

Decision _____

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Application of Southern California Edison Company (U338E) for Approval of its 2009-2011 Energy Efficiency Program Plans And Associated Public Goods Charge (PGC) And Procurement Funding Requests.	A. 08-07-021 (Filed July 21, 2008)
And related Matters.	A. 08-07-022 A. 08-07-023 A. 08-07-031 (Filed July 21, 2008)

CLAIM AND DECISION ON REQUEST FOR INTERVENOR COMPENSATION

Claimant(s): Natural Resources Defense Council	For contribution to D.11-07-030
Claimed (\$): \$13, 475.00	Awarded (\$):
Assigned Commissioner: Michael Florio	Assigned ALJ: Dave Gamson
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).	
Signature: /s/ Peter Miller	
Date: 9/12/11	Printed Name: Peter Miller

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

A. Brief Description of Decision:	This decision adopts modifications and clarifications regarding energy efficiency portfolios for 2010-2012 including resolution of remaining issues related to ex ante savings estimates.
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B. Claimant must satisfy intervenor compensation requirements set forth in Public Utilities Code §§ 1801-1812:

	Claimant	CPUC Verified
Timely filing of notice of intent to claim compensation (§ 1804(a)):		
1. Date of Prehearing Conference:	August 11, 2008	
2. Other Specified Date for NOI:	n/a	
3. Date NOI Filed:	September 10, 2008	
4. Was the notice of intent timely filed?		
Showing of customer or customer-related status (§ 1802(b)):		
5. Based on ALJ ruling issued in proceeding number:	R.09-08-009	
6. Date of ALJ ruling:	January 28, 2010	
7. Based on another CPUC determination (specify):		
8. Has the claimant demonstrated customer or customer-related status? Yes		
Showing of "significant financial hardship" (§ 1802(g)):		
9. Based on ALJ ruling issued in proceeding number:	See Part I.C #1	
10. Date of ALJ ruling:	See Part I.C #1	
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.11-07-030	
14. Date of Issuance of Final Decision:	July 14, 2011	
15. File date of compensation request:	September 12, 2011	
16. Was the request for compensation timely?		

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

#	Claimant	CPUC	Comment
1			While NRDC has repeatedly been found to show financial hardship, none of the findings are within the required one-year time frame of this claim. In NRDC's recent notices of intent to claim compensation in R.11-03-012 and A.11-05-017 et al., we provide our full bylaws and articles of incorporation and request a ruling of financial hardship. Here, we provide a link to the R.11-03-012 Notice

			to File Intervenor Compensation, filed August 22, 2011, which includes our full bylaws for reference. We are awaiting a ruling on NRDC's showing of financial hardship: http://docs.cpuc.ca.gov/efile/NOTICE/142492.pdf

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 final or record.)

Contribution	Citation to Decision or Record	Showing Accepted by CPUC
<p>1. Gross Realization Rate</p> <p>Energy Division (ED), with the support of TURN and DRA, recommended the application of a Gross Realization Rate (GRR) discount to all unreviewed custom measures. The specific values for the GRR recommended by ED shifted over the course of the proceeding, ranging from 0.6 to 0.8.</p> <p>NRDC argued against the application of a generic GRR for unreviewed projects, a position that was equivalent to a GRR of 1.0. In support of this position, NRDC argued that because there was no evidentiary support for the ED recommendation, imposition of the proposed GRR would be arbitrary and capricious. NRDC also argued that the proposed GRR would result in less accurate impact estimates and lower benefits to customers. While other parties also argued against the proposed GRR, NRDC highlighted the lack of evidentiary support which was cited by the Commission in support of resolution of this issue.</p> <p>The Commission ultimately adopted a GRR of 0.9 which was not recommended by any party, but was intermediate to the values recommended by ED/TURN/DRA and NRDC. While the Commission's adopted value of 0.9 was lower than that recommended by NRDC, the explanation of why the</p>	<p>"We will adopt a GRR of 0.90. While the Energy Division's determination of a 0.80 GRR was included in the E3 calculator as envisioned by D.09-09-047, and is in the record of this proceeding, there is no analytical support for this value in the record beyond the reference to the E3 calculator." (D.11-07-030, p.37)</p>	

