

**BEFORE THE PUBLIC UTILITIES COMMISSION  
OF THE STATE OF CALIFORNIA**

Order Instituting Rulemaking to  
Continue Implementation and  
Administration of California Renewables  
Portfolio Standard Program.

Rulemaking R.11-05-005

**NOTICE OF EX PARTE COMMUNICATION OF  
THE GREEN POWER INSTITUTE**

June 15, 2012

Gregory Morris, Director  
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**NOTICE OF EX PARTE COMMUNICATION OF  
THE GREEN POWER INSTITUTE**

Pursuant to Rule 8.4 of the Commission's Rules of Practice and Procedure, in Proceeding R-11-05-005, the **Order Instituting Rulemaking to Continue Implementation and Administration of California Renewables Portfolio Standard Program**, the Green Power Institute, a program of the Pacific Institute for Studies in Development, Environment, and Security (GPI), provides this *Notice of Ex Parte Communication of the Green Power Institute*.

Green Power Institute Director Gregg Morris met with Matthew Tisdale, advisor to Commissioner Michel Florio, on June 13, 2012, at 1:00 pm, at the Commission Offices. The discussion was in regard to the pending Proposed Decision on RPS Rules in R.11-05-005. Dr. Morris presented the GPI's argument regarding closing out the first phase of the state's RPS program, as provided in the GPI's May 14, 2012 *Comments*, and May 21, 2012, *Reply Comments* on the PD.

Three spreadsheets and two charts were provided to Mr. Tisdale at the meeting. We are attaching these documents to this Notice as Attachment A.

Dated June 15, 2012  
Respectfully Submitted,



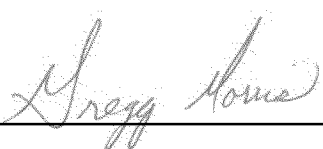
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VERIFICATION

I, Gregory Morris, am Director of the Green Power Institute, and a Research Affiliate of the Pacific Institute for Studies in Development, Environment, and Security. I am authorized to make this Verification on its behalf. I declare under penalty of perjury that the statements in the foregoing copy of *Notice of Ex Parte Communication of the Green Power Institute*, filed in R.11-05-005, are true of my own knowledge, except as to matters which are therein stated on information or belief, and as to those matters I believe them to be true.

Executed on June 15, 2012, at Berkeley, California.



