FORM B: BLANK *INTERVENOR COMPENSATION CLAIM*

Decision _____

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Order Instituting Rulemaking Pursuant to Assembly Bill 2514 to Consider the Adoption of Procurement Targets for Viable and Cost-Effective Energy Storage Systems.	Rulemaking 10-12-007 (Filed December 16, 2010)

INTERVENOR COMPENSATION CLAIM OF SIERRA CLUB CALIFORNIA AND DECISION ON INTERVENOR COMPENSATION CLAIM OF SIERRA CLUB CALIFORNIA

Claimant: Sierra Club California		**For contribution to D.13-10-040**
Claimed: $ 150,743.75		**Awarded: $**
Assigned Commissioner: Carla Peterman		**Assigned ALJ:** Amy C. Yip-Kikugawa, Colette Kersten
I hereby certify that the information I have set forth in Parts I, II, and III of this Claim is true to my best knowledge, information and belief. I further certify that, in conformance with the Rules of Practice and Procedure, this Claim has been served this day upon all required persons (as set forth in the Certificate of Service attached as Attachment 1).		
	Signature:	/s/
Date: 12/20/2013	**Printed Name:**	William Rostov

PART I: PROCEDURAL ISSUES (to be completed by Claimant except where indicated)

A. Brief Description of Decision:	Adopted energy storage procurement framework and design program.

B. Claimant must satisfy intervenor compensation requirements set forth in Pub. Util. Code §§ 1801-1812:

	Claimant	CPUC Verified
Timely filing of notice of intent to claim compensation (NOI) (§ 1804(a)):		
1. Date of Prehearing Conference:	April 21, 2011, September 4, 2012 (Phase 2 PHC)	
2. Other Specified Date for NOI:		

3. Date NOI Filed:	May 20, 2011, Amended NOI for Phase 2 submitted October 4, 2012	
4. Was the NOI timely filed?		
Showing of customer or customer-related status (§ 1802(b)):		
5. Based on ALJ ruling issued in proceeding number:	R.10-12-007	
6. Date of ALJ ruling:	July 5, 2011	
7. Based on another CPUC determination (specify):		
8. Has the Claimant demonstrated customer or customer-related status?		
Showing of "significant financial hardship" (§ 1802(g)):		
9. Based on ALJ ruling issued in proceeding number:	R.10-12-007	
10. Date of ALJ ruling:	July 5, 2011	
11. Based on another CPUC determination (specify):		
12. Has the Claimant demonstrated significant financial hardship?		
Timely request for compensation (§ 1804(c)):		
13. Identify Final Decision:	D.13-10-040	
14. Date of Issuance of Final Order or Decision:	October 21, 2013	
15. File date of compensation request:	December 20, 2013	
16. Was the request for compensation timely?		

C. Additional Comments on Part I (use line reference # as appropriate):

#	Claimant	CPUC	Comment
	Sierra Club California		Sierra Club California ("Club" or "Sierra Club") is a grassroots environmental organization interested in implementing measures to reduce greenhouse gas emissions and increase reliance on renewable energy sources. The Club's interest in this proceeding is not related to any business interest. The Club receives funding for environmental advocacy from many sources, including philanthropic donations, member contributions and other sources. The Club has entered into agreements with certain residential rooftop solar installers that will likely result in a small amount of additional funding. However, the Club's involvement in the present proceeding is completely independent and unrelated to those small amounts of funding.

PART II: SUBSTANTIAL CONTRIBUTION (to be completed by Claimant except where indicated)

A. In the fields below, describe in a concise manner Claimant's contribution to the final decision (*see* § 1802(i), § 1803(a) & D.98-04-059). (For each contribution, support with specific reference to the record.)

Contribution	Specific References to Claimant's Presentations and to Decision	Showing Accepted by CPUC
Sierra Club achieved its main goal of having the proceeding establish procurement targets. Throughout the proceeding Sierra Club was a main advocated for targets. Although Sierra Club did not achieve everything for which it advocated, Sierra Club's participation made a substantial contribution to Phase 2 of this proceeding and to the overall outcome of the proceeding. The Club details the substantial contribution it made to D.13-10-040 and the Assigned Commissioner's Ruling Proposing Storage Procurement Targets and Mechanisms and Noticing All-Party Meeting, which was the basis for the decision, below:		
1. Procurement targets Comments of Sierra Club California on Administrative Law Judge's January 18, 2013 Ruling Entering Interim Staff Report Into Record and Seeking Comments (Feb. 4, 2013) "To pick effective procurement	D.13-10-040 (Oct. 17, 2013) "AB 2514 is silent on any requirement to conduct or apply a system need determination as a basis for procurement	

targets, the Commission should construct targets based on AB 2514 policy goals and California's clean energy mandates. In its opposition to procurement targets, SDG&E argued, inter alia, that storage is a means to end and should not be considered as an end in and of itself. Sierra Club agrees that a procurement target should not established for its own sake, and that is why a procurement target should be tied to concrete state policy goals and mandates." (p. 4) Reply Comments of Sierra Club California and the California Environmental Justice Alliance on Assigned Commissioner's Ruling Proposing Storage Procurement Targets and Mechanisms (Jul. 19, 2013) "Sierra Club and CEJA recommend that the Commission stay the course on proposing procurement targets for energy storage. These targets should be made mandatory, demonstrating that there is no question that	targets. As such, we are not prevented from establishing procurement targets, based on our expertise and authority, in the absence of a system needs determination. Based on AB 2514, as well as our overall energy policy, we find that it is reasonable to establish procurement targets to encourage the development and deployment of new energy storage technologies." (pp. 22-23) Assigned Commissioner's Ruling Proposing Storage Procurement Targets and Mechanisms and Noticing All-Party Meeting (Jun. 10, 2013) "I propose that the Commission adopt energy storage procurement targets expressed in megawatt (MW) amounts for each investor-owned utility. Building on the storage use cases identified and defined by Commission staff earlier in this proceeding, each utility would be given a target allocated among the three sets of storage use cases: transmission-connected, distribution-connected, and customer-side applications…" (p. 7) D.13-10-040 (Oct. 17, 2013) "We remind the IOUs that while we may grant a request to defer a portion of their procurement targets, we expect that the overall procurement goal of 1,325 MW will be installed by 2024." (p. 43) "CESA and Sierra/CEJA favor retaining	

California will procure enough energy storage to transform the energy storage market." (p. 1) "The procurement should be designed to promote the most cost-effective solutions and as such should only be subject to a narrowly tailored off-ramp, which allows some flexibility without undermining the overall goals." (p. 8) Reply Comments of Sierra Club California and the California Environmental Justice Alliance on Proposed Decision Adopting Energy Storage Procurement Framework And Design Program (Sept. 30, 2013) Similarly, the Commission should retain the requirements that targets are based on MW installed and that any adjustments to procurement targets for a project identified in the decision or authorized in other Commission proceedings should be counted after operating for one year. (p. 2)	existing targets or even increasing them." (p. 20) "As explained below, we find that the procurement target levels set forth in the Proposed Plan are appropriate." (p. 22) "Section 3.d. of the Storage Framework sets forth the requirements for the procurement application. The procurement targets set for 2014, 2016, 2018 and 2020 represent the number of MW pending contract, under contract, or installed after the end of those procurement cycles. However, by no later than the end of 2024, the IOUs must have the full 1,325 MW installed." (p. 26)	
2. Policy Guidance Comments of Sierra Club California on Administrative Law Judge's January 18, 2013 Ruling Entering Interim Staff Report Into Record and Seeking Comments (Feb. 4, 2013) "The legislature set out the relevant benchmarks for	Assigned Commissioner's Ruling Proposing Storage Procurement Targets and Mechanisms and Noticing All-Party Meeting (Jun. 10, 2013) "Consistent with AB 2514, the Commission's energy storage procurement policy should be guided by three purposes: 1) The optimization of the grid,	

creating procurement targets based on policy goals. In AB 2514, the legislature found that the expansion of energy storage systems could assist load-serving entities in "integrating increased amounts of renewable energy resources into the electrical transmission and distribution grid in a manner that minimizes emissions of greenhouse gases," "optimize the use of the significant additional amounts of variable, intermittent, and off peak electrical generation from wind and solar energy," reduce "the need for new fossil fuel-powered peaking power plants," avoid or reduce peak load from "high carbon-emitting electrical generating facilities," and provide "ancillary services otherwise provided by fossil-fueled generating facilities" reducing the emissions of carbon dioxide and criteria pollutants. These functions of energy storage should provide the context for establishing procurement targets." (p. 4) "More fundamentally, the energy storage procurement targets should be consistent with and back calculated from the State's long-term target of reducing emissions to 80% below 1990 levels by 2050 which likely requires the transition to a zero carbon energy supply. In some parts of the state such as the LA Basin, replacing fossil fuel generation with energy storage will be an	including peak reduction, contribution to reliability needs, or deferment of transmission and distribution upgrade investments; 2) The integration of renewable energy; and 3) The reduction of greenhouse gas emissions to 80 percent below 1990 levels by 2050, per California's goals. While energy storage may serve additional purposes within California's energy supply, I propose that the Commission use these three overarching purposes in setting procurement targets, designing procurement, and measuring progress." (pp. 6-7) D.13-10-040 (Oct. 17, 2013) "The Proposed Plan set forth the following guiding principles, consistent with AB 2514, for the Commission's energy storage procurement policy…We find these guiding principles to be reasonable. The guiding principles are contained in Section 1 of the Storage Framework." (pp. 8-9)	

important component to reducing persistent, unhealthy air. According to the South Coast Air Quality Management District, 'a transition to zero- and near-zero emission technologies is necessary to meet 2023 and 2032 air quality standards and 2050 climate goals.'" (p. 5) Reply Comments of Sierra Club California on Administrative Law Judge's January 18, 2013 Ruling Entering Interim Staff Report Into Record and Seeking Comments (Feb. 21, 2013) "To effectively develop procurement targets, Staff needs to establish the objectives for the targets. Sierra Club urges the Commission to adopt storage procurement objectives that focus on integrating the current 33% RPS mandate as well as looking forward to integrating the much higher level of renewables that will be necessary to meet to the State's goal of 80% GHG reduction by 2050." (p. 4)		
3. Market Transformation Reply Comments of Sierra Club California on Administrative Law Judge's January 18, 2013 Ruling Entering Interim Staff Report Into Record and Seeking Comments (Feb. 21, 2013) "This proceeding should dismiss the notion that, since California has made a bit of progress in valuing these	Assigned Commissioner's Ruling Proposing Storage Procurement Targets and Mechanisms and Noticing All-Party Meeting (Jun. 10, 2013) "This ACR suggests procurement targets for energy storage with the goal of market transformation." (p. 3) D.13-10-040 (Oct. 17, 2013) "With the goal of market transformation, the Proposed Plan set procurement	

resources, nothing more is required to allow energy storage to enter the market on a level playing field. Energy storage provides unique benefits to the system. Even accounting for the progress California has made in this arena, not all of these benefits are valued adequately in the market. Energy storage provides unique benefits to the system...The Commission should continue its efforts to accurately value all the benefits energy storage contributes. Furthermore, cost-effectiveness analysis, and existing procurement mechanisms, will tend to rely on current storage technology costs, and therefore fail to incorporate the longer term benefits of market transformation and the potential for reducing future costs through current investments." (pp. 9-10) Opening Comments of Sierra Club California and the California Environmental Justice Alliance on Assigned Commissioner's Ruling Proposing Storage Procurement Targets and Mechanisms (Jul. 3, 2013) "The ACR's focus on 'procurement targets for energy storage with the goal of market transformation' is exactly what is needed for the energy storage market. Procurement target mandates of sufficient magnitude can create market transformation. Clear and firm policy support in the form of strict	targets for energy storage for the three investor-owned utilities – Southern California Edison Company (SCE), Pacific Gas and Electric Company (PG&E) and San Diego Gas & Electric Company (SDG&E) – equaling 1,325 megawatts (MW) to be procured by 2020." (p. 7) "As explained below, we find that the procurement target levels set forth in the Proposed Plan are appropriate." (p. 22)	

procurement targets will (1) establish a market, (2) promote innovation, and (3) potentially create numerous benefits from learning-induced cost reductions. As envisioned by the ACR, market transformation can 'bring down market barriers, reduce costs, and increase scale of market penetration over time.'" (p. 14)		
4. Cost-effectiveness Comments of Sierra Club California on Administrative Law Judge's January 18, 2013 Ruling Entering Interim Staff Report Into Record and Seeking Comments (Feb. 4, 2013) "Sierra Club once again reiterates its position that a cost-effectiveness methodology and the adoption of a procurement target are the two essential outcomes of this proceeding and both should be the focus of the remaining time." (p. 3) Opening Comments of Sierra Club California and the California Environmental Justice Alliance on Assigned Commissioner's Ruling Proposing Storage Procurement Targets and Mechanisms (Jul. 3, 2013) "Energy storage has a slew of benefits, most of which - but not all - have been at least mentioned during this proceeding, and a smaller subset were included in the EPRI and KEMA cost-	D.13-10-040 (Oct. 17, 2013) "AB 2514 requires that energy storage targets and procurements must be 'viable and cost-effective.' To that end, we have devoted a great deal of attention and effort into formulating a cost-effectiveness approach that would be sufficient to meet Section 2836.2(d)." (p. 62) "Moreover, based on parties' comments, we find that the EPRI and DNV KEMA models should not be required by the Commission as the sole methodologies for assessing cost effectiveness at this point." (p. 63) "As such, we shall allow the IOUs to propose their own methodology to evaluate the cost and benefits of bids. However, the IOUs shall assess the full range of benefits and costs identified in the use-case framework and the EPRI and DNV KEMA reports submitted in this proceeding. In addition, while we	

effectiveness studies. As we demonstrate below, a more comprehensive view of cost-effectiveness would show much higher benefit-to-cost ratios. This has important implications: (1) The total procurement target proposed by the Commission could be considerably higher without causing burden on the IOUs. (2) If IOU's are allowed an 'offramp' by demonstrating unreasonableness, they should be required to do so using a comprehensive calculation of cost-effectiveness, rather than the narrow view taken in the EPRI and KEMA studies." (p. 34)	allow different evaluation protocols by utility, the IOUs shall confer with Energy Division Staff to develop a consistent evaluation protocol to be used for benchmarking and general reporting purposes." (p. 63)	
5. Pumped Hydro Storage Reply Comments of Sierra Club California on Administrative Law Judge's January 18, 2013 Ruling Entering Interim Staff Report Into Record and Seeking Comments (Feb. 21, 2013) "While Sierra Club supports ambitious targets for storage, we also urge the Commission to insure that this program is not dominated by pumped storage technology. Pumped hydro raises a potential host of environmental and planning issues that are categorically different from other forms of energy storage. About 4000 MW of pumped hydro storage is already deployed in California, and new pumped storage would be subject to extensive environmental	Assigned Commissioner's Ruling Proposing Storage Procurement Targets and Mechanisms and Noticing All-Party Meeting (Jun. 10, 2013) "When identifying market barriers and presenting procurement targets for consideration, I am referring to the barriers faced by those storage applications and technologies that have not yet achieved widespread commercial operation. More well-established technologies and applications with proven benefits and the ability to participate in California markets today, such as pumped hydrological storage, may not face all of the same types of barriers and issues as those energy storage technologies being used in new ways that have not been demonstrated or deployed on a wider scale." (pp. 4-5)	

analysis. In addition, it raises a different set of procurement issues compared to other forms of storage." (p. 6) Opening Comments of Sierra Club California and the California Environmental Justice Alliance on Assigned Commissioner's Ruling Proposing Storage Procurement Targets and Mechanisms (Jul. 3, 2013) "Sierra Club and CEJA agree with the ACR's exclusion of pumped hydrological storage from the definition of energy storage for the purpose of setting these procurement targets, because those technologies are already into the California grid and face a different set of market barriers." (p. 26)	D.13-10-040 (Oct. 17, 2013) "As noted above, there was considerable discussion over the Proposed Plan's exclusion of large-scale pumped storage projects towards meeting the procurement targets. We are sympathetic to parties' arguments that pumped storage complies with storage definitions under AB 2514. However, the sheer size of pumped storage projects would dwarf other smaller, emerging technologies; and as such, would inhibit the fulfillment of market transformation goals. The majority of pumped storage projects are 500 MW and over, which means a single project could be used to reach each target within a utility territory. Therefore, we find it is appropriate to exclude large-scale pumped storage projects from the procurement mechanism outlined in this decision. Accordingly, large-scale pumped storage projects greater than 50 MW will not be eligible to bid into solicitations offered under the Storage Framework." (pp. 34-35)	
6. Place of Energy Storage in the Loading Order Comments of Sierra Club California on Administrative Law Judge's January 18, 2013 Ruling Entering Interim Staff Report Into Record and Seeking Comments (Feb. 4, 2013) Spending limited resources and time on this issue would become an unnecessary distraction from the core issue that need to be determined by this proceeding: How much	Assigned Commissioner's Ruling Proposing Storage Procurement Targets and Mechanisms and Noticing All-Party Meeting (Jun. 10, 2013) "At present, I do not believe it is necessary to formally revise the California Loading Order identified as part of the Energy Action Plan to include energy storage." (p. 20)	