<p>ED/DRA/TURN values were not adopted relied on arguments put forward by NRDC.</p> <p><i>(Case Management Statement, p.27-28)</i></p> <p><i>(NRDC Comments on PD, p. 9)</i></p> <p><i>(NRDC Reply Comments on PD, p. 2)</i></p>		
<p>2. Baseline</p> <p>Energy Division (ED) recommended that a “dual baseline” calculation be utilized for cost effectiveness calculations as well as utility annual and cumulative savings reporting. ED also proposed that the baseline calculation assume no remaining useful life for replaced equipment, unless there was compelling evidence to the contrary.</p> <p>NRDC argued in support of the dual baseline approach recommended by ED. However, NRDC opposed the proposal to assume no remaining useful life absent compelling evidence to contrary. NRDC instead recommended that the Commission adopt a balanced approach designed to provide an accurate estimate of savings that is reflective of current market conditions.</p> <p>The Commission adopted NRDC’s recommendation and specifically cited NRDC’s advocacy in adopting this policy.</p> <p><i>(Case Management Statement, p.17 & 34)</i></p> <p><i>(NRDC Comments on PD, p. 9)</i></p>	<p>“We agree with NRDC and the utilities that the compelling evidence determination in the Energy Division Methodology for Determination of Baseline for Gross Savings Estimate flow chart diagram (Appendix I in the Custom Review Process document) appears to be one-sided. We clarify that the compelling evidence determination applies both ways. There needs to be compelling evidence to determine whether a project is ‘replace on burnout’ or ‘early retirement’.” (D11-07-030, p.41)</p>	
<p>3. DEER 2008.2.05</p> <p>Energy Division recommended that the utilities should use measure-specific NTGR values from the 2006-08 EM&V studies rather than values provided in DEER 2008.2.05.</p> <p>NRDC disagreed with ED’s recommendation and argued that Commission policy adopted in D.09-09-047 required the use of NTGR values in DEER 2008.2.05 regardless of whether more recent values were available.</p> <p>The Commission agreed with NRDC and directed utilities to use the NTGR values in DEER 2008.2.05.</p>	<p>“In D.10-012-054, we adopted DEER 2008.2.05. That decision modified D.09-09-047 specifically to clarify the appropriate DEER dataset to use for the 2010-2012 portfolio. The adopted DEER dataset includes specified or default NTG ratio values for all energy efficiency measures. We will not change this determination here.” (D.11-07-030, p.18)</p> <p>“D.10-12-054 adopted 2008 DEER version 2.05, including net-to-gross ratio values. Therefore, the adopted net-to-gross ratio values in the 2008 DEER version 2.05 should be used for determining ex ante values for the 2010-2012 energy efficiency portfolios.” (D.11-</p>	

<p>(Case Management Statement, p. 5) (NRDC Comments on PD, p. 4)</p>	<p>07-030, p.46)</p>	
<p>4. ED Record Keeping</p> <p>Energy Division’s proposed review process for custom measures included a set of record-keeping requirements for the utilities to ensure that records of impact estimates were complete and accessible.</p> <p>Because Energy Division would be developing its own set of impact estimates for a subset of custom projects, NRDC recommended that Energy Division should also be responsible for effective record keeping and documentation of its analyses and recommended changes to savings calculations.</p> <p>The Commission adopted NRDC’s recommendation and directed Energy Division to maintain a publicly accessible database of its custom project reviews and decisions.</p> <p>(Case Management Statement, p. 37-8) (NRDC Comments on PD, p. 4)</p>	<p>“We agree with parties that a public archive should be available for stakeholders to access Energy Division’s project review comments and lessons learned. We will require Energy Division to maintain a public archive database with a summary of issues identified in its custom applications and projects reviews, and the Energy Division dispositions of those issues.” (D11-07-030, p.40-41)</p>	

