Author Index

volun	ne.Page	Volum	e.Page
Adams, Susan D. Battery Storage: A Novel Approach to Building Electricity Management Energetics, Inc.	3.120	Anderson, Jr., Milo O. Measured Energy Savings from Foundation Insulation in Minneapolis Single Family Homes	1.118
9210 Route 108 Columbia, MD 21045 (301) 992 4000		Minneapolis Energy Office Room 330 City Hall Minneapolis, MN 55415	
Akbari, Hashem The Impact of Summer Heat Islands on Cooling Energy Consumption and CO2 Emmissions	5.11	(612) 348 6829 Bachman, Ann Demand Management Development De-	6.89
An Algorithm to Disaggregate Commercial Whole-Building Hourly Electrical Load into End Uses	10.13	cision Matrix for Low-Income/Special Needs Customers: A Program Ranking and Marketing Tool	· ·
Lawrence Berkeley Laboratory B90H One Cyclotron Road Berkeley, CA 94720		Technical Development Corporation 11 Beacon Street Boston, MA 02108 (617) 523 7557	
(415) 486 4557 Alereza, Rosy Energy Consumption by Computers and Miscellaneous Equipment in Commercial Buildings	3.169	Baker, Michael Alternative Approaches to End-Use Metering in the Commercial Sector: The Design of Pacific Gas and Electric Company's Commercial End-Use Meter-	10.27
California Energy Commission MS 22 1516 9th Street Sacramento, CA 95814 (916) 324 3109		ing Project Baker, Reiter & Assoc. Suite 410 2323 Eastlake Ave E. Seattle, WA 98102	
Alereza, Taghi		(206) 328 0100	٠
Costing Analysis of Design Options for Residential Appliances and Space Con- ditioning Equipment	4.66	Bamberger, Judith Ann Comparison of the Performance and Energy Savings Potential of Heat Pump,	4.11
Conservation and Appliance Technology Options for Commercial Buildings	3.15 Solar, and Conventional V in the Pacific Northwest	Solar, and Conventional Water Heaters in the Pacific Northwest	
Cost Efficiency Analysis of Design Options to Improve the Energy Efficiency of Refrigerator-Freezers and Freezers	4.119	Pacific Northwest Laboratory MS K2-01 P.O. Box 999	
ADM Associates, Inc. 3299 Ramos Circle Sacramento, CA 95827 (916) 363 8383	. •.	Richland, WA 99352 (509) 375 3898	

Barron, James J.		Bernard, III, Martin J.	
An Agenda for Cooperative R & D in Advanced, Energy Efficient Housing	1.11	Events The Third Variable in Daily Household Energy Consumption	11.11
New York State Energy Research & Development Authority 2 Rockefeller Plaza Albany, NY 12223 (518) 465 6251		Argonne National Laboratory 9700 S. Cass Ave. Argonne, IL 60439 (312) 972 3738	
Baylon, David A. Use of Commercial Energy Efficiency Measure Service Life Estimates in Pro-	3.83	Birdsall, Bruce E. An Estimate of Aggregate Energy Savings due to the DOE Institutional Con-	9.9
gram and Resource Planning Energy Efficiency Decision-Making in	6.75	servation Program Lawrence Berkeley Laboratory Bldg 90-3147	
Chains and Franchises Methodology and Results of Blower Door Testing in Small Multi-Family	2.11	One Cyclotron Road Berkeley, CA 94720 (415) 486 4890	
Buildings Ecotope, Inc.		Birnbaum, ira System Load Impacts of Demand-Side	8.168
2812 E. Madison Seattle, WA 98112 (206) 322 3753		Management at a Municipal Utility City of Austin Electric	555
Bellamy, Jim Energy Efficient New Buildings Through a Utility Service Standard	5.24	Utility Department P.O. Box 1088 Austin, TX 78767 (512) 499 2000	
Tacoma City Light P.O. Box 11007 Tacoma, WA 98411 (206) 383 2471		Blasnik, Michael Quick Savings Estimates with GSTEAM: The GRASP Short Term Energy Analysis Method	10.42
Benson, David K.		GRASP	
Impacts of Advanced Refrigerator Insulation	4.86	3500 Lancaster Ave. Philadelphia, PA 19104	
Vacuum Insulating Window R & D: An Update	3.21	(215) 222 0318 Blumstein, Carl	
Solar Energy Research		Changing Needs in Electricity Demand Forecasting: A California Perspective	8.70
1617 Cole Blvd. Golden, CO 80401 (303) 231 1162		University-Wide Energy Research Group T-9, Room 216	
Berkowltz, Paul I. Reinventing the WHEEL: An Integrated Approach to Energy Efficiency in the Rental Housing Sector	5.28	University of California Berkeley, CA 94720 (415) 486 6493	
Public Service Commission of Wisconsin P.O. Box 7854 Madison, WI 53704 (608) 267 7778	٠.		

Bohac, David L. Broadwater, Robert P. Research on Radon Movement in Build-1.42 Patterns of Electric Water Heater Use 11.113 and the Effects of Water Heater Load ings in Pursuit of Optimal Mitigation Control on Customers Center for Energy and **Environmental Studies** Center for Electric Power Studies Engineering Quad Tennessee Tech University **Princeton University** P.O. Box 5032 Princeton, NJ 08544 Cookeville, TN 38505 (609) 452 4665 (615) 372 3615 Bonevac, Beverly Brodrick, James R. System Load Impacts of Demand-Side Statistics and Simulations: An Integrat- 10.110 8.168 ed Approach to Studying the Office Management at a Municipal Utility Building Sector City of Austin Electric Gas-Fired Cooling Systems Create En-4.24 **Utility Department** ergy Cost Savings in Commercial Build-P.O. Box 1088 ings Austin, CA 78767 (512) 499 2000 Gas Research Institute 8600 W. Bryn Mawr Ave. Bourne, Richard C. Chicago, IL 60631 Three-Function Thermal Storage Heat 1.55 (312) 399 8371 Pumps Applied to Single Family Homes in Sacramento: Parametric Sizing Brodsky, Joel B. Evaluations and Utility Economics Estimating Residential Appliance Load 10.46 Shapes from Household Load Profile Davis Energy Group, Inc. 123 C Street Data Davis, CA 95616 Pacific Gas and Electric (916) 753 1100 77 Beale St., Room K300 San Francisco, CA 94106 Brambley, Michael R. (415) 973 6475 Performance of Cooling-Only and 10.252 Heating-Only PRISM Models in Extreme Brown, lan Climates A Study of Ventilation in an Energy-1.105 Advanced Energy Design and Operation Efficient Home Using the Perfluorocar-3.32 **Technologies** bon Tracer Technique Experience with Energy Performance 7.11 Pacific Northwest Laboratory Contracting in Europe: A Panacea or a P.O. Box 999 Richland, WA 99352 Mirage? (509) 375 6875 Association for the Conservation of Energy Briggs, Robert S. 3 Sherlock Mews Statistics and Simulations: An Integrat- 10.110 London W1M 3RH. ed Approach to Studying the Office ENGLAND Building Sector 01-935 1495 Pacific Northwest Laboratory Buchanan, Deborah L. P.O. Box 999 Evaluation of Wisconsin Public Service 9.195 Richland, WA 99352 Corporation's Good Cents Home Pro-(509) 375 3854 gram Wisconsin Public Service

P.O. Box 19001 Green Bay, WI 54307

(414) 433 4995

Bull, James		Byers, Richard	
Computer Analysis of the Energy Performance of Unbalanced Single-Pipe Steam Heating Systems in Older Multi-Family Buildings	2.89	The Residential Construction Demonstration Project Air-To-Air Heat Exchangers Performance Monitoring Analysis of Agreement Between Predict-	1.92 10.71
Lawrence Berkeley Laboratory Bldg. 90-3125 One Cyclotron Road		ed and Monitored Annual Space Heat Use for a Large Sample of Homes in the Pacific Northwest	10.71
Berkeley, CA 94720 (415) 486 7082		Results of Energy Use, Indoor Air Quality, and Ventilation Monitoring for RSDP	1.15
Bull, Michael Closing the Loop on Uncertainty: Does Bonneville's Conservation Policy Analysis Model Make Hypersens?	8.13	Homes in Washington State Washington State Energy Office FA-11 809 Legion Way S.E.	
Bonneville Power Admin. RPP		Olympia, WA 98504-1211 (206) 586 5059	
P.O. Box 3621 Portland, OR 97208 (503) 230 3947		Byrne, John Economic and Policy Implications of Integrated Resource Planning in the Utility	8.264
Buller, Susan M. Conservation and Appliance Technology Options for Commercial Buildings Pacific Gas and Electric Human Resources, Rm.1137 One California Street	3.15	Sector University of Delaware Center for Energy and Urban Policy Research Newark, DE 19716 (302) 451 1706	
San Francisco, CA 94106 (415) 972 4577		Caldwell, Laura Conservation Opportunities in Commer-	10.84
Burman, Julie The Marketing of an Energy Office Weekington State Energy Office	5.33	cial Buildings: Utilizing End-Use Load Data to Simulate and Measure Conser- vation Savings	
Washington State Energy Office FA-11 809 Legion Way S.E. Olympia, WA 98504-1211 (206) 586 5042		United Industries Corporation Suite 120 12835 Bell-Red Road Bellevue, WA 98005 (206) 453 8995	
Burns, Eugene M. Peak Electricity Demand in Commercial Buildings: A Pilot Study of 1983 Data	10.58	Callaway, Jenifer W. Evaluation of DOE's Partners in Low-	5.37
U.S. Energy Information Admin. EI-65 1000 Independence Ave. SW Washington, DC 20585 (202) 586 1125		Income Residential Retrofit Program Pacific Northwest Laboratory P.O. Box 999 Richland, WA 99352 (509) 376 4647	

Carter, Dorothy Camera, R.C. Energy Conservation Programs for 7.118 An Integrated Approach for Evaluating 8.233 Mobile Home Owners DSM Programs City of San Jose Synergic Resources Corp. **Environmental Management** Suite 127 **Room 460** 111 Presidential Blvd. 801 N. First St. Bala Cynwyd, PA 19004 San Jose, CA 95110 (215) 667 2160 (408) 277 5538 Campbell, Diana S. Castelli, Brian T. A Commercial Lighting Education and 3.112 5.81 The Critical Needs Weatherization Research Facility for the Pacific Research Project Northwest -**National Center for** Seattle City Light Appropriate Technology 1015 3rd Ave. #818 Seattle, WA 98104 3040 Continental Dr. Butte, MT 59702 (206) 684 3761 (406) 494 4572 Caplinger, Julia T. Centolella, Paul Dealing with Data in Large End-Use 10.151 Policy Implications of Relying on Energy 5.42 Load Metering Projects: Data Quality Conservation as an Acid Rain Control and Data Access Strategy Pacific Northwest Laboratory Office of the Consumers' P.O. Box 999 Richland, WA 99352 Council 137 E. State St. (509) 375 2649 Columbus, OH 43266-0550 Carmody, John C. (614) 466 8574 1.29 The Cost-Effectiveness of Foundation Chandrasekaran, Arunachalan Insulation Measures: Results from the Patterns of Electric Water Heater Use 11.113 Building Foundation Design Handbook and the Effects of Water Heater Load University of Minnesota Control on Customers 790 C.M.E. Bldg. Center for Electric Power Studies 500 Pillsbury Dr. S.E. **Tennesse Tech University** Minneapolis, MN 55455 P.O. Box 5032 (612) 624 9501 Cookeville, TN 38505 Carroll, William L. (615) 372 3615 An Estimate of Aggregate Energy Sav-9.9 Charkow, Joel ings due to the DOE Institutional Con-A Comparison of Conditional Demand 10.203 servation Program Estimates of Residential End-Use Load Lawrence Berkeley Laboratory Shapes with Load Shapes Derived from Bldg. 90-2056 End-Use Meters One Cyclotron Road Consolidated Edison Company Berkeley, CA 94720 of New York, Inc. (415) 486 4890 4 Irving Place New York, NY 10003 (212) 460 3401