cost-effective energy storage should be targeted for implementation in the California electric grid? (p. 13)	D.13-10-040 (Oct. 17, 2013) "Consistent with D.13-05-015, we agree that the Loading Order should not be revised." (p. 11)	
7. **Coordination with Other Commission Proceedings** Comments of Sierra Club California on Administrative Law Judge's January 18, 2013 Ruling Entering Interim Staff Report Into Record and Seeking Comments (Feb. 4, 2013) "Sierra Club urges Staff to change its determination that LTPP and Resource Adequacy "represent the best forums for dealing with issues related to energy storage within their context. For example, determinations of market need for new resources, which may include energy storage, is best left to the LTPP proceeding." This statement is contrary to the statements in LCR PD in LTPP. After setting a "modest" 50 MW procurement target for energy storage resources, the PD explains that the procurement proceedings will not be able to do more with energy storage resources until there are further decisions in the energy storage proceeding. The PD states that in the energy storage proceeding "no decisions have been made concerning the viability, cost-effectiveness or public interest nature of energy storage	D.13-10-040 (Oct. 17, 2013) "The procurement targets and the schedule for solicitations proposed here are not presently tied to need determinations within the LTPP proceeding. Instead, in the near term, we view the Storage Framework adopted herein as moving in parallel with the ongoing LTPP evaluations of need – system and local, and with the new consideration of the outage at SONGS." (pp. 33-34) Assigned Commissioner's Ruling Proposing Storage Procurement Targets and Mechanisms and Noticing All-Party Meeting (Jun. 10, 2013) "This proposal brings together aspects of suggestions from various parties during the course of this proceeding, as well as actions by the Commission in other venues such as the Long Term Procurement Planning (LTPP) proceeding, and the aforementioned SGIP. Ultimately, there are decisions being made in multiple arenas that impact storage, and this proposal is designed to supplement those activities, while moving forward with storage	

technologies in that docket. If and when such action is taken, the role of energy storage technologies in the procurement process can be considered." LTPP needs decision-making to occur in this proceeding in order to make additional decisions about energy storage. As Sierra Club has argued in this proceeding, procurement targets established in this proceeding can feed into the analysis in the LTPP." (pp. 18-19)	policy and deployment for the benefit of California." (p. 6)	
8. **Procurement Mechanism** Opening Comments of Sierra Club California and the California Environmental Justice Alliance on Assigned Commissioner's Ruling Proposing Storage Procurement Targets and Mechanisms (Jul. 3, 2013) "The ACR proposes an energy storage auction protocol modeled on the auction mechanism used for the Renewables Auction Mechanism (RAM). The proposed auction mechanism is neither suited to overcome market barriers, nor to the dynamic nature of energy storage. Consequently, the Commission should not adopt a RAM-based mechanism and instead utilize a series of RFOs for larger scale projects and standardized contracts and/or incentives for small-scale storage." (p. 22)	D.13-10-040 (Oct. 17, 2013) "We agree with parties that the RAM is not the appropriate mechanism for the procurement of energy storage. Energy storage has multiple attributes and functions that cross the spectrum of wholesale and retail markets and transmission & distribution grid services. As such, a RAM-type solicitation, which seeks to obtain the lowest cost for ratepayers, may not be able to properly evaluate projects due to the variety of functions and markets served. Rather, we are persuaded by parties' comments that competitive solicitations involving RFOs are the best mechanism to meet the varying definitions and use cases of storage in a changing technology environment." (p. 54-55)	

B. Duplication of Effort (§§ 1801.3(f) & 1802.5):

	Claimant	CPUC Verified
a. **Was the Office of Ratepayer Advocates (ORA) a party to the proceeding?**[1]	**Yes**	
b. **Were there other parties to the proceeding with positions similar to yours?**	**Yes**	
c. **If so, provide name of other parties:** California Environmental Justice Alliance ("CEJA"), CLEAN Coalition, California Energy Storage Alliance, and some energy storage companies.		
d. **Describe how you coordinated with ORA and other parties to avoid duplication or how your participation supplemented, complemented, or contributed to that of another party:** Sierra Club brought a unique perspective to the proceeding representing environmental and ratepayer interests rather than an industry perspective. Moreover, the Club was a tenacious advocate for procurement targets despite opposition from the utilities and ORA, among others. At the beginning of Phase 2, Sierra Club was the main environmental group advocating on this topic and was one of the very few voices for procurement targets before they were proposed in the ACR. During the middle of Phase 2, the California Environmental Justice Alliance ("CEJA") entered the proceeding. Sierra Club and CEJA joined forces because our interests were very similar. Sierra filed joint briefs with CEJA; the Club took the lead on briefing, because it was already immersed in the proceeding. Sierra Club and CEJA also attended a joint ex parte meeting. Sierra Club did not coordinate with ORA, because ORA consistently argued against procurement target in Phase 1 and into Phase 2. Given the different position that Sierra Club and ORA had with respect to procurement targets coordination would have been futile. The California Energy Storage Alliance ("CESA") had similar but not always consistent positions with the Club. Even so, Sierra Club coordinated with CESA throughout Phase 2. Although Sierra Club discussed certain positions with CLEAN Coalition, another advocacy group involved in the proceeding, Sierra Club filed independent comments. The perspective of both groups was complementary and added to the fullness of the record.		

C. Additional Comments on Part II (use line reference # or letter as appropriate):

#	Claimant	CPUC	Comment

[1] The Division of Ratepayer Advocates was renamed the Office of Ratepayer Advocates effective September 26, 2013, pursuant to Senate Bill No. 96 (Budget Act of 2013: public resources), which was approved by the Governor on September 26, 2013.

PART III: REASONABLENESS OF REQUESTED COMPENSATION (to be completed by Claimant except where indicated)

A. General Claim of Reasonableness (§§ 1801 & 1806):

a. Concise explanation as to how the cost of Claimant's participation bears a reasonable relationship with benefits realized through participation (include references to record, where appropriate) Sierra Club's main objective for the proceeding was the adoption of significant procurement targets that would facilitate a clean energy future for California. Not only did the Commission adopt a significant procurement target that will double the current capacity of energy storage in the United States, the Commission also based its decision on policy guidance for which Sierra Club advocated, including integration of renewables, reduction of peak power and using the state's greenhouse gas emission goals as reasons for adopting energy storage targets. Sierra Club also contributed to the discussions of whether energy storage should be part of the loading order, the applicability of energy storage to the loading order and whether pumped hydro should be included in the procurement targets. Additionally, Sierra Club provided extensive input on valuing the attributes of energy storage and how a cost-effectiveness methodology should be developed and addressed in the proceeding, which was a primary part of the initial stages of Phase 2 before the ACR was issued. The Club's participation in this proceeding will result in benefits to ratepayers that exceed the cost of participation. Although these benefits are not quantifiable, the adoption of procurement targets will help facilitate a clean energy future and will better effectuate California's other clean energy law and policies. The Club's advocacy on behalf of aggressive implementation of the State's clean energy and environmental goals will benefit the ratepayers over the long-term because Californians will reap the environmental and health benefits intended by these laws. Moreover, the Club's fee request is miniscule in comparison to the cost of the procurement of energy storage that this proceeding authorizes.	CPUC Verified
b. Reasonableness of Hours Claimed. As in Phase 1, Sierra Club California participated actively in all aspects of Phase 2 of this proceeding by attending all workshops and commenting on the Administrative Law Judge's January 18, 2013 Ruling Entering Interim Staff Report into Record and Seeking Comments, on the Assigned Commissioner's Ruling Proposing Storage Procurement Targets and Mechanisms ("ACR"), and the Proposed Decision. Sierra Club was one of primary advocates in the proceeding for procurement targets, often like a lone voice in the wind. But with the issuance of the ACR, the proceeding turned dramatically and adopted many of the positions that Sierra Club had been advocating. Sierra Club filed a thirty-five page comment letter in addition to scores of supporting documentation to ensure that the record supported the decision. Sierra Club provided record support to many of the positions of the ACR such as procurement targets promoting market transformation and support	

for the policy guidance articulated in the ACR. Once the Proposed Decision affirmed much of the ACR and many of the positions for which Sierra Club advocated, Sierra Club submitted relatively abbreviated comments. In addition, Sierra Club extensively commented on the valuation of energy storage and cost-effectiveness and participated in the workshops held on the topic. The Commission held 5 workshops evaluating the use cases and cost-effectiveness in from September 2012 to March 2013. The use cases fed into analyses conducted by two consultant groups: EPRI and KEMA. To evaluate these cost-effectiveness analyses, Sierra Club engaged a consultant, EcoShift Consulting. EcoShift Consulting produced a report, attached to Sierra Club's July 3, 2013 Opening Comments on the Assigned Commissioner's Ruling, that reviewed the EPRI and KEMA studies and contributed additional information to the record to fully capture the benefits of energy storage. While other parties argued that EPRI and KEMA's studies should be disregarded, Sierra Club drew on EcoShift's report to argue that the EPRI and KEMA studies be used to determine cost-effectiveness of energy storage projects, with the understanding that additional data must be added to ensure that the full benefits of energy storage are captured. The final decision required that the IOUs evaluate programs using EPRI and KEMA's studies, in addition to whatever methodology they develop in-house (D.13-10-040, p. 63). EcoShift's work also provided Sierra Club with substantial evidence for justifying procurement targets as the correct policy choice. Sierra Club California is claiming a reasonable amount of hours for the work of a one attorney, one in-house advocate and outside experts. The work was coordinated by William Rostov to avoid duplication and to ensure that the relevant people worked on issues appropriate to their experience. Additionally, Sierra Club successfully collaborated with CEJA on briefing. The limited overlap in the work involved internal review of filings, and ensuring the accuracy of the filings. Sierra Club worked with EcoShift, which produced an independent analysis on cost-effective issues and contributed to various sections of our comments on the ACR. The Club also judiciously used the expertise of Robert Frechling. He is an energy expert who provides important insight and nuance to Sierra Club's position. Sierra Club also hired an expert to help with the initial use case workshops but Sierra Club has not claimed his time. Additionally, in the exercise of reasonable billing judgment, the Club excised hours that appeared excessive, redundant or unnecessary.	
c. Allocation of Hours by Issue A. Initial workshop/prehearing conference/all-party meeting/review of scoping ruling/coordination with other parties/ex-parte meetings. (14%) B. Use case development. (12%) C. Cost-effectiveness/valuation of storage. (32%) D. Procurement targets/policy guidance. (23%) E. Pumped hydro. (5%)	

F. Energy storage not included in loading order. (5%) G. Relationship to other proceedings. (5%) H. Procurement mechanism. (4%)	

B. Specific Claim:

CLAIMED						CPUCA WARD		
ATTORNEY, EXPERT, AND ADVOCATE FEES								
Item	**Year**	**Hours**	**Rate $**	**Basis for Rate***	**Total $**	**Hours**	**Rate $**	**Total $**
William Rostov	2012	44.80	360	D.13-12-027	16,128			
William Rostov	2013	205.7	390	See Comment 1	80,223			
James Barsimantov	2013	69.3	210	See Comment 2	14,553			
Dustin Mulvaney	2013	20.5	190	See Comment 3	3,895			
Robert Freehling	2012	0.7	165	D.13-10-068	115.50			
Robert Freehling	2103	18.1	180	See Comment 4	3,258.00			
Adenike Adeyeye	2012	24.7	130	See Comment 5	3,211.00			
Adenike Adeyeye	2013	197.3	135	See Comment 5	26,635.5			
				Subtotal:	$ 148,019	*Subtotal:*		$
OTHER FEES **Describe here what OTHER HOURLY FEES you are Claiming (paralegal, travel **, etc.):**								
Item	**Year**	**Hours**	**Rate $**	**Basis for Rate***	**Total $**	**Hours**	**Rate**	**Total $**
[Person 1]								
[Person 2]								
				Subtotal:	$	*Subtotal:*		$
INTERVENOR COMPENSATION CLAIM PREPARATION **								
Item	**Year**	**Hours**	**Rate $**	**Basis for Rate***	**Total $**	**Hours**	**Rate**	**Total $**
William Rostov	2013	10.2	195	See Comment 6	1,989			
Adenike Adeyeye	2013	10.9	67.5	See Comment 7	735.75			
				Subtotal:	$2,724.75	*Subtotal:*		$
COSTS								

#	Item	Detail	Amount	Amount
TOTAL REQUEST: $150,743.75				TOTAL AWARD: $

When entering items, type over bracketed text; add additional rows as necessary.
*If hourly rate based on CPUC decision, provide decision number; otherwise, attach rationale.
**Travel and Reasonable Claim preparation time are compensated at ½ of preparer's normal hourly rate.

Attorney	Date Admitted to CA BAR[2]	Member Number	Actions Affecting Eligibility (Yes/No?) If "Yes", attach explanation
William Rostov	December 3, 1996	184528	No

C. **Attachments Documenting Specific Claim and Comments on Part III (Claimant completes; attachments not attached to final Decision):**

Attachment or Comment #	Description/Comment
Comment 1	**Rostov's 2013 rate includes a requested 5% step increase pursuant to D.08-04-110 and a 2% COLA pursuant to Resolution ALJ-287. (360 x 5% rounded to nearest 5$ = 380, 380 x 2% rounded to nearest 5$ = 390). This would be Rostov's first 5% step increase.**
Comment 2	**Barsimantov was awarded a rate of $195 for work in 2010 in D.12-05-032. Barsimantov's 2013 rate includes a requested 5% step increase pursuant to D.08-04-110 and a 2% COLA pursuant to Resolution ALJ-287. (195 x 5% rounded to nearest 5$ = 205, 205 x 2% rounded to nearest 5$ = 210). This would be Barsimantov's first 5% step increase.**
Comment 3	**Mulvaney was awarded a rate of $175 for work in 2010 in D.12-05-032. Mulvaney's 2013 rate includes a requested 5% step increase pursuant to D.08-04-110 and a 2% COLA pursuant to Resolution ALJ-287. (175 x 5% rounded to nearest 5$ = 185, 185 x 2% rounded to nearest 5$ = 190). This would be Mulvaney's first 5% step increase.**
Comment 4	**Freehling's 2013 rate includes a requested 5% step increase pursuant to D.08-04-110 and a 2% COLA pursuant to Resolution ALJ-287. (165 x 5% rounded to nearest 5$ = 175, 175 x 2% rounded to nearest 5$ = 180). This would be Freehling's second 5% step increase.**
Comment 5	**Adenike Adeyeye works as a Research and Policy Analyst in Earthjustice's California Regional Office, a non-profit public interest law firm dedicated to protecting the magnificent places, natural resources, and wildlife of this earth, and to defending the right of all people to a healthy environment. Earthjustice receives no compensation for its representation and will only receive compensation for its services based on the award of intervenor compensation.** **Adeyeye holds a BA in Environmental Studies from Yale University in 2007 and a Masters in Environmental Management from the Yale School of Forestry and**

[2] This information may be obtained at: http://www.calbar.ca.gov/.

	Environmental Studies in 2011 (resume attached). She has worked on PUC proceedings **including the 2012 Long Term Procurement Planning and Energy Storage proceedings since March 2012. She falls within the 0-6 year range for experts. Sierra Club requests the minimum in the range for both 2012 and 2013.**
Comment 6	**This is one-half of calculated 2013 rate for William Rostov (See Comment 1). Note, Sierra Club is only requesting compensation for the request for compensation and not the amended NOI.**
Comment 7	**This is one-half of the proposed 2013 rate for Adenike Adeyeye (See Comment 5).**
Attachment 1	**Certificate of Service**
Attachment 2	**Adenike Adeyeye Resume**
Attachment 3	**Timesheets**

D. CPUC Disallowances, Adjustments, and Comments (CPUC completes):

Item	Reason

PART IV: OPPOSITIONS AND COMMENTS

Within 30 days after service of this Claim, Commission Staff or any other party may file a response to the Claim (see § 1804(c))

(CPUC completes the remainder of this form)

A. Opposition: Did any party oppose the Claim?	

If so:

Party	Reason for Opposition	CPUC Disposition

B. Comment Period: Was the 30-day comment period waived (*see* Rule 14.6(2)(6))?	

If not:

Party	Comment	CPUC Disposition

FINDINGS OF FACT

1. Claimant [has/has not] made a substantial contribution to D._____.

2. The requested hourly rates for Claimant's representatives [,as adjusted herein,] are comparable to market rates paid to experts and advocates having comparable training and experience and offering similar services.

3. The claimed costs and expenses [,as adjusted herein,] are reasonable and commensurate with the work performed.

4. The total of reasonable contribution is $_____.

CONCLUSION OF LAW

1. The Claim, with any adjustment set forth above, [satisfies/fails to satisfy] all requirements of Pub. Util. Code §§ 1801-1812.

ORDER

1. Claimant is awarded $_____.

2. Within 30 days of the effective date of this decision, _____ shall pay Claimant the total award. [for multiple utilities: "Within 30 days of the effective date of this decision, ^, ^, and ^ shall pay Claimant their respective shares of the award, based on their California-jurisdictional [industry type, for example, electric] revenues for the ^ calendar year, to reflect the year in which the proceeding was primarily litigated."] Payment of the award shall include compound interest at the rate earned on prime, three-month non-financial commercial paper as reported in Federal Reserve Statistical Release H.15, beginning [date], the 75th day after the filing of Claimant's request, and continuing until full payment is made.

3. The comment period for today's decision [is/is not] waived.

4. This decision is effective today.

Dated _____, at San Francisco, California.