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

	Claimant	CPUC Verified
a. Was DRA a party to the proceeding? (Y/N)	Yes	
b. Were there other parties to the proceeding? (Y/N)	Yes	
c. If so, provide name of other parties:	PG&E, SCE, SDG&E, Southern California Gas, The Utility Reform Network, EnerNOC, NAESCO, Women’s Energy Matters, Small Business California, Global Energy Partners, and Ecology Action.	
d. Describe how you coordinated with DRA and other parties to avoid duplication or how your participation supplemented, complemented, or contributed to that of another party:	NRDC is the only consistently active environmental organization in A.08-07-021 et al.,	

focusing mainly on the environmental perspective to maximize overall cost-effective energy savings and ensuring that customers will benefit from the most comprehensive set of energy savings options possible. When possible, NRDC worked cooperatively with other parties to address as many concerns as feasible prior to submitting our comments. We participated in scheduled workshops and minimized our participation in cases where our concerns were adequately represented by other parties. For example, following a brief review of the draft reply from EnerNOC to the DRA motion, we chose to cosign the joint reply rather than draft our own reply which would have largely covered the same issues. Furthermore, NRDC worked closely with other parties in the development of the Case Management Statement to ensure that whichever issues could be resolved were done so before the submission of the final report.

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

#	Claimant	CPUC	Comment

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

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

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)	CPUC Verified
<p>Throughout A.08-07-021 (and during the past 30 years of participation in CPUC proceedings) NRDC has advocated for policies that support programs to maximize cost-effective energy efficiency. NRDC’s continued focus in this and other proceedings on policies that ensure a reliable, affordable and environmentally sustainable energy resource portfolio should have lasting benefits to billpayers. NRDC contributed substantially to the resolution of the outstanding issues addressed in D.11-09-030, which will allow the utilities to carry out a significant portion of their energy efficiency portfolio previously on hold in anticipation of this decision.</p> <p>If the utilities meet the energy savings goals as adopted by D.09-09-047, we estimate savings from 2010-2012 will reduce greenhouse gas emissions by approximately 3 million metric tons of carbon dioxide (also noted in the CPUC Press Release on September 24, 2009), equivalent to the emissions from nearly 600,000 cars a year, an important contribution to meeting the state’s 2020 greenhouse gas emissions limit required by Assembly Bill 32, the Global Warming Solutions Act of 2006. Moreover, D.09-09-047 notes on p.4 that the peak savings will reach above 1500 MW, which avoids the construction of 3 large (500 MW) power plants. Assuming a cost of \$30/ton, savings to customers would total an estimated \$90 million in avoided regulatory costs due to reductions in GHG emissions alone. In addition, if the energy efficiency goals are met, the energy savings will produce \$1 billion in net benefits, benefits to customers <i>after</i> accounting for the cost of the programs. Specifically to this claim, the programs affected by D.11-07-030 make up over a third of the portfolio net benefits and</p>	

therefore our contribution to ensure effective policies to support implementation of these programs will provide direct monetary and environmental benefits to California billpayers.

NRDC maintained detailed time records indicating the number of hours that were devoted to proceeding activities. All hours represent substantive work related to this proceeding. The amounts claimed are conservative. Other NRDC staff members were consulted regularly, but none of their hours are claimed here. In addition, hours were only included for formal meetings and key tasks, while other hours (such as time spent on brief tasks like phone calls and emails) were omitted from this claim.

The rates requested by NRDC are purposely low, well within the ranges approved by the Commission, and not only reflect rates below market for expertise at similar levels, but also well below other requests received by the Commission.

In sum, NRDC made numerous and significant contributions to D.11-07-030. Our consistent engagement ensured that the environmental perspective was adequately represented and we worked with other stakeholders whenever possible to minimize duplication. Our work was efficient, our hours conservative, and our billing rates low. For these reasons, our request should be granted in full.

B. Specific Claim:

CLAIMED						CPUC AWARD			
ATTORNEY AND ADVOCATE FEES									
Item	Year	Hours	Rate \$	Basis for Rate*	Total \$	Year	Hours	Rate \$	Total \$
n/a	n/a	n/a	n/a	n/a	n/a				
<i>Subtotal:</i>					<i>n/a</i>	<i>Subtotal:</i>			
EXPERT FEES									
Item	Year	Hours	Rate \$	Basis for Rate*	Total \$	Year	Hours	Rate \$	Total \$
Peter Miller	2011	46	\$275	Res ALJ-267	\$ 12,650				
<i>Subtotal:</i>					\$12,650	<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 \$	Year	Hours	Rate \$	Total \$
n/a	n/a	n/a	n/a	n/a	n/a				
<i>Subtotal:</i>					<i>n/a</i>	<i>Subtotal:</i>			