Chernlack, Mark A Review of Conservation Experience in the Pacific Northwest and Some Policy Issues Raised Northwest Power Planning Council 851 S.W. Sixth, #1100 Portland, OR 97204 (503) 222 5161	8.26	Cleary, Colleen Conservation Opportunities in Commercial Buildings: Utilizing End-Use Load Data to Simulate and Measure Conservation Savings Seattle City Light Room 304 1015 Third Ave.	10.84
Chernick, Paul The Role of Revenue Losses in Evaluating Demand-Side Resources: An Economic Re-Appraisal PLC, Inc.	8.197	Seattle, WA 98104 (206) 684 3628 Coates, Brian Longitudinal Evaluation of Energy Savings from Seattle City Light's Home En-	9.156
10 Post Office Sq. Boston, MA 02109 (617) 723 1774		ergy Loan Program Evaluation of the Seattle Energy Code's Major Projects Requirement for New Commercial Buildings	5.46
Chlu, Grace Estimating Residential Appliance Load Shapes from Household Load Profile Data Pacific Gas and Electric	10.46	Seattle City Light Room 804 1015 Third Ave. Seattle, WA 98104-1198 (206) 684 3729	
77 Beale Street San Francisco, CA 94106 (415) 972 7000 Christensen, Craig B.		Cody, Bruce Comparison of the Performance and Energy Savings Potential of Heat Pump, Solar, and Conventional Water Heaters	4.11
Vacuum Insulating Window R & D: An Update Solar Energy Research Institute 1617 Cole Blvd. Golden, CO 80401 (303) 231 1162	3.21	in the Pacific Northwest Bonneville Power Admin. Office of Energy Research P.O. Box 3621-RPEB Portland, OR 97208 (503) 230 7314	
Clarke, Richard H. Demand Side Programs and Utility Competitive Positioning San Diego Gas & Electric P.O. Box 1831 San Diego, CA 92112 (619) 696 4706	8.39	CoggIns, James Costing Analysis of Design Options for Residential Appliances and Space Conditioning Equipment Energy Applications, Inc. Suite 224 Long Reach Village Ctr. Columbia, MD 21045 (301) 730 0663	4.66

Cole, W. James		Cook, John				
Residential Applications of Real-Time Pricing	6.27	The New Energy Evaluators: Energy Accounting by Local Government Ener-	7.40			
Competitive Bidding of Demand-Side Management New York State Energy Research & Development Authority 2 Rockefeller Plaza	6.11	gy Managers Energy Management Services 3200 Adeline Street Berkeley, CA 94703 (415) 451 0271				
Albany, NY 12223 (518) 465 6251 Collins, Nancy E.		Cornwall, Bonnie An Assessment of Program Elements Necessary for the Long-Term Effective-	7.26			
Events The Third Variable in Daily Household Energy Consumption	11.11	ness of School Energy Management Programs				
Achieving LCUP Consensus in a Politi- cally Volatile Environment: An Experi- ment in Progress City of Chicago/ANL	8.53	California Energy Extension Service 1400 Tenth Street Sacramento, CA 95814 (916) 323 4388				
Room 1003 121 N. LaSalle Street Chicago, IL 60606 (312) 744 8001		Crawley, Drury B. Commercial Building Systems Integration Research	3.65			
Conlin, Francis Residential Air-Conditioning Field Per-	Advanced Energy Design and Operation 4.82 Technologies	3.32				
formance Status and Future Priorities North Carolina Alternative Energy Corp.		Statistics and Simulations: An Integrated Approach to Studying the Office Building Sector	10.110			
P.O. Box 12699 Research Triangle Park, NC 27709 (919) 549 9046		Pacific Northwest Laboratory Building Science Section P.O. Box 999 MS K5-20 Richland, WA 99352				
Conner, Craig Dealing with Data in Large End-Use 10.151	10.151	(509) 375 3842 Croteau, Robert Modeling the Residential Sector Using 1				
Load Metering Projects: Data Quality and Data Access						
Adjustment of Residential Heating Loads Predicted by Degree Day Models Across Climate Zones in the Pacific Northwest	vative .	Conditional Demand Analysis and Innovative End Use Metering: An Integrated Approach				
Battelle Pacific Northwest Laboratories P.O. Box 999, K5-20 Richland, WA 99352 (509) 375 2538		City Water Light & Power Room 100 Municipal Bldg. Springfield, IL 62757 (217) 789 2070				
		Currier, Cathryn Energy Savings Due to Model Conservation Standards in Multifamily Buildings	2.180			
	•.	Tacoma Public Utilties P.O. Box 11007 Tacoma, WA 98411 (206) 383 9655				

Dagang, Deborah A. A Comparison of Energy End-Use Allocations and Metered Data Cambridge Systematics Suite 305 2855 Telegraph Avenue Berkeley, CA 94705 (415) 843 9390 Davidson, Ogunlade R.	10.123	De Steese, John G. Load Management Alternatives to Transmission and Distribution Construction Battelle Pacific Northwest Laboratories P.O. Box 999 Richland, WA 99352 (509) 375 2057	8.57
Energy Use in Office Buildings in African LDC's: A Case of Sierra Leone University of Sierra Leone Private Mail Bag Research & Development Services Freetown, SIERRA LEONE DeCicco, John M.	3.38	Dethman, Linda Design Assistance for New Commercial Buildings: Modeling for Energy Efficiency Dethman & Associates 2422 Westview Drive W. Seattle, WA 98119 (206) 722 7493	3.130
Energy Conservation and Outdoor- Reset Control of Space Heating Sys- tems Center for Energy and Environmental Studies Engineering Quad Princeton University Princeton, NJ 08544	2.24	Dohrmann, Donald Conservation and Appliance Technology Options for Commercial Buildings ADM Associates, Inc. 3299 Ramos Circle Sacramento, CA 95827 (916) 363 8383	` 3.1 5
Denver, Andrea Berkeley's Energy Rebate Program - A Case Study Andrea Denver & Assoc. P.O. Box 8345 Berkeley, CA 94707 (415) 526 2779	7.15	Duberg, John A. Case Study of the North Carolina Alternative Energy Corporation (NCAEC) Centaur Associates, Inc. Suite 700 1400 I Street N.W. Washington, DC 20005 (202) 296 4100	5.58
Desmond, Daniel J. Events The Third Variable in Daily Household Energy Consumption The Critical Needs Weatherization Research Project National Center for Appropriate Technology 3040 Continental Dr. Butte, MT 59702 (406) 494 4572	11.11 5.81	Duerr, Mark An Assessment of Program Elements Necessary for the Long-Term Effective- ness of School Energy Management Programs Duerr Evaluation Resources, Suite 3 290 Airpark Blvd. Chico, CA 95926 (916) 893 3734	7.26

Dunsworth, Timothy S.		Eriksson, Sven-Olof	
Non-Heating Electric Use and Conserva- tion Potential Among Energy Assistance	11.33	Air Infiltration and Ventilation Systems Royal Institute of Technology	2.121
Program Recipients in Minneapolis		EHUB	
Minneapolis Energy Office		S-100 Box X	
330 City Hall Minneapolis, MN 55415		44 Stockholm, SWEDEN	
(612) 348 8821		468-790 84 23	
Egel, Ken		Esterberg, Ela	
The New Energy Evaluators: Energy Accounting by Local Government Energy Managers	7.40	Influences of Energy Conservation in Three Multi-Family Buildings in the Pa- cific Northwest	2.102
Energy Management Services		Seattle City Light	
3200 Adeline Street Berkeley, CA 94703		Room 804 1015 Third Ave	
(415) 451 0271		Seattle, WA 98104	
Ellison, Sara S.		(206) 684 3734	
Demand Management Development Decision Matrix for Low-Income/Special	6.89	Eto, Joseph Changing Needs in Electricity Demand	8.70
Needs Customers: A Program Ranking		Forecasting: A California Perspective	0.70
and Marketing Tool		Lawrence Berkeley Laboratory	
Northeast Utilities Service Company P.O. Box 270		B90H One Cyclotron Rd.	
Hartford, CT 06141-0270		Berkeley, CA 94720	
(203) 721 2751		(415) 486 6493	
Englander, Scott Fan Energy Savings: Analysis of a Vari-	3.51	Evens, Anne Chicago's Residential Energy Conserva-	2.38
able Speed Drive Retrofit	3.31	tion Loan Fund: A Preliminary Evalua-	2.00
Non-Intrusive Pipe Flow Measurement	2.62	tion of Its Impact on Multifamily Buildings	
by Cross Correlation of Temperature Variations		Measured Results of Energy Retrofits in Buildings of Non-Profit Agencies	3.201
Center for Energy and Environmental Studies		Center for Neighborhood Technology 2125 W. North Ave.	
Engineering Quad		Chicago, IL 60647	
Princeton University Princeton, NJ 08544		(312) 278 4800	
(609) 452 5691		Ewing, Glenna	0.54
Englin, J.E.		Effectiveness of Boiler Control Retrofits on Small Multifamily Buildings in	2.51
Load Management Alternatives to	8.57	Wisconsin	
Transmission and Distribution Construction		Wisconsin Power & Light Co. P.O. Box 192	
Battelle Pacific		7617 Mineral Point Rd	
Northwest Laboratories		Madison, WI 53717-1699	
P.O. Box 999 Richland, WA 99352	•.	(608) 252 3238	
(509) 375 2057			

Fagerson, Mary		Feuermann, Daniel	
Impact of Envelope Efficiency, Heati System Type and Domestic Hot Wat System Type		Non-Intrusive Pipe Flow Measurement by Cross Correlation of Temperature Variations	2.62
Technology Transfer for Energy Efficie Design of Midsize Buildings	ent 3.140	Center for Energy and Environmental Studies	
University of Minnesota 110 Architecture Bldg. 89 Church St. S.E. Minneapolis, MN 55455		Engineering Quad Princeton University Princeton, NJ 08544 (609) 452 5445	
(612) 626 0242		Fey, Jacob	
Fay, James M. Computer Analysis of the Energy Perfo	or- 2.89	Energy Efficient New Buildings Through a Utility Service Standard	5.24
mance of Unbalanced Single-Pip Steam Heating Systems in Older Mul Family Buildings		Tacoma City Light P.O. Box 11007 Tacoma, WA 98411	
Lawrence Berkeley Laboratory		(206) 383 2471	
Bldg. 90-3125		Fischer, Steve	
One Cyclotron Road Berkeley, CA 94720 (415) 486 7082		Energy Impacts of Technical Alterna- tives for Chlorofluorocarbons Used in Refrigeration, Insulation and Mobile Air	4.108
Fels, Margaret F.		Conditioning Applications	
Development of a Data Base to Chara terize the Small Commercial Sector: New Jersey Example		Oak Ridge National Laboratory P.O. Box 2008 MS-6070, Building 3147	
Reliability Criteria for Weather Adjustment of Energy Billing Data	st- 10.236	Oak Ridge, TN 37831-6070 (615) 574 2017	
Center for Energy and		Fisher, Don	
Environmental Studies Engineering Quad Princeton University		Development of Uniform Testing Pro- cedures for Commercial Cooking Appli- ances - Phase I: Griddles	4.70
Princeton, NJ 08544 (609) 452 5449		Pacific Gas & Electric	
		3400 Crow Canyon Rd.	
Ferlin, Bettle Development of Uniform Testing Pro-		San Ramon, CA 94583 (415) 866 5529	
cedures for Commercial Cooking App.	II-	Flaim, Theresa	
ances - Phase I: Griddles Pacific Gas & Electric 3400 Crow Canyon Rd. San Ramon, CA 94583 (415) 866 5529		Assessing Demand-Side Program Strategies	8.82
		Niagara Mohawk Power Corporation 300 Erie Blvd. West	
		Syracuse, NY 13202 (315) 428 5776	