Attachment 1:
Certificate of Service by Customer

I hereby certify that I have this day served a copy of the foregoing **INTERVENOR COMPENSATION CLAIM OFSIERRA CLUB AND DECISION ON INTERVENOR COMPENSATION CLAIM** by (check as appropriate):

[ ] hand delivery;
[ ] first-class mail; and/or
[X] electronic mail

to the following persons appearing on the official Service List:

Parties

DONALD C. LIDDELL
DOUGLASS & LIDDELL
EMAIL ONLY
EMAIL ONLY, CA 00000
FOR: CALIFORNIA ENERGY STORAGE ALLIANCE / ICE ENERGY, INC. / WALMART STORES, INC & SAM'S WEST, INC.

JEREMY WAEN
REGULATORY ANALYST
MARIN CLEAN ENERGY
EMAIL ONLY
EMAIL ONLY, CA 00000
FOR: MARIN ENERGY AUTHORITY

JOHN W. LESLIE, ESQ.
MCKENNA LONG & ALDRIDGE LLP
EMAIL ONLY
COALITION
EMAIL ONLY, CA 00000
FOR: SHELL ENERGY NORTH AMERICA (US), L.P.
REFORM

KEITH NAKATANI
DIRECTOR
CALIFORNIA HYDROPOWER REFORM

EMAIL ONLY
EMAIL ONLY, CA 00000
FOR: CALIFORNIA HYDROPOWER

COALITION

KELSEY SOUTHERLAND
DIR OF GOV'T RELATIONS
TAS ENERGY
EMAIL ONLY
EMAIL ONLY, TX 00000
FOR: TAS ENERGY

LAURA MANZ
VIRIDITY ENERGY, INC.
EMAIL ONLY
EMAIL ONLY, CA 00000
FOR: VIRIDITY ENERGY, INC.

MARK R. HUFFMAN
ATTORNEY AT LAW
PACIFIC GAS AND ELECTRIC COMPANY
EMAIL ONLY
EMAIL ONLY, CA 00000
FOR: PACIFIC GAS AND ELECTRIC COMPANY

MATTHEW FREEDMAN
THE UTILITY REFORM NETWORK
EMAIL ONLY
EMAIL ONLY, CA 00000
FOR: TURN

STEPHEN LOWE
PRESIDENT AND AGENT
(1365)
EAGLE CREST ENERGY COMPANY
EMAIL ONLY
EMAIL ONLY, CA 00000
FOR: EAGLE CREST ENERGY COMPANY

THOMAS R. DARTON
PILOT POWER GROUP, INC.

EMAIL ONLY
EMAIL ONLY, CA 00000
FOR: PILOT POWER GROUP, INC.

TOM STEPIEN
PRIMUS POWER CORPORATION
EMAIL ONLY
EMAIL ONLY, CA 00000
FOR: PRIMUS POWER CORPORATION

WHITNEY RICHARDSON
CLEAN COALITION
EMAIL ONLY
EMAIL ONLY, CA 00000
FOR: CLEAN COALITION

GENERAL MANAGER
PLUMAS SIERRA RURAL ELECTRIC COOP. (908)
EMAIL ONLY
EMAIL ONLY, CA 00000
FOR: PLUMAS SIERRA RURAL ELECTRIC COOP

LAURA WISLAND
UNION OF CONCERNED SCIENTISTS
EMAIL ONLY
EMAIL ONLY, CA 00000-0000
FOR: UNION OF CONCERNED SCIENTISTS

ERIC HSIEH
A 123 SYSTEMS INC.
155 FLANDERS RD
WESTBOROUGH, MA 01581-1032
FOR: A 123 SYSTEMS

MIKE JACOBS
WINDPOWER
167 PRAIRIE STREET
CONCORD, MA 01742
FOR: WINDPOWER

ANDREW O. KAPLAN, ESQ.
BROWN RUDNICK LLP
ONE FINANCIAL CENTER
400
BOSTON, MA 02111
FOR: BEACON POWER CORP. / ELECTRICITY STORAGE ASSOCIATION (ESA)

RICK C. NOGER
PRAXAIR PLAINFIELD, INC.
2711 CENTERVILLE ROAD, SUITE

WILMINGTON, DE 19808
FOR: PRAXAIR PLAINFIELD, INC.

GLENN BENSON
DAVIS WRIGHT TREMAINE LLP
1919 PENNSYLVANIA AVENUE, N.W.
WASHINGTON, DC 20006-3401
FOR: BROOKFIELD RENEWABLE ENERGY PARTNERS LP

MARK B. LIVELY
UTILITY ECONOMIC ENGINEERS
19012 HIGH POINT DRIVE
GAITHERSBURG, MD 20879
FOR: MARK B. LIVELY

KIM JOHNSON
EVP / AGENT
RIVERBANK PUMPED STORAGE, LLC
2000 S. OCEAN BLVD., STE. 703
DELRAY BEACH, FL 33483
FOR: RIVERBANK PUMPED STORAGE, LLC

LYNN FLOWERS
FLOWERS ENERGY CONSULTING, LLC
4390 W. PINE BLVD.,
ST LOUIS, MO 63108
FOR: SOLAR RESERVE

ERIC OSBORN
CALPINE POWER AMERICA-CA, LLC
REG. AFFAIRS
717 TEXAS AVENUE, STE 100
HOUSTON, TX 77002
FOR: CALPINE POWER AMERICA - CA, LLC

AMANDA BROWN
DIRECTOR - MARKET POLICY &
XTREME POWER INC
1120 GOFORTH RD.
KYLE, TX 78640
FOR: XTREME POWER

KARL F. KUMLI, III
DIETZE AND DAVIS, P.C.
2060 BROADWAY, STE. 400
BOULDER, CO 80302
FOR: LONGVIEW ENERGY EXCHANGE
ASSOCIATION

BRIAN FICKETT
VALLEY ELECTRIC ASSOCIATION
800 E. HWY 372
PAHRUMP, NV 89048
FOR: VALLEY ELECTRIC

JEFFREY A. SERFASS
MANAGING DIRECTOR
CONSULTING
CALIFORNIA HYDROGEN BUSINESS COUNCIL
3438 MERRIMAC ROAD
LOS ANGELES, CA 90049
CONSULTING
FOR: CALIFORNIA HYDROGEN BUSINESS
COUNCIL

MICHAEL MAZUR
3 PHASES ELECTRICAL
2100 SEPULVEDA BLVD., SUITE
37
MANHATTAN BEACH, CA 90266
FOR: 3 PHASES ELECTRICAL

ADAM GREEN
SOLARRESERVE
2425 OLYMPIC BLVD., STE. 500E
SANTA MONICA, CA 90404
FOR: SOLAR RESERVE

INGER GOODMAN
COMMERCE ENERGY, INC.
1 CENTERPOINTE DRIVE, STE.
350
LA PALMA, CA 90623-3630
FOR: COMMERCE ENERGY, INC.

DANIEL W. DOUGLASS
ATTORNEY
DOUGLASS & LIDDELL
21700 OXNARD ST., STE. 1030
WOODLAND HILLS, CA 91367
FOR: WESTERN POWER TRADING FORUM;
EDISON COMPANY
ALLIANCE FOR RETAIL ENERGY MARKETS;
DIRECT ACCESS CUSTOMER COALITION

CATHY A. KARLSTAD
ATTORNEY
SOUTHERN CALIFORNIA EDISON
COMPANY
2244 WALNUT GROVE AVE.
ROSEMEAD, CA 91770
FOR: SOUTHERN CALIFORNIA

RONALD MOORE
SR ANALYST, REGULATORY AFFAIRS
BEAR VALLEY ELECTRIC
630 EAST FOOTHILL BOULEVARD
SAN DIMAS, CA 91773
FOR: GOLDEN STATE WATER COMPANY / BEAR

HAROLD M. ROMANOWITZ, P.E.
CEO
ALTON ENERGY, INC.
4039 ALTON WAY
ESCONDIDO, CA 92025
FOR: ALTON ENERGY, INC.

VALLEY ELECTRIC

KLAUS SCHIESS
KSENGINEERS
8763 CAMINITO SUENO
LA JOLLA, CA 92037
FOR: KSENGINEERS LLC

DANIEL A. KING
SEMPRA U.S. GAS & POWER, LLC
101 ASH STREET, HQ-15B
SAN DIEGO, CA 92101
FOR: SEMPRA U.S. GAS & POWER,

GREG BASS
NOBLE AMERICAS ENERGY SOLUTIONS LLC
401 WEST A STREET, SUITE 500
SAN DIEGO, CA 92101-3017
STE. 102
FOR: SEMPRA ENERGY SOLUTIONS

ERICK C. PETERSEN
V.P.- SALES & MARKETING
DEMAND ENERGY NETWORKS
24001 EAST MISSION AVENUE,

LIBERTY LAKE, WA 92103
FOR: DEMAND ENERGY NETWORKS

ALLEN K. TRIAL
ATTORNEY AT LAW
SAN DIEGO GAS & ELECTRIC COMPANY
101 ASH STREET, HQ-12B
SAN DIEGO, CA 92112
FOR: SAN DIEGO GAS & ELECTRIC COMPANY

HAROLD GOTSCHALL
PRINCIPAL
TECHNOLOGY INSIGHTS
6540 LUSK BLVD., STE. C-106
SAN DIEGO, CA 92121
FOR: NGK INSULATORS, LTD.

GLORIA BRITTON
REGULATORY AFFAIRS MGR.
ANZA ELECTRIC CO-OPERATIVE, INC (909)
PO BOX 39109 / 58470 HIGHWAY 371
ANZA, CA 92539-1909
FOR: ANZA ELECTRIC CO-OPERATIVE, INC.

DOUGLAS AMES
AMES LAW OFFICE
4971 LOS PATOS AVE.
HUNTINGTON BEACH, CA 92649
FOR: TRANSPHASE COMPANY

THOMAS R. MASON
CEO / PRESIDENT
DIR.
GRAVITY POWER, LLC
5735 HOLLISTER AVENUE, STE. B
GOLETA, CA 93117
FOR: GRAVITY POWER LLC
LLC /

ANDREA MORRISON
MARKET DEVELOPMENT REGIONAL

DIRECT ENERGY SERVICES, LLC
415 DIXON STREET
ARROYO GRANDE, CA 93420
FOR: DIRECT ENERGY SERVICES,

DIRECT ENERGY BUSINESS (DEB)

MONA TIERNEY-LLOYD
SR MGR. - WESTERN REG. AFFAIRS
AUTHORITY
ENERNOC, INC.
CONSERV DISTRICT
PO BOX 378
CAYUCOS, CA 93430
FOR: ENERNOC, INC.
AUTHORITY

DAVID ORTH
SAN JOAQUIN VALLEY POWER

ADMIN OFF @KINGS RIVER

4886 EAST JENSEN AVENUE
FRESNO, CA 93725
FOR: SAN JOAQUIN VALLEY POWER

WILLEM FADRHONC
STEM, INC.
100 ROLLINS RD.
MILLBRAE, CA 94030
FOR: STEM, INC.

DAVID MACMILLAN
PRESIDENT
MEGAWATT STORAGE FARMS, INC.
3931 JEFFERSON AVE.
WOODSIDE, CA 94062
FOR: MEGAWATT STORAGE FARMS

MARC D. JOSEPH
ATTORNEY AT LAW
ADAMS BROADWELL JOSEPH & CARDOZO
601 GATEWAY BLVD. STE 1000
SOUTH SAN FRANCISCO, CA 94080
FOR: COALITION OF CALIFORNIA UTILITY EMPLOYEES

SARAH R. THOMAS
CALIF PUBLIC UTILITIES COMMISSION
EXECUTIVE DIVISION
ROOM 5033
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214
FOR: ORA

JEANNE M. SOLE
DEPUTY CITY ATTORNEY
CITY AND COUNTY OF SAN FRANCISCO
CITY HALL, ROOM 234
1 DR. CARLTON B. GOODLETT PLACE
SAN FRANCISCO, CA 94102-4682
FOR: CITY AND COUNTY OF SAN FRANCISCO

NICOLE JOHNSON
STAFF ATTORNEY
CONSUMER FEDERATION OF CALIFORNIA
433 NATOMA ST., STE. 200
SAN FRANCISCO, CA 94103
FOR: CONSUMER FEDERATION OF CALIFORNIA

FELICIA L. BELLOWS
SR. V.P. - DEVELOPMENT
TORRESOL ENERGY
100 MONTGOMERY ST., STE. 2190
SAN FRANCISCO, CA 94104
FOR: TORRESOL ENERGY

NORA SHERIFF
ALCANTAR & KAHL
33 NEW MONTGOMERY ST., STE. 1850
SAN FRANCISCO, CA 94105
FOR: ENERGY PRODUCERS AND USERS COALITION (EPUC)

TIM O'CONNOR
ENVIRONMENTAL DEFENSE FUND
123 MISSION STREET, 28TH FLOOR
SAN FRANCISCO, CA 94105
FOR: ENVIRONMENTAL DEFENSE FUND

BRIAN T. CRAGG
ATTORNEY
GOODIN, MACBRIDE, SQUERI, DAY & LAMPREY
505 SANSOME STREET, SUITE 900
SAN FRANCISCO, CA 94111
FOR: INDEPENDENT ENERGY PRODUCERS ASSOCIATION (IEPA)

JEANNE B. ARMSTRONG
ATTORNEY
GOODIN MACBRIDE SQUERI DAY & LAMPREY LLP
505 SANSOME STREET, SUITE 900
STE. 1120
SAN FRANCISCO, CA 94111

SETH D. HILTON
ATTORNEY AT LAW
STOEL RIVES LLP
THREE EMBARCADERO CENTER,
SAN FRANCISCO, CA 94111

FOR: THE SOLAR ENERGY INDUSTRIES LLC/DUKE ENERGY ASSOCIATION (SEIA)

FOR: AES ENERGY STORAGE CORPORATION

VIDHYA PRABHAKARAN
DAVIS WRIGHT TREMAINE LLP
505 MONTGOMERY STREET, STE. 800
SAN FRANCISCO, CA 94111
FOR: LIBERTY UTILITIES LLC (FORMERLY CALIFORNIA CALPECO)

WILLIAM B. ROSTOV
EARTHJUSTICE
50 CALIFORNIA ST., STE. 500
SAN FRANCISCO, CA 94111
FOR: SIERRA CLUB OF

SARA STECK MYERS
ATTORNEY AT LAW
122 - 28TH AVENUE
161
SAN FRANCISCO, CA 94121
FOR: CENTER FOR ENERGY EFFICIENCY AND RENEWABLE TECHNOLOGIES (CEERT)

RITA M. LIOTTA
FEDERAL EXECUTIVE AGENCIES
1 AVENUE OF THE PALM, SUITE
SAN FRANCISCO, CA 94130
FOR: FEDERAL EXECUTIVE AGENCIES

MATTHEW BARMACK
DIR. - MARKET & REGULATORY ANALYSIS AFFAIRS
CALPINE CORPORATION
4160 CUBLIN BLVD., SUITE 100
DUBLIN, CA 94568
FOR: CALPINE CORPORATION

DAVID SCHLOSBERG
SR. MGR.-REGULATORY & MARKET
BRIGHTSOURCE ENERGY
1999 HARRISON ST., STE. 2150
OAKLAND, CA 94612
FOR: BRIGHTSOURCE ENERGY

ROGER LIN
STAFF ATTORNEY
COMMUNITIES FOR A BETTER ENVIRONMENT
1904 FRANKLIN ST., STE. 600
OAKLAND, CA 94612
FOR: THE CALIFORNIA ENVIRONMENTAL ENERGY COUNCIL
JUSTICE ALLIANCE: (1)ASIAN PACIFIC ENVIRONMENTAL NETWORK, (2)THE CENTER FOR COMMUNITY ACTION AND ENVIRONMENTAL JUSTICE, (3)CENTER ON RACE, POVERTY & THE ENVIRONMENT, (4)COMMUNITIES FOR A BETTER ENVIRONMENT, (5)ENVIRONMENTAL HEALTH COALITION, (6)PEOPLE ORGANIZING TO DEMAND ENVIRONMENT AND ECONOMIC JUSTICE

TIM LINDL
COUNSEL
KEYES FOX & WIEDMAN LLP
436 14TH STREET, STE. 1305
OAKLAND, CA 94612
FOR: INTERSTATE RENEWABLE

DAMON MOGLEN
FRIENDS OF THE EARTH
DAVID BROWER CENTER
2150 ALLSTON WAY, SUITE 240
BERKELEY, CA 94704
FOR: FRIENDS OF THE EARTH

GREGG MORRIS
GREEN POWER INSTITUTE
2039 SHATTUCK AVE., SUTE. 402
BERKELEY, CA 94704
FOR: GREEN POWER INSTITUTE

R. THOMAS BEACH
CONSULTANT
GROUP
CROSSBORDER ENERGY
E
2560 NINTH STREET, SUITE 213A
BERKELEY, CA 94710
LEADERSHIP GROUP
FOR: THE CALIFORNIA WIND ENERGY
ASSOCIATION

TIM MCRAE
SILICON VALLEY LEADERSHIP
2001 GATEWAY PLACE, STE. 101
SAN JOSE, CA 95110
FOR: SILICON VALLEY

JON FORTUNE
DIR. - REG. & ENERGY SERVICES
SUNVERGE ENERGY, INC.
6665 HARDAWAY ROAD
STOCKTON, CA 95215
FOR: SUNVERGE ENERGY, INC.

