

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)
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**AMENDED 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.
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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
<p>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:</p>		
<p><u>1. Procurement targets</u> <u>Comments of Sierra Club California on Administrative Law Judge’s January 18, 2013 Ruling Entering Interim Staff Report Into Record and Seeking Comments</u> (Feb. 4, 2013)</p>	<p><u>D.13-10-040</u> (Oct. 17, 2013) “AB 2514 is silent on any requirement</p>	

<p>“To pick effective 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 be established for its own sake, and that is why a procurement target should be tied to concrete state policy goals and mandates.” (p. 4)</p> <p><u>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)</u></p> <p>“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</p>	<p>to conduct or apply a system need determination as a basis for procurement 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)</p> <p><u>Assigned Commissioner’s Ruling Proposing Storage Procurement Targets and Mechanisms and Noticing All-Party Meeting (Jun. 10, 2013)</u></p> <p>“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)</p> <p><u>D.13-10-040 (Oct. 17, 2013)</u></p> <p>“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)</p>	
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<p>there is no question that California will procure enough energy storage to transform the energy storage market.” (p. 1)</p> <p>“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)</p> <p><u>Reply Comments of Sierra Club California and the California Environmental Justice Alliance on Proposed Decision Adopting Energy Storage Procurement Framework And Design Program</u> (Sept. 30, 2013)</p> <p>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)</p>	<p>“CESA and Sierra/CEJA favor retaining existing targets or even increasing them.” (p. 20)</p> <p>“As explained below, we find that the procurement target levels set forth in the Proposed Plan are appropriate.” (p. 22)</p> <p>“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)</p>	
<p>2. <u>Policy Guidance</u></p> <p><u>Comments of Sierra Club California on Administrative Law Judge’s January 18, 2013 Ruling Entering Interim Staff Report Into Record and Seeking Comments</u> (Feb. 4, 2013)</p> <p>“The legislature set out the</p>	<p><u>Assigned Commissioner’s Ruling Proposing Storage Procurement Targets and Mechanisms and Noticing All-Party Meeting</u> (Jun. 10, 2013)</p> <p>“Consistent with AB 2514, the Commission’s energy storage procurement policy should be guided by three purposes:</p>	

<p>relevant benchmarks for 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)</p> <p>“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</p>	<p>1) The optimization of the grid, 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)</p> <p><u>D.13-10-040</u> (Oct. 17, 2013)</p> <p>“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)</p>	
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<p>with energy storage will be an 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)</p> <p><u>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)</u></p> <p>"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)</p>		
<p><u>3. Market Transformation</u></p> <p><u>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)</u></p> <p>"This proceeding should dismiss the notion that, since California has made a bit of</p>	<p><u>Assigned Commissioner's Ruling Proposing Storage Procurement Targets and Mechanisms and Noticing All-Party Meeting (Jun. 10, 2013)</u></p> <p>"This ACR suggests procurement targets for energy storage with the goal of market transformation." (p. 3)</p> <p><u>D.13-10-040 (Oct. 17, 2013)</u></p> <p>"With the goal of market transformation,</p>	

<p>progress in valuing these 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)</p> <p><u>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)</u></p> <p>“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</p>	<p>the Proposed Plan set procurement 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)</p> <p>"As explained below, we find that the procurement target levels set forth in the Proposed Plan are appropriate." (p. 22)</p>	
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<p>in the form of strict 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)</p>		
<p>4. <u>Cost-effectiveness</u></p> <p><u>Comments of Sierra Club California on Administrative Law Judge’s January 18, 2013 Ruling Entering Interim Staff Report Into Record and Seeking Comments</u> (Feb. 4, 2013)</p> <p>“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)</p> <p><u>Opening Comments of Sierra Club California and the California Environmental Justice Alliance on Assigned Commissioner’s Ruling Proposing Storage Procurement Targets and Mechanisms</u> (Jul. 3, 2013)</p> <p>“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</p>	<p><u>D.13-10-040</u> (Oct. 17, 2013)</p> <p>"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)</p> <p>“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)</p> <p>“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</p>	