INTERVENOR COMPENSATION CLAIM PREPARATION **									
Item	Year	Hours	Rate \$	Basis for Rate*	Total \$	Year	Hours	Rate \$	Total \$
Peter Miller	2011	6	\$ 137.50	Half of rate claimed above; Res ALJ-267	\$825.00				
<i>Subtotal:</i>					\$825.00	<i>Subtotal:</i>			
COSTS									
#	Item	Detail			Amount	Amount			
	n/a	n/a			n/a				
<i>Subtotal:</i>					n/a	<i>Subtotal:</i>			
TOTAL REQUEST \$:					\$13,475	TOTAL AWARD \$:			
<p>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. **Reasonable claim preparation time typically compensated at ½ of preparer's normal hourly rate.</p>									

C. Attachments or Comments Documenting Specific Claim (Claimant completes; attachments not attached to final Decision):

Attachment or Comment #	Description/Comment
1	Certificate of Service
2	A list of relevant NRDC documents in A.08-07-021 for this request.
3	Staff time records for Peter Miller
4	Peter Miller's resume
Comment 1	<p>Rationale for Peter Miller's hourly rates:</p> <p>The rate proposed for Peter Miller is in the middle of the range adopted in Res ALJ-267 for experts with 13 years of experience for 2011 (\$155-390). Peter is a Senior Scientist at NRDC focusing on renewable energy, energy efficiency, and climate policies. He has worked on energy and environmental policy for 25 years. Mr. Miller is currently a board member of the Climate Action Reserve and has served on the California Board for Energy Efficiency, as well as both Independent Review Panels evaluating the Public Interest Energy Research program at the California Energy Commission. Mr. Miller has participated in utility advisory committees in California, Hawaii, and the Pacific Northwest, in numerous proceedings before the California Energy Commission, the California Public Utilities Commission, the California Air Resources Board, and the Northwest</p>

	Power Planning Council, and in rulemakings before the U.S. Department of Energy. Mr. Miller served on the California Board for Energy Efficiency from April 1997 to January 2000. Mr. Miller holds a Physics degree from Reed College and a Master's degree from Dartmouth College. Mr. Miller is also PhD candidate in Environmental Planning with a focus on conservation planning and climate change.
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D. CPUC Disallowances & Adjustments (CPUC completes):

#	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 (Y/N)?

If so:

Party	Reason for Opposition	CPUC Disposition

B. Comment Period: Was the 30-day comment period waived (see Rule 14.6(c)(6)) (Y/N)?

If not:

Party	Comment	CPUC Disposition

FINDINGS OF FACT

1. Claimant [has/has not] made a substantial contribution to Decision (D.) _____.
2. The claimed fees and costs [, as adjusted herein,] are comparable to market rates paid to experts and advocates having comparable training and experience and offering similar services.

3. 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 Public Utilities 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. Payment of the award shall include interest at the rate earned on prime, three-month commercial paper as reported in Federal Reserve Statistical Release H.15, beginning _____, 200__, 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/these] proceeding[s] [is/are] closed.
5. This decision is effective today.

Dated _____, at San Francisco, California.

**Attachment 1
Certificate of Service**

I hereby certify that I have this day served a copy of the foregoing **CLAIM AND ORDER ON REQUEST FOR INTERVENOR COMPENSATION** 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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Executed this 15th day of September, 2011, at Oakland, California.



Shari Walker
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ATTACHMENT 2
RELEVANT DOCUMENTS SUBMITTED BY NRDC

Date	Document Title
February 18, 2011	NRDC Case Management Statement (CMS)
May 16, 2011	NRDC Comments on Proposed Decision of ALJ Gamson
May 23, 2011	NRDC Reply Comments on Proposed Decision of ALJ Gamson
May 24, 2011	NRDC Ex Parte Notice - Carol Brown
May 27, 2011	NRDC Ex Parte Notice - Michael Colvin
June 6, 2011	NRDC Ex Parte Notice - Matthew Tisdale
June 24, 2011	NRDC NAESCO EnerNOC & GEP Joint Response to DRA Motion