DAVID KATES
DAVID MARK & COMPANY
3510 UNOCAL PLACE, SUITE 200
SANTA ROSA, CA 95403
FOR: THE NEVADA HYDRO COMPANY

DOUGLAS K. KERNER
ATTORNEY AT LAW
LLP
ELLISON, SCHNEIDER & HARRIS, LLP
400
2600 CAPITOL AVENUE, SUITE 400
SACRAMENTO, CA 95816-5905
PACIFIC POWER
FOR: WELLHEAD ELECTRIC COMPANY, INC.

C/O ANDY BROWN
ELLISON, SCHNEIDER & HARRIS,
2600 CAPITAL AVENUE, SUITE
SACRAMENTO, CA 95816-5931
FOR: NV ENERGY / SIERRA
COMPANY

RACHEL GOLD
LARGE-SCALE SOLAR ASSOCIATION
2501 PORTOLA WAY
CORP.
SACRAMENTO, CA 95818
FOR: LARGE-SCALE SOLAR ASSOCIATION

DANIEL SILVERIA
GEN MGR
SURPRISE VALLEY ELECTRIC
516 US HIGHWAY 395 E
ALTURAS, CA 96101-4228
FOR: SURPRISE VALLEY ELECTRIC
CORPORATION

JACK ELLIS
1425 ALPINE WAY / PO BOX 6600
AFFAIRS
TAHOE CITY, CA 96145-6600
FOR: JACK ELLIS

VIRINDER SINGH
DIR. - REG. & LEGISLATIVE.
EDF RENEWABLE ENERGY, INC.
517 SW 4TH AVE., STE. 300
PORTLAND, OR 97212
FOR: EDF RENEWABLE ENERGY,
INC.

TOM MELLING
V.P. OPERATIONS
TRANSMISSION
1ENERGY SYSTEMS, INC.

CRAIG COLLAR
SR. MGR. OF POWER, RATES &
P.U.D. NO. 1 OF SNOHOMISH

COUNTY
811 FIRST AVENUE, STE. 263
SEATTLE, WA 98104
FOR: 1ENERGY SYSTEMS, INC.
NO. 1 OF

2320 CALIFORNIA STREET
EVERETT, WA 98201
FOR: PUBLIC UTILITY DISTRICT

SNOHOMISH COUNTY

ANDY GASSNER
SENIOR ANALYST
ENBALA POWER NETWORKS
930 WEST 1ST ST., NO. 211
NORTH VANCOUVER, BC V7P 3N4
CANADA
FOR: ENBALA POWER NETWORKS

Information Only

MARY C. HEMMINGSEN
BROOKFIELD RENEWABLE POWER, INC.
EMAIL ONLY
EMAIL ONLY, BC 000 000
CANADA

ALLEN FREIFELD
VIRIDITY ENERY, INC.
EMAIL ONLY
EMAIL ONLY, CA 00000

ARMANDO INFANZON
SMART GRID POLICY MANAGER
SAN DIEGO GAS & ELECTRIC COMPANY
EMAIL ONLY
EMAIL ONLY, CA 00000

BHUPEN MEHTA
MEHTA ASSOCIATES
EMAIL ONLY
EMAIL ONLY, CA 00000

BRAD MEIKLE
SOVEREIGN ENERGY, LLC
EMAIL ONL Y
EMAIL ONLY, CA 00000

CARLOS LAMAS-BABBINI
PROGRAM MGR.
COMVERGE, INC.
EMAIL ONLY
EMAIL ONLY, CA 00000

CASE COORDINATION
PACIFIC GAS AND ELECTRIC COMPANY
EMAIL ONLY
EMAIL ONLY, CA 00000

CATHIE ALLEN
REGULATORY MGR.
PACIFICORP
EMAIL ONLY
EMAIL ONLY, OR 00000

DAVID NEMTZOW
NEMTZOW & ASSOCIATES
AFFAIRS
EMAIL ONLY
EMAIL ONLY, CA 00000

DIANE I. FELLMAN
DIR - REGULATORY & GOV'T

NRG WEST & SOLAR
EMAIL ONLY
EMAIL ONLY, CA 00000

DREW ADAMS
VIRIDITY ENERGY
EMAIL ONLY
EMAIL ONLY, CA 00000

DYANA MARIE DELFIN-POLK
POLICY MANAGER
CLEAN COALITION
EMAIL ONLY
EMAIL ONLY, CA 00000

ELIZABETH KELLY
LEGAL DIRECTOR
ECONOMICS
MARIN CLEAN ENERGY
EMAIL ONLY
EMAIL ONLY, CA 00000

ERIC CUTTER
ENERGY AND ENVIRONMENTAL

EMAIL ONLY
EMAIL OINLY, CA 00000

ERIN GRIZARD
BLOOM ENERGY, INC.
COMPANY
EMAIL ONLY
EMAIL ONLY, CA 00000

EVELYN LEE
PACIFIC GAS & ELECTRIC

EMAIL ONLY
EMAIL ONLY, CA 00000

GREGORY S.G. KLATT
DOUGLASS & LIDDELL
EMAIL ONLY
EMAIL ONLY, CA 00000

JAN MCFARLAND
SONIC
EMAIL ONLY
EMAIL O NLY, CA 00000

JANA KOPYCIOK
ENERGY SOLUTIONS
EMAIL ONLY
EMAIL ONLY, CA 00000

JANICE LIN
MANAGING PARTNER
STRATEGEN CONSULTING LLC
EMAIL ONLY
EMAIL ONLY, CA 00000

JOHN M. SPILMAN
GRIDFLEX ENERGY, LLC
EMAIL ONLY
EMAIL ONLY, CA 00000

JONNA ANDERSON
VIRIDITY ENERGY
EMAIL ONLY
EMAIL ONLY, CA 00000

KATY ROSENBERG
ALCANTAR & KAHL
EMAIL ONLY
EMAIL ONLY, CA 00000

KENNETH SAHM WHITE
CLEAN COALITION
EMAIL ONLY
EMAIL ONLY, CA 00000

LON W. HOUSE, PH.D
WATER AND ENERGY CONSULTING (WEC)
EMAIL ONLY
GROUP
EMAIL ONLY, CA 00000

MARGARET MILLER
DIR OF REGULATORY AFFAIRS
BROOKFIELD RENEWABLE ENERGY

EMAIL ONLY
EMAIL ONLY, CA 00000

MICHAEL STELTS
PANASONIC

NATE SANDVIG
SITE DEVELOPER

EMAIL ONLY
NOUVELLES CO.
EMAIL ONLY, CA 00000

ENXCO - AN EDF ENERGIES
EMAIL ONLY
EMAIL ONLY, OR 00000

NELLIE TONG
SENIOR CONSULTANT
DNV KEMA ENERGY & SUSTAINABILITY
EMAIL ONLY
EMAIL ONLY, CA 00000

NINA SUETAKE
STAFF ATTORNEY
THE UTILITY REFORM NETWORK
EMAIL ONLY
EMAIL ONLY, CA 00000

NOAH DAVIDSON
RENEWABLE ANALYTICS, LLC
EMAIL ONLY
EMAIL ONLY, CA 00000

PHILIP L. CARSON
ENERGY CENTRAL
EMAIL ONLY
EMAIL ONLY, CO 00000

PRAMOD KULKARNI
EMAIL ONLY
EMAIL ONLY, CA 00000

RACHEL GOLD
POLICY DIR
CONSCIOUS VENTURES GROUP
EMAIL ONLY
EMAIL ONLY, CA 00000

REID SPOLEK
BERKELEY ENERGY SCIENCES CORPORATION
EMAIL ONLY
EMAIL ONLY, CA 00000

RICHARD S. FLOOD
JOHNSON CONTROLS, INC.
EMAIL ONLY
EMAIL ONLY, CA 00000

SCOTT BLAISING
ATTORNEY
BRAUN BLAISING MCLAUGHLIN, P.C.
EMAIL ONLY
EMAIL ONLY, CA 00000

SEAN BEATTY
NRG WEST
EMAIL ONLY
EMAIL ONLY, CA 00000

SEPHRA A. NINOW, J.D.
REGULATORY AFFAIRS MGR.
CALIFORNIA CENTER FOR SUSTAINABLE ENERGY
EMAIL ONLY
EMAIL ONLY, CA 00000

SHALINI SWAROOP
REGULATORY COUNSEL
MARIN CLEAN ENERGY
EMAIL ONLY
EMAIL ONLY, CA 00000

SHANNON EDDY
LARGE-SCALE SOLAR ASSOCIATION
EMAIL ONLY
EMAIL ONLY, CA 00000

STANLEY HA
NEXCON TECHNOLOGY, LLC
EMAIL ONLY
EMAIL ONLY, CA 00000

STEPHANIE WANG
DIRECTOR
CLEAN COALITION
EMAIL ONLY
EMAIL ONLY, CA 00000

STEPHEN G. DAVIS
KNGRID
EMAIL ONLY
EMAIL ONLY, CA 00000

STEVE ZURETTI
MANAGER, CALIFORNIA
SOLAR ENERGY INDUSTRIES ASSOCIATION
COMPANY
EMAIL ONLY
EMAIL ONLY, CA 00000

SUJATA PAGEDAR
ENERGY
PACIFIC GAS AND ELETRIC
EMAIL ONLY
EMAIL ONLY, CA 00000

THADEUS B. CULLEY
KEYES FOX & WIEDMAN LLP
EMAIL ONLY
EMAIL ONLY, CA 00000

TIMOTHY TUTT
SACRAMENTO MUNICIPAL UTILITY DISTRICT
EMAIL ONLY
EMAIL ONLY, CA 00000

TOM SMOLAREK
CYPRESS LTD
EMAIL ONLY
EMAIL ONLY, CA 00000

WILLIAM J. KEESE
EMAIL ONLY
EMAIL ONLY, CA 00000

DAVIS WRIGHT TREMAINE LLP
EMAIL ONLY
EMAIL ONLY, CA 00000

MRW & ASSOCIATES, LLC
EMAIL ONLY
EMAIL ONLY, CA 00000

MICHELLE GRANT
DYNEGY, INC.
EMAIL ONLY
EMAIL ONLY, TX 00000-0000

SHERIDAN J. PAUKER
WILSON SONSINI GOODRICH & ROSATI
EMAIL ONLY
EMAIL ONLY, CA 00000-0000

TAM HUNT
COMMUNITY RENEWABLES SOLUTIONS, LLC
EMAIL ONLY
EMAIL ONLY, CA 00000-0000

STEVEN ECKERT
BROOKFIELD RENEWABLE POWER, INC.
200 DONALD LYNCH BLVD.
MALBOROUGH, MA 01752

JUDITH JUDSON-MCQUEENEY
DIR. - EMERGING TECHNOLOGIES U.S.
CUSTOMIZED ENERGY SOLUTIONS
933 GREAT POND ROAD
NORTH ANDOVER, MA 01845

ANN YU
BEACON POWER, LLC
65 MIDDLESEX ROAD
TYNGSBORO, MA 01879

MIKE BERLINSKI
BEACON POWER, LLC
65 MIDDLESEX ROAD
TYNGSBORO, MA 01879

ALI AMIRALI
SVP
STARWOOD ENERGY GROUP, LLC
591 W. PUTNAM AVENUE
GREENWICH, CT 06830

ANDREW GAY

STEVEN HUHMAN

CARLSON CAPITAL L.P.
712 FIFTH AVE., 25 TH FLOOR
NEW YORK, NY 10019

MORGAN STANLEY CAPITAL GROUP INC.
2000 WESTCHESTER AVENUE
PURCHASE, NY 10577

S. DAVID FREEMAN
C/O FRIENDS OF THE EARTH OFFICE
1100 15TH STREET, NW, 11TH FLOOR
WASHINGTON, DC 20005

KAY DAVOODI
ACQ-UTILITY RATES AND STUDIES
NAVAL FACILITIES ENGINEERING COMMAND
1322 PATTERSON AVE, SE - BLDG 33
WASHINGTON, DC 20374-5018

LARRY R. ALLEN
NAVY ACQ-UTILITY RATES & STUDIES OFFICE
1322 PATTERSON AVENUE SE-BLDG. 33
WASHINGTON NAVY YARD, DC 20374-5018

MELISSA PATRA MARTIN
SENIOR REGULATORY COUNSEL
STATESIDE ASSOCIATES
2300 CLARENDON BLVD., STE. 407
ARLINGTON, VA 22201

PRAVEEN H. KATHPAL
AES ENERGY STORAGE, LLC
4300 WILSON BLVD., STE. 1100
ARLINGTON, VA 22203

BILL CAPP
FOUNDER
GRID STORAGE CONSULTING, LLC
50 S US HWY 1, SUITE 301
JUPITER, FL 33477

TONY SIEBERT
ZBB ENERGY CORPORATION
N93 W14475 WHITTAKER WAY
MENOMONEE FALLS, WI 53051

STACY KINCAID
MAKERS CAPITAL CORPORATION
9601 WILSHIRE BLVD., STE. 1132
BEVERLY HILLS, CA 60210

RYAN O'KEEFE
VP - MARKETING
XTREME POWER
111 CONGRESS AVE., STE. 700
AUSTIN, TX 78701

NEIL O DONOVAN
DEVELOPMENT DIR.
LINCOLN RENEWABLE ENERGY, LLC
1675 LARIMER STREET
DENVER, CO 80202

MARK D. DETSKY
DIETZE AND DAVIS, P.C.
2060 BROADWAY, STE. 400
BOULDER, CA 80302

TERRY ANDREWS
CALMAC MANUFACTURING CORPORATION
40191 N. 110TH PLACE
SCOTTSDALE, AZ 85262

JOHN R. BRYAN
CODA ENERGY
2340 S. FAIRFAX. AVE.
LOS ANGELES, CA 90016

MATT K. SLOUSTCHER
CODA ENERGY
2340 S. FAIRFAX AVE.
LOS ANGELES, CA 90016

MAYA GOLDEN-KRASNER
COMMUNITIES FOR A BETTER ENVIRONMENT
6325 PACIFIC BLVD., STE. 300
HUNTINGTON PARK, CA 90255

HARVEY EDER
PUBLIC SOLAR POWER COALITION
1218 12TH ST., NO. 25
SANTA MONICA, CA 90401

J. DOUGLAS DIVINE
CEO
EAGLE CREST ENERGY COMPANY
CORPORATION
3000 OCEAN PARK BLVD., SUITE 1020
SANTA MONICA, CA 90405

PAUL W. D'ARCY
SENIOR VICE PRESIDENT
SANYO NORTH AMERICA

4292 ENSENADA DRIVE
WOODLAND HILLS, CA 91364

CASE ADMINISTRATION
SOUTHERN CALIFORNIA EDISON COMPANY
2244 WALNUT GROVE AVE. / PO BOX 800
ROSEMEAD, CA 91770

NANCY ALLRED
ATTORNEY
SOUTHERN CALIFORNIA EDISON COMPANY
2244 WALNUT GROVE AVE.
ROSEMEAD, CA 91770

JONATHAN WORD
ALTON ENERGY
237 ROSEBAY DR.
ENCINITAS, CA 92024

WILLIAM V. TORRE
UNIVERSITY OF CALIFORNIA-SAN DIEGO
9500 GILLMAN DRIVE, STE. 0417
LA JOLLA, CA 92093-0417

CHRISTOPHER SUMMERS
REGULATORY AFFAIRS
SAN DIEGO GAS & ELECTRIC COMPANY
8330 CENTURY PARK COURT
SAN DIEGO, CA 92101

SHAWN S. BAILEY
SEMPRA U.S. GAS & POWER, LLC
101 ASH STREET, HQ-15B
SAN DIEGO, CA 92101

ART NEILL
ATTORNEY AT LAW
UTILITY CONSUMERS' ACTION NETWORK (US), L.P.
3405 KENYON STREET, STE. 401
SAN DIEGO, CA 92110

MARCIE A. MILNER
VP - REG AFFAIRS
SHELL ENERGY NORTH AMERICA
4445 EASTGATE MALL, STE. 100
SAN DIEGO, CA 92121

JOHN S. FRIDERICHS
DIRECTOR - ORIGINATION & DEVELOPMENT
PILOT POWER GROUP, INC.
8910 UNIVERSITY CENTER LANE, STE. 520
SAN DIEGO, CA 92122

MICHELLE MIDDLETON, JD
IN-HOUSE COUNSEL
PILOT POWER GROUP, INC./EMDS, LLC
8910 UNIVERSITY CENTER LANE, SUITE 520
SAN DIEGO, CA 92122

CECILIA AGUILLON
DIR.-MARKETING & GOV'T RELATIONS
COMPANY

CENTRAL FILES
SAN DIEGO GAS AND ELECTRIC

KYOCERA SOLAR, INC.
CP31-E
8611 BALBOA AVENUE
SAN DIEGO, CA 92123

8330 CENTURY PARK COURT,

SAN DIEGO, CA 92123

HANNON RASOOL
ADMIN. - CALIF. REGULATORY AFFAIRS
COMPANY
SAN DIEGO GAS & ELECTRIC COMPANY
CP21D
8330 CENTURY PARK CT. CP32D
SAN DIEGO, CA 92123