<p>EPRI and KEMA cost-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)</p>	<p>this proceeding. In addition, while we 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)</p>	
<p><u>5. Pumped Hydro Storage</u> <u>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)</u> "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</p>	<p><u>Assigned Commissioner's Ruling Proposing Storage Procurement Targets and Mechanisms and Noticing All-Party Meeting (Jun. 10, 2013)</u> "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</p>	

<p>extensive environmental analysis. In addition, it raises a different set of procurement issues compared to other forms of storage.” (p. 6)</p> <p><u>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)</u></p> <p>“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)</p>	<p>deployed on a wider scale.” (pp. 4-5)</p> <p><u>D.13-10-040 (Oct. 17, 2013)</u></p> <p>“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)</p>	
<p>6. <u>Place of Energy Storage in the Loading Order</u></p> <p><u>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)</u></p> <p>Spending limited resources and time on this issue would become an unnecessary distraction from the core issue that need to be determined by</p>	<p><u>Assigned Commissioner’s Ruling Proposing Storage Procurement Targets and Mechanisms and Noticing All-Party Meeting (Jun. 10, 2013)</u></p> <p>“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)</p>	

<p>this proceeding: How much cost-effective energy storage should be targeted for implementation in the California electric grid? (p. 13)</p>	<p><u>D.13-10-040</u> (Oct. 17, 2013) “Consistent with D.13-05-015, we agree that the Loading Order should not be revised.” (p. 11)</p>	
<p><u>7. Coordination with Other Commission Proceedings</u></p> <p><u>Comments of Sierra Club California on Administrative Law Judge’s January 18, 2013 Ruling Entering Interim Staff Report Into Record and Seeking Comments</u> (Feb. 4, 2013)</p> <p>“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</p>	<p><u>D.13-10-040</u> (Oct. 17, 2013)</p> <p>“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)</p> <p><u>Assigned Commissioner’s Ruling Proposing Storage Procurement Targets and Mechanisms and Noticing All-Party Meeting</u> (Jun. 10, 2013)</p> <p>“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,</p>	

<p>nature of energy 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)</p>	<p>while moving forward with storage policy and deployment for the benefit of California.” (p. 6)</p>	
<p>8. <u>Procurement Mechanism</u> <u>Opening Comments of Sierra Club California and the California Environmental Justice Alliance on Assigned Commissioner’s Ruling Proposing Storage Procurement Targets and Mechanisms</u> (Jul. 3, 2013)</p> <p>“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)</p>	<p><u>D.13-10-040</u> (Oct. 17, 2013)</p> <p>“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)</p>	

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):

<p>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)</p> <p>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.</p> <p>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.</p>	<p>CPUC Verified</p>
<p>b. Reasonableness of Hours Claimed.</p> <p>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.</p> <p>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</p>	

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 Freehling. 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%)	
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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			
<i>Subtotal: \$ 148,019</i>						<i>Subtotal: \$</i>		
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]								
<i>Subtotal: \$</i>						<i>Subtotal: \$</i>		
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			
<i>Subtotal: \$2,724.75</i>						<i>Subtotal: \$</i>		

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

² This information may be obtained at: <http://www.calbar.ca.gov/>.

	Masters in Environmental Management from the Yale School of Forestry and 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 OF SIERRA CLUB AND DECISION ON INTERVENOR COMPENSATION CLAIM** by (check as appropriate):

hand delivery;
 first-class mail; and/or
 electronic mail

to the following persons appearing on the official Service List:

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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

Revised December 2013

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

Revised December 2013

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.

ffi 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.

ffi 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)

ffi 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)

ffi 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)

ffi 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)

ffi 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)

ffi 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.

ffi Hired and managed undergraduate interns for the Research & Policy Division.