ATTACHMENT 3

NRDC STAFF TIME RECORDS - Peter Miller

CPUC Intervenor Compensation Program					
Submitted by: Peter Miller					
Proceeding No.: A.08-07-021 et al.					
Date of Submission: September 12, 2011					
ATTORNEY, EXPERT, AND ADVOCATE FEES					
Item	Year	Hours	Rate \$	Basis for Rate*	Total
Peter Miller	2011	46	275	Res ALJ-267	\$ 12,650
				Subtotal:	\$ 12,650
OTHER FEES (e.g., paralegal, travel**, etc.)					
Item	Year	Hours	Rate \$	Basis for Rate*	Total
n/a					
				Subtotal:	
INTERVENOR COMPENSATION CLAIM PREPARATION**					
Item	Year	Hours	Rate \$	Basis for Rate*	Total
Peter Miller	2011	6	137.50	Res ALJ-267	\$ 825.00
				Subtotal:	\$ 825.00
COSTS					
Item	Detail				Total
n/a	n/a				n/a
				Subtotal:	
				TOTAL REQUEST:	\$ 13,475

NRDC INTERVENOR COMPENSATION REQUEST PREPARATION

Date	Description	Total Hours	Rate (\$/hr)	Total Requested
Intervenor Comp Prep				
August 25, 2011	Review of issues and NRDC contribution to final decision	1.5	137.50	\$206..25
September 7, 2011	Prepare draft of intervenor compensation request for review.	3.5	137.50	\$481.25
September 12, 2011	Finalize intervenor compensation request	1	137.50	\$137.50
			subtotal for IC prep	\$ 825.00

**NRDC Contribution to D.11-07-030
Peter Miller, 2011**

Date	Issue Area	Description	Total Hours
1/3/2011	Ex Ante Values	Prep for workshop on custom and non-DEER ex ante measures. Review draft ED review process and relevant Commission decisions	1.5
1/4/11	Ex Ante Values	Attend and participate in workshop	7.5
1/13/11	Ex Ante Values	Prepare for second workshop on custom and non-DEER ex ante measures.	1
1/14/11	Ex Ante Values	Attend and participate in workshop (located in LA)	7
01/14/11	Ex Ante Values	Travel to/from second workshop (in L.A.)	5
01/24/11	Ex Ante Values	Close read of ED revised proposed review process. Compilation of initial draft of points to include in comments	2
02/10/11	Ex Ante Values	Drafting NRDC comments and proposed alternative review process for Case Management Statement	5.5
05/04/11	Ex Ante Values	Read PD. Draft initial outline of comments.	1.5
05/05/11	Ex Ante Values	Read and integrate NRDC staff comments on initial outline and prepare first draft of comments (e.g., at least 3 staff provided substantive review of the initial outline that required incorporation into the draft)	2.5
05/11/11	Ex Ante Values	Revise and expand first draft of comments with additional arguments and necessary context.	2
05/13/11	Ex Ante Values	Revise and expand draft comments. Complete and circulate second draft to NRDC staff. Staff comments consisted of substantive changes to the rationale of argument and past policy support as well as new policy positions developed in response to conversations with other stakeholders and CPUC staff.	1.5
05/16/11	Ex Ante Values	Edit and finalize comments.	2
05/22/11	Ex Ante Values	Read comments of other parties. Draft reply comments.	3
06/05/11	Ex Ante Values	Draft oral comments for all-party meeting.	2
06/06/11	Ex Ante Values	Attend and participate in all-party meeting	2
PM A.08-07-021 et al., D.11-07-030 Total 2011 Hours			46

Attachment 4

Peter M. Miller

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Summary of Qualifications

- Senior scientist with 25 years experience in environmental field.
- Expertise in developing innovative strategies integrating science and policy.
- Extensive experience with environmental research, legislation, litigation, and regulation.
- Team leader and collaborator with private, non-profit, and public organizations.
- International, national, regional, and local project experience.
- Significant communications record including publications, presentations, and testimony.
- Ph.D. research at U.C. Berkeley on conservation planning and climate change.

Professional Experience

Senior Scientist

1990-2005 & 2008-present

Natural Resources Defense Council, San Francisco, CA

Conducted research, developed analyses, and employed multi-pronged advocacy in support of sustainable energy development and greenhouse gas emissions reductions. Areas of expertise include utility incentive regulation, energy efficiency, carbon accounting and offsets, measurement and evaluation, renewable energy, demand forecasting, energy planning, and appliance standards and building codes.