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Gregory Morris

# Attachment A

## IOU RPS Compliance Filings

0% loss factor 0% new proj. failure rate	2003	2004	2005	2006	2007	2008	2009	2010	2011
<b>PG&amp;E</b>									
retail sales	71,099	72,114	72,372	76,356	79,078	81,524	79,624	77,772	74,864
IPT (applied to following year)	711	721	724	764	791	815	796	4,007	
APT	7,022	7,733	8,454	9,178	9,941	10,732	11,547	15,554	14,973
<b>total renewables</b>	<b>8,686</b>	<b>8,660</b>	<b>8,706</b>	<b>9,118</b>	<b>9,043</b>	<b>9,817</b>	<b>11,493</b>	<b>13,760</b>	<b>15,043</b>
biomass	96	3,178	3,161	2,964	2,940	2,996	3,271	3,250	3,301
biogas		204	126	112	104	104	185	136	112
geothermal	722	1,733	1,681	1,791	2,702	3,341	3,411	3,767	3,781
small hydro		2,466	2,864	3,226	1,916	1,950	2,044	2,243	2,737
solar		0	0		0	1	22	63	214
wind		1,079	874	1,025	1,381	1,425	2,560	4,301	4,898
Surplus / Deficit	1,664	927	252	-60	-898	-915	-54	-1,794	70
Banked Energy Applied				60	191	198	54	199	
Earmarked Energy Applied					705	715		2,300	
Bank Balance	1,664	2,591	2,843	2,783	2,592	2,394	2,340	2,141	
Earmark Deficit (cum. for 2010)					705	1,420	1,420	3,015	
Renewable Content		12.0%	12.0%	11.9%	11.4%	12.0%	14.4%	17.7%	20.1%
Biomass/Biogas % RPS		39.1%	37.8%	33.7%	33.7%	31.6%	30.1%	24.6%	22.7%
<b>SCE</b>									
retail sales	70,617	72,964	74,994	78,863	79,505	80,956	78,048	75,141	73,777
IPT (applied to following year)	706	730	750	789	795	810	780	0	
APT	11,254	11,960	12,690	13,440	14,228	15,023	15,833	15,028	14,755
<b>total renewables</b>	<b>12,612</b>	<b>13,181</b>	<b>12,821</b>	<b>12,486</b>	<b>12,261</b>	<b>12,573</b>	<b>13,621</b>	<b>14,548</b>	<b>15,544</b>
biomass	1,105	374	351	354	366	363	409	437	351
biogas	inc. above	774	765	747	581	541	493	515	506
geothermal	7,077	8,002	7,935	7,590	7,714	7,840	7,785	7,748	7,270
small hydro	997	978	871	948	558	527	561	664	920
solar	752	739	622	613	667	730	845	933	995
wind	2,558	2,314	2,277	2,234	2,375	2,572	3,528	4,251	5,502
Surplus / Deficit	1,167	1,221	132	-953	-1,967	-2,450	-2,212	-480	789
Banked Energy Applied				368	1,132	319	202	195	
Earmarked Energy Applied				585	836	2,452	3,122	1,069	
Bank Balance	1,167	2,388	2,520	2,152	1,020	701	499	304	
Cumulative Earmark Deficit				585	1,421	3,551	5,559	5,844	
Renewable Content	17.9%	18.1%	17.1%	15.8%	15.4%	15.5%	17.5%	19.4%	21.1%
Biomass/Biogas % RPS		8.7%	8.7%	8.8%	7.7%	7.2%	6.6%	6.5%	5.5%
<b>SDG&amp;E</b>									
retail sales	15,044	15,812	16,001	16,847	17,056	17,410	16,994	16,283	16,249
IPT (applied to following year)	150	158	160	168	171	174	170	1,979	
APT	297	447	605	765	933	1,104	1,278	3,257	3,250
<b>total renewables</b>	<b>550</b>	<b>677</b>	<b>825</b>	<b>900</b>	<b>881</b>	<b>1,047</b>	<b>1,785</b>	<b>1,941</b>	<b>3,381</b>
biomass	342	337	299	284	218	319	341	340	354
biogas	200	212	218	201	172	208	206	211	216
geothermal	0	0	0	0	0	0	0	183	783
small hydro	7	13	12	12	21	31	24	22	17
solar	0	0	0	0	0	0	1	2	2
wind	1	115	296	403	470	489	1,213	1,183	2,009
Surplus / Deficit	253	230	220	135	-52	-57	507	-1,316	131
Banked Energy Applied					52	57		42	
Earmarked Energy Applied								1,274	
Bank Balance	253	484	704	839	787	731	1,238	1,196	
Cumulative Earmark Deficit								1,274	
Renewable Content	3.7%	4.3%	5.2%	5.3%	5.2%	6.0%	10.5%	11.9%	20.8%
Biomass/Biogas % RPS		81.1%	62.7%	53.9%	44.3%	50.3%	30.6%	28.4%	16.9%
<b>Aggregate Three Large IOUs</b>									
Renewable Content		14.0%	13.7%	13.1%	12.6%	13.0%	15.4%	17.9%	20.6%
Biomass/Biogas % RPS		22.6%	22.0%	20.7%	19.7%	19.3%	18.2%	16.2%	14.2%

## Calculation of 2020 Net Short

Sales 2011	164,890 GWh
APT @ 20%	32,978 GWh
Annual Sales Growth	1.25%
Sales in 2020	184,395 GWh
APT @ 33%	60,850 GWh
Expected RPS in 2020	51,059 GWh
Renewable Net Short 2020	9,792 GWh

	2011 <u>Actuals</u>	GWh	
		<u>With PPA</u>	<u>PPA Pending</u>
Biomass	4,006	865	100
Biogas	834	304	
Geothermal	11,834	664	441
Sm. Hydro	3,674	8	
Solar	1,211	19,130	5,396
Wind	12,409	9,283	1,353
Total	33,968	30,254	7,290

	Probability of 2020 Operations		
Biomass	95%	60%	50%
Biogas	95%	60%	50%
Geothermal	95%	60%	50%
Sm. Hydro	95%	60%	50%
Solar	95%	50%	40%
Wind	95%	60%	50%

	2020 Expected Output (GWh)		
Biomass*	3,250	519	50
Biogas	792	182	0
Geothermal	11,242	398	221
Sm. Hydro	3,490	5	0
Solar	1,150	9,565	2,158
Wind	11,789	5,570	677
Total	31,714	16,239	3,105

\* Including 2012 loss of Colmac, Delano, Madera.