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

ffi 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

Revised December 2013

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

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

Revised December 2013

Attachment 3:

Time Recording for Attorney's and Experts

Hours of William Rostov, Attorney in 2012 and 2013

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 newscoping 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; briefly review them		0.30							0.30
10/16/2012	Energy storage workshop; lunch with Mike Jacobs and Judi 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
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

Hours of William Rostov, Attorney in 2012 and 2013

Date	Description	A	B	C	D	E	F	G	H	Total
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; develop approach to comments		2.00							2.00
12/5/2012	Email Alok Gupta re: post effectiveness sub group			0.10						0.10
12/5/2012	review Alok 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

Hours of William Rostov, Attorney in 2012 and 2013

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 procurement 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 procurement targets				1.00					1.00
1/30/2013	Draft procurement section				0.80					0.80
1/31/2013	RV cost effective 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

Hours of William Rostov, Attorney in 2012 and 2013

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.Vespare 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 effectiveness 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	RAL 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 proceeding			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 Barsimantov 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 (arrive 15 minutes early)			5.00						5.00
3/29/2013	TCW R.Freehling re: energy storage economics and follow up email to him			0.30						0.30

Hours of William Rostov, Attorney in 2012 and 2013

Date	Description	A	B	C	D	E	F	G	H	Total
4/1/2013	Review slides from cost effectiveness workshop; prepare for call with expert; R email from Robert Freehling re: cost numbers; forward to James Barismantov			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 procurement targets			0.50	0.40					0.90
5/15/2013	TCW Don Liddell re: status of proceeding	0.40								0.40
6/4/2013	TCW Arthur O'Donnell re: case schedule and status	0.20								0.20
6/10/2013	TCW CBE attorneys re: collaboration 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
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

Hours of William Rostov, Attorney in 2012 and 2013

Date	Description	A	B	C	D	E	F	G	H	Total
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 party meeting;	2.50								2.50
6/25/2013	post All party 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 James Barismantov; draft part of section.				2.00					2.00

Hours of William Rostov, Attorney in 2012 and 2013

Date	Description	A	B	C	D	E	F	G	H	Total
6/26/2013	TCW James Barismantov re: cost effectiveness			0.20						0.20
6/26/2013	Incorporate pieces from experts on procurement targets; draft procurement target section				3.00					3.00
6/27/2013	Review cost effectiveness section; email with James Barismantov re: section			2.00						2.00
6/27/2013	Revise procurement 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 effectiveness 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 Comments and incorporate his edits; email to 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; incorporate 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 effectiveness 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
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

Hours of William Rostov, Attorney in 2012 and 2013

Date	Description	A	B	C	D	E	F	G	H	Total
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: ex parte with Melicia Charles	0.90								0.90
8/28/2013	Prepare for ex parte.; review our testimony 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 Clean Coalition re: energy storage PD	0.30								0.30
9/13/2013	Review PD based on conversation with CLEAN 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 issue and reduce time	1.50								
12/19/2013	Review hours, allocate by issue and reduce time	2.00								
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								

Hours of William Rostov, Attorney in 2012 and 2013

Date	Description	A	B	C	D	E	F	G	H	Total
	<u>TABLE OF ABBREVIATIONS:</u> <u>FOR ROSTOV TIMESHEET</u>									
OCW	Office call with									
R	Review									
RV	Revise									
TCW	Telephone call with									

Hours of James Barsimantov, Expert in 2013

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 effectiveness 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 (GHGs 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

Hours of James Barsimantov, Expert in 2013

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

Hours of Dustin Mulvaney, Expert in 2013

Date	Description	A	B	C	D	E	F	G	H	Total
User: Mulvaney										
3/13/2013	Reviewing case material, initial literature searches on cost effectiveness 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	Literature review & search: values for incidental benefits			1.00						1.00
4/22/2013	Literature 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

Hours of Robert Freehling, Expert in 2012 and 2013

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 procurement 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: exparte	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

Hours of Robert Freehling, Expert in 2012 and 2013

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

Hours of Adenike Adeyeye, Research Analyst in 2012 and 2013

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

Hours of Adenike Adeyeye, Research Analyst in 2012 and 2013

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, proofreading	1.50								
Total		10.90								

Total Hours

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%