Fleury, Fredrick J. Electrical Load Characteristics of Superinsulated Multifamily Housing: A Case Study	2.175	Gadsby, Kenneth Research on Radon Movement in Buildings in Pursuit of Optimal Mitigation	1.42	
Orchard Park Management Apt. H 1253 Orchard Ave. Springfield, IL 62702 (217) 787 2288		Center for Energy and Environmental Studies Engineering Quad Princeton University Princeton, NJ 08544 (609) 452 6424		
Flood, John		Gallicchio, Michelle		
A Comparison of Conditional Demand Estimates of Residential End-Use Load Shapes with Load Shapes Derived from End-Use Meters	10.203	Demand Management Development Decision Matrix for Low-Income/Special Needs Customers: A Program Ranking and Marketing Tool	6.89	
Consolidated Edison Company of New York, Inc. 4 Irving Place New York, NY 10003		Northeast Utilities Service Company P.O. Box 270 Hartford, CT 06141-0270 (203) 721 2658		
(212) 460 6256		Gamble, Joan		
Flora, Denise An Algorithm to Disaggregate Commercial Whole-Building Hourly Electrical	10.13	Energy Efficiency as the Center of an Electric Utility's Corporate Marketing Plan	8.184	
Load into End Uses Lawrence Berkeley Laboratory Bldg 90H One Cyclotron Road	Puget Sound Power & Light P.O. Box 97034 Bellevue, WA 98009-9734 (206) 462 3233			
Berkeley, CA 94720 (415) 486 4740		Gandhi, Sunita		
Ford, Andrew		Program Design and Success: A Review of Two Utility Lighting Programs	6.41	
Closing the Loop on Uncertainty: Does Bonneville's Conservation Policy Analysis Model Make Hypersens? University of Southern California Suite 111	8.13	Lawrence Berkeley Laboratory Building 90H One Cyclotron Road Berkeley, CA 94720 (415) 486 6297		
901 18th Street Los Alamos, NM 87544 (505) 662 0054		Gardner, Carol Advanced Energy Design and Operation Technologies	3.32	
Friedman, J. Lawrence Ann Arbor's Energy Loan Program for Multi-Family Housing	7.53	Commercial Building Systems Integra- tion Research	3.65	
Community Development Dept. City of Ann Arbor P.O. Box 8647 Ann Arbor, MI 48107		U.S. Dept. of Energy CE-131, Room GF-231 1000 Independence Ave SW Washington, DC 20585 (202) 586 9424		

Gardner, Margaret		Goett, Andrew A.
A Review of Conservation Experience in the Pacific Northwest and Some Policy Issues Raised	8.26	Customer Participation and Load Im- 6.55 pacts of the PG&E Voluntary Residential Time-Of-Use Experiment
Northwest Power Planning Council Suite 1100 851 S.W. Sixth Ave. Portland, OR 97204 (503) 222 5161		Cambridge Systematics Suite 305 2855 Telegraph Avenue Berkeley, CA 94705 (415) 843 9390
Geller, Howard Lessons from Utility Experimentation with Appliance Efficiency Incentive Pro- grams American Council for an Energy Efficient Economy Suite 535 1001 Conn. Ave. N.W. Washington, DC 20006 (202) 429 8873	6.50	Goldberg, Miriam L. Ghosts of NBECS Past, Present and Fu- 10.135 ture: The Evolution of the Nonresidential Buildings Energy Consumption Survey U.S. Energy Information Administration EI-651 1000 Independence Ave SW Washington, DC 20585 (202) 586 1129 Golden, Philip J.
George, Stephen S. What are the Net Impacts of Residential Rebate Programs? XENERGY, Inc. Suite 1100 1970 Broadway Oakland, CA 94612 (415) 891 0446 Gettings, Michael	9.71	Equipment Submetering to Verify 3.126 Demand Reduction Claims of Selected Measures of a Commercial Rebate Program: Four Case Studies ANCO of Wisconsin, Inc. P-226 231 W. Michigan Milwaukee, WI 53203 (414) 221 4801
Military EMCS: Implications for Utilities, Cities, and Energy Services Oak Ridge National Laboratory Bldg. 5500A P.O. Box 2008 Oak Ridge, TN 37831-6366 (615) 574 4506 Gladhart, Peter M.	3.157	Goldman, Charles A. An Updated Compilation of Measured 2.75 Energy Savings in Retrofitted Multifamily Buildings Lawrence Berkeley Laboratory B90H One Cyclotron Rd. Berkeley, CA 94720 (415) 486 7287
The Takeback Effect in Low-Income Weatherization: Fact or Fiction?	9.199	Goldstein, David
Reported Versus Actual Thermostat Set- tings: A Management Perspective Michigan State University Institute for Family & Child Study College of Human Ecology East Lansing, MI 48824 (517) 353 6617	11.15	Deriving Power Budgets for Energy- Efficient Lighting in Non-Residential Buildings National Resources Defence Council Suite 620 90 New Montgomery San Francisco, CA 94102 (415) 777 0220

Gordon, Fred		Guliasi, Les	
Demand Management Development Decision Matrix for Low-Income/Special Needs Customers: A Program Ranking and Marketing Tool	6.89	Alternative Approaches to End-Use Metering in the Commercial Sector: The Design of Pacific Gas and Electric Company's Commercial End-Use Meter-	10.27
Energy Efficiency Decision-Making in Chains and Franchises	6.75	ing Project Pacific Gas and Electric	
Use of Commercial Energy Efficiency Measure Service Life Estimates in Pro- gram and Resource Planning	3.83	Room 1045 77 Beale Street San Francisco, CA 94106 (415) 972 6463	
Pacific Energy Assoc. 3333 N.E. 18th Ave. Portland, OR 97212 (503) 282 6543		Haberl, Jeff Use of Metered Analyis Data to Improve Building Operation and Maintenance:	3.98
Greely, Kathleen M.	0.75	Early Results from Two Federal Complexes	
An Updated Compilation of Measured Energy Savings in Retrofitted Multifamily Buildings Lawrence Berkeley Laboratory		Center for Energy and Environmental Studies Engineering Quad	
B90H One Cyclotron Rd. Berkeley, CA 94720 (415) 486 7287		Princeton University Princeton, NJ 08544 (609) 452 5677	
		Hackett, Bruce	11.71
Griffin, Karen How Insulated are California's Homes? Field Inspection and Survey Data on	9.84	Social and Engineering Models of Residential Energy Consumption: An Empirical Examination	11.71
Residential Insulation California Energy Commission MS-22 Demand Forecasting 1516 Ninth Street Sacramento, CA 95814 (916) 324 3104		University of California Dept. of Sociology Davis, CA 95616 (916) 752 0782	
		Hagan, Daniel A. A Monthly Audit Procedure for Appliance	10.139
Gruber, Kenneth J. Occupant Use Factors Influencing Op-	11 144	and Light Energy Consumption in Residences	
timal Results from Energy Conservation Strategies	11.144	Engineering Studios Suite 10	
North Carolina A & T State University Housing Research 154 Carver Hall Greensboro, NC 27411 (919) 334 7759		109 East Main Bozeman, MT 59715 (406) 587 2988	
		Hall, Nicholas P. A Residential High Efficiency Furnace Replacement Program in Illinois: An Ex- amination of Energy Savings and Relat- ed Consumer Behavior	9.22
	۶.	Illinois Department of Energy and Natural Resources 325 West Adams, Room 300 Springfield, IL 62704 (217) 785 3445	

Hallin, Per-Olof Hanlen, Richard C. Households and the Changing Energy Comparison of the Performance and En-4.11 Situation ergy Savings Potential of Heat Pump, Solar, and Conventional Water Heaters Department of Social & Economic Geography in the Pacific Northwest University of Lund Solvegatan 13 Pacific Northwest Laboratory S-223 62 LUND, P.O. Box 999 **SWEDEN** Richland, WA 99352 46 46 108406 (509) 376 0776 Halverson, Mark A. Harris, Jeffrey P. Dealing with Data in Large End-Use 10.151 An Updated Compilation of Measured 2.75 Load Metering Projects: Data Quality Energy Savings in Retrofitted Multifamily and Data Access Buildings The Experience of Energy Conservation 5.124 Pacific Northwest Laboratory Programs with New Commercial Build-P.O. Box 999 Richland, WA 99352 ings (509) 375 2108 The Sum of Megabytes Equals 3.181 Gigawatts: Energy Consumption and Hamzawi, Ednan Efficiency of Office PC's and Related Energy Consumption by Computers and 3.169 **Equipment** Miscellaneous Equipment in Commercial Lawrence Berkeley Laboratory **Buildings B90H** California Energy Commission One Cyclotron Road MS 22 Berkeley, CA 94720 1516 9th Street (415) 486 4362 Sacramento, CA 95814 (916) 324 3109 Harris, Louis R. Case Study of the North Carolina Alter-5.58 Han, Insook native Energy Corporation (NCAEC) Economic and Policy Implications of In-8.264 U.S. Dept. of Energy tegrated Resource Planning in the Utility **CE-222** Sector Forrestal Building University of Delaware Washington, DC 20585 Center for Energy and (202) 586 9794 Urban Policy Research Newark, DE 19716 Harrje, David (302) 451 1706 Research on Radon Movement in Build-1.42 ings in Pursuit of Optimal Mitigation Hanauer, Scott Center for Energy and Modeling the Residential Sector Using 10.264 **Environmental Studies** Conditional Demand Analysis and Inno-**Engineering Quad** vative End Use Metering: An Integrated **Princeton University** Approach Princeton, NJ 08544 City Water Light & Power (609) 452 6424 **Room 100** Municipal Building Springfield, IL 62757

(217) 789 2070

Hartnett, John W.		Heller, Jonathan
Assessing Demand-Side Program Strategies Niagara Mohawk Power	8.82	Methodology and Results of Blower 2.11 Door Testing in Small Multi-Family Buildings
Corporation 300 Erie Blvd. West Syracuse, NY 13202 (315) 428 5280		Ecotope, Inc. 2812 East Madison Seattle, WA 98112 (206) 322 3753
Hatfleld, Brenda An Estimate of Aggregate Energy Savings due to the DOE Institutional Conservation Program	9.9	Henderson, George Energy Efficiency and Consumption in 10.165 the UK Housing Stock Building Research
Lawrence Berkeley Laboratory Bldg 90H One Cyclotron Road Berkeley, CA 94720 (415) 486 4890		Establishment Bldg. Research Station Garson Watford WD2 7JR, UNITED KINGDOM (923) 664517
Hawley, Thomas E. Wisconsin Electric and the Smart Money Energy Program	6.70	Hewett, Martha J. Non-Heating Electric Use and Conservation Potential Among Energy Assistance 11.33
Wisconsin Electric Power Room A415 P.O. Box 2046 Milwaukee, WI 53201 (414) 449 3030		Program Recipients in Minneapolis Minneapolis Energy Office 330 City Hall Minneapolis, MN 55415 (612) 348 4835
Heldell, James A. An Analysis of Heat Pump Performance in Seattle	4.37	Hewltt, David Understanding What Motivates Multi- 7.57 Family Property Owners
Synergic Resources Corp. Suite 1018 1511 Third Ave. Seattle, WA 98101 (206) 624 8508		Portland Energy Office Room 545 1120 S.W. Fifth Ave. Portland, OR 97204 (503) 796 7222
Helnemeler, Kristin		Heydari, Ali
An Algorithm to Disaggregate Commercial Whole-Building Hourly Electrical Load into End Uses	10.13	Cost Efficiency Analysis of Design Op- tions to Improve the Energy Efficiency of Refrigerator-Freezers and Freezers
A Comparison of Field and Laboratory Measurements of Residential Refrigera- tor Energy Use	4.50	Lawrence Berkeley Laboratory Bldg. 90-3125 One Cyclotron Road
Lawrence Berkeley Laboratory Bldg 90H One Cyclotron Road Berkeley, CA 94720	٠,	Berkeley, CA 94720 (415) 486 6493
(415) 486 5137		

