



# ENERGY SYSTEMS LABORATORY

TEXAS A&M ENGINEERING EXPERIMENT STATION

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TH — Thesis/Dissertation

HH — Hot and Humid Conference Proceedings

IC — ICEBO Conference Proceedings

IE — IETC Conference Proceedings

UP — Unpublished Paper

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ESL-TH-85-12-01	Study of Heat Transfer in Attics with a Small Scale Simulator, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Katipamula, S.	851201
ESL-TR-86-03-01	Energy Systems Group Annual Report, <i>Department of Mechanical Engineering, Energy Systems Laboratory, Texas A&amp;M University.</i>	Anand, N. K; Caton, J.; Heffington, W. M.; O'Neal, D. L.; Somasundaram, S.; Turner, W. D.	2108
ESL-TR-86-04-01	Energy Analysis and Energy Conservation Options for the Supreme Court and Attorney General Buildings, Final Report, <i>Prepared for the Energy Efficiency Division, Texas Public Utility Commission by The Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Farzad, M.; O'Neal, D. L.	2119
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ESL-PA-86-08-02	A Statistical Building Energy Usage Prediction Methodology, <i>Proceedings of the 1986 ACEEE Summer Study on Energy Efficiency in Buildings: Panel on Performance Measurement and Analysis</i> , Vol. 9, pp. 9.128-9.131.	Haberl, J.; Claridge, D. E.	156156
ESL-TR-86-08-01	An Analysis of Efficiency Improvements in Residential Sized Heat Pumps and Central Air Conditioners, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	O'Neal, D. L.; Boecker, C. L.; Penson, S.	2152
ESL-TR-86-09-03	Energy Analysis and Energy Conservation Option for the Warehouse Facility at the Human Services Center Complex, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Farzad, M.; O'Neal, D. L.	2163
ESL-TR-86-10-01	An Energy and Peak Loads Analysis of the Texas Department of Health Building, Final Report, <i>Prepared for the Energy Efficiency Division, Texas Public Utility Commission by The Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Katipamula, S.; O'Neal, D. L.	1975
ESL-PA-86-11-01	An Evaluation of the Placement of Radiant Barriers on their Effectiveness in Reducing Heat Transfer in Attics, <i>Proceedings of the 3rd Annual Symposium on Improving Building Energy Efficiency in Hot and Humid Climates</i> , Arlington, TX, November 18-19, 1986.	O'Neal, D.; Garibay, Y.	6870
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ESL-HH-86-11-11	An Evaluation of the Placement of Radiant Barriers on their Effectiveness in Reducing Heat Transfer in Attics, <i>Proceedings of the 3rd Annual Symposium on Improving Building Energy Efficiency in Hot and Humid Climates</i> , Arlington, TX, November 18-19, 1986.	Katipamula, S.; O'Neal, D. L.	6870
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ESL-HH-86-11-28	A Computer Analysis of Energy Use and Energy Conservation Options for a Twelve Story Office Building in Austin, Texas, <i>Proceedings of the 3<sup>rd</sup> Annual Symposium on Improving Building Energy Efficiency in Hot and Humid Clim</i>	Katipamula, S.; O'Neal, D. L.; Farzad, M.	6468
ESL-TR-87-03-01	An Energy and Peak Loads Analysis of the TYC/TRC Building – Final Report, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Katipamula, S.; O'Neal, D. L.	1986
ESL-PA-87-04-01	Performance of Triangular Spine Fins Under Frosting Conditions, <i>Journal of Heat Recovery Systems and CHP</i> , Volume 7, No. 4, 1987.	Kondepudi, S.; O'Neal, D. L.	8900361
ESL-TH-87-05-01	Design Optimization of Residential-Sized Air-Source Heat Pumps, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Boecker, C. L.	669
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ESL-TR-87-06-01	An Evaluation of Steady-State Dehumidification Characteristics of Residential Central Air Conditioners, Final Report, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University.</i>	O'Neal, D. L.; Chan, N.; Somasundaram, S.; Katipamula, S.	1997
ESL-PA-87-07-01	An Expert System for Building Energy Consumption Analysis: Prototype Results, <i>ASHRAE Transactions</i> , 1987, Vol. 93, Pt. 1, pp. 979 – 998.	Haberl, J.; Claridge, D. E.	1712161
ESL-PA-87-07-02	A Validation Study of Variable-Base Degree-Day Heating Calculations, <i>ASHRAE Transactions</i> , 1987, Vol. 93, Pt. 2, pp. 57 – 89.	Claridge, D. E.; Bida, M.; Krarti, M.; Jeon, H. S.; Hamzawi, E.; Zwack, W.; Weiss, I.	1714246
ESL-TR-87-07-03	Determination of the Transient Dehumidification Characteristics of High Efficiency Central Air Conditioners, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Katipamula, S.; O'Neal, D. L.; Somasundaram, S.	2008
ESL-TR-87-07-04	A Simplified Self-Help Approach to Sizing of Small-Scale Cogeneration Systems, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Somasundaram, S.; Turner, W. D.	2019
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ESL-HH-87-09-06	A Texas Study of the Effects of the National Appliance Energy Conservation Act of 1987	Bachmeier, R.	6474
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ESL-PA-88-04-01	Schwartz-Christoffel Transformation Applied to Steady-State Ground-Coupling Problems, <i>Solar Engineering 1988: Proceedings of the 10<sup>th</sup> Annual ASME Solar Energy Conference</i> , April 10 – 14, Denver, CO, pp. 411 – 420	Krarti, M.; Claridge, D. E.; Kreider, J. F.	788949
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ESL-TH-88-08-01	The Effect of Alternate Defrost Strategies on the Reverse-Cycle Defrost of an Air-Source Heat Pump, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Schliesing, J. S.	94832
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ESL-PA-88-09-02	Metered Data Analysis and Knowledge Based Methods that Reduce HVAC Operation and Maintenance Problems, <i>Proceedings of the 5th Annual Symposium on Improving Building Systems in Hot and Humid Climates</i> , September 13-14, Houston, TX, pp. 65 – 71.	Haberl, J.S.; Smith, L.; Kreider, J.F.	6514
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ESL-TH-88-12-03	An Analysis of Energy Use in Two Texas State Agencies, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Rothbauer, K.	8455
ESL-TH-88-12-04	Internship experience at Lockwood, Andrews & Newman, Inc., <i>Doctor of Engineering, College of Engineering, Texas A&amp;M University.</i>	Bolander, J.	767309
ESL-TR-89