	60161E	04H061		2,900	
2011		NDVLY 1 UNITS	N/A	N/A	60161E	04H061EO1		2,900	
2011		FULTON 1 QF	N/A	N/A	60207E	04H062		350	
2011		GNACO 1 QF	N/A	N/A	60220E	04H134		85	
2011		HIWAY 7 ACANYN	N/A	N/A	60102A	04P010		1,500	
2011		GNACO 1 QF	N/A	N/A	60255E	04S142		7	
2011		PLACVL 1 RCKCRE	N/A	N/A	60176E	06H011		3,700	
2011		GOLDHL 1 QF	N/A	N/A	60205E	06H159		100	
2011		MONTPH 7 UNITS	N/A	N/A	60270E	06N168		12,500	
2011		JSWVDR 2 UNITS	N/A	N/A	60135E	06W146B		18,500	
2011		JSWVDR 2 UNITS	N/A	N/A	60136E	06W146C		30,000	
2011		JSWVDR 2 UNITS	N/A	N/A	60137E	06W146D		1,500	
2011		JSWVDR 2 UNITS	N/A	N/A	60125E	06W148		10,000	
2011		MOSSLD 1 QF	N/A	N/A	60190E	08C078		550	
2011		METCLF 1 QF	N/A	N/A	60237E	08H013		800	
2011		MNTAGU 7 NEWBYI	N/A	N/A	60105A	08P004		4,200	
2011		HICKS 7 GUADLP	N/A	N/A	60103A	08P006		2,600	
2011		COLPIN 6 COLLNS	N/A	N/A	60074E	10C003		12,000	
2011		SPIFBD 1 PL1X2	N/A	N/A	60090E	10C010		7,500	
2011		SPQUIN 6 SRPCQU	N/A	N/A	60089A	10C018		20,000	
2011		LASSEN 6 UNITS	N/A	N/A	60193E	10G011		700	
2011		LASSEN 6 UNITS	N/A	N/A	60111E	10G012EO1		2,200	
2011		TBLMTN 6 QF	N/A	N/A	60222E	10H002		990	
2011		TBLMTN 6 QF	N/A	N/A	60209E	10H007		275	
2011		TBLMTN 6 QF	N/A	N/A	60211E	10H010		990	
2011		FORKBU 6 UNIT	N/A	N/A	60160E	10H013		10,800	
2011		TBLMTN 6 QF	N/A	N/A	60218E	10H059		15	
2011		TBLMTN 6 QF	N/A	N/A	60251E	10H060		300	
2011		TBLMTN 6 QF	N/A	N/A	60219E	10H090		3	
2011		MTNLAS 6 UNIT	N/A	N/A	60081E	10P001		11,400	
2011		LASSEN 6 UNITS	N/A	N/A	60077E	10P005		32,000	
2011		TBLMTN 6 QF	N/A	N/A	60191E	10P058		85	
2011		SPI LI 2 UNIT 1	N/A	N/A	60088A	12C008		7,500	
2011		TBLMTN 6 QF	N/A	N/A	60243E	12H004EO1		395	