Hicks, Elizabeth Holt, Edward A. Using the New England Electric System 8.97 A Commercial Lighting Education and 3.112 Least Cost Planning Model for Planning Research Facility for the Pacific and Evaluating Conservation and Load Northwest Management Programs Seattle City Light **New England Power Service Company** Room 804 25 Research Drive 1015 Third Avenue Westboro, MA 01582 Seattle, WA 98104 (617) 366 9011 (206) 684 3703 Hirst, Eric Hopkins, Mark Incorporating Uncertainty into Electric Applying the Best Technology to Assist 5.62 Utility Long-Term Planning and Decision Low-Income Households: Program Making Results. Research, Findings, Recommendations Oak Ridge National Laboratory MS 206 Alliance to Save Energy Bldg. 4500N, P.O. Box 2008 Suite 206 Oak Ridge, TN 37831 1925 K Street N.W. (615) 574 6304 Washington, DC 20006 (202) 857 0666 Hobbie, Lynn Hopkins, Mary Ellen F. Plan, Do, Check, Act: Integrated Plan- 8.116 ning at Two Wisconsin Utilities Gas Cooling vs. Thermal Energy 4.61 Storage: Peak-Shaving Options Madison Gas & Electric MEUS Dept. American Gas Association P.O. Box 1231 1515 Wilson Blvd. Madison, WI 5370I-1231 Arlington, VA 22209 (608) 252 4760 (703) 841 8495 Hobson, Claire A. Hornstein, Karin Energy Efficiency Decision-Making in Technology Transfer for Energy Efficient 3.140 6.75 Chains and Franchises Design of Midsize Buildings Bonneville Power Admin. University of Minnesota **RMCC** 110 Architecture Blda. 905 N.E. 11th Ave. 89 Church St. S.E. Portland, OR 97232 Minneapolis, MN 55455 (503) 230 7513 (612) 624 5236 Hoeschele, Marc A. Horowitz, Marvin J. Three-Function Thermal Storage Heat 1.55 A Comparison of Methodologies and 9.34 Pumps Applied to Single Family Homes Their Impact on Results From Two in Sacramento: Parametric Sizing Weatherization Programs: The Pacific Evaluations and Utility Economics Northwest and Wisconsin Davis Energy Group, Inc. **ERC Portland Division** 123 C Street Suite 520 Davis, CA 95616 621 S.W. Alder (916) 753 1100 Portland, OR 97205 (503) 241 0858

Huang, Yu Joe		ivey, Diana L.	
The Impact of Summer Heat Islands on Cooling Energy Consumption and CO2 Emmissions	5.11	Influences of Energy Conservation in Three Multi-Family Buildings in the Pa- cific Northwest	2.102
Computer Analysis of the Energy Performance of Unbalanced Single-Pipe Steam Heating Systems in Older Multi-Family Buildings	2.89	Seattle City Light Room 818 1015 Third Ave Seattle, WA 98104-1198	
The Cost-Effectiveness of Foundation Insulation Measures: Results from the Building Foundation Design Handbook	1.29	(206) 684 3762 Jackson, Mark Results from Long-Term Monitoring of	9.46
Lawrence Berkeley Laboratory Bldg. 90-3125		Energy-Efficient and Current Practice Housing in Montana	00
One Cyclotron Road Berkeley, CA 94720 (415) 486 7082		Montana Department of Natural Resources 1520 E. Sixth Ave.	
Hubbard, Lynn Research on Radon Movement in Build- ings in Pursuit of Optimal Mitigation	1.42	Helena, MT 59620 (406) 444 6697	
Center for Energy and Environmental Studies Engineering Quad Princeton University Princeton, NJ 08544 (609) 452 6424		Jacobson, Bonnle Brown Demand Management Development Decision Matrix for Low-Income/Special Needs Customers: A Program Ranking and Marketing Tool Northeast Utilities Service Co. P.O. Box 270	6.89
Hurwitch, Jonathan W. Battery Storage: A Novel Approach to	3.120	Hartford, CT 06141-0270 (203) 665 5030	
Building Electricity Management Energetics, Inc. 9210 Route 108		Jacobson, Dave An Integrated Approach for Evaluating DSM Programs	8.233
Columbia, MD 21045 (301) 992 4000 Ingram, Allan		Northeast Utilities 100 Corporate Place Rocky Hill, CT 06067	
Conservation Retrofits in Institutional Buildings: Discussion and Summary of Ninety Projects in Oregon	5.73	(203) 721 2283 Jamleson, Dick Designing the Least Cost/Most Effective	6.101
Bonneville Power Admin.		Financial Incentives in the Commercial Sector	
P.O. Box 3621 Portland, OR 97208 (503) 230 4212		Bonneville Power Admin. RMCC P.O. Box 3621 Portland, OR 97208 (503) 230 7502	

Jaske, Michael		Karnitz, Michael A.	
Changing Needs in Electricity Demand Forecasting: A California Perspective California Energy Commission MS 22 1516 Ninth St. Sacramento, CA 95814 (916) 324 3094 Jolin, Stephen	8.70	Energy Measurements of Attic Radiant Barriers Installed in Single-Family Houses Oak Ridge National Laboratory Bldg. 5500 P.O. Box 2008 Oak Ridge, TN 37831-6291 (615) 574 5150	1.81
Hybrids: New Generation of ESCOS?	7.70	Katrakis, John	
Pacific Energy Assoc. 4823 S.W. Barbur Blvd. Portland, OR 97201 (503) 227 0422		Measured Results of Energy Retrofits in Buildings of Non-Profit Agencies Chicago's Residential Energy Conserva- tion Loan Fund: A Preliminary Evalua-	3.201 2.38
Jones, Bruce		tion of Its Impact on Multifamily Buildings Space Heating Improvements in Steam-	2.108
Equipment Submetering to Verify Demand Reduction Claims of Selected	3.126	Heated Multifamily Buildings	2.100
Measures of a Commercial Rebate Program: Four Case Studies ANCO of Wisconsin, Inc.		Center for Neighborhood Technology 2125 W. North Avenue Chicago, IL 60647 (312) 278 4800	
P-226 231 W. Michigan		Katz, Arnie	
Milwaukee, WI 53203 (414) 221 4847		The "Self-Help" Approach to Energy Effi- ciency in Small Nonprofit Agencies	7.92
Kallett, Richard H. Three-Function Thermal Storage Heat Pumps Applied to Single Family Homes in Sacramento: Parametric Sizing Evaluations and Utility Economics	1.55	North Carolina Alternative Energy Corp. P.O. Box 12699 Research Triangle Park, NC 27709 (919) 549 9046	
Sacramento Municipal		Katz, Gail	
Utility District P.O. Box 15830		Energy Efficiency Decision-Making in Chains and Franchises	6.75
Sacramento, CA 95813 (916) 732 5477		Seton, Johnson, & Odell 133 S.W. Second Ave.	
Kammerud, Ronald C. An Estimate of Aggregate Energy Sav-	9.9	Portland, OR 94204 (503) 226 3921	
ings due to the DOE Institutional Con-		Katz, Martin	
Servation Program Lawrence Berkeley Laboratory Bldg. 90-3125		Costing Analysis of Design Options for Residential Appliances and Space Con- ditioning Equipment	4.66
One Cyclotron Road Berkeley, CA 94720 (415) 486 4890		Cost Efficiency Analysis of Design Options to Improve the Energy Efficiency of Refrigerator-Freezers and Freezers	4.119
	*.	ADM Associates, Inc. 3299 Ramos Circle Sacramento, CA 95827 (916) 363 8383	

Kaufman, Dan		Kerwin, Joyce J.	
Development of Uniform Testing Procedures for Commercial Cooking Appliances - Phase I: Griddles Pacific Gas & Electric 3400 Crow Canyon Rd. San Ramon, CA 94583 (415) 866 5529	4.70	Hybrids: New Generation of ESCOS? Building Resources Management Corp. Suite 100 1956 Webster Oakland, CA 94612 (415) 446 1949	7.70
Keane, Dennis Customer Participation and Load Impacts of the PG&E Voluntary Residential Time-Of-Use Experiment	6.55	Kilpatrick, Douglas Design Assistance for New Commercial Buildings: Modeling for Energy Efficien- cy	3.130
Pacific Gas & Electric 77 Beale Street San Francisco, CA 94106 (415) 972 7000		Washington State Energy Office FA-11 809 Legion Way S.E. Olympia, WA 98504-1211	
Keating, Kenneth M. Designing the Least Cost/Most Effective Financial Incentives in the Commercial	6.101	(206) 586 5027 King, Mike An Analysis of Heat Pump Performance	4.37
Sector Bonneville Power Adm. Program Eval. Section-RPEB P.O. Box 3621 Portland, OR 97208 (503) 230 5857		in Seattle Synergic Resources Co. Suite 1018 1511 Third Avenue Seattle, WA 98101 (206) 624 8508	
Kelly, Matthew P. The Critical Needs Weatherization Research Project National Center for	5.81	Kirchen, Sarah Making Connections Between Research and Program Implementers: An Exam- ple of Federal Initiative	5.77
Appropriate Technology 3040 Continental Dr. Butte, MT 59702 (406) 494 4572	·	U.S. Dept. of Energy CE-222, Room 6B-113 1000 Independence Ave SW Washington, DC 20585	
Kempton, Willett The Consumer's Energy Information Environment	11.50	(202) 586 9111 Kolb, James O.	1.00
Redesign of Air Conditioner Controls Based on a Field Study of User Behavior	11.85	Infiltration Testing of Homes Construct- ed to the BPA Model Conservation Stan- dards Program	1.68
Center for Energy and Environmental Studies Engineering Quad Princeton University Princeton, NJ 08544 (609) 452 5234		Oak Ridge National Laboratory Bldg. 3550 X-10 P.O. Box 2008 Oak Ridge, TN 37831-6291 (616) 574 5179	