## Calculation of 2020 Net Short

Sales 2011	164,890 GWh
APT @ 20%	32,978 GWh
Annual Sales Growth	2.00% Sensitivity
Sales in 2020	197,059 GWh
APT @ 33%	65,029 GWh
Expected RPS in 2020	51,059 GWh
Renewable Net Short 2020	13,971 GWh

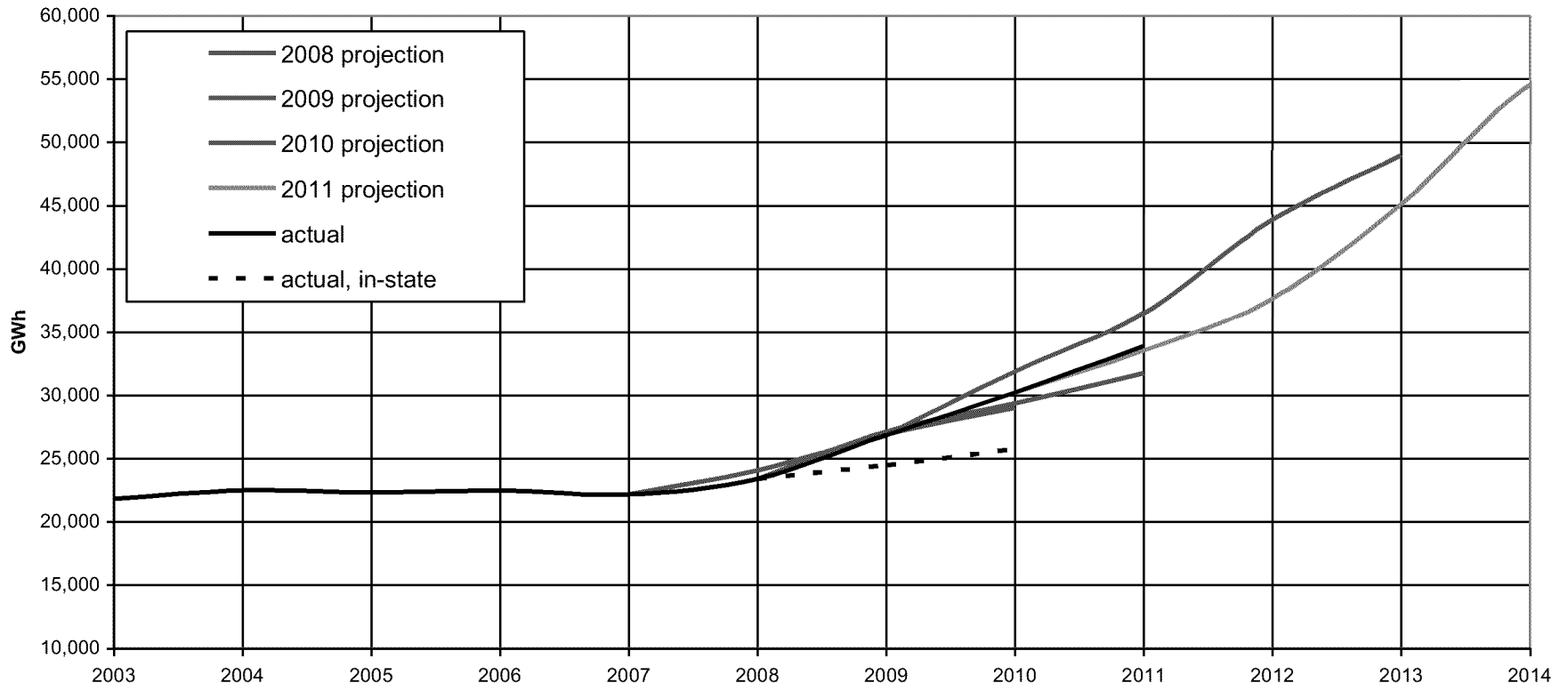