Year	Call	Location	Category	Code	Value	
2011	2011	TBLMTN 6_QF	N/A	60252E	12H006	150
2011	2011	KANAKA 1_UNIT	N/A	60185E	12H007	1,100
2011	2011	DEADCK 1_UNIT	N/A	60189E	12H010	2,000
2011	2011	TBLMTN 6_QF	N/A	60197A	12H054EO1	995
2011	2011	PACORO 6_UNIT	N/A	60082E	12P001	18,000
2011	2011	BURNYF 2_UNIT 1	N/A	60073E	13C038	31,000
2011	2011	SPBURN 2_UNIT 1	N/A	60087A	13C049	20,000
2011	2011	COVERD 2_QFUNTS	N/A	60154E	13H001	2,600
2011	2011	VOLTA 7_QFUNTS	N/A	60246E	13H006	150
2011	2011	TBLMTN 6_QF	N/A	60194E	13H008	360
2011	2011	FULTON 1_QF	N/A	60240E	13H012	200
2011	2011	COVERD 2_QFUNTS	N/A	60178E	13H013	5,000
2011	2011	COVERD 2_QFUNTS	N/A	60167E	13H014	2,000
2011	2011	COVERD 2_QFUNTS	N/A	60166E	13H015	7,000
2011	2011	SPBURN 7_SNOWMT	N/A	60177E	13H016	3,000
2011	2011	HATLOS 6_QFUNTS	N/A	60165E	13H017	2,000
2011	2011	OLSEN 2_UNIT	N/A	60175E	13H024	5,000
2011	2011	VOLTA 7_QFUNTS	N/A	60181E	13H035	1,100
2011	2011	PIT5 7_QFUNTS	N/A	60229E	13H036	600
2011	2011	KEKAWK 6_UNIT	N/A	60186E	13H039EO2	4,950
2011	2011	TKOPWR 2_UNIT	N/A	60187E	13H040	4,950
2011	2011	PIT5 7_QFUNTS	N/A	60170E	13H042	1,100
2011	2011	MALCHQ 7_UNIT 1	N/A	60164A	13H047	26,000
2011	2011	VOLTA 7_QFUNTS	N/A	60195E	13H119	630
2011	2011	TBLMTN 6_QF	N/A	60223E	13H120	300
2011	2011	CTNWDP 1_QF	N/A	60228E	13H122	280
2011	2011	CTNWDP 1_QF	N/A	60215E	13H123	100
2011	2011	CEDRCK 6_UNIT	N/A	60250E	13H124	975
2011	2011	CLOVER 2_UNIT	N/A	60227E	13H125	1,000
2011	2011	VOLTA 7_QFUNTS	N/A	60235E	13H127	30
2011	2011	VOLTA 7_QFUNTS	N/A	60206E	13H132	600
2011	2011	WSENGY 1_UNIT 1	N/A	60094E	13P045	54,900
2011	2011	MTNPWR 7_BURNEY	N/A	60079E	13P118	11,000
2011	2011	SPIAND 1_UNIT	N/A	60086A	13P163EO2	5,000
2011	2011	RIOOSO 1_QF	N/A	60216E	15H002	594
2011	2011	HAYPRS 6_QFUNTS	N/A	60157A	15H005	6,100
2011	2011	HAYPRS 6_QFUNTS	N/A	60158A	15H006	8,700
2011	2011	RIOOSO 1_QF	N/A	60208E	15H012	480
2011	2011	BOWMN 6_UNIT	N/A	60171E	15H015	3,600
2011	2011	RIOOSO 1_QF	N/A	60242E	15H055	208
2011	2011	FMEADO 6_HELLHL	N/A	60234E	15H059	500
2011	2011	RIOOSO 1_QF	N/A	60202E	15H068	75
2011	2011	RIOOSO 1_QF	N/A	60247E	15H069	100
2011	2011	RIOOSO 1_QF	N/A	60196E	15H072	40
2011	2011	ULTRCK 2_UNIT	N/A	60085E	15P028	25,000
2011	2011	SNDBAR 7_UNIT 1	N/A	60188E	16H003	16,200
2011	2011	TESLA 1_QF	N/A	60238A	16H030	230
2011	2011	TESLA 1_QF	N/A	60236E	16H033	700
2011	2011	TESLA 1_QF	N/A	60198A	16H092EO1	90
2011	2011	COTTLE 2_FRNKNH	N/A	60183E	16H094	5,035
2011	2011	TESLA 1_QF	N/A	60217E	16H095EO2	455
2011	2011	VLYHOM 7_SJID	N/A	60184E	16H097	2,850
2011	2011	TESLA 1_QF	N/A	60199A	16H177EO1	90
2011	2011	TESLA 1_QF	N/A	60200A	16H178EO1	90
2011	2011	TESLA 1_QF	N/A	60100E	16P001EO1	800
2011	2011	ULTPCH 1_UNIT 1	N/A	60080E	16P002	22,000
2011	2011	STNRES 1_UNIT	N/A	60110A	16P052EO1	18,000
2011	2011	THMENG 1_UNIT 1	N/A	60091E	16P054	21,000
2011	2011	ALTMID 2_UNIT 1	N/A	60118E	16W009	48,900
2011	2011	USWND4 2_UNITS	N/A	60131E	16W011	10,800
2011	2011	FLOWD2 2_UNIT 1	N/A	60119E	16W014	4,050
2011	2011	FLOWD2 2_UNIT 1	N/A	60120E	16W015	19,000