Komor, Paul		Kreitler, Virginia	
Development of a Data Base to Characterize the Small Commercial Sector: A	10.188	Using Conjoint Analysis to Evaluate Variations in Program Design	6.106
New Jersey Example Center for Energy and Environmental Studies Engineering Quad Princeton University		Synergic Resources Corp. Suite 127 111 Presidential Blvd. Bala Cynwyd, PA 19004 (215) 667 2160	
Princeton, NJ 08544 (609) 452 4684		Kroner, Walter M. An Energy Conservation Design Guide	3.228
Koomey, Jonathan Promoting Efficiency Investments in New Buildings	8.129	for Commercial Office Buildings Center for Architectural Research Rensselaer Polytechnic Troy, NY, 12180	
Lawrence Berkeley Laboratory Bldg. 90-3125 One Cyclotron Road		Troy, NY 12180 (518) 266 6461	
Berkeley, CA 94720 (415) 486 5974		Kunka, JIII Utility Interest in Economic Development: An Opportunity to Promote Effi-	6.116
Koved, Michael What are the Net Impacts of Residential	9.71	cient Energy Resource Use American Public Power Assoc.	
Rebate Programs? Combining DSM Cost-Effectiveness Methods into an Integrated Resource	8.142	Energy Services Exchange 2301 M St. N.W. Washington, DC 20037	
Planning Context: Implementation Issues		(312) 257 6702	
Xenergy, Inc. 964 Leo Way Oakland, CA 94611 (415) 428 0763		Kunkle, Rick Costing Analysis of Design Options for Residential Appliances and Space Conditioning Equipment	4.66
Krabacher, Shirlee The Takeback Effect in Low-Income	9.199	Cost Efficiency Analysis of Design Op- tions to Improve the Energy Efficiency of Refrigerator-Freezers and Freezers	4.119
Weatherization: Fact or Fiction?		Lawrence Berkeley Laboratory	
Reported Versus Actual Thermostat Set- tings: A Management Perspective Michigan State University	11.15	Bldg. 90-3125 One Cyclotron Road Berkeley, CA 94720	
Institute for Family & Child Study College of Human Ecology		(415) 486 6493	
East Lansing, MI 48824 (517) 485 7513		Kushler, Martin A Case Study in Program Improvement: The Development and Evaluation of a	9.58
Krause, Florentin		New Weatherization Measures System	
Program Design and Success: A Review of Two Utility Lighting Programs	6.41	in Michigan Michigan Public Service Commission	
Lawrence Berkeley Laboratory B90H One Cyclotron Road Berkeley, CA 94720 (415) 486 7260	•.	P.O. Box 30221 6545 Mercantile Way Lansing, MI 48909 (517) 334-6431	

Lambert, Les		Lebot, Benoit	
Field Investigation of Residential Heat- ing Duct Leakage	1.157	An Estimate of Aggregate Energy Savings due to the DOE Institutional Con-	9.9
Lambert Engineering, Inc. 601 N.W. Harmon Bend, OR 97701 (503) 388 2623		Servation Program Lawrence Berkeley Laboratory Bldg 90H One Cyclotron Road	
Langston, Vicky C. Changing Housing Needs with Age: Lifestyle and Attitude Implications for Elec-	11.67	Berkeley, CA 94720 (415) 486 4890 LeConiac, Patrick	
tricity Use and Management Lower Colorado River Authority		An Algorithm to Disaggregate Commercial Whole-Building Hourly Electrical Load into End Uses	10.13
P.O. Box 220, AD 203 Austin, TX 78767 (512) 473 4007		Lawrence Berkeley Laboratory Bldg 90H	
LaVine, Lance Technology Transfer for Energy Efficient	3.140	One Cyclotron Road Berkeley, CA 94720 (415) 486 4740	
University of Minnesota 110 Architecture Bldg. 89 Church St. S.E.		Lee, Allen D. Evaluation of DOE's Partners in Low- Income Residential Retrofit Program	5.37
Minneapolis, MN 55455 (612) 624 5236 Layne, Linda		Pacific Northwest Laboratory P.O. Box 999 Richland, WA 99352	
The Consumer's Energy Information Environment	11.50	(509) 230 7584 Lent, Tom	
New York University Department of Anthropology 25 Waverly Place		Quick Savings Estimates with GSTEAM: The GRASP Short Term Energy Analysis Method	10.42
New York, NY 10003 (201) 420 7983		Cutting Cool Watts: Helping Low Income Philadelphians Reduce Non Heating Electricity Use	7.73
Le Baron, B. A. Comparison of the Performance and Energy Savings Potential of Heat Pump, Solar, and Conventional Water Heaters in the Pacific Northwest Pacific Northwest Laboratory	4.11	Energy Coordinating Agency of Philadelphia 1501 Cherry St. Philadelphia, PA 19102 (215) 854 8030	
P.O. Box 999 Richland, WA 99352 (509) 375 3898		Lerman, David An Analysis of Comparative Efficiencies of Domestic Water Heaters in the Pacific Northwest	4.104
	٠.	Pacific Energy Assoc. 3333 N.E. 18th Ave. Portland, OR 97212 (503) 282 6543	

Levin, Per		Lubliner, Michael	
Air Infiltration and Ventilation Systems Royal Institute of Technology EHUB S-100, Box X	2.121	The Residential Construction Demons- tration Project Air-To-Air Heat Ex- changers Performance Monitoring Washington State Energy Office	1.92
44 Stockholm, SWEDEN 468-790 84 23		FA-11 809 Legion Way S.E. Olympia, WA 98504-1211	
Levins, William P.		(206) 586 5022	
Energy Measurements of Attic Radiant Barriers Installed in Single-Family Houses	1.81	Lucas, Robert Adjustment of Residential Heating Loads Predicted by Degree Day Models Across Climate Zones in the Pacific Northwest	10.96
Oak Ridge National Laboratory Bldg. 5500 P.O. Box 2008 Oak Ridge, TN 37831-6291 (615) 574 2018		Battelle Pacific Northwest Laboratories P.O. Box 999 Richland, WA 99352	
Lobenstein, Mary Sue		(509) 375 3789	
Evaluating Options for the Conversion of Two Pipe Steam Heating Systems to Hot Water Heat: A Bidding and Specifi-	2.132	Luster, Susan The "Self-Help" Approach to Energy Efficiency in Small Nonprofit Agencies	7.92
cation Guide Minneapolis Energy Office 330 City Hall Minneapolis, MN 55415 (612) 348 6234		North Carolina Alternative Energy Corp. P.O. Box 12699 Research Triangle Park, NC 27709 (919) 549 9046	
Lombardi, Eric		Lutzenhiser, Loren	
Positioning for Success in Multi-Sector Energy Campaigns: Community Selec- tion Techniques	7.77	Social and Engineering Models of Residential Energy Consumption: An Empirical Examination	11.71
North Carolina Alternative Energy Corp. P.O. Box 12699 Research Triangle Park, NC 27709		Department of Sociology University of California Davis, CA 95616 (916) 752 0782	
(919) 549 9046		MacDonald, Michael	
Lovell, Anthony M. Research on Radon Movement in Build-	1.42	Military EMCS: Implications for Utilities, Cities, and Energy Services	3.157
ings in Pursuit of Optimal Mitigation		Oak Ridge National Laboratory Bldg. 3147	
Center for Energy and Environmental Studies		P.O. Box 2008	
Engineering Quad Princeton University Princetori, NJ 08544		Oak Ridge, TN 37831-6366 (615) 574 5187	
(609) 452 6424			

Martien, Phillip		McGarity, Arthur E.	
The Impact of Summer Heat Islands on Cooling Energy Consumption and CO2 Emmissions	5.11	Redesign of Air Conditioner Controls Based on a Field Study of User Behavior Center for Energy and	11.85
Lawrence Berkeley Laboratory B-90H 1 Cyclotron Road Berkeley, CA 94720 (415) 486 7279		Environmental Studies Engineering Quad Princeton University Princeton, NJ 08544 (609) 452 5445	
Matthews, Barbara An Analysis of Heat Pump Performance in Seattle	4.37	McKeller, Barbara Demand-Side Planning Program Evaluation: Wisconsin Power and Light's Ex-	6.129
Synergic Resources Co. Suite 1018 1511 Third Avenue Seattle, WA 98101 (206) 624 8508		perience Plan, Do, Check, Act: Integrated Plan- ning at Two Wisconsin Utilities Modeling Considerations for Integrated Planning	8.116 8.162
McBride, John R. Events The Third Variable in Daily Household Energy Consumption The Critical Needs Weatherization	11.11 5.81	Wisconsin Power & Light 222 West Washington Ave P.O. Box 192 Madison, WI 53701 (608) 252 3311	
Research Project National Center for Appropriate Technology 3040 Continental Dr. Butte, MT 59702		McMahon, James E. Cost Efficiency Analysis of Design Options to Improve the Energy Efficiency of Refrigerator-Freezers and Freezers	4.119
(406) 494 4572 McDonald, Craig Integrated Evaluation of Costs and Benefits of Demand-Side Management Programs	8.147	Lawrence Berkeley Laboratory Bldg. 90-3125 One Cyclotron Road Berkeley, CA 94720 415 486 6049	
Synergic Resources Corp. Suite 127 111 Presidential Blvd. Bala Cynwyd, PA 19004 (215) 667 2160		McRae, Marjorle Use of Commercial Energy Efficiency Measure Service Life Estimates in Pro- gram and Resource Planning What are the Net Impacts of Residential	3.83 9.71
McFarland, Dan		Rebate Programs?	3.71
Positioning for Success in Multi-Sector Energy Campaigns: Community Selec- tion Techniques North Carolina	7.77	Xenergy, Inc. Suite 1100 1970 Broadway Oakland, CA 94612	
Alternative Energy Corp. P.O. Box 12699 Research Triangle Park, NC 27709 (919) 549 9046	*.	(415) 891 0446	

Meier, Alan		Miller, Peggy	
A Comparison of Field and Laboratory Measurements of Residential Refrigera- tor Energy Use	4.50	How Insulated are California's Homes? Field Inspection and Survey Data on Residential Insulation	9.84
Outdoor-Indoor Temperature Relation- ships The Incremental Value of Monitored Building Energy Data		California Energy Commission MS-22 Demand Forecasting 1516 Ninth Street Sacramento, CA 95814 (916) 324 3091	
Lawrence Berkeley Laboratory B90H One Cyclotron Road Berkeley, CA 94720 (415) 486 4740		Misuriello, Harry Evaluation of Seven Home Energy Rating Programs for Existing Single-Family Homes	6.191
Michaels, Harvey G. Bulk Purchase of Conservation by Competitive Bid Xenergy, Inc.	6.140	WS Fleming & Assoc. 537 Fifth St SE Washington, DC 20003 (202) 543 7212	
60 Mall Road Burlington, MA 01803 (617) 273 5700		Modera, Mark Jacket and Stack Losses from Multifami- ly Boilers	2.148
Miller, Barbara A Study of Ventilation in an Energy- Efficient Home Using the Perfluorocar- bon Tracer Technique National Center for	1.105	Lawrence Berkeley Laboratory Bldg. 90-3074 One Cyclotron Road Berkeley, CA 94720 (415) 486 4678	
Appropriate Technology P.O. Box 3838 Butte, MT 59702 (406) 494 4572		Moen, Jan Energy Conservation (ECON) Modelling Oslo Electricity Works Energy Conservation	9.97
Miller, Eric Policy Implications of Relying on Energy Conservation as an Acid Rain Control Strategy	5.42	P.O. Box 2481 Solli N-0202 Oslo 2, NORWAY 47 2 43 59 50	
AES Environmental Services, Inc. 1925 N. Lynn St. Suite 1200 Arlington, VA 22209		Molodetz, Stephen C. Assessing Demand-Side Program Strategies Niagara Mohawk Power Corp.	8.82
(703) 522 1315 Miller, Nancy Thermal Characterization Based on High Time Resolution End-Use Metered Data	10.219	300 Erie Blvd. West Syracuse, NY 13202 (315) 428 5776	
Pacific Northwest Laboratory P.O. Box 999 Richland, WA 99352 (509) 375 2804	•.	Monts, Ken System Load Impacts of Demand-Side Management at a Municipal Utility City of Austin Electric Utility Dept. P.O. Box 1088 Austin, TX 78767 (512) 322 6367	8.168