- Represented NRDC in multi-party legislative negotiation creating California Climate Action Registry (CCAR). Gubernatorial appointment to CCAR board from 2002 to 2005. Board member of renamed Climate Action Reserve from 2008 to present.
- Appointed by CA Public Utilities Commission as environmental representative to statewide panel (CBEE) overseeing nearly \$1 billion energy efficiency program.
- Member of successful NRDC team effort to pass landmark legislation to reduce greenhouse gas emissions from passenger vehicles in California. Contributed to legislative drafting and lobbying and testified before two key legislative committees.
- Twice appointed by CA governor to statewide panel to review and report to legislature on \$62.5 million/year California Public Interest Energy Research Program.

- Represented NRDC in regulatory proceedings before CA Public Utilities Commission to design and implement regulatory framework to create incentives for utility investment in energy efficiency.
- Collaborated with Lawrence Berkeley National Lab scientists to raise funds and field test low-cost water disinfection technology in South Africa.
- Managed buildings sector analysis of national study of greenhouse gas reductions.
- Designed and managed studies to estimate energy and economic impacts of CA utility programs and to identify new and promising energy technologies.
- Extensive communications record including published articles in leading journals, presentations at conferences, and testimony before national and state regulatory and legislative bodies.

Independent Consultant

2006-2008

Natural Resources Defense Council, San Francisco, CA

Developed and submitted proposal for AB32 forest sector strategy. Represented NRDC in AB32 mandatory reporting proceeding. Participated in development of carbon offsets policy. Represented NRDC on CCAR board. Supported advocacy in CPUC proceedings on energy efficiency incentives, measurement and evaluation, and long-term planning.

Hawaiian Electric Company (HECO), Honolulu, HI

Coordinated development of joint HECO-NRDC environmental biodiesel sourcing policy designed to allow HECO to transition away from current consumption of 100 million gallons/year of petroleum diesel. Researched issues, prepared draft policy, integrated comments of stakeholders, coordinated review of academic panel, prepared final policy, and supported presentation of policy in Hawai'i.

Energy Analyst

1989-90

Environmental Defense Fund, Washington, D.C.

Conducted research, analysis, and advocacy of potential for energy efficiency to reduce tropical deforestation and global climate change. Collaborated with NGOs in Brazil and India. Evaluated and reported on World Bank energy sector loans.

Education

University of California, Berkeley

2002 - 2007

Ph.D. candidate, environmental planning
 Research interests: Conservation planning, climate change, river restoration
 Three-year University fellowship

Dartmouth College

1982-84

Master of Science, Resource Systems and Policy Design, 1984
 Thayer School of Engineering Fellowship, 1982 - 84
 Coursework: Simulation modeling, resource economics, statistics.

Reed College

1979-81

Bachelor of Arts, physics, 1981

Appointments and Honors

Boardmember, Climate Action Reserve (CAR)	2001 – 05 and 2008-present
Member, CA Public Interest Energy Research (PIER) Independent Review Panel	2003 - 2005
Boardmember, California Board for Energy Efficiency	1997 - 2000
Member, California Public Interest Energy Research (PIER) Advisory Committee	1999 – 2000

Personal Interests and Hobbies

Hiking, camping, gardening, travel and skiing. **Selected Publications**

“Environmental Policy for the Hawaiian Electric Company’s Procurement of Biodiesel from Palm Oil and Locally-Grown Feedstocks,” On behalf of HECO and NRDC, 2007

“Conservation planning for Pacific salmon in a changing climate,” (poster) Society for Conservation Biology, 20th Annual Meeting, San Jose, CA 2006

“Channel response to dam removal, Clear Creek, California,” Third Biennial Calfed Science Conference, Sacramento, CA 2004 (with G. M. Kondolf)

“Channel response to dam removal, Clear Creek, California,” (poster) American Geophysical Union Fall Meeting, San Francisco, CA 2003 (with G. M. Kondolf)

“Restructuring DSM: Moving Beyond the Utility Monopoly on DSM Resource Acquisition.” Proceedings of the 1998 ACEEE Summer Study on Energy Efficiency in Buildings. American Council for an Energy Efficient Economy, Washington, DC. 1998, Vol. 6, pp. 129-139.

“Wheat, Chaff, and Conflicting Definitions in Market Transformation.” Proceedings of the 1998 ACEEE Summer Study on Energy Efficiency in Buildings. American Council for an Energy Efficient Economy, Washington, DC. 1998, Vol. 7, pp. 157-169 (with D. Goldstein, T. Eckman, and K. Keating).

