

## I. TABLE OF SELECTED LIST OF SERA SUSTAINABLE PROGRAM CLIENTS

<b>SERA SUSTAINABILITY PROJECT EXPERIENCE</b>		
<i>Type of Project</i>	<i>Clients</i>	<b>Project Assignments</b>
Zero Waste	Boulder County, CO Anchorage, AK Alameda County, CA Superior, CO Boulder, CO Boulder County, CO Seattle, WA Superior, CO	<ul style="list-style-type: none"> <li>• Impacts, costs, GHG, and other effects from Zero Waste programs / plan</li> <li>• Zero Waste plan, providing program options for City to achieve recently-adopted zero waste goal; detailed model prepared</li> <li>• Assessment of source reduction options for commercial businesses to develop program for moving toward County's zero waste goal; included detailed model</li> <li>• Staffed Zero Waste special town events</li> <li>• Task force to develop zero waste plan for city</li> <li>• Task force to develop zero waste plan for County</li> <li>• Detailed multi-resource audit program assessment (commercial businesses integrating waste, energy, and water audits)</li> <li>• Conducted detailed commercial audits focusing on waste reduction, energy conservation, and water conservation for businesses across town</li> </ul>
Source Reduction Measurement, Assessment, Hard to Measure Effects, Education and outreach	Alameda StopWaste ACEEE, SWEEP, ECEEE California Communities Alameda County, CA Portland Metro Multiclient Study Alameda County Alameda County Reason Foundation Ft. Collins, CU-Boulder, Other Iowa DNR / multiclient Superior, CO Fort Collins, CO Superior, Boulder, Green Campus, W. Jordan (UT)	<ul style="list-style-type: none"> <li>• Recommended Measurement / tracking options</li> <li>• Assessment of social marketing, attitudes, and advanced topics/strategies in education and outreach</li> <li>• Measuring impacts of sustainability initiatives</li> <li>• Methods to measure comm'l waste prevention options</li> <li>• Methods for measuring home composting</li> <li>• Measuring source reduction, analysis of PAYT programs, benefit cost analysis and payback</li> <li>• Measuring source reduction in commercial sector / model</li> <li>• Waste prevention library</li> <li>• Analysis of techniques for measuring source reduction</li> <li>• Waste prevention and diversion programs analysis (tons &amp; costs) and recommendations to reach goals</li> <li>• Measuring impacts of education / outreach programs</li> <li>• Measuring Non-monetary impacts from diversion programs</li> <li>• Willingness to pay for diversion &amp; SR programs</li> <li>• Effects of "self-efficacy" / CBSM on diversion program participation</li> </ul>
Environmental and Economic Benefits, Migration studies, economic analysis and other work	Marin County, CA National Superior, CO NRC, UK client Alameda County Portland Metro National Ohio Iowa Multi-client	<ul style="list-style-type: none"> <li>• Impacts and recommendations for energy, water, and other programs for sustainability / carbon footprint</li> <li>• Cost and GHG impacts of recycling programs vs. energy, water, and transportation initiatives</li> <li>• Investigated LEEDS and other ranking and certification programs</li> <li>• Nationwide literature search for web library</li> <li>• Nationwide literature search for web library</li> <li>• Nationwide literature search on BY composting research</li> <li>• Environmental (GHG)and other benefits from PAYT / VR</li> <li>• GHG reductions from PAYT / VR</li> <li>• Bottle bill analysis</li> <li>• Evaluating impacts of different types of PAYT/VR</li> </ul>