Mulder, Dave Modeling Considerations for Integrated 8.162 Planning Wisconsin Power & Light 222 West Washington Ave P.O. Box 192 Madison, WI 53701 (608) 252 5064	Neumeyer, Don Effectiveness of Boiler Control Retrofits on Small Multifamily Buildings in Wisconsin Wisconsin Power & Light Company 7617 Mineral Point Rd Madison, WI 53717-1699 (608 252 3238	2.51
Mystakides, Elizabeth The Massachusetts Electric Refrigerator 9.109 Rebate Program: Accomplishments and Planning Guides	Nevitt, Robert Evaluating the Performance of a New High Efficiency Commercial Tank Water Heater	2.155
New England Power Service Company 25 Research Drive Westborough, MA 01582 (617) 366 9011	Evaluation of Front-End Boiler Retrofits in Two Multifamily Buildings Energy Resource Center 427 St. Clair Avenue	2.159
Nadel, Steven Utility Commercial/Industrial Lighting In- 6.153 centive Programs: A Comparative Evaluation of Three Different Approaches Used by the New England Electric System	St Paul, MN 55102 (612) 227 7847 Newcomb, Tim M. Seattle City Light's Industrial Retrofit Demonstration Project Uses Quasi- Experimental Research Design and Me-	9.122
New England Power Service Co. 25 Research Dr. Westboro, MA 01582 (617) 366 9011 Neal, Leon	tering to Measure Savings Seattle City Light Room 804 1015 Third Avenue Seattle, WA 98104	
Residential Air-Conditioning Field Per- formance Status and Future Priorities North Carolina Alternative Energy Corp. P.O. Box 12699 Research Triangle Park, NC 27709	(206) 684 3296 Newman, Paul C. Reinventing the WHEEL: An Integrated Approach to Energy Efficiency in the Rental Housing Sector Public Service Commission	5.28
(919) 549 9046 Nelson, Gary D. Evaluation of Front-End Boiler Retrofits 2.159 in Two Multifamily Buildings	of Wisconsin P.O. Box 7854 Madison, WI 53704 (608) 267 5112	
Minneapolis Blower Door 4723 Upton Ave South Minneapolis, MN 55410 (612) 929 6949	Nguyen, H. Dan Energy Consumption by Computers and Miscellaneous Equipment in Commercial Buildings California Energy Commission MS 22 1516 9th Street	3.169

Sacramento, CA 95814 (916) 324 3109

Nicholson, W. L. Norland, Douglas Comparison of the Performance and En-4.11 Comprehensive Assessment of a Con-6.166 ergy Savings Potential of Heat Pump. servation and Load Reduction Program: Solar, and Conventional Water Heaters Results of the General Public Utilities in the Pacific Northwest Case Study Pacific Northwest Laboratory Alliance to Save Energy P.O. Box 999 Suite 206 Richland, WA 99352 1925 K Street N.W. (509) 375 3898 Washington, DC 20006 (202) 857 0666 Nickel, Judy Development of Uniform Testing Pro-Norton, Rita 4.70 cedures for Commercial Cooking Appli-Energy Master Planning for Local 3.197 ances - Phase I: Griddles Government Projects PG&E Learning Center Office of Environmental Management 2211 Camino Ramon City of San Jose San Ramon, CA 94583 801 N. First St Rm 460 (415) 838 7561 San Jose, CA 95110 (408) 277 5538 Nordman, Bruce The Incremental Value of Monitored 10.169 Nortz, William Building Energy Data Measured Results of Energy Retrofits in 3.201 **Buildings of Non-Profit Agencies** Outdoor-Indoor Temperature Relation- 10.173 ships Center for Neighborhood Technology Lawrence Berkeley Laboratory 2125 W. North Ave. 90-H Chicago, IL 60647 One Cyclotron Road (312) 278 4800 Berkeley, CA 94720 (415) 486 7089 Ogden, Joan Accounting for Uncertainty in Technolo-Norford, Leslie K. 4.99 gy Assessment: The Case of Cooling Fan Energy Savings: Analysis of a Vari-3.51 **Technologies** able Speed Drive Retrofit Sum of Megabytes Equals The Center for Energy and 3.181 Gigawatts: Energy Consumption and **Environmental Studies** Efficiency of Office PC's and Related **Engineering Quad Equipment** Princeton University Princeton, NJ 08544 Center for Energy and (609) 452 5470 **Environmental Studies Engineering Quad** Oliver, Bruce **Princeton University** Economic and Policy Implications of In-8.264 Princeton, NJ 08544 tegrated Resource Planning in the Utility (609) 452 5164 Sector University of Delaware Center for Energy and **Urban Policy Research**

Newark, DE 19716 (302) 451 1706

Oisen, Karen Parker, Danny S. The Cost-Effectiveness of Foundation 1.29 Development of a Data Base to Charac- 10.188 Insulation Measures: Results from the terize the Small Commercial Sector: A New Jersey Example Building Foundation Design Handbook Northwest Power Planning Council Center for Energy and **Environmental Studies** Capitol Station **Engineering Quad** Helena, MT 59620 (406) 444 3952 Princeton University Princeton, NJ 08544 Parti, Michael (609) 452 6260 A Comparison of Conditional Demand 10.203 O'Neill, Maura L. Estimates of Residential End-Use Load Energy Efficiency as the Center of an Shapes with Load Shapes Derived from 8.184 Electric Utility's Corporate Marketing End-Use Meters Plan **Applied Econometrics** O'Neill & Company, Inc. 331 Ninth Street Del Mar, CA 92014 2020 East Galer Seattle, WA 98112 (619) 755 1266 (206) 323 0377 Patel, Rusi F. Palermini, Debbi 4.24 Gas-Fired Cooling Systems Create En-Understanding What Motivates Multi-7.57 ergy Cost Savings in Commercial Build-Family Property Owners ings Portland Energy Office Arthur D. Little, Inc. Room 545 20 Acorn Park Cambridge, MA 02140 1120 S.W. Fifth Ave. Portland, OR 97204 (617) 864 5770 (503) 796 7222 Pearson, Eric W. Palmborg, Christer Thermal Characterization Based on High 10.219 Time Resolution End-Use Metered Data Energy Related Social Habits - Com- 11.100 parisons Between Households Living in **Pacific Northwest Laboratory** Single-Family and Multi-Family Homes P.O. Box 999 **Energy Economizing** Richland, WA 99352 Box 4042 (509) 375 2285 S-182 04 Enebyberg, Pedersen, Preben Buhl **SWEDEN** Possibilities for Electricity Conservation 5.86 Palmiter, Larry in the Public Sector in Denmark Analysis of Agreement Between Predict-10.71 Technical University of ed and Monitored Annual Space Heat Denmark Use for a Large Sample of Homes in the Build 309 C Pacific Northwest DK-2800 Lyngby, A Study of Ventilation in an Energy-1.105 DENMARK Efficient Home Using the Perfluorocar-02 88 16 11 bon Tracer Technique Ecotope, Inc.

2812 E. Madison St. Seattle, WA 98112 (206) 322 3753

Peters, Jane S.		Pirkey, Diane B.	
Lessons in Industrial Conservation Program Design	6.177	Energy Conservation Potential: A Review of Eight Studies	5.99
ERC Portland Division Suite 520 621 S.W. Alder		U.S. Dept. of Energy PE-40 1000 Independence Ave SW	
Portland, OR 97205 (503) 241 0858		Washington, DC 20585 (202) 586 4447	
Peterson, George A. Evaluating Options for the Conversion of Two Pipe Steam Heating Systems to Hot Water Heat: A Bidding and Specifi- cation Guide	2.132	Plunkett, John The Role of Revenue Losses in Evaluating Demand-Side Resources: An Economic Re-Appraisal	8.197
Building Resources Management Corp. Suite 475		Komanoff Energy Assoc. 38 South Main Street Wallingford, VT 05773 (802) 446 2400	
1956 Webster Street Oakland, CA 94612 (415) 446 2949		Potter, Thomas F. Vacuum Insulating Window R & D: An Update	3.21
Petersson, Bernt A. Households and the Changing Energy	11.29	Impacts of Advanced Refrigerator Insulation	4.86
Situation Deparment of Social and Economic Geography University of Lund Solvegatan 13 S-223 62 Lund,		Solar Energy Research Institute 1617 Cole Blvd. Golden, CO 80401 (303) 231 1083	
SWEDEN 46 46 108406		Prahl, Ralph Evaluation for PUCs	9.126
Plette, Mary Ann Measured Energy Performance of Cool Storage in Commercial Buildings: An Update of BECA-LM	3.214	Public Service Commission of Wisconsin 4802 Sheboygan Avenue Madison, WI 53707 (608) 266 7407	
Lawrence Berkeley Laboratory B90H One Cyclotron Road Berkeley, CA 94720 (415) 486 4557		Pratt, Jeff Understanding What Motivates Multi-Family Property Owners Portland Energy Office	7.57
Plgg, Scott Effectiveness of Boiler Control Retrofits on Small Multifamily Buildings in Wisconsin	2.51	Room 545 1120 S.W. Fifth Ave. Portland, OR 97204 (503) 796 7222	
Wisconsin Energy Conservation Suite 117 1045 E. Dayton St. Madison, WI 53703 (608) 256 1680	•.		

0.268 Accounting for Uncertainty in Technology Assessment: The Case of Cooling Technologies	4.99
The Sum of Megabytes Equals Gigawatts: Energy Consumption and Efficiency of Office PC's and Related Equipment	3.181
Centre d'Energetique Ecoles des Mines 60 Bd Saint Michel 75272 Paris, CEDEX 06 FRANCE 42 34 9I 52	
Rainer, Leo The Impact of Summer Heat Islands on Cooling Energy Consumption and CO2 Emmissions	5.11
Lawrence Berkeley Laboratory Bldg. 90-H One Cyclotron Road Berkeley, CA 94720 (415) 486 7473 Reed, John H.	
and the Effects of Water Heater Load Control on Customers Oak Ridge National Laboratory Bldg. 4500N MS-207 P.O. Box 2008 Oak Ridge, TN 37831 (615) 576 5042 Reid, Michael W.	7.96
11.33 **Pooled" Performance Contracting for Nonprofit Agencies Conservation in the Rate Base: A Review of Regulatory Practices and Implications Alliance to Save Energy Suite 206 1925 K Street N.W. Washington, DC 20006 (202) 857 0666	7.96 8.215
10	gy Assessment: The Case of Cooling Technologies The Sum of Megabytes Equals Gigawatts: Energy Consumption and Efficiency of Office PC's and Related Equipment Centre d'Energetique Ecoles des Mines 60 Bd Saint Michel 75272 Paris, CEDEX 06 FRANCE 42 34 9I 52 Rainer, Leo The Impact of Summer Heat Islands on Cooling Energy Consumption and CO2 Emmissions Lawrence Berkeley Laboratory Bldg. 90-H One Cyclotron Road Berkeley, CA 94720 (415) 486 7473 Reed, John H. Patterns of Electric Water Heater Use and the Effects of Water Heater Load Control on Customers Oak Ridge National Laboratory Bldg. 4500N MS-207 P.O. Box 2008 Oak Ridge, TN 37831 (615) 576 5042 Reld, Michael W. "Pooled" Performance Contracting for Nonprofit Agencies Conservation in the Rate Base: A Review of Regulatory Practices and Implications Alliance to Save Energy Suite 206 1925 K Street N.W. Washington, DC 20006

Rabl, Ari

Pratt, Robert G.