THOMAS C. SAILE
SAN DIEGO GAS & ELECTRIC

8315 CENTURY PARK COURT,

SAN DIEGO, CA 92123-1548

DOUGLAS HACKLEY
CALENERGY
7030 GENTRY ROAD
CALIPATRIA, CA 92233

CATHERINE SULLIVAN
EZ2BGREEN
27479 VIA RAMONA
SAN JUAN CAPISTRANO, CA 92675

CHRISTOPHER GRIECO
EXECUTIVE V.P.
GRAVITY POWER, LLC
5735 HOLLISTER AVENUE, STE. B
GOLETA, CA 93117

RON DICKERSON
CALIFORNIA CONSUMERS ALLIANCE
PO BOX 3751
CLOVIS, CA 93613

EVELYN KAHL
ALCANTAR & KAHL, LLP
33 NEW MONTGOMERY STREET, SUITE 1850
SAN FRANCISCO, CA 94015

SIDART DEB
VP - TECHNOLOGY
LCG CONSULTING
4962 EL CAMINO REAL, STE. 112
LOS ALTOS, CA 94022

STACEY REINECCIUS
POWERGETICS INC.
100 ROLLINS RD
MILLBRAE, CA 94030-3115

SUE MARA
PRINCIPAL
RTO ADVISORS, LLC
164 SPRINGDALE WAY
REDWOOD CITY, CA 94062
FOR: ALLIANCE FOR RETAIL ENERGY MARKETS

JAMIE MAULDIN
ADAMS BROADWELL JOSEPH & CARDOZO, PC
601 GATEWAY BLVD., STE. 1000
SOUTH SAN FRANCISCO, CA 94080
FOR: COALITION OF CALIF. UTILITY EMPLOYEES

BRET ADAMS
ENERVAULT
1244 REAMWOOD AVENUE
SUNNYVALE, CA 94089

DULCE GONZALEZ
SENER ENGINEERING AND SYSTEMS, INC.
100 MONTGOMERY STREET, STE. 2190

ERIC CUTTER
ENERGY AND ENVIRONMENTAL ECONOMIC

101 MONTGOMERY STREET, SUITE

1600
SAN FRANCISCO, CA 94104

SAN FRANCISCO, CA 94104

DAIDIPYA PATWA
PACIFIC GAS AND ELECTRIC COMPANY
77 BEALE STREET, MC B25J
SUITE 1850
SAN FRANCISCO, CA 94105

KAREN TERRANOVA
ALCANTAR & KAHL
33 NEW MONTGOMERY STREET,
SAN FRANCISCO, CA 94105

LUCY FUKUI
PACIFIC GAS AND ELECTRIC COMPANY
77 BEALE ST., ROOM 1037 (B10B)
SAN FRANCISCO, CA 94105

MATTHEW VESPA
SR ATTORNEY
SIERRA CLUB
85 SECOND ST,, 2ND FL
SAN FRANCISCO, CA 94105

STEVE HAERTLE
PACIFIC GAS AND ELECTRIC COMPANY
77 BEALE STREET, MC B9A
COMPANY
SAN FRANCISCO, CA 94105

WADE GREENACRE
REGULATORY CASE COORDINATOR
PACIFIC GAS AND ELECTRIC
77 BEALE ST., MC B9A
SAN FRANCISCO, CA 94105

DEBORAH N. BEHLES
ENVIRONMENTAL LAW AND JUSTICE CLINIC
GOLDEN GATE UNIVERSITY SCHOOL OF LAW
536 MISSION STREET
SAN FRANCISCO, CA 94105-2968

ALAN WALTNER
LAW OFFICES OF ALAN WALTNER
779 DOLORES STREET
SAN FRANCISCO, CA 94110

BRIAN ORION
LAWYERS FOR CLEAN ENERGY
1156 FLORIDA STREET
SAN FRANCISCO, CA 94110

ADENIKE ADEYEYE
EARTHJUSTICE
50 CALIFORNIA ST., STE. 500
SAN FRANCISCO, CA 94111

MEGAN SOMOGYI
ATTORNEY
GOODIN, MACBRIDE, SQUERI, DAY & LAMPREY
505 SANSOME ST., STE. 900
SAN FRANCISCO, CA 94111

MONICA A. SCHWEBS
BINGHAM MCCUTCHEN LLP
THREE EMBARCADERO CENTER
SAN FRANCISCO, CA 94111

NIDHI J. THAKAR
PERKINS COIE LLP
FOUR EMBARCADERO CENTER, STE. 2400
500
SAN FRANCISCO, CA 94111
FOR: PUBLIC UTILITY DISTRICT NO. 1 OF
SNOHOMISH COUNTY

ROSICELI VILLARREAL
EARTHJUSTICE
50 CALIFORNIA STREET, SUITE
SAN FRANCISCO, CA 94111

FLORIAN SCHUBERT
RENEWABLE ANALYTICS, LLC

IRENE K. MOOSEN
ATTORNEY AT LAW

3 EMBARCADERO CENTER, STE. 2360
SAN FRANCISCO, CA 94111-4026

LAW OFFICE OF IRENE K. MOOSEN
53 SANTA YNEZ AVENUE
SAN FRANCISCO, CA 94112

HILLARY CORRIGAN
CALIFORNIA ENERGY MARKETS
425 DIVISADERO STREET, SUITE 303
SAN FRANCISCO, CA 94117

YARON GLAZER
VOLTMETRIX
400 DUBOCE AVENUE, NO. 115
SAN FRANCISCO, CA 94117

MEGAN M. MYERS
LAW OFFICES OF SARA STECK MYERS
122 - 28TH AVENUE
SAN FRANCISCO, CA 94121

DAN PATRY
MANAGER OF POLICY INITIATIVES
RECURRENT ENERGY
300 CALIFORNIA STREET, 8TH FLOOR
SAN FRANCISCO, CA 94123

JOHN M. CUMMINS
FEDERAL EXECUTIVE AGENCIES
COMPANY
1 AVENUE OF THE PALMS, SUITE 161
SAN FRANCISCO, CA 94130

BRIAN CHERRY
PACIFIC GAS AND ELECTRIC
PO BOX 770000, B10C
SAN FRANCISCO, CA 94177

CHRISTOPHER SMITH
PACIFIC GAS & ELECTRIC COMPANY
COMPANY
PO BOX 770000
SAN FRANCISCO, CA 94177

EILEEN COTRONEO
PACIFIC GAS AND ELECTRIC
PO BOX 770000, MC B9A
SAN FRANCISCO, CA 94177

MATTHEW GONZALES
PACIFIC GAS & ELECTRIC COMPANY
DEVELOPMENT
PO BOX 770000/MAIL CODE B9A
SAN FRANCISCO, CA 94177

ERICA HE
MANAGER - NEW BUSINESS
SUMITOMO ELECTRIC INDUSTRIES
2355 ZANKER ROAD
SAN OSE, CA 94303

ANDY SCHWARTZ
SOLARCITY
3055 CLEARVIEW WAY
SAN MATEO, CA 94402

DANIEL CHIA
DEPUTY DIR. - GOV'T AFFAIRS
SOLARCITY
3055 CLEARVIEW WAY
SAN MATEO, CA 94402

CHRIS KING
CHIEF REGULATORY OFFICER
EMETER CORPORATION
375
4000 E. 3RD AVE., STE 400
FOSTER CITY, CA 94404-4827

FARSHID ARMAN
SIEMENS TTB
1995 UNIVERSITY AVE., STE.
BERKELEY, CA 94549

AVIS KOWALEWSKI

ROBERT W. ANDERSON

VP - GOV'T & REGULATORY AFFAIRS
CALPINE CORPORATION
100
4160 DUBLIN BLVD, SUITE 100
DUBLIN, CA 94568

OLIVINE, INC.
2010 CROW CANYON PLACE, STE.

SAN RAMON, CA 94583

DAVID MILLER
651 FAIRMONT AVE.
OAKLAND, CA 94611

MIKHAIL HARAMATI
ASSOCIATE
OPINION DYNAMICS CORPORATION
1999 HARRISON ST., STE. 1420
OAKLAND, CA 94612

ALEX GHENIS
STRATEGEN CONSULTING
2150 ALLSTON WAY
BERKELEY, CA 94704

ANDY KATZ
SIERRA CLUB CALIFORNIA
2150 ALLSTON WAY, STE. 400
BERKELEY, CA 94704

ERIC G. GIMON
TECHNICAL CONSULTANT
ANALYST
THE VOTE SOLAR INITIATIVE
2727 MARIN AVE.
BERKELEY, CA 94708

M. TRAVIS O'GUIN
SR. BUSINESS DEVELOPMENT

LIGHTSAIL ENERGY
914 HEINZ AVENUE
BERKELEY, CA 94710

NANCY RADER
EXECUTIVE DIRECTOR
LABORATORY
CALIFORNIA WIND ENERGY ASSOCIATION
2560 NINTH STREET, SUITE 213A
BERKELEY, CA 94710

ARMANDO VIRAMONTES
LAWRENCE BERKELEY NATIONAL

1 CYCLOTRON RD., MS 65, BLDG
65, RM 102
BERKELEY, CA 94720

JULIETTE ANTHONY
678 BLACKBERRY LANE
SAN RAFAEL, CA 94903

SARAH KEANE
BINGHAM MCCUTCHEN LLP
3 EMBARCADERO CENTER
SAN FRANCISCO, CA 94960

WILLIAM (BILL) KISSINGER
BINGHAM MCCUTCHEN LLP
RESEARCHER
3 EMBARCADERO CENTER
SAN FRANCISCO, CA 94960

SEAN KAGIYAMA
POLICY AND INDUSTRIAL

NEDO
3945 FREEDOM CIRCLE, STE. 790
SANTA CLARA, CA 95054

PAUL STITH
SUM / PROJECT GREEN ONRAMP
5610 SCOTTS VALLEY DRIVE, NO. 454
NO. 141
SCOTTS VALLEY, CA 95066

C. SUSIE BERLIN
LAW OFFICES OF SUSIE BERLIN
1346 THE ALAMEDA, SUITE 7,

SAN JOSE, CA 95126

MARTIN CABALLERO
MODESTO IRRIGATION DISTRICT
PO BOX 4060
MODESTO, CA 95352

JOY A. WARREN
MODESTO IRRIGATION DISTRICT
1231 11TH STREET
MODESTO, CA 95354

DOUG GRANDY
CALIFORNIA ONSITE GENERATION
AFFAIRS - CA
1220 MACAULAY CIR.
CARMICHAEL, CA 95608

JACQUELINE M. DEROSA
DIRECTOR OF REGULATORY
CUSTOMIZED ENERGY SOLUTIONS
101 PARKSHORE DRIVE SUITE 100
FOLSOM, CA 95630

JUDITH B. SANDERS
SR. COUNSEL
OPERATOR
CALIF. INDEPENDENT SYSTEM OPERATOR CORP
250 OUTCROPPING WAY
FOLSOM, CA 95630

PETER KLAUER
CALIFORNIA INDEPENDENT SYSTEM
250 OUTCROPPING WAY
FOLSOM, CA 95630

CALIFORNIA ISO
250 OUTCROPPING WAY
FOLSOM, CA 95630

BRIAN THEAKER
NRG ENERGY
3161 KEN DEREK LANE
PLACERVILLE, CA 95667

PAUL D. MAXWELL
NAVIGANT CONSULTING, INC.
3100 ZINFANDEL DRIVE, SUITE 600
RANCHO CORDOVA, CA 95670-6078

FRANCIS TAYLOR
ENERSYS, INC.
3417 RABEN WAY
CAMERON PARK, CA 95682

DAVID HAWKINS
DNV KEMA
7447 GRASSY CREEK WAY
EL DORADO HILLS, CA 95762

DOUGLAS E. DAVIE
V.P.
WELLHEAD ELECTRIC COMPANY, INC.
650 BERCUT DRIVE, STE. C
SACRAMENTO, CA 95811

ALLISON C. SMITH
ATTORNEY
STOEL RIVES LLP
500 CAPITOL MALL, SUITE 1600
SACRAMENTO, CA 95814

AMBER RIESENHUBER
POLICY ANALYST
INDEPENDENT ENERGY PRODUCERS ASSOCIATION
1215 K STREET, STE. 900
SACRAMENTO, CA 95814

JOHN SHEARS
CEERT
1100 11TH STREET, SUITE 311
SACRAMENTO, CA 95814

KEVIN WOODRUFF
WOODRUFF EXPERT SERVICES
1100 K STREET, SUITE 204
SACRAMENTO, CA 95814

STEVEN KELLY
POLICY DIRECTOR
INDEPENDENT ENERGY PRODUCERS ASSCIATION
1215 K STREET, STE. 900
SACRAMENTO, CA 95814

TANYA DERIVI
SO. CALIFORNIA PUBLIC POWER AUTHORITY
915 L STREET, STE. 1410
SACRAMENTO, CA 95814

RONALD LIEBERT
ATTORNEY AT LAW
ELLISON SCHNEIDER & HARRIS LLP
2600 CAPITOL AVENUE, STE. 400
SACRAMENTO, CA 95816

LYNN HAUG
ELLISON, SCHNEIDER & HARRIS L.L.P.
2600 CAPITOL AVENUE, SUITE 400
SACRAMENTO, CA 95816-5931

KEVIN SNYDER
HDR/DTA
2379 GATEWAY OAKS DRIVE, STE. 200
SUITE 205
SACRAMENTO, CA 95833

ANN L. TROWBRIDGE
DAY CARTER & MURPHY LLP
3620 AMERICAN RIVER DRIVE,
SACRAMENTO, CA 95864

ELIZABETH W. HADLEY
LLC(FORMERLY CALPECO)
RESOURCE PLANNER
REDDING ELECTRIC UTILITY
777 CYPRESS AVENUE
REDDING, CA 96001

LIBERTY UTILITIES
933 ELOISE AVENUE
SOUTH LAKE TAHOE, CA 96150

WILLIAM H. HOLMES
STOEL RIVES LLP
900 SW FIFTH AVENUE, SUITE 2600
PORTLAND, OR 97204

MARY WIENCKE
PACIFICORP
825 N. E. MULTNOMAH, SUITE 1800
PORTLAND, OR 97232

JIM HICKS
OREGON PUBLIC UTILITIES COMMISSION
PO BOX 2148
SALEM, OR 97308-2148

PAMELA J. ANDERSON
PERKINS COIE LLP
THE PSE BUILDING
10885 N.E. FOURTH STREET, STE. 700
BELLEVUE, WA 98004-5579
FOR: PUBLIC UTILITY DISTRICT NO. 1 OF SNOHOMISH COUNTY

ANNE L. SPANGLER
GENERAL COUNSEL
P.U.D. NO. 1 OF SNOHOMISH COUNTY
2320 CALIFORNIA STREET
EVERETT, WA 98201

SHAUN LOGUE
BROOKFIELD ENERGY MARKETING, INC.
480 BLVD. DE LA CITE
GATINEAU, PQ J8T 8R3
CANADA

State Service

MERIDETH STERKEL
CALIFORNIA PUBLIC UTILITIES COMMISSION
COMMISSION
EMAIL ONLY
EMAIL ONLY, CA 00000

ALAN WECKER
CALIF PUBLIC UTILITIES
ELECTRICITY PLANNING & POLICY BRANCH
ROOM 4102
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

ALOKE GUPTA
CALIF PUBLIC UTILITIES COMMISSION
COMMISSION
INFRASTRUCTURE PLANNING AND PERMITTING B
AREA 4-A
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

AMY C. YIP-KIKUGAWA
CALIF PUBLIC UTILITIES
DIVISION OF ADMINISTRATIVE LAW JUDGES
ROOM 5024
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

ARTHUR J. O'DONNELL
CALIF PUBLIC UTILITIES COMMISSION
COMMISSION
INFRASTRUCTURE PLANNING AND PERMITTING B
ROOM 4-A
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

AUDREY LEE
CALIF PUBLIC UTILITIES
EXECUTIVE DIVISION
ROOM 5307
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

CHLOE LUKINS
CALIF PUBLIC UTILITIES COMMISSION
COMMISSION
ELECTRICITY PLANNING & POLICY BRANCH
ROOM 4102
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

CHRISTOPHER R VILLARREAL
CALIF PUBLIC UTILITIES
POLICY & PLANNING DIVISION
ROOM 5119
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

COLETTE KERSTEN
CALIF PUBLIC UTILITIES COMMISSION
COMMISSION
EXECUTIVE DIVISION
CUSTOMER PROGRAM
ROOM 5101
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

DAVID PECK
CALIF PUBLIC UTILITIES
ELECTRICITY PRICING AND
ROOM 4108
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

DEVLA SINGH
CALIF PUBLIC UTILITIES COMMISSION
COMMISSION
POLICY & PLANNING DIVISION

ELIZAVETA I. MALASHENKO
CALIF PUBLIC UTILITIES
SAFETY AND ENFORCEMENT

DIVISION
ROOM 5119
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

ROOM 455
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

FARZAD GHAZZAGH
CALIF PUBLIC UTILITIES COMMISSION
COMMISSION
ELECTRICITY PLANNING & POLICY BRANCH
OVERSIGHT BRANC
ROOM 4102
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

JASON SIMON
CALIF PUBLIC UTILITIES
PROCUREMENT STRATEGY AND
AREA 4-A
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

JENNIFER KALAFUT
CALIF PUBLIC UTILITIES COMMISSION
COMMISSION
EXECUTIVE DIVISION
ROOM 5303
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

JULIE A. FITCH
CALIF PUBLIC UTILITIES
EXECUTIVE DIVISION
ROOM 5214
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

KARIN M. HIETA
CALIF PUBLIC UTILITIES COMMISSION
COMMISSION
ELECTRICITY PLANNING & POLICY BRANCH
PERMITTING B
ROOM 4102
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

KEITH D WHITE
CALIF PUBLIC UTILITIES
INFRASTRUCTURE PLANNING AND
AREA 4-A
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

LISA-MARIE SALVACION
CALIF PUBLIC UTILITIES COMMISSION
COMMISSION
LEGAL DIVISION
ROOM 5029
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214
FOR: ORA

MELICIA CHARLES
CALIF PUBLIC UTILITIES
EXECUTIVE DIVISION
ROOM 5212
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

PAUL DOUGLAS
CALIF PUBLIC UTILITIES COMMISSION
COMMISSION
PROCUREMENT STRATEGY AND OVERSIGHT BRANC
ENFORCEMENT BRANCH
AREA 4-A
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

RAHMON MOMOH
CALIF PUBLIC UTILITIES
UTILITY & PAYPHONE
AREA 2-E
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

ROBERT LEVIN
CALIF PUBLIC UTILITIES COMMISSION

SEAN A. SIMON
CALIF PUBLIC UTILITIES

COMMISSION
ELECTRICITY PRICING AND CUSTOMER PROGRAM
OVERSIGHT BRANC
ROOM 4102
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

PROCUREMENT STRATEGY AND

AREA 4-A
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

THOMAS ROBERTS
CALIF PUBLIC UTILITIES COMMISSION
COMMISSION
ELECTRICITY PRICING AND CUSTOMER PROGRAM
PERMITTING B
ROOM 4108
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

WENDY AL-MUKDAD
CALIF PUBLIC UTILITIES

INFRASTRUCTURE PLANNING AND

AREA 4-A
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

ZHEN ZHANG
CALIF PUBLIC UTILITIES COMMISSION
COMMISSION
ELECTRICITY PLANNING & POLICY BRANCH
ROOM 4102
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

REBECCA TSAI-WEI LEE
CALIF PUBLIC UTILITIES

DRA - ADMINISTRATIVE BRANCH
770 L Street, Suite 1250
Sacramento, CA 95814

AVTAR BINING
CALIFORNIA ENERGY COMMISSION
1516 9TH STREET, MS-43
SACRAMENTO, CA 95814-5512

Executed this 20th day of December, 2013, at San Francisco, California.