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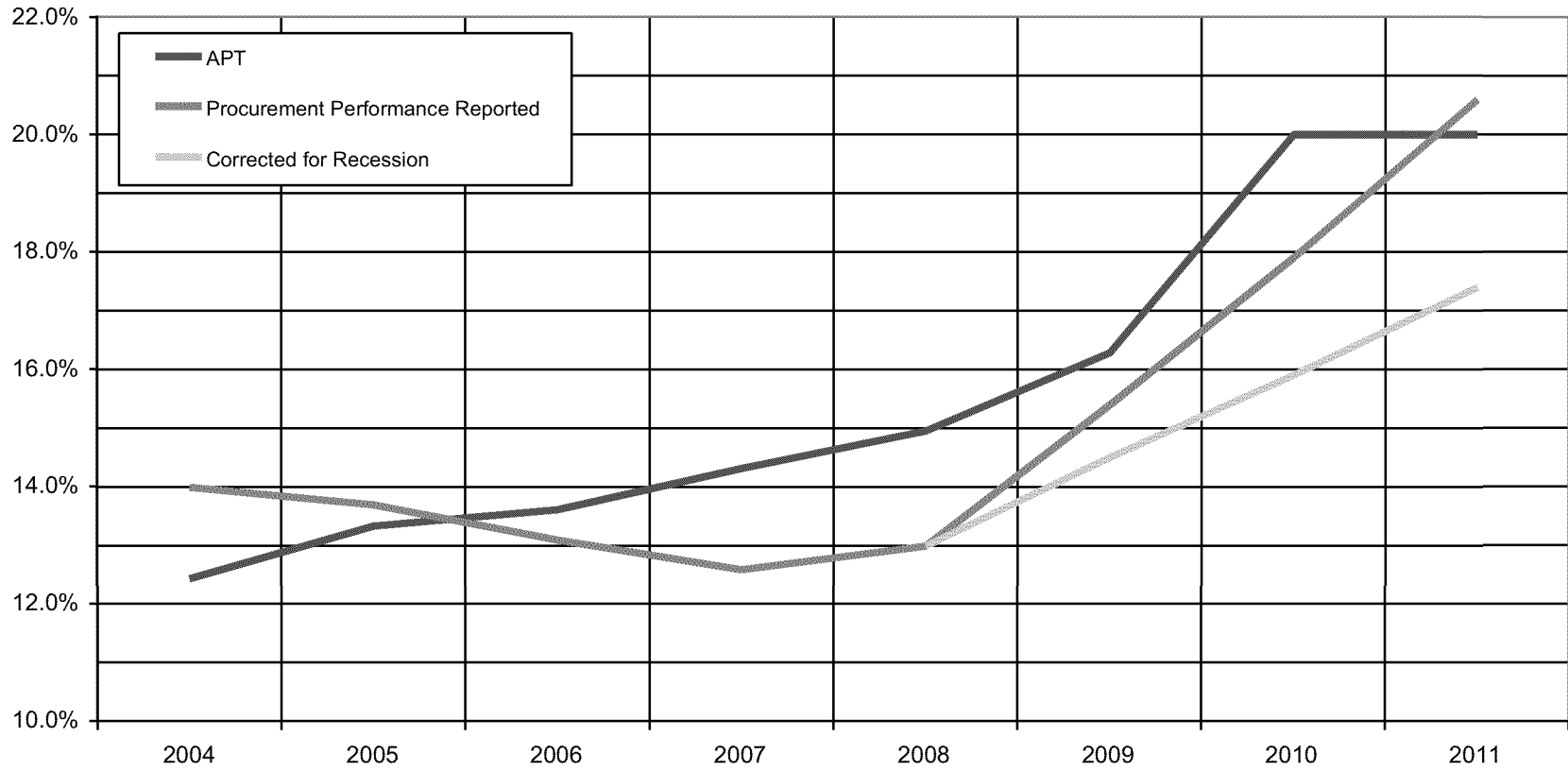
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### California RPS Procurement (3 Large IOUs)



### California RPS Progress (3 IOUs)



*GPI Notice of Ex Parte Communication, in R,11-05-005, page 2*