Reis, Christopher J. Rizzuto, Joe State/Utility/Community Group Partner-7.107 Residential Applications of Real-Time 6.27 ships Pricina Ohio Dept. of Development An Investigation of Infiltration and Indoor 1.141 Air Quality in New York State Homes **Energy Conservation** P.O. 1001 New York State Energy Research Columbus, OH 43266-0101 & Development Authority (614) 466 6797 2 Rockefeller Plaza Albany, NY 12223 Reynolds, Cathy (518) 465 6251 Reliability Criteria for Weather Adjust- 10.236 ment of Energy Billing Data Robertson, Chris Modeling the Residential Sector Using 10.264 Center for Energy and Conditional Demand Analysis and Inno-**Environmental Studies** vative End Use Metering: An Integrated **Engineering Quad Princeton University** Approach Princeton, NJ 08544 Electrical Load Characteristics of Super-(609) 452 4774 insulated Multifamily Housing: A Case Study Rich, Daniel City Water, Light & Power Economic and Policy Implications of In-8.264 **Room 100** tegrated Resource Planning in the Utility Municipal Bldg. Sector Springfield, IL 62757 University of Delaware (217) 789 2070 Center for Energy and Urban Policy Research Robinson, David A. Newark, DE 19716 Impact of Envelope Efficiency, Heating 2.57 (302) 451 1706 System Type and Domestic Hot Water System Type Riewer, Shella Evaluation of Front-End Boiler Retrofits 2.159 Model Demonstrating Conservation 1.130 in Two Multifamily Buildings Standards in Manufactured Housing **Robinson Technical Services** Bonneville Power Admin. Suite 151S Conservation Office 1821 University Avenue P.O. Box 3621-RPEB St. Paul, MN 55104 Portland, OR 97208-3621 (612) 646 1695 (503) 230 5473 Robinson, Michael Ritschard, Ronald Conservation and Appliance Technology 3.15 Computer Analysis of the Energy Perfor-2.89 Options for Commercial Buildings mance of Unbalanced Single-Pipe Steam Heating Systems in Older Multi-Pacific Gas & Electric Family Buildings Rm 1180 77 Beale Street Lawrence Berkeley Laboratory San Francisco, CA 94106 Bldg. 90-3125 (415) 972 7524 One Cyclotron Road Berkeley, CA 94720

(415) 486 6328

Robison, David	Ruderman, Henry	
Field Investigation of Residential Heat- 1.157 ing Duct Leakage	tions to Improve the Energy Efficiency of	4.119
Lambert Engineering 11261 S. Parkland Ct. Oregon City, OR 97045	Refrigerator-Freezers and Freezers Do Appliance Efficiency Standards Real- ly Save Energy?	9.152
(503) 655 4186 Rosenfeld, Arthur H.	Lawrence Berkeley Laboratory Bldg. 90-3125	
Promoting Efficiency Investments in 8.129 New Buildings	One Cyclotron Rd. Berkeley, CA 94720 (415) 486 6286	
The Impact of Summer Heat Islands on 5.11 Cooling Energy Consumption and CO2	Rufo, Michael W.	
Emmissions Lawrence Berkeley Laboratory	Use of Commercial Energy Efficiency Measure Service Life Estimates in Pro- gram and Resource Planning	3.83
90-3034 1 Cycltron Road Berkeley, CA 94720 (415) 486 4834	Performance of Cooling-Only and 10 Heating-Only PRISM Models in Extreme Climates	0.252
Rothstein, Eric P. System Load Impacts of Demand-Side 8.168 Management at a Municipal Utility Institutional Barriers to Data Collection 9.139	XENERGY,Inc. Suite 1100 1970 Broadway Oakland, CA 94612 (415) 891 0446	
and Demand-Side Management Program Evaluation: Practical Lessons in Political Economy City of Austin	Scanlon, Timothy An Analysis of Comparative Efficiencies of Domestic Water Heaters in the Pacific Northwest	4.104
Resource Management Dept. P.O. Box 1088 Austin, TX 78767 (512) 462 6281 Roturler, Jaques	Bonneville Power Admin. DRES P.O. Box 3621 Portland, OR 97208	
The Sum of Megabytes Equals 3.181	(503) 230 7489	
Gigawatts: Energy Consumption and Efficiency of Office PC's and Related Equipment	Scheer, Richard M. Energy Conservation Potential: A Review of Eight Studies	5.99
Institut Universitaire de Technologie A University de Bordeaux I 3 Av. de Thouars Talence 33400 CEDEX	Energetics, Inc. 9210 Route 108 Columbia, MD 21045 (301) 992 4000	
FRANCE 56 80 76 47	Schenck, Ingrid N. Positioning for Success in Multi-Sector Energy Campaigns: Community Selection Techniques	7.77
	North Carolina Alternative Energy Corp. P.O. Box 12699 Research Triangle Park, NC 27709 (919) 549 9046	

Schlegel, Jeffrey

Effectiveness of Boiler Control Retrofits 2.51 on Small Multifamily Buildings in Wisconsin

Blower Door Guided Procedures for Improving the Cost-Effectiveness of Low-Income Weatherization

Wisconsin Energy Conservation Corp. 1045 E. Dayton St., #117 Madison, WI 53703 (608) 256 1620

Schoch, Karen

Predictors of Inefficient Retrofits in Hood 9.213 River Homes

> Pacific Power & Light Room 440 PFFC 920 S.W. Sixth Avenue Portland, OR 97204 (503) 464 5987

Schuldt, Marc

Influences of Energy Conservation in 2.102 Three Multi-Family Buildings in the Pacific Northwest

Conservation Opportunities in Commercial Buildings: Utilizing End-Use Load Data to Simulate and Measure Conservation Savings

United Industries Corp. Suite 120 12835 Bell-Red Rd. Bellevue, WA 98004 (206) 453 8995

Schultz, Don

Combining DSM Cost-Effectiveness Methods into an Integrated Resource Planning Context: Implementation Issues

> California Public Utilities Commission Suite 170 1107 9th Street Sacramento, CA 95814 (916) 324 5835

Schultz, Robert William

Trends in Household Energy Conserva- 11.127 tion Attitudes and Behaviors in the Northwest: 1983-1987

Pacific Northwest Laboratory P.O. Box 999 Richland, WA 99352 (509) 376 1939

Schwartz, Donald

Do Capacity Surpluses and New Utility 8.228 Rates Imperil Conservation?

California Energy Commission 1516 9th Street Sacramento, CA 95814 (916) 324 3488

Sebald, Anthony V.

A Comparison of Conditional Demand 10.203 Estimates of Residential End-Use Load Shapes with Load Shapes Derived from End-Use Meters

University of California, San Diego B-010 La Jolla, CA 92093 (619) 534 6525

Sharp, W. Conn

State/Utility/Community Group Partner- 7.107 ships

Columbia Gas of Ohio P.O. Box 117 200 Civic Center Drive Columbus, OH 43216-0117 (614) 460 4617

Shaten, Jessica

Impact of Envelope Efficiency, Heating 2.57 System Type and Domestic Hot Water System Type

University of Minnesota 110 Architecture Bldg. 89 Church Street S.E. Minneapolis, MN 55455 (612) 624 5236

8.142

Skumatz, Lisa A. Shen, Lester S. Energy-Related Differences in Residen- 11.131 1.29 The Cost-Effectiveness of Foundation tial Target-Group Customers: Analysis Insulation Measures: Results from the of Energy Usage, Appliance Holdings, Building Foundation Design Handbook Housing, and Demographic Characteris-University of Minnesota tics of Residential Customers 790 C.M.E. Bldg. City of Seattle 500 Pillsbury Dr. S.E. Room 750 Dexter Horton Bldg. Minneapolis, MN 55455 710 Second Ave. (612) 624 9501 Seattle, WA 98104 Sherman, Max (206) 684 7654 ASHRAE's Air Tightness Standard for 1.167 Smith, Gayland Single-Family Houses 4.123 Refrigeration Energy Savings with Float-Lawrence Berkeley Laboratory ing Head Pressure Blds. 90-3074 Oregon Dept. of Energy One Cyclotron Rd. 625 Marion Street, NE Berkeley, CA 94720 Salem, OR 97310 (415) 486 4022 (503) 378 6044 Shinn, Robert Smith, Linda K. Marketing Efforts by Gas Utilities to Pro-4.135 4.86 Impacts of Advanced Refrigerator Insumote Cogeneration and Gas Airlation Conditioning 291 Karlann Dr. O'Brien Energy Systems Inc. Black Hawk, CO 80422 225 S. 8th Street (303) 582 5198 Philadelphia, PA 19106 (215) 627 5500 Socolow, Robert H. Research on Radon Movement in Build-1.42 Shorrock, L.D. ings in Pursuit of Optimal Mitigation Energy Efficiency and Consumption in 10.165 the UK Housing Stock Center for Energy and **Environmental Studies Building Research Establishment Engineering Quad** Bldg. Research Station Princeton University Garson Watford WD2 7JR Princeton, NJ 08544 UNITED KINGDOM (609) 452 5446 0923 674040 Spiro, Andrew J. Sinha, Jayant Modeling the Residential Sector Using 10.264 An Integrated Approach for Evaluating 8.233 Conditional Demand Analysis and Inno-DSM Programs vative End Use Metering: An Integrated Synergic Resources Corp. Approach Suite 127 City Water Light & Power 111 Presidential Blvd. Room 100 Bala Cynwyd, PA 19004 Municipal Bldg. (215) 667 2160

Springfield, IL 62757 (217) 789 2070

Statt, Terry G.		Stokes, Gerald M.	
Energy Impacts of Technical Alterna- tives for Chlorofluorocarbons Used in	4.108	Thermal Characterization Based on High Time Resolution End-Use Metered Data	
Refrigeration, Insulation and Mobile Air Conditioning Applications		Where are the Controls on the Conservation Power Plant?	8.238
U.S. Dept. of Energy CE-132 1000 Independence Ave SW Washington, DC 20585 (202) 586 9130		Pacific Northwest Laboratory P.O. Box 999 Richland, WA 99352 (509) 375 3816	
Stefanson, Valdi		Stovall, Therese K.	0.400
Evaluating the Performance of a New High Efficiency Commercial Tank Water Heater	2.155	The Effect of House Indoor Temperature on Measured and Predicted Energy Savings	9.169
Energy Resource Center 427 St. Clair Avenue St. Paul, MN 55102 (612) 227 7847		Oak Ridge National Laboratory Bldg. 3550 P.O. Box 2008 Oak Ridge, TN 37831-6291 (615) 547 0749	
Stephens, Robert R.		Stukes, Clarence	
Electrical Load Characteristics of Super- insulated Multifamily Housing: A Case	2.175	Montgomery County One-Stop Energy Services Center	7.114
Study City Water Light & Power Room 100 Municipal Bldg. Springfield, IL 62757 (217) 789 2014		Montgomery County, Maryland Dept. of Environmental Protection 6th Floor 101 Monroe Street Rockville, MD 20850 (301) 217 2380	
Stevens, James F.		Sumi, David	
Washington State's Energy Code for Commercial Buildings: Training and Enforcement	5.112	Evaluation of the Seattle Energy Code's Major Projects Requirement for New Commercial Buildings	5.46
Stevens Engineering 17213 N.E. 14th Street Bellevue, WA 98008		Longitudinal Evaluation of Energy Sav- ings from Seattle City Light's Home En- ergy Loan Program	9.156
(206) 643 7088		Seattle City Light	
Stoft, Steve Cost Efficiency Analysis of Design Options to Improve the Energy Efficiency of Refrigerator-Freezers and Freezers	4.119	Room 804 1015 Third Ave. Seattle, WA 98104-1198 (206) 684 3871	
Lawrence Berkeley Laboratory Bldg. 90-3075 One Cyclotron Road Berkeley, CA 94720		Taha, Halder The Impact of Summer Heat Islands on Cooling Energy Consumption and CO2 Emmissions	5.11
415 486 6851	*.	Lawrence Berkeley Laboratory Building 90-2024 1 Cyclotron Road Berkeley, CA 94720 (415) 486 4932	