/s/
[Signature]

Rosiceli Villarreal

Attachment 2:

Adenike Adeyeye's Resume

ADENIKE S. ADEYEYE

EDUCATION

Yale University, School of Forestry & Environmental Studies, New Haven, CT
Master of Environmental Management, Social Ecology of Conservation & Development, May 2011.

- Awards: U.S. Department of Education Foreign Language and Area Studies Fellow, Teresa Heinz Scholar for Environmental Research, Lindsay Fellow for Research in Africa, Yale Tropical Resources Institute Fellow

Yale University, New Haven, CT
Bachelor of Arts, Environmental Studies, May 2007.

- Awards: Gaylord Donnelley Prize for Excellence in Environmental Studies, Yale Mellon Undergraduate Research Grant

RELEVANT EXPERIENCE

Earthjustice, San Francisco, CA
Research and Policy Analyst (January 2012 – Present)

- Conduct research and client outreach to support litigation in the air, environmental health, and climate change practice groups.

The World Bank, Washington, DC
Consultant (December 2011 – January 2012)

- Analyzed the Bank portfolio of over 600 municipal solid waste management projects globally, with a focus on environmental and social co-benefits that solid waste management provides.

Yale Hixon Center for Urban Ecology, New Haven, CT
Research Assistant for Professor Amity Doolittle (September 2011 – December 2011)

- Transcribed and coded stakeholder interviews about natural resource management and use in New Haven.

WaterAid Nigeria, Abuja and Ado-Ekiti, Nigeria
Independent Researcher (June 2010 - August 2010)

- Designed a research project focused on gender roles and decision-making in community-led total sanitation projects in Ekiti State, Nigeria. Conducted interviews in three rural communities and local government offices. Drafted report evaluating the sanitation projects' progress on achieving gender equity.

Environmental Law Institute, Washington, DC
Research Associate (July 2007 - June 2009); *Intern Coordinator* (May 2008 - June 2009)

- Conducted research and planned workshops for topics such as climate justice, brownfields revitalization, environmental laws and alternative dispute resolution, gender and natural resource management, and sustainable fisheries management.
- Hired and managed undergraduate interns for the Research & Policy Division.

Independent Researcher, Batey Libertad, Dominican Republic (April – June 2006; December 2006 – January 2007)

- Researched access to waste disposal and patterns of latrine access and use in a peri-urban Haitian migrant farmworker community in the Dominican Republic. Produced a water and sanitation map of the community using ArcGIS.

PUBLICATIONS

Adeyeye, A. (2011). Gender and Community-Led Total Sanitation: A Case Study of Ekiti State, Nigeria. *Tropical Resources Bulletin, 30,* 15-24.

Adeyeye, A., Barrett, J., Diamond, J., Goldman, L., Pendergrass, J., and Schramm, D. (2009). *Estimating U.S. Governmental Subsidies to Energy Sources: 2002-2008.* Washington, DC: Environmental Law Institute.

SKILLS AND LANGUAGES

- Microsoft Office suite, Macromedia Dreamweaver, Adobe Contribute, Adobe Soundbooth, ArcGIS.
- **Spanish**: Professional working proficiency. **Yoruba:** Elementary oral proficiency; Intermediate written proficiency.

Attachment 3:

Time Recordings for Attorney's and Experts

Date	Description	A	B	C	D	E	F	G	H	Total
User: William Rostov										
8/15/2012	Review workshop materials; email with Matt Vespa, email materials to Ron Dickerson and Robert Freehling	0.60								0.60
8/16/2012	TCW Matt Vespa re: energy storage workshop	0.20								0.20
8/16/2012	TCW Ron Dickerson re: Energy Storage workshop materials	0.50								0.50
8/16/2012	Draft notes for Matt Vespa for workshop; email to him	1.00								1.00
8/30/2012	TCW D.Liddell, CESA, re: energy storage proceeding	0.40								0.40
8/30/2012	OCW A.Adeyeye re: energy storage workshop	0.30								0.30
8/30/2012	Review A.Adeyeye notes on energy storage workshop	0.30								0.30
8/31/2012	TCW Ron Dickerson re: storage workshop	0.40								0.40
8/31/2012	TCW Kelly Foley, vote solar, re: energy storage	0.20								0.20
8/31/2012	Prepare for Prehearing Conf.	0.50								0.50
9/3/2012	Prepare for prehearing conf.	1.30								1.30
9/4/2012	Arrive at energy storage PHC early; discuss PHC with other parties	0.50								0.50
9/4/2012	PHC	0.50								0.50
9/4/2012	Post hearing discussions with parties	0.50								0.50
9/4/2012	OCW A.Adeyeye re: PHC;	0.10								0.10
10/1/2012	Skim new scoping memo	0.20								0.20
10/12/2012	OCW Matt Vespa and Mike Jacobs re: strategy		0.90							0.90
10/15/2012	Email Matt Vespa and Mike Jacobs re: workshop materials re: use cases; briefy review them		0.30							0.30
10/16/2012	Energy storage workshop; lunch with Mike Jacobs and Udi Hellman?; post workshop discussion with Mike Jacobs		6.70							6.70
11/14/2012	CPUC workshop on storage modeling tool EVST			3.00						3.00
11/27/2012	Review email from ED staff; review our comments; email to expert		0.60							0.60
11/28/2012	Review ED staff materials and our comments in proceeding		0.70							0.70
11/29/2012	Review CESA's response to staff issue paper		0.20							0.20
11/29/2012	TCW Mike Jacobs and A.Adeyeye re: staff's proposal for Dec. 4 workshop		1.10							1.10
11/29/2012	TCW Ray Pringle re: energy storage proceeding and CESA's position		0.30							0.30

Date	Description	A	B	C	D	E	F	G	H	Total
11/30/2012	Prepare for storage workshops; review our briefs, statute and state reports. Develop response to issues questions; email with Ron Dickerson; briefly review use case filing; email Mike Jacobs and Matt Vespa		4.50							4.50
11/30/2012	TCW Robert Freehling re: storage as preferred resources						0.70			0.70
12/1/2012	Review use cases		2.50							2.50
12/2/2012	Email with Mike Jacobs re: use cases and workshops		0.40							0.40
12/3/2012	TCW Mike Jacobs re: workshop strategy		0.30							0.30
12/3/2012	Energy Storage workshop (1.3 for lunch with Clean Coalition and A123 representative)		6.50							6.50
12/3/2012	Post workshop discussion with CESA lawyer		0.40							0.40
12/4/2012	Energy Storage workshop (1.3 for lunch with David Miller, CEERT)		4.30							4.30
12/4/2012	Post workshop discussions		0.40							0.40
12/4/2012	Review Mike Jacobs email;email with Matt Vespa; text with Mike Jacobs; review notes from workshop		0.50							0.50
12/5/2012	Review CESA and state agency documents related to workshop topics; devleop approach to comments		2.00							2.00
12/5/2012	Email Alole Gupta re: cost effectiveness sub group			0.10						0.10
12/5/2012	review Alloke Gupta response to my email			0.10						0.10
12/11/2012	TCW A.Adeyeye and Mike Jacobs re: approach to valuation and procurement targets				0.60					0.60
12/11/2012	OCW A.Adeyeye re: research issues				0.20					0.20
Issue Areas		A	B	C	D	E	F	G	H	Total
Total Hours for Will Rostov, Attorney in 2012		7.50	32.60	3.20	0.80		0.70			44.80
1/7/2013	Review energy storage staff report	1.00								1.00

Date	Description	A	B	C	D	E	F	G	H	Total
1/8/2013	Prepare for mtg. with Mike Jacobs; OCW A.Adeyeye re: staff paper	0.30								**0.30**
1/8/2013	TCW Mike Jacobs and A.Adeyeye re: staff reports and comment strategy	0.50								**0.50**
1/14/2013	Review documents for workshop				0.30					**0.30**
1/14/2013	Workshop on procurment targets (arrive 20 minutes early and 40 minutes of lunch)				5.00					**5.00**
1/17/2013	TCW Deputy AG re: storage issues	0.40								**0.40**
1/22/2013	Review Mike Jacobs write up; review filings from Joint LTPP/storage workshop; OCW A.Adeyeye re: approach to comments; review presentations and staff report; outline comments		0.80	0.80	0.80		0.80	0.80		**4.00**
1/23/2013	Draft comments				2.50					**2.50**
1/24/2013	TCW M.Jacobs and A.Adeyeye re: storage comments			0.50						**0.50**
1/24/2013	Draft comments on procurement targets				3.50					**3.50**
1/25/2013	Draft comments on procurement targets				1.50					**1.50**
1/25/2013	Draft comments on cost effectiveness			2.00						**2.00**
1/28/2013	Draft comments on procurement targets				3.00					**3.00**
1/28/2013	Draft comments on procurment targets				1.00					**1.00**
1/30/2013	Draft procurement section				0.80					**0.80**
1/31/2013	RV cost effecive methodology section and draft related proceedings section			1.00				1.50		**2.50**
2/1/2013	Revise comments; email Nike re: same		0.20	0.20	0.20		0.20	0.20		**1.00**
2/2/2013	Revise comments; review our previous comments		0.60	0.60	0.60		0.60	0.60		**3.00**
2/4/2013	Finalize comments		0.30	0.30	0.30		0.30	0.30		**1.50**
2/5/2013	Compile replies and briefly review select replies			0.40	0.40	0.40	0.40	0.40		**2.00**
2/7/2013	Review replies		0.60	0.60	0.60		0.60	0.60		**3.00**
2/8/2013	Review materials re: cost effectiveness workshop			0.50						**0.50**

Date	Description	A	B	C	D	E	F	G	H	Total
2/11/2013	Prepare for Energy storage cost effectiveness workshop			2.00						**2.00**
2/11/2013	TCW M.Vespa re: CESA comment					0.10				**0.10**
2/11/2013	Email clients re: CESA comments					0.20				**0.20**
2/11/2013	TCW Robert Freehling re: pumped storage					0.30				**0.30**
2/12/2013	Attend cost effeciveness workshop; arrive 15 mins. Early., talk to other parties			4.80						**4.80**
2/13/2013	Review A.Adeyeye reply comment sections; OCW her re: same				0.30					**0.30**
2/14/2013	Review Nike's section and DR reply			1.00	0.50					**1.50**
2/14/2013	TCW Ron Dickerson re: storage reply comments				0.50					**0.50**
2/15/2013	Draft reply				2.00	1.00	1.00	1.00		**5.00**
2/18/2013	Revise reply				0.50					**0.50**
2/19/2013	Revising reply and reviewing other replies			0.80	1.40	0.60	0.60	0.60		**4.00**
2/20/2013	TCW Robert Freehling re: reply comments				0.40	0.40				**0.80**
2/20/2013	Revise reply based on Robert's Freehling's and Ron Dickerson comments				0.80	0.70				**1.50**
2/20/2013	Revise reply and email to clients			0.20	0.20	0.20	0.20			**0.80**
2/21/2013	Review reply brief; incorporate edits; multi OCW A.Adeyeye; review some cites; finalize brief; skim reply briefs from other parties			0.60	1.10	0.60	0.60	0.60		**3.50**
2/28/2013	Review Alton energy reply brief					0.50				**0.50**
2/28/2013	R ALJ order on evidentiary hearings	0.10								**0.10**
3/11/2013	Review workshop notice; email to James Barismantov re: cost effectiveness; review related documents for email			1.00						**1.00**
3/15/2013	TCW James Barsimantov re: working on energy storage proceedig			0.70						**0.70**
3/15/2013	Gather relevant documents for James Barsimantov and email them to him			0.30						**0.30**
3/20/2013	Review energy storage briefs and prepare for meeting with Rachel Peterson; OCW A.Adeyeye re: preparation for meeting	2.00								**2.00**
3/20/2013	TCW Robert Freehling and A.Adeyeye re: mtg. with Rachel Peterson	0.50								**0.50**
3/20/2013	Mtg. with Rachel Peterson re: storage proceeding	0.80								**0.80**
3/20/2013	Post mtg. discussion with A.Adeyeye	0.20								**0.20**
3/21/2013	OCW A.Adeyeye re: mtg. Rachel Peterson	0.10								**0.10**
3/21/2013	TCW R.Freehling re: mtg. Rachel Peterson	0.60								**0.60**
3/22/2013	TCW James Barismantov re: energy storage workshop			0.20						**0.20**
3/22/2013	Prepare for energy storage workshop	2.00								**2.00**
3/25/2013	Energy Storage workshop (arrrive 15 minutes early)			5.00						**5.00**

Date	Description	A	B	C	D	E	F	G	H	Total
3/29/2013	TCW R.Freehling re: energy storage economics and follow up email to him			0.30						**0.30**
4/1/2013	Review slides from cost effectiveness workshop; prepare for call with expert; R email from Robert Freehling re: cost numbers; forward to Jamses Barismontav			0.30						**0.30**
4/2/2013	Review R.Freehling re: comparative costs between storage and a peaker			0.10						**0.10**
4/2/2013	TCW James Barismantov, Robert Freehling and A.Adeyeye re: cost effective and procurment targets			0.50	0.40					**0.90**
5/15/2013	TCW Don Liddel re: status of proceeding	0.40								**0.40**
6/4/2013	TCW Arthur O'Donnel re: case schedule and status	0.20								**0.20**
6/10/2013	TCW CBE attorneys re: colloboration with CEJA	0.60								**0.60**
6/10/2013	Review energy storage decision; OCW A.Adeyeye re: decision; email to clients; think about response			0.50	0.50	0.50	0.50	0.50	0.50	**3.00**
6/11/2013	TCW Evan Gillespie, Matt Vespa and A.Adeyeye re: ruling and strategy				0.30					**0.30**
6/11/2013	TCW Robert Freehling and A.Adeyeye re: ruling			0.30	0.30	0.20				**0.80**
6/11/2013	TCW James Barsmantov re: ruling			0.30						**0.30**
6/11/2013	Review Decision; take notes on issues form comments;			0.30	0.30	0.30	0.30	0.30	0.50	**2.00**
6/11/2013	TCW Don Liddell, CESA re: storage ruling	0.50								**0.50**
6/12/2013	OCW A.Adeyeye re: comments outline	0.50								**0.50**
6/12/2013	Email with Roger Lin and Maya Golden Krasner re: comments	0.20								**0.20**
6/13/2013	Draft outline of comments; email to A.Adeyeye	0.80								**0.80**
6/17/2013	Review expert draft; TCW Matt Vespa re: same			0.30						**0.30**
6/17/2013	TCW Matt Vespa re: experts and strategy			0.20						**0.20**
6/17/2013	Revise outline; email to CBE	0.20								**0.20**
6/18/2013	TCW Matt Vespa re: comments; review comments from James Barismantov; review cost effectiveness study; revise outline; OCW A.Adeyeye re: comments and strategy; review ruling and divide up work for comments	0.50		1.00	1.50					**3.00**
6/18/2013	Call with CBE re: dividing up outline	0.40								**0.40**
6/19/2013	Email to Jancie Lin and exchange VM	0.20								**0.20**
6/19/2013	Call with James Barsimantov re: storage comments: cost effectiveness and market transformation; prepare for call with James			0.50	0.50					**1.00**
6/20/2013	TCW Don Liddell, CESA re: storage ruling	0.20								**0.20**
6/21/2013	TCW R.Freehling re: energy storage decision			0.70						**0.70**
6/24/2013	Prepare for All Party Meeting	3.50								**3.50**