Year	Call	Category	Unit	Code	Rate	Code	Rate	Amount
2011	LFC 51_2 UNIT 1	N/A	N/A	60141E	16W028			22,000
2011	CSTRVL 7_QFUNTS	N/A	N/A	60108E	18C001			1,740
2011	OILFLD 7_QFUNTS	N/A	N/A	60169E	18H034EO1			3,750
2011	CSTRVL 7_QFUNTS	N/A	N/A	60107A	18P059			5,000
2011	PACLUM 6 UNIT	N/A	N/A	60083A	19C010			28,800
2011	BRDGLV 7_BAKER	N/A	N/A	60152E	19H002			1,500
2011	FTSWRD 7_QFUNTS	N/A	N/A	60174E	19H004EO2			1,300
2011	LOWGAP 7_QFUNTS	N/A	N/A	60230E	19H006			995
2011	WLLWCR 6_CEDRFL	N/A	N/A	60239E	19H048			300
2011	LOWGAP 7_QFUNTS	N/A	N/A	60159E	19H051			2,000
2011	FTSWRD 7_QFUNTS	N/A	N/A	60249E	19H055			25
2011	FAIRHV 6 UNIT	N/A	N/A	60076E	19P005			17,250
2011	MENBIO 6 UNIT	N/A	N/A	60078E	25C013			25,000
2011	MTNPOS 1 UNIT	N/A	N/A	60695A	25C018EO1			49,500
2011	STOREY 7_MDRCHW	N/A	N/A	60163E	25H036			2,000
2011	FRIANT 6 UNITS	N/A	N/A	60156E	25H037			25,000
2011	WRGHTP 7_AMENGY	N/A	N/A	60151E	25H038EO1			1,000
2011	WRGHTP 7_AMENGY	N/A	N/A	60151E	25H038EO2			1,000
2011	WRGHTP 7_AMENGY	N/A	N/A	60150E	25H039EO1			675
2011	BORDEN 2_QF	N/A	N/A	60224E	25H040			563
2011	BORDEN 2_QF	N/A	N/A	60226E	25H041			424
2011	BORDEN 2_QF	N/A	N/A	60225E	25H042			925
2011	RIOBRV 6 UNIT 1	N/A	N/A	60162E	25H073			16,000
2011	MCCALL 1_QF	N/A	N/A	60232A	25H149			450
2011	MCCALL 1_QF	N/A	N/A	60221E	25H150			1,000
2011	CRESSY 1_PARKER	N/A	N/A	60168E	25H185			2,690
2011	CURIS 1_QF	N/A	N/A	60210E	25H193			900
2011	CURIS 1_QF	N/A	N/A	60201E	25H204			900
2011	ULTPFR 1 UNIT 1	N/A	N/A	60084E	25P026			26,500
2011	NTRTB 6 UNIT	N/A	N/A	60139E	25W105			34,000
2011	DINUBA 6 UNIT	PG2030	N/A	60272A	33R005			12,000
2011	CAPMAD 1 UNIT 1	PG2031	N/A	60273A	33R006			24,000
2011	VESTAL 6_WDFIRE	PG2033	N/A	60274A	33R007			6,000
2011	ETIWND 6_MWDET1	TBD	N/A	60271A	33R008			24,000
2011	FLOWD2 2_FPLWND	PG7056	N/A	60030A	33R009			18,000
2011	WNDMAS 2 UNIT 1	PG7054	N/A	60124A	33R012			38,000
2011	BRDSDL 2_SHILO1	PG7055	N/A	60488A	33R015			75,000
2011	GEYS17 2_BOTRCK	PG0503	N/A	60604A	33R019			17,000
2011	N/A	PG7051	N/A	60602A	33R030			85,000
2011	N/A	N/A	N/A	N/A	33R030TR1			0
2011	BRDSDL 1_SHILO2	PG7053	N/A	60639A	33R033			150,000
2011	GYS5X6 7_UNITS, GYS	PG0202	N/A	60115A, 60117A	33R037			175,000
2011	WADHAM 6 UNIT	PG2034	N/A	60092E	33R038			26,000
2011	N/A	PG7052	N/A	60553A	33R045			102,900
2011	RIOOSO 1_QF	PG4116	N/A	60567A	33R046AB			0
2011	N/A	PG4117	N/A	60568A	33R047AB			0
2011	N/A	PG1031	N/A	61052A	33R053AB			0
2011	N/A	PG7045	N/A	60694A	33R054			90,000
2011	N/A	N/A	N/A	N/A	33R054TR1			0
2011	N/A	PG5096	N/A	60713A	33R060			10,000
2011	N/A	PG1030	N/A	60628A	33R061AB			0
2011	N/A	PG7050	N/A	60721A	33R071			204,700
2011	N/A	PG7049	N/A	60776A	33R072			75,000
2011	N/A	PG2032	N/A	60732A	33R076AB			0
2011	HIGGNS 7_QFUNTS	PG4110	N/A	60814A	33R077AB			0
2011	N/A	PG4111	N/A	60172A	33R096AB			0
2011	N/A	PG4112	N/A	60179A	33R101AB			0
2011	N/A	PG4113	N/A	60180A	33R102AB			0
2011	N/A	PG4114	N/A	60970A	33R107AB			0