Taylor, Harold E. Tooze, David Non-Intrusive Pipe Flow Measurement Understanding What Motivates Multi-7.57 2.62 by Cross Correlation of Temperature Family Property Owners **Variations** Portland Energy Office **Room 545** Stockton State College 1120 S.W. Fifth Ave. NAMS Pomona, NJ 08240 Portland, OR 97204 (609) 652 4471 (503) 796 7222 Townsely, Mike Taylor, Z. Todd The Effects of Model Simplifications on 10.268 An Integrated Approach for Evaluating 8.233 Equivalent Thermal Parameters Calcu-DSM Programs lated from Hourly Building Performance Northeast Utilities Data Department of Conservation Pacific Northwest Laboratory & Load Management P.O. Box 999 100 Corporate Place Richland, WA 99352 Rocky Hill, CT 06067 (509) 375 2676 (203) 721 2280 Ternes, Mark P. Toyama, Nathan Estimating Residential Appliance Load 10.46 The Effect of House Indoor Temperature 9.169 Shapes from Household Load Profile on Measured and Predicted Energy Sav-Data ings Oak Ridge National Laboratory Pacific Gas and Electric 77 Beale Street Bldg. 3550 San Francisco, CA 94106 P.O. Box 2008 Oak Ridge, TN 37831-6291 (415) 972 7000 (615) 574 0749 Train, Kenneth E. Thompson, Jeffery A Comparison of Energy End-Use Allo- 10.123 Patterns of Electric Water Heater Use 11.113 cations and Metered Data and the Effects of Water Heater Load Correcting Self-Selection Bias in the Es- 9.182 Control on Customers timation of Audit Program Impacts Center for Electric Power Studies Cambridge Systematics Tennessee Tech University Suite 305 Po Box 5032 2855 Telegraph Avenue Cookeville, TN 38505 Berkeley, CA 94705 (615) 372 3615 (415) 843 9390 Tonn, Bruce E. Treadway, Nat Energy Savings Due to Model Conser-2.180 Tackling Demand-Side Management 8.251 vation Standards in Multifamily Buildings Regulation in Texas Under Fiscal

Resource Constraints

Public Utility Commission Suite 400N 7800 Shoal Creek Blvd. Austin, TX 78757 (512) 458 0310

Oak Ridge National Laboratory

Bldg. 4500N, MS-207

Oak Ridge, TN 37831

P.O. Box 2008

(615) 574 4041

lucker, mary		Usnimaru, Kenji	
Energy Conservation Programs for Mobile Home Owners	7.118	Costing Analysis of Design Options for Residential Appliances and Space Con- ditioning Equipment	4.66
City of San Jose Room 460 801 N. First St. San Jose, CA 95110		Cost Efficiency Analysis of Design Options to Improve the Energy Efficiency of Refrigerator-Freezers and Freezers	4.119
(408) 277 5538 Turlel, Isaac Costing Analysis of Design Options for Residential Appliances and Space Conditioning Fouriers	4.66	Lawrence Berkeley Laboratory Bldg. 90-3125 One Cyclotron Road Berkeley, CA 94720 (415) 486 6493	
ditioning Equipment Cost Efficiency Analysis of Design Options to Improve the Energy Efficiency of Refrigerator-Freezers and Freezers Lawrence Berkeley Laboratory Bldg. 90-3125 One Cyclotron Road Berkeley, CA 94720 (415) 486 6493 Turner, Carolyn S.	4.119	Usibelli, Anthony Washington State's Energy Code for Commercial Buildings: Training and En- forcement Washington State Energy Office FA-11 809 Legion Way S.E. Olympia, WA 98504-1211 (206) 586 5088	5.112
Occupant Use Factors Influencing Optimal Results from Energy Conservation Strategies North Carolina A & T State University Housing Research 154 Carver Hall Greensboro, NC 27411 (919) 334 7759 Ubbelohde, Jane	11.144	Vajda, E. James Use of Metered Analyis Data to Improve Building Operation and Maintenance: Early Results from Two Federal Complexes U.S. Dept. of Energy Engineering/Facilities Office of Admin. Services Washington, DC 20585 (202) 586 6080	3.98
Technology Transfer for Energy Efficient Design of Midsize Buildings Impact of Envelope Efficiency, Heating System Type and Domestic Hot Water System Type University of Minnesota 110 Architecture Bldg. 89 Church St. S.E. Minneapolis, MN 55455 (612) 624 5236	3.140 2.57	Verdict, Malcolm E. The New Energy Audit Tool: Performance Audits for Energy Management Programs Office of the Governor Energy Management Center State Capitol Austin, TX 78701 (512) 463 1995	5.120
		Vlegand, Jan Possibilities for Electricity Conservation in the Public Sector in Denmark Technical University of Denmark Building 309 C DK-2800 Lyngby, DENMARK 02 88 16 11	5.86

Bonneville Power Admin. RMRC P.O. Box 3621 Portland, OR 97208 (503) 230 5499 Vine, Edward L. An Estimate of Aggregate Energy Savinas due to the DOE Institutional Converse description of the Utility Sector University of Delaware Center for Energy and Urban Policy Research Newark, DE 19716 (302) 451 1706 Warren, Andrew	264
P.O. Box 3621 Portland, OR 97208 (503) 230 5499 Vine, Edward L. An Estimate of Aggregate Energy Savings due to the DOE Institutional Conservation Program The Experience of Energy Conservation Programs with New Commercial Buildings Lawrence Berkeley Laboratory Bldg. 90-3125 University of Delaware Center for Energy and Urban Policy Research Newark, DE 19716 (302) 451 1706 Warren, Andrew The Role of European Governments in 1990's: A European Community Viewpoint Association for the Conservation of Energy Conservation of Energy O Shortlack Mayure	
Vine, Edward L. An Estimate of Aggregate Energy Savings due to the DOE Institutional Conservation Program The Experience of Energy Conservation Programs with New Commercial Buildings Lawrence Berkeley Laboratory Bldg. 90-3125 (302) 451 1706 Warren, Andrew The Role of European Governments in Promoting Energy Efficiency in the 1990's: A European Community Viewpoint Association for the Conservation of Energy	
servation Program The Experience of Energy Conservation Programs with New Commercial Buildings Lawrence Berkeley Laboratory Bldg. 90-3125 The Role of European Governments in Promoting Energy Efficiency in the 1990's: A European Community Viewpoint Association for the Conservation of Energy O Shorlock Moves	
Programs with New Commercial Buildings Lawrence Berkeley Laboratory Bldg. 90-3125 1990's: A European Community Viewpoint Association for the Conservation of Energy	5.137
Lawrence Berkeley Laboratory Bldg. 90-3125 Association for the Conservation of Energy	
Berkeley, CA 94720 London W1M 3Rh, (415) 486 6047 ENGLAND 01 935 1495	
Violette, Daniel M. Evaluation of Wisconsin Public Service 9 195 Watson, Robert	
Corporation's Good Cents Home Pro- gram Deriving Power Budgets for Energy- Efficient Lighting in Non-Residential Buildings	.70
RCG/Hagler, Bailly, Inc. P.O. Box O Boulder, CO 80306 (303) 449 5515 National Resources Defence Council Suite 620 90 New Montgomery	
Vorles, Rebecca San Francisco, CA 94105 Evaluation of Seven Home Energy Rat- 6.191 (415) 777 0220	
ing Programs for Existing Single-Family Homes Weedall, Mike Competitive Ridding of Domand Side 6	5.11
Infinite Energy P.O. Box 17945 Competitive Bidding of Demand-Side 6. Management Management	<i>,</i> . 1 1
Denver,, CO 80217 Pacific Energy Assoc. (303) 296 1532 2115 N.E. 19th Avenue Portland, OR 97212	
Wajcs, Jr., Frederick (503) 282 8492 An Energy Conservation Design Guide 3.228	
for Commercial Office Buildings Northeast Utilities Weini, Jenrey S. The Takeback Effect in Low-Income 9.19 Weatherization: Fact or Fiction?	199
P.O. Box 270 Tolland, CT 06084-2321 (203) 721 2711 Reported Versus Actual Thermostat Set- 11. tings: A Management Perspective	1.15
Michigan State University Institute for Family & Child Study College of Human Ecology East Lansing, MI 48824 (517) 353 3717	

Wheeler, Greg Refrigeration Energy Savings with Floating Head Pressure Oregon State University Energy Extension 344 Batcheller Hall Corvallis, OR 97331 (503) 754 2515 White, Dennis L.	4.123	Winch, Rick Demand-Side Planning Program Evaluation: Wisconsin Power and Light's Experience Wisconsin Power & Light P.O. Box 192 222 West Washington Ave Madison, WI 53701 (608) 252 3311	6.129
Energy Savings Due to Model Conservation Standards in Multifamily Buildings	2.180	Wirtshafter, Robert Marketing Efforts by Gas Utilities to Promote Cogeneration and Gas Air-	4.135
Oak Ridge National Laboratory Bldg. 4500N, MS-207 P.O. Box 2008 Oak Ridge, TN 37831-6207 (615) 574 5940		Conditioning Berkeley's Energy Rebate Program - A Case Study University of Pennsylvania	
Wigington, Linda M. Blower Door Guided Procedures for Improving the Cost-Effectiveness of Low-Income Weatherization		Energy Management & Policy 127 Meyerson Hall 210 S. 34th Street Philadelphia, PA 19104-6311 (215) 898 7185	
ACTION-Housing, Inc. Two Gateway Center Pittsburgh, PA 15222 (412) 391 1958		Witte, Patti A Case Study in Program Improvement: The Development and Evaluation of a	9.58
Wilhite, Jr., Harold L. Initiatives to Improve the Nordic Energy Bill as a Carrier of Energy Information Resource Policy Group Sagveien 21 0458 Oslo 4, NORWAY 02 37 02 88 Williams, Monte Changing Housing Needs with Age: Lifestyle and Attitude Implications for Electricity Use and Management Lower Colorado River Authority P.O. Box 220, AD 203 Austin, TX 78767 (512) 473 3200		New Weatherization Measures System in Michigan Michigan Public Service Commission P.O. Box 30221 6545 Mercantile Way Lansing, MI 48909 (517) 373 8340	
		Wolcott, David R. Competitive Bidding of Demand-Side Management	6.11
		New York State Energy Research & Development Authority 2 Rockefeller Plaza Albany, NY 12223 (518) 465 6251	
		Wong, Vern Conservation Opportunities in Commercial Buildings: Utilizing End-Use Load Data to Simulate and Measure Conservation Savings	10.84
		Seattle City Light Room 304 1015 Third Ave. Seattle, WA 98104 (206) 684 3628	

Woychik, Eric C.

Value of Service and Least-Cost Planning: Writing on the Wall for Demand-Side Opportunities?

California Public
Utilities Commission
505 Van Ness Avenue
San Francisco, CA 94102
(415) 557 1997

Wrench, Laura

Influences of Energy Conservation in 2.102 Three Multi-Family Buildings in the Pacific Northwest

> United Industries Corp. 12835 Bell-Red Road Bellevue, WA 98005 (206) 453 8995

Wyatt, Edward

Measured Energy Performance of Cool 3.214 Storage in Commercial Buildings: An Update of BECA-LM

Lawrence Berkeley Laboratory B90H One Cyclotron Road Berkeley, CA 94720 (415) 486 4557

Yoder, Rachel

Predictors of Inefficient Retrofits in Hood 9.213 River Homes

Pacific Power & Light Room 440 PFFC 920 S.W. Sixth Avenue Portland, OR 97204 (503) 464 5985

Young, Marvin

The Residential Construction Demonstration Project Air-To-Air Heat Exchangers Performance Monitoring

Washington State Energy Office 809 Legion Way SE Olympia, WA 98504 (206) 586 5022

Zimmerman, Paul W.

Comparison of the Performance and Energy Savings Potential of Heat Pump, Solar, and Conventional Water Heaters in the Pacific Northwest

4.11

Pacific Northwest Laboratory MS P7-66 P.O. Box 999 Richland, WA 99352 509 376 6569

1.73

1.92