Date	Description	A	B	C	D	E	F	G	H	Total
6/24/2013	Email with James Barismantov re: his notes on ACR; review his notes; TCW James Barismantov and A.Adeyeye re: comment and all party strategy			0.50	0.50					**1.00**
6/24/2013	Meeting with A.Adeyeye re: all party meeting comments and answer to questions	0.40								**0.40**
6/24/2013	Prepare for all party meeting; draft and practice 3 minutes speech. Work on answers to questions	2.50								**2.50**
6/25/2013	Prepare for all party meeting ; meet A.Adeyeye and discuss approach	1.00								**1.00**
6/25/2013	Arrive early for all party meeting; touch base with CESA	0.50								**0.50**
6/25/2013	All pary meeting;	2.50								**2.50**
6/25/2013	post All pary meeting discussions with other parties	0.30								**0.30**
6/25/2013	Lunch meeting with CBE, Nike and James Barismantov			0.50						**0.50**
6/25/2013	Edit procrement target section from Jamess Barismantov; draft part of section.				2.00					**2.00**

Date	Description	A	B	C	D	E	F	G	H	Total
6/26/2013	TCW James Barsmantov re: cost effectiveness			0.20						**0.20**
6/26/2013	Incorporate pieces from experts on procurment targets; draft procurement target section				3.00					**3.00**
6/27/2013	Review cost effectiveness section; email with James Barismatov re: section			2.00						**2.00**
6/27/2013	Revise procurment sections and sections from Roger Lin				2.00				1.00	**3.00**
6/28/2013	Revise RAM/RFO section; email with Roger Lin re: same; TCW Roger Lin re: same								2.00	**2.00**
6/28/2013	TCW Robert Freehling re: comments								0.20	**0.20**
6/28/2013	Webcast of cost effectivenew workshop			2.00						**2.00**
6/28/2013	Email with James Barismantov re: cost effectiveness section			0.30						**0.30**
6/28/2013	Draft response to other questions				2.00			1.00		**3.00**
6/29/2013	Revise draft of comments; email to clients; email to CBE			0.30	0.50	0.30	0.30	0.30	0.30	**2.00**
7/1/2013	Review Robert Freehling Coments and incorporate his edits; email co counsel and James Barismantov re: same			0.50	0.70	0.30	0.20	0.20	0.10	**2.00**
7/1/2013	Draft remaining sections of brief and intro; multiple TCW A.Adeyeye re: coordination			0.50	1.50		0.50	1.00		**3.50**
7/2/2013	TCW Matt Vespa re: Comment; incoporate his edits to the intro				0.30					**0.30**
7/2/2013	Revise comment letter; email with Roger Lin; email and TCW A.Adeyeye re: same			0.50	2.00	1.00	1.00	1.00	1.00	**6.50**
7/3/2013	Finalize Comments on ACR; TCW R.Freehling; OCW A.Adeyeye re: last minute edits and changes			0.20	0.70	0.40	0.40	0.40	0.40	**2.50**
7/8/2013	Review comments on ACR			0.30	0.50	0.30	0.30	0.30	0.30	**2.00**
7/9/2013	Review comment letters			0.50	0.50	0.50	0.50	0.50	0.50	**3.00**
7/9/2013	TCW Roger Lin re: comments								0.30	**0.30**
7/10/2013	TCW Don Liddell re: Opening Comments	0.50								**0.50**
7/10/2013	Email with James Barismantov re: questions about comments and review his notes			0.30						**0.30**
7/10/2013	Review comments and draft reply brief			0.60	1.00	0.60	0.60	0.60	0.60	**4.00**
7/11/2013	Draft reply focusing on procurement targets and cost effectiveness			1.50	2.50					**4.00**
7/12/2013	Draft section on procurement targets; review related pleadings				1.50			1.00		**2.50**
7/13/2013	Review pleadings; DR section on procurement targets				2.00					**2.00**
7/14/2013	Draft section on procurement targets				1.50					**1.50**
7/16/2013	TCW CESA and FOE re: reply comments	0.90								**0.90**
7/16/2013	Edit and revise RPS, cost cap, RAM/RFO and pumped hydro section				0.50	0.50	0.50		2.00	**3.50**
7/16/2013	Draft cost effiveness section			3.50						**3.50**
7/17/2013	Finalize first draft Comments on ACR; email with Roger Lin and clients re: comments			0.30	0.30	0.30		0.30	0.30	**1.50**

Date	Description	A	B	C	D	E	F	G	H	Total
7/18/2013	TCW R.Freehling					0.30				**0.30**
7/18/2013	TCW Damon Moglen of FOE re: coordination	0.30								**0.30**
7/18/2013	Revise brief			0.10	0.20	0.10	0.10	0.10	0.10	**0.70**
7/18/2013	Email with Roger Lin pumped hydro argument					0.20				**0.20**
7/18/2013	Revise draft; incorporate R.Freehling's comments			0.60	0.60	0.60	0.60		0.60	**3.00**
7/19/2013	Revise and finalize document; incorporate edits; email with Roger Lin, multi OCW A.Adeyeye			0.60	0.60	0.60	0.60	0.50	0.60	**3.50**
8/7/2013	TCW CESA and FOE	0.70								**0.70**
8/15/2013	TCW R.Freehling re: ex parte	0.20								**0.20**
8/19/2013	Review our comment and other parties reply briefs			1.50	1.50					**3.00**
8/20/2013	Review Energy Storage reply briefs			0.50	0.50					**1.00**
8/21/2013	Prepare for mtg. with Melicia Charles; finish reading replies	2.00								**2.00**
8/26/2013	Pre meeting re: exparte with Melicia Charles	0.90								**0.90**
8/28/2013	Prepare for ex parte.; review our tesimony and some replies; meet Adeyeye and Roger Lin	2.00								**2.00**
8/28/2013	Ex parte with Melicia Charles	0.50								**0.50**
9/3/2013	Skim energy storage decision			0.20	0.30					**0.50**
9/13/2013	TCW Stephanie Wang Cleen Coalition re: energy storage PD	0.30								**0.30**
9/13/2013	Review PD based on conversation with CLEEN Coalition; Draft comments on PD			0.50	1.00					**1.50**
9/16/2013	Review P.D; draft comments on PD			1.00	3.00					**4.00**
9/19/2013	Revise energy storage comment; email to clients			0.10	0.20					**0.30**
9/19/2013	TCW Robert Freehling re: energy storage comment			0.30						**0.30**
9/20/2013	Email re: storage comment; revise comment; recirculate; make changes			0.30	0.70					**1.00**
9/27/2013	Draft reply comments on PD					2.00				**2.00**
9/28/2013	Draft reply comments			1.00	1.00					**2.00**
9/29/2013	Revise reply comments			0.40	0.40	0.50				**1.30**
9/30/2013	Review and storage reply comment; email with Roger Lin; incorporate his comments; incorporate A.Adeyeye edits			0.30	0.30	0.40				**1.00**
Issue Areas		A	B	C	D	E	F	G	H	Total
Total Hours for Will Rostov, Attorney in 2013		**32.20**	**2.50**	**50.70**	**67.80**	**14.90**	**11.70**	**14.60**	**11.30**	**205.70**
Request for Compensation										
12/17/2013	Drafting compensation request, calculating rate and reviewing relevant compensation guidelines	2.00								
12/17/2013	Review hours and reduce time	1.00								
12/19/2013	Review hours, allocate by isse and reduce time	1.50								
12/19/2013	Review hours, allocate by isse and reduce time	2.00								

Hours of William Rostov, Attorney in 2012 and 2013

Date	Description	A	B	C	D	E	F	G	H	Total
12/19/2013	Draft request for compensation	1.70								
12/20/2013	Revise request for compensation, review and finalize all other documents	2.00								
Total		**10.20**								

Date	Description	A	B	C	D	E	F	G	H	Total
James Barsimantov										
3/12/2013	Reviewing case material (use cases, staff proposal)		1.00							1.00
3/12/2013	Reviewing case material, initial literature searches on cost effectivness of energy storage, discussions with Sierra Club lawyers			2.00						2.00
3/15/2013	Literature search and review: energy storage cost effectiveness, economic optimization of storage coupled with renewables, limits of renewables deployment with and without energy storage			0.50						0.50
3/18/2013	Literature search and review: energy storage cost effectiveness, economic optimization of storage coupled with renewables, limits of renewables deployment with and without energy storage			0.50						0.50
3/21/2013	Literature search and review: energy storage cost effectiveness, economic optimization of storage coupled with renewables, limits of renewables deployment with and without energy storage			0.50						0.50
3/22/2013	Discussion with Sierra Club lawyers; Literature search and review: energy storage cost effectiveness, economic optimization of storage coupled with renewables, limits of renewables deployment with and without energy storage			2.00						2.00
3/25/2013	CPUC Workshop - remote participation			5.50						5.50
4/2/2013	Reviewing material from KEMA and EPRI studies, discussing studies with Sierra Club lawyers			2.10	0.40					2.50
4/9/2013	Reviewing material from KEMA and EPRI studies, Literature review, Outlining initial Sierra Club arguments			3.00						3.00
4/15/2013	Outlining initial Sierra Club arguments			1.00						1.00
4/16/2013	Writing background section; Literature search and review: energy storage cost effectiveness, economic optimization of storage coupled with renewables, limits of renewables deployment with and without energy storage			2.00						2.00
4/18/2013	Comparing cost effectiveness values in KEMA and EPRI studies to published literature			4.00						4.00
4/23/2013	Lit. Review: monetary value of energy storage; Matching benefits in published literature to CPUC use cases		3.00							3.00
4/26/2013	Lit. Review: monetary value of energy storage; Writing on storage benefits			2.00						2.00
4/28/2013	Estimates of GHG emissions based on published literature, writing discussion of monetary benefits of energy storage			0.50						0.50
5/1/2013	Writing discussion of monetary benefits of energy storage			2.00						2.00
5/3/2013	Editing discussion of monetary benefits of energy storage			1.00						1.00
6/11/2013	Call with Earthjustice			0.30						0.30
6/14/2013	Reviewing proposed ruling, revising Sierra Club arguments			3.00						3.00
6/17/2013	Revision of draft testimony based on proposed ruling, discussion, literature search & review			3.00						3.00
6/19/2013	Drafting section on market transformation, discussion with Sierra Club lawyers				2.00					2.00
6/20/2013	Writing, calculations on storage benefits, relating literature to proposed ruling			2.00						2.00
6/21/2013	Reviewing updated EPRI study, Writing introduction and concluding sections, Adding in citations			4.00						4.00
6/22/2013	Calculations of energy storage benefits (GHSs and monetary), Writing			3.00						3.00
6/23/2013	Discussing draft with Sierra Club lawyers, writing, Reviewing updated KEMA study			4.00						4.00
6/24/2013	Answering questions from Sierra Club on draft, editing testimony, compiling articles to send to Sierra Club			0.50	2.50					3.00
6/25/2013	CPUC all part meeting attendance, meeting with Sierra Club lawyers	3.00								3.00
6/26/2013	Adding in Table 2 on monetary benefits not included in use cases, editing draft report			1.00						1.00
6/27/2013	Adding in summary of EPRI/KEMA studies, formatting document			3.50						3.50

Date	Description	A	B	C	D	E	F	G	H	Total
6/28/2013	Completing final draft of cost effectiveness report			1.00						**1.00**
7/1/2013	Reviewing Sierra Club environmental justice comments, providing additional citations, discussing with Sierra Club lawyers				0.50					**0.50**
7/2/2013	Editing final report			1.00						**1.00**
7/10/2013	Reviewing comments from other parties, email Rostov notes			2.00						**2.00**
Issue Areas		A	B	C	D	E	F	G	H	Total
Total Hours for James Barsimantov, Expert in 2013		**3.00**	**4.00**	**56.90**	**5.40**					**69.30**

Date	Description	A	B	C	D	E	F	G	H	Total
User: Mulvaney										
3/13/2013	Reviewing case material, initial literature searches on cost effectivness of energy storage, discussions with Sierra Club lawyers			1.00						1.00
3/18/2013	Literature search and review: energy storage cost effectiveness, economic optimization of storage coupled with renewables, limits of renewables deployment with and without energy storage			2.00						2.00
3/21/2013	Literature search and review: energy storage cost effectiveness, economic optimization of storage coupled with renewables, limits of renewables deployment with and without energy storage			1.00						1.00
4/9/2013	Reviewing material from KEMA and EPRI studies, Literature review, Outlining initial Sierra Club arguments			1.00						1.00
4/16/2013	Writing background section; Literature search and review: energy storage cost effectiveness, economic optimization of storage coupled with renewables, limits of renewables deployment with and without energy storage			2.00						2.00
4/20/2013	Literatue review & search: values for incidental benefits			1.00						1.00
4/22/2013	Literatue review & search: values for incidental benefits			0.50						0.50
4/27/2013	Estimates of GHG emissions based on published literature			1.00						1.00
4/28/2013	Estimates of GHG emissions based on published literature, writing discussion of monetary benefits of energy storage			2.00						2.00
5/3/2013	Editing discussion of monetary benefits of energy storage			1.00						1.00
6/14/2013	Reviewing proposed ruling, revising Sierra Club arguments			1.00						1.00
6/20/2013	Writing, calculations on storage benefits, relating literature to proposed ruling			2.00						2.00
6/24/2013	Answering questions from Sierra Club on draft, editing testimony, compiling articles to send to Sierra Club			3.00						3.00
6/28/2013	Reviewing Sierra Club environmental justice comments, providing additional citations, discussing with Sierra Club lawyers			1.50						1.50
7/11/2013	Final review of testimony			0.50						0.50
Issue Areas		A	B	C	D	E	F	G	H	Total
	Total Hours of Dustin Mulvaney, Expert in 2013			20.50						20.50

Date	Description	A	B	C	D	E	F	G	H	Total
Freehling										
11/30/2012	Phone call with Rostov and Adeyeye re: storage as preferred resources						0.70			**0.70**
Issue Ares		A	B	C	D	E	F	G	H	Total
Total Hours for (First Name) Freehling, Expert in 2012							**0.70**			**0.70**
2/11/2013	Phone call with Rostov re: pumped storage					0.30				**0.30**
2/20/2013	Call with Rostov re: reply comments				0.40	0.40				**0.80**
2/20/2013	Review and edit iterations of reply comments			0.50	0.50	0.50				**1.50**
3/20/2013	Phone call with Rostov and Adeyeye re: mtg. with Rachel Peterson	0.50								**0.50**
3/20/2013	Phoned in to exparte mtg with Rachel Peterson, Rostov and Adeyeye	0.80								**0.80**
3/21/2013	Call with Rostov and Adeyeye re: mtg. Rachel Peterson	0.60								**0.60**
3/21/2013	Review Jack Ellis comments re: need for storage with reply to Sierra Club, and his slide presentation; review slide presentations on GE Durathon battery, and EPRI/E3 on financial factors of storage, and CESA on market development; verify cost analysis and			2.00						**2.00**
3/29/2013	Phone call with Rostov re: energy storage economics and follow up email to him			0.30						**0.30**
4/2/2013	Phone call with Barismantov, Rostov and Adeyeye re: cost effective and procurment targets			0.50	0.40					**0.90**
6/11/2013	review assigned commissioner's draft storage ruling			0.30	0.30	0.10				**0.70**
6/11/2013	Phone call with Rostov and Adeyeye re: ruling			0.30	0.30	0.20				**0.80**
6/24/2013	Review CESA position and agenda w/questions for all party meeting	0.40								**0.40**
6/21/2013	Phone call with Rostov re: energy storage decision			0.70						**0.70**
6/28/2013	Phone call with Rostov re: comments					0.20				**0.20**
7/1/2013	Review 34 page Sierra Club draft opening comments and edit document			0.50	0.90	0.30	0.30	0.30	0.20	**2.50**
7/3/2013	Reply to email request for database with pump storage in CA					0.20				**0.20**
7/18/2013	Review and edit 15 page draft reply comments			0.30	0.50	0.10	0.20	0.20	0.20	**1.50**
7/18/2013	Phone call with Rostov re: comments on ACR.					0.30				**0.30**
8/15/2013	Phone call with Rostov re: ex parte	0.20								**0.20**
8/26/2013	Pre meeting re: exparte with Melicia Charles with Rostov, Adeyeye, and Lin	0.90								**0.90**
8/28/2013	Phoned in to exparte mtg with Melicia Charles, Rostov, Adeyeye and Lin	0.50								**0.50**

9/5/2013	Review proposed decision				0.10	0.10	0.10	0.10	0.10	**0.50**
9/10/2013	Phone call with Adeyeye about energy storage ex parte meetings.	0.20								**0.20**
9/19/2013	Phone call with Rostov re: energy storage comment				0.30					**0.30**
9/19/2013	Review draft Sierra Club comments on phase 2			0.20	0.10					**0.30**
9/23/2013	Review revised Sierra Club comments on phase 2				0.20					**0.20**
Issue Areas		A	B	C	D	E	F	G	H	Total
Total Hours for (First Name) Freehling, Expert in 2013		**4.10**		**5.60**	**4.00**	**2.70**	**0.60**	**0.60**	**0.50**	**18.10**