“Low-Cost UV Disinfection System for Developing Countries: Field Tests in South Africa.” Presented at the First International Symposium on Safe Drinking Water in Small Systems, May 10-13, 1998, Washington, DC (with A. Gadgil, D. Greene, A. Drescher, and N. Kibata). Published in Providing Safe Drinking Water in Small Communities: Technology, Operations and Economics. Edited by J. A. Cotruvo, G. F. Craun and N. Hearn. New York: Lewis Publishers, 1998.

“Field-testing UV Disinfection of Drinking Water.” Proceedings of the 23rd WEDC Conference “Water and Sanitation for All,” September 1-5, 1997, Durban, South Africa (with A. Gadgil, A. Drescher, D. Greene, C. Motau, and F. Stevens).

“Saving Energy in Homes and Offices.” Energy Innovations: A Prosperous Path to a Clean Environment. Washington, DC: Alliance to Save Energy, American Council for an Energy-Efficient Economy, Natural Resources Defense Council, and Union of Concerned Scientists, 1997 (with A. Chen, R. Mowris, M. Duckworth, and H. Geller).

“The future of DSM in a restructured US electricity industry.” Energy Policy, Vol. 24, No. 4, pp. 303-315, 1996 (with E. Hirst and R. Cavanagh).

“The Price of Mobility: Uncovering the Hidden Costs of Transportation.” Natural Resources Defense Council. San Francisco, CA. 1993 (with J. Moffet).

“America’s Energy Choices: Investing in a Strong Economy and a Clean Environment.” Union of Concerned Scientists, Cambridge, MA. 1991. (Major contributor with others from the Alliance to Save Energy, American Council for an Energy-Efficient Economy, Natural Resources Defense Council, and Union of Concerned Scientists in Consultation with the Tellus Institute).

“Options for Reducing Greenhouse Gas Emissions.” Contributor and assistant to the editor. Stockholm Environment Institute, Stockholm, Sweden. 1990.

“The Energy Efficiency Alternative to the Sardar Sarovar Dam.” Environmental Defense. Washington, D.C. 1989

“The Potential for Electricity Conservation in New York State.” New York State Energy Research and Development Authority Report 89-12. Washington, DC: American Council for an Energy Efficient Economy, September 1989 (with J. Eto and H. S. Geller).

“An Analysis of the Impacts of Energy Conservation on Sulfur Emissions Reduction Programs for Ohio Electric Utilities.” Columbus, OH: Office of the Ohio Consumers’ Counsel, June 1988 (with E. Miller and H. Geller).

“Testimony of the Natural Resources Defense Council Before the United States Senate Committee on Energy and Natural Resources, Subcommittee on Energy Regulation and Conservation, in Support of S. 2167 ‘The National Appliance Energy Conservation Amendments of 1988.’” Washington, DC: Natural Resources Defense Council, March 29, 1988 (with D. Goldstein and R. Watson).

“Acid Rain and Energy Conservation.” American Council for an Energy Efficient Economy, Washington, DC. June 1987 (with H. Geller and others).

“The Standardization and Improvement of Electrical Equipment Efficiencies in Pakistan’s Commercial and Industrial Sectors.” deLucia and Associates, Cambridge, MA. December 1986.

“Developing Cost Curves for Conserved Energy in New Refrigerators and Freezers,” presented at the ACEEE 1986 Summer Study on Energy Efficiency in Buildings.

American Council for an Energy Efficient Economy, Washington, DC. August 1986 (with D. Goldstein).

“Massachusetts Appliance Efficiency Standards.” Natural Resources Defense Council, San Francisco, CA. July 1986.

“Testimony of Peter Miller on Appliance and Building Standards Before the Ontario Select Committee on Energy.” Toronto, Ontario, April 1986.

“A Conservation Power Plant in PG&E’s Residential Sector: Phase 1 - Technology Assessments and Scenarios Analysis.” Washington, DC: ACEEE, October 1985 (with H. Geller and others).

“Genetic Engineering and Public Policy: A New Animal on the Farm.” Hanover, NH: Thayer School of Engineering, Resource Policy Center, June 20, 1984 (Master’s thesis).

“The Ball Bearing Motor.” Portland, OR: Reed College, May 28, 1981 (Bachelor’s thesis).