Year	Project Name	PG&E	Construction	Operations	Transmission	Other	Total
2011	RIOSO 1_QF	PG4107	N/A	60173A	33R141AB		0
2011	N/A	PG1029	N/A	61148A	33R146AB		0
2011	N/A	PG4101	N/A	61303A	33R169AB		0
2011	SEAWST 6 LAPOS	N/A	N/A	W0323	01W007		2,100
2011	TBLMTN 6_QF	N/A	N/A	N/A	13H130		100
2011	STOKCG 1_UNIT 1	N/A	N/A	C0021	16C036EO2		45,000
2011	WRGHTP 7_AMENGY	N/A	N/A	N/A	25H039EO2		675
2011	BRDSDL 2_MTZUMA	PG7042	N/A	60543A	33R013-AR		36,800
2011	ELNIDIDP 6_BIOMASS	PG2036	N/A	60473A	33R016		8,000
2011	CHWCHL 1_BIOMAS	PG2035	N/A	60471A	33R017		8,000
2011	MENBIO 6_RENEW1	PG5099	N/A	60475A	33R032		5,000
2011	HATRDG 2_WIND	PG7044	N/A	60741A	33R058		78,000
2011	N/A	PG0901A/B	N/A	60746A	33R070		385,000
2011	SLYCRK 1_UNIT 1, KEL	PG4115	N/A	60267A, 60266A	33R074		0
2011	BIOMAS 1_UNIT 1	PG2026	N/A	60095A	33R075		22,500
2011	N/A	PG5087	N/A	60786A	33R079		48,000
2011	MCARTH 6_BIGVAL	PG2029	N/A	60492A	33R081		7,500
2011	MTNPOS 1_UNIT	PG2800	N/A	60695A	33R082		44,000
2011	N/A	PG7043	N/A	60712A	33R083		90,000
2011	AGUCAL 5_SOLAR1	PG5103	N/A	60894C	33R084		290,000
2011	N/A	PG7047	N/A	60564A, 60730A	33R086		100,000
2011	GYS5X6 7_UNITS, GYS	PG3009	N/A	60002A, 60003A	33R093		250,000
2011	N/A	N/A	N/A	N/A	33R095		0
2011	GRSCRK 6_BGCKWW	PG4104	N/A	60900A	33R100		0
2011	FTSWRD 7_QFUNTS	PG4102	N/A	60502A	33R108-AR		1,625
2011	AVENAL 6_AVPARK	PG5086	N/A	60912A	33R123		6,000
2011	AVENAL 6_SUNCTY	PG5093	N/A	60913A	33R124		20,000
2011	AVENAL 6_SANDDG	PG5092	N/A	60914A	33R125		19,000
2011	ELDORO 7_UNIT 1, ELI	TBD	N/A	60601A	33R140		0
2011	MSOLAR 2_SOLAR1	PG5038	N/A	60875C	33R144		150,000
2011	BRDSDL 2_SHILO3A	PG7039	N/A	61069A	33R145		60,000
2011	JSWPJR 2_UNITS	PG7040	N/A	61344A	33R151		78,200
2011	N/A	N/A	N/A	N/A	N/A		275.4
2011	VACADX 1_SOLAR	N/A	N/A	S0110	N/A		2
2011	SCHNDR 1_FIVPTS	N/A	N/A	S0140	N/A		15
2011	SCHNDR 1_WSTSDE	N/A	N/A	S0138	N/A		15
2011	STROUD 6_SOLAR	N/A	N/A	S0139	N/A		20
2011	N/A	N/A	N/A	N/A	N/A		
2011	N/A	N/A	N/A	N/A	N/A		

<u>Technology</u>
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WIND
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UNIT20, GEYS11_7_UNIT11, GEYS14_7_UNIT14, SMUDGO_7_UNIT 1, BEARCN_2_UNITS, WDFRDF_2_UNITS, ADLIN_1_UNITS, SANTFG_7_UNITS
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HYDRO: SMALL
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BIOGAS GENERATION
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SOLAR PHOTOVOLTAIC

12/15/2016 10:15 AM, UNIT 7A, GEYS14_7_UNIT14, SMUDGO_7_UNIT 1, BEARCN_2_UNITS, WDFRDF_2_UNITS, ADLIN_1_UNITS, SANTFG_7_UNITS

Tariffed, No CPUC Approval Required and O, which are shaded in green, contain confidential and protected information. This market-sensitive information is submitted pursuant to D.06-06-066 and Public Utilities Code Section 583.
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See Firming & Shaping Costs in 33R095

Reflects Firming & Shaping Cost associated with 33R083

Energy volumes reported on this row represent 2011 generation and will differ from the long-term average shown in PG&E's response to question 1a.

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price may be fixed for the term of the PPA or vary each year depending on the contract option. The total contract price is dependent upon the amount , timing and location of actual deliveries, and the actual average costs are ahead
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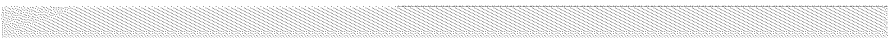
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Common Name	Resource ID	Total RA Value Provided in 2011	
		Resource Type	Jan

{Redacted}



Total RA Value Provided in 2011 (MW)

Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
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Claimed for System RA in CPUC Filing in 2011 (MW)									
Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep

1 (MW)

Made Available for Substitution in 2011 (MW)

Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
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Substitution in 2011 (MW)

Aug	Sep	Oct	Nov	Dec
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Response to Question 1f re Integration Costs

{Redacted}