Date	Description	A	B	C	D	E	F	G	H	Total
User: Adenike Adeyeye										
8/20/2012	Energy storage workshop.	5.40								5.40
8/30/2012	Talk with Rostov about energy storage workshop	0.30								0.30
8/30/2012	Review energy storage workshop notes.	1.00								1.00
9/4/2012	Talk with Rostov re: storage PHC.	0.10								0.10
11/29/2012	Research on energy storage policies, proceedings, and projects.		0.40							0.40
11/29/2012	Call with Jacobs and Rostov about energy storage proceeding.		1.10							1.10
11/30/2012	Talk with Jacobs and Rostov about next storage workshop.		0.20							0.20
11/30/2012	Call with Robert Freehling and Rostov re: storage as preferred resources						0.70			0.70
12/3/2012	Energy storage workshop.		0.70							0.70
12/4/2012	Energy storage workshop.		3.00							3.00
12/4/2012	Listening to storage workshop on WebEx.		1.00							1.00
12/11/2012	Call with Jacobs and Rostov about upcoming energy storage workshops and procurement targets.				0.60					0.60
12/11/2012	Reading KEMA scientist's research on storage and air emissions.		0.60							0.60
12/18/2012	Researching energy storage procurement targets.				2.10					2.10
12/19/2012	Reading CPUC report, EPRI report, and Sandia report on energy storage.				4.00					4.00
12/21/2012	Researching factors involved in valuing energy storage			3.50						3.50
Issue Areas		A	B	C	D	E	F	G	H	Total
Total Hours for Adenike Adeyeye, Research Analyst in 2012		6.80	7.00	3.50	6.70		0.70			24.70
1/7/2013	Reading storage staff report.	1.00								1.00
1/7/2013	Talk with Rostov about storage staff report.	0.10								0.10
1/8/2013	Talking with Rostov about staff report on energy storage.	0.20								0.20
1/8/2013	Talking with Rostov and Jacobs about comments on staff report on energy storage.	0.50								0.50
1/14/2013	Energy storage workshop on procurement targets.				5.00					5.00
1/17/2013	Reviewing energy storage documents, particularly use cases and comments by Freehling.		0.50							0.50
1/17/2013	Locating and reviewing SDG&E's general rate case application and testimony, writing notes on their treatment of storage in the GRC.		2.20							2.20
1/22/2013	Talk to Rostov about storage staff report comments.		0.10							0.10
1/22/2013	Notes on Jacobs's draft comments on CPUC interim staff report.			2.40						2.40
1/23/2013	Reviewing Jacobs's comments, talking with Rostov about comments.	0.70								0.70
1/24/2013	Call with Jacobs and Rostov about energy storage comments.			0.50						0.50
1/24/2013	Talk with Rostov about energy storage comments.	0.40								0.40
1/25/2013	Reading use cases and Jacobs comments to prep for opening comments draft.			0.90						0.90
1/28/2013	Working on comments on Interim Staff Report.			2.90						2.90
1/29/2013	Drafting response to CPUC staff report on Track 2 of energy storage proceeding.		5.30							5.30
1/30/2013	Drafting comments on Track 2 interim staff report.			3.70						3.70
1/30/2013	Drafting comments on Track 2 interim staff report.			0.80						0.80
1/30/2013	Drafting comments on Track 2 interim staff report.		2.40							2.40

Date	Description	A	B	C	D	E	F	G	H	Total
2/1/2013	Reading draft of comments on Phase 2 Interim Staff Report.	0.20	0.20	0.20			0.20			**0.80**
2/4/2013	Reviewing and cite checking energy storage comments.	0.70	0.70	0.70			0.70	0.70		**3.50**
2/7/2013	Reviewing other parties energy storage comments.		0.20	0.20	0.20	0.20	0.20		0.20	**1.20**
2/7/2013	Reviewing other parties' comments on Phase 2 Interim Staff Report.		0.40	0.40	0.40	0.40	0.40		0.30	**2.30**
2/7/2013	Reviewing other parties' comments on Phase 2 Interim Staff Report.		0.20	0.20	0.20	0.20	0.20		0.20	**1.20**
2/7/2013	Reviewing other parties' comments on Phase 2 Interim Staff Report.		0.20	0.20	0.20	0.20	0.20	0.10	0.20	**1.30**
2/8/2013	Talk with Rostov about energy storage reply comments.		0.10	0.10	0.10		0.10	0.10		**0.50**
2/11/2013	Reviewing energy storage workshop documents.			1.00						**1.00**
2/11/2013	Reviewing energy storage workshop documents, writing up notes, sending notes to Rostov.			0.60						**0.60**
2/12/2013	Energy storage cost effectiveness workshop.			1.60						**1.60**
2/12/2013	Talk with Rostov about storage cost effectiveness workshop.			0.10						**0.10**
2/12/2013	Energy storage cost effectiveness workshop.			2.20						**2.20**
2/12/2013	Reviewing other parties comments on Phase 2 Interim Staff Report, drafting reply comments on Phase 2 Interim Staff Report.		0.40	0.30	0.40	0.30	0.30	0.30	0.30	**2.30**
2/13/2013	Revising reply comments on Phase 2 Interim staff report.				0.20		0.20			**0.40**
2/13/2013	Revising reply comments on Phase 2 Interim staff report.				0.50		0.50			**1.00**
2/13/2013	Drafting reply comments on Phase 2 Interim staff report.				0.80	0.40	0.80			**2.00**
2/20/2013	Talk with Rostov about storage reply comments.				0.10	0.10				**0.20**
2/20/2013	Reviewing and editing energy storage reply comments.				0.30	0.40	0.30			**1.00**
2/21/2013	Cite checking and editing draft reply comments to Interim Staff Report.				1.10	1.10	1.10			**3.30**
2/21/2013	Cite checking and editing draft reply comments to Interim Staff Report.				0.30	0.30	0.30			**0.90**
2/28/2013	Reading energy storage reply comments.		0.30	0.30	0.30	0.30	0.30	0.30	0.20	**2.00**
3/1/2013	Reading energy storage reply comments.		0.20	0.20	0.10	0.20	0.20	0.10	0.10	**1.10**
3/1/2013	Reading energy storage reply comments.		0.30	0.40	0.40	0.40	0.40	0.40	0.30	**2.60**
3/19/2013	Talk with Rostov about energy storage meeting with Commissioner Peterman's staff.			0.10	0.10					**0.20**
3/20/2013	Call with Freehling and Rostov.			0.30	0.30					**0.60**
3/20/2013	Meeting with CPUC Commissioner Peterman's staff.			0.40	0.50					**0.90**
3/25/2013	Energy storage modeling results workshop at PUC.		3.30							**3.30**
3/25/2013	Energy storage workshop.		1.20							**1.20**
4/2/2013	Reviewing presentations from 3/25 workshop on modeling and notes from workshop in advance of call with expert.		1.20							**1.20**
4/2/2013	TCW James Barsimantov, Robert Freehling and Rostov re: cost effective and procurement targets			0.50	0.40					**0.90**
6/10/2013	Call with CEJA about energy storage ACR.	0.60								**0.60**
6/10/2013	Reading energy storage ACR.	1.00								**1.00**
6/10/2013	Reading energy storage ACR.	0.50								**0.50**
6/10/2013	Talk with Rostov about ACR.	0.30								**0.30**
6/11/2013	Research planned energy storage projects				1.50					**1.50**
6/11/2013	TCW Robert Freehling and Rostov re: ruling			0.30	0.30	0.20				**0.80**
6/11/2013	Call with energy storage expert.			0.30						**0.30**
6/12/2013	Reading RPS procurement plans.							2.70		**2.70**
6/12/2013	Talk with Rostov about outline.			0.10	0.10	0.10	0.10		0.10	**0.50**
6/14/2013	Revising energy storage comment outline.			0.10	0.10	0.10	0.10		0.10	**0.50**

Date	Description	A	B	C	D	E	F	G	H	Total
6/18/2013	Research into amount of MW of energy storage already committed in each IOU service area.				2.70					**2.70**
6/18/2013	Read Barsimantov's outline and comments on energy storage proceeding.			0.80						**0.80**
6/18/2013	Talk with Rostov about energy storage comment outline.			0.10	0.10	0.20	0.10	0.10	0.10	**0.70**
6/19/2013	Prep for meeting with Barsimantov.			0.10						**0.10**
6/19/2013	Meeting with Barsimantov.			0.90						**0.90**
6/19/2013	Outlining and organizing research for sections of the comments on the Commissioner's ruling.			1.00				1.00		**2.00**
6/20/2013	Reviewing documents and drafting comments on ACR.			2.00			0.50	1.00		**3.50**
6/21/2013	Working on energy storage comments; reading documents on demand response and energy storage.			2.00			2.00	0.90		**4.90**
6/24/2013	Reading energy storage documents from CESA				0.20					**0.20**
6/24/2013	Preparation for all party meeting at CPUC.	0.20								**0.20**
6/24/2013	Working on energy storage comments on Commissioner's proposed ruling.			0.50	1.00		0.50	1.00	0.50	**3.50**
6/24/2013	Call with Barsimantov.			0.50						**0.50**
6/24/2013	Reading energy storage documents from Barsimantov.			1.00						**1.00**
6/25/2013	Meeting before all party meeting to discuss comments.	1.00								**1.00**
6/25/2013	All party meeting.	2.50								**2.50**
6/25/2013	Meeting with CEJA and EcoShift to discuss comments.			0.60						**0.60**
6/26/2013	Cite checking EcoShift cost effectiveness document.			4.50						**4.50**
6/27/2013	Reading drafts of energy storage comments.			0.10	0.10	0.10		0.10	0.10	**0.50**
6/27/2013	Cite checking comments			1.00	0.50	0.50	0.50	0.50		**3.00**
6/28/2013	Cost effectiveness workshop.			4.80						**4.80**
7/1/2013	Editing EcoShift report, writing a summary of EcoShift comments.			3.50						**3.50**
7/1/2013	Checking citations, listing cited reports for inclusion in service to service list.			2.50	1.00				0.30	**3.80**
7/2/2013	Incorporating edits and cite checking comment letter.			2.50	2.00	0.50	0.30			**5.30**
7/2/2013	Compiling attachments to comment letter and incorporating edits into comment letter.			3.00	1.00					**4.00**
7/3/2013	Final edits and corrects to CPUC docs			1.00	1.20					**2.20**
7/3/2013	Cite checking and proofing ACR opening comments.			0.60	0.60	0.60	0.60	0.60	0.60	**3.60**
7/8/2013	Reading energy storage emails and printing opening comments on the ACR.			0.10	0.10	0.10	0.10		0.10	**0.50**
7/8/2013	Reading opening comments on ACR.			0.20	0.10	0.10	0.10	0.10	0.10	**0.70**
7/8/2013	Reading opening comments on ACR.			0.40	0.40	0.30	0.30	0.30	0.30	**2.00**
7/8/2013	Reading opening comments on ACR.			0.60	0.50	0.50	0.40	0.50	0.40	**2.90**
7/9/2013	Reading opening comments on ACR.			0.80	0.90	0.60	0.60	0.60	0.50	**4.00**
7/10/2013	Reading opening comments on storage ACR and compiling notes.			1.00	1.00	0.90	0.80	0.90	0.90	**5.50**
7/11/2013	Reading opening comments on storage ACR and compiling notes.			0.90	0.90	0.90	0.90	0.90	0.90	**5.40**
7/12/2013	Writing draft of section of reply comments on Storage ACR.			1.00	1.00		1.00			**3.00**
7/15/2013	Review draft of reply comments RPS section							0.30		**0.30**
7/16/2013	Talk with Rostov.							0.20		**0.20**
7/16/2013	Call with CESA			0.30	0.30	0.30				**0.90**
7/16/2013	Write section of comments on cost containment.			0.10	0.20	0.10	0.10	0.10		**0.60**
7/16/2013	read CESA draft reply comments			0.10	0.10	0.10	0.10	0.10	0.10	**0.60**
7/17/2013	Reading storage draft.			0.30	0.30		0.20			**0.80**

Date	Description	A	B	C	D	E	F	G	H	Total
7/18/2013	Reviewing other parties' comment letters to add to cites in reply comment letter			0.40	0.40	0.30	0.30	0.30	0.30	**2.00**
7/18/2013	Researching other parties' assessment of cost effectiveness studies.			0.40						**0.40**
7/18/2013	Editing and cite checking reply comments.			1.20	1.30		1.20			**3.70**
7/19/2013	Cite checking reply comments.			1.40	1.50		1.40			**4.30**
7/31/2013	Reading energy storage reply comments.			0.60	0.60	0.60	0.60	0.50	0.10	**3.00**
8/1/2013	Talk with Rostov about energy storage reply comments.			0.10	0.10					**0.20**
8/1/2013	Reviewing energy storage reply comments.			0.60	0.60	0.60	0.60	0.50	0.40	**3.30**
8/2/2013	Reviewing energy storage reply comments.			0.30	0.40	0.30	0.20	0.20	0.20	**1.60**
8/5/2013	Writing up ex parte meeting request.	0.30								**0.30**
8/22/2013	Reviewing energy storage comments and writing notes in preparation for ex parte meeting	3.70								**3.70**
8/23/2013	Prep for energy storage ex parte meeting	1.00								**1.00**
8/26/2013	Call to discuss energy storage ex parte meeting with CEJA.	1.00								**1.00**
8/27/2013	Reviewing notes from energy storage prep call and writing up notes and ex parte meeting outline.	0.50								**0.50**
8/28/2013	Ex parte meeting	0.50								**0.50**
8/28/2013	Talk with Rostov about energy storage ex parte	0.50								**0.50**
9/5/2013	Reading energy storage proposed decision	1.00								**1.00**
9/9/2013	Talk with Rostov about energy storage				0.20					**0.20**
9/10/2013	Reviewing proposed decision	2.50								**2.50**
9/10/2013	Call to Freehling about energy storage ex partes	0.20								**0.20**
Issue Areas		A	B	C	D	E	F	G	H	Total
Total Hours for Adenike Adeyeye, Research Analyst in 2013		21.10	19.40	65.80	35.20	12.50	20.00	15.40	7.90	**197.30**
Request for Compensation										
12/17/2013	Talking to Rostov about energy storage request for compensation (phase 2).	**0.20**								
12/17/2013	Reviewing all Phase 2 comments and briefs to compile showing of substantial contribution for request for compensation.	**6.50**								
12/18/2013	Edits to the showing of substantial contribution for request for compensation in Phase 2.	**0.50**								
12/19/2013	Editing showing of substantial compensation for request for compensation	**0.50**								
12/19/2013	Writing explanation of cost effectiveness work completed by EcoShift for compensation request in Phase 2	**0.50**								
12/19/2013	Categorizing my time records for compensation request in Phase 2	**1.20**								
12/20/2013	Inserting additions to request for compensation, proofreeading	**1.50**								
Total		**10.90**								

Name	Year	Rate	A	B	C	D	E	F	G	H	Total
Will Rostov	2012	$360.00	7.50	32.60	3.20	0.80	0.00	0.70	0.00	0.00	44.80
Total 2012			$2,700.00	$11,736.00	$1,152.00	$288.00	$0.00	$252.00	$0.00	$0.00	**$16,128.00**
Will Rostov	2013	$390.00	32.20	2.50	50.70	67.80	14.90	11.70	14.60	11.30	205.70
Total 2013			**$12,558.00**	**$975.00**	**$19,773.00**	**$26,442.00**	**$5,811.00**	**$4,563.00**	**$5,694.00**	**$4,407.00**	**$80,223.00**
Adenike Adeyeye	2012	$130.00	6.80	7.00	3.50	6.70	0.00	0.70	0.00	0.00	24.70
Total 2012			**$884.00**	**$910.00**	**$455.00**	**$871.00**	**$0.00**	**$91.00**	**$0.00**	**$0.00**	**$3,211.00**
Adenike Adeyeye	2013	$135.00	21.10	19.40	65.80	35.20	12.50	20.00	15.40	7.90	197.30
Total 2013			**$2,848.50**	**$2,619.00**	**$8,883.00**	**$4,752.00**	**$1,687.50**	**$2,700.00**	**$2,079.00**	**$1,066.50**	**$26,635.50**
James Barsimantov	2013	$210.00	3.00	4.00	56.90	5.40	0.00	0.00	0.00	0.00	69.30
Total 2013			**$630.00**	**$840.00**	**$11,949.00**	**$1,134.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$14,553.00**
Dustin Mulvaney	2013	$190.00	0.00	0.00	20.50	0.00	0.00	0.00	0.00	0.00	20.50
Total 2013			**$0.00**	**$0.00**	**$3,895.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$3,895.00**
Freehling	2012	$165.00	0.00	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.70
Total 2012			**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$115.50**	**$0.00**	**$0.00**	**$115.50**
Freehling	2013	$180.00	4.10	0.00	5.60	4.00	2.70	0.60	0.60	0.50	18.10
Total 2013			**738.00**	**0.00**	**1008.00**	**720.00**	**486.00**	**108.00**	**108.00**	**90.00**	**$3,258.00**

Total 2012		Total 2013		Total	Allocation Percentages
Category A	$3,584.00	Category A	$16,774.50	**$20,358.50**	14%
Category B	$12,646.00	Category B	$4,434.00	**$17,080.00**	12%
Category C	$1,607.00	Category C	$45,508.00	**$47,115.00**	32%
Category D	$1,159.00	Category D	$33,048.00	**$34,207.00**	23%
Category E	$0.00	Category E	$7,984.50	**$7,984.50**	5%
Category F	$458.50	Category F	$7,371.00	**$7,829.50**	5%
Category G	$0.00	Category G	$7,881.00	**$7,881.00**	5%
Category H	$0.00	Category H	$5,563.50	**$5,563.50**	4%
Total 2012	**$19,454.50**	**Total 2013**	**$128,564.50**	**$148,019.00**	100%