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	Iowa  State of Mass City/County of Honolulu International Client Snohomish Co., WA WA Dept of Ecology Summit-Akron  Multiple clients TNRCC; CRRA Seattle, WA  Seattle; Easttown, PA Multiple  Multiple Snohomish Co. WA, Santa Clarita, CA CWC, NRC, WSRA Seattle, multiple	systems and of rate differential levels on diversion <ul style="list-style-type: none"> <li>• Evaluating impacts of education expenditures on recycling; optimal education design/levels</li> <li>• Environmental and economic benefits of recycling</li> <li>• Environmental and economic benefits of recycling</li> <li>• Garbage By the Pound analysis/ weight based rate</li> <li>• Waste Migration analysis; tonnage at risk</li> <li>• Industrial solid waste survey and regulatory review</li> <li>• Alternatives to flow control, economic evaluation of options</li> <li>• Measuring Source Reduction</li> <li>• Economic alternatives to flow control</li> <li>• Computer program mapping collection misses/generate hauler work orders</li> <li>• Assistance in preparing RFPs, evaluation procedures</li> <li>• Biannual count of communities with variable rates/analysis</li> <li>• Annual survey of variable rates legislation at state level</li> <li>• Illegal dumping/experience/strategies/case studies</li> <li>• Waste Sort Analysis</li> <li>• Survey/committees/workshops on future of recycling</li> <li>• Joint comm'l/res recycling/water/energy etc. audits</li> </ul>
Environmental, Avoided Cost, Emissions, Valuation, Benefit/Cost	ACEEE Paper  Marin County, CA Reason Found.  WA DO Ecol. OR PUC/PGE N/E/R/A BPA  BPA  WA DO Ecol. Delmarva PG&E BPA DO Energy  DO Energy	<ul style="list-style-type: none"> <li>• Detailed research to develop multipliers and relationships to estimate values from environmental / emissions and economic multiplier impacts from DSM programs; research on differences by program type, territory</li> <li>• Modeling environmental impacts and carbon footprint reductions from integrated programs in energy, water, and other.</li> <li>• Detailed analysis of alternative market-based strategies for reducing emissions in Houston/Galveston area</li> <li>• Power related environmental and emissions effects</li> <li>• Witness for marginal cost pricing for T&amp;D &amp; marginal cost studies for filings</li> <li>• White paper on electric system reliability</li> <li>• Estimated and valued health and damage effects from BPA power plant emissions</li> <li>• Developed weighting factors for environmental effects from new generation options for power procurement process</li> <li>• Valuing power-related environmental externalities, power plant emissions</li> <li>• Least cost / integrated planning and avoided / environmental cost work</li> <li>• Value of environmental benefits of variety of energy conservation programs</li> <li>• C/B analysis for coal plant operation</li> <li>• Input/output model analysis of impacts of national appliance efficiency standards</li> <li>• Analysis of potential for reprocessing nuclear materials</li> </ul>

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DSM Program Evaluation, Process and Impact, Potential Studies, Integrated Planning	Marin County, CA Alliance to Save Energy MEEA BCHydro Energy Center of Wisconsin ACEEE paper  BPA	<ul style="list-style-type: none"> <li>• Evaluation of Energy efficiency and other programs to reduce carbon footprint</li> <li>• Evaluation of 6-campus program, including process, impact NEB, and NTG analysis</li> <li>• Conservation market potential project</li> <li>• Conservation technical and economic potential study</li> <li>• Process interviews and assessment of integration of High Performance design into offices &amp; schools</li> <li>• Detailed assessment of evaluations of conservation education studies / estimation of impacts of self-efficacy &amp; community-based social marketing</li> <li>• Energy Smart Design Assistance Program (multiple years)</li> </ul>
Market Barriers, Market Transformation, Market Characterization, "Best Practices", Performance Contracting, Tracking	NYSERDA Xcel Energy NYSERDA	<ul style="list-style-type: none"> <li>• R&amp;D/renewables programs</li> <li>• Evaluation of CFLs – results, lit review, best practices</li> <li>• Incremental cost analysis for broad array of EE measures</li> </ul>
Survey and Market Research	Alliance to Save Energy NYSERDA	<ul style="list-style-type: none"> <li>• Detailed surveys of residence halls students on program awareness, adoption, program attribution</li> <li>• NEB surveys for renewables, residential, and commercial programs (including new construction)</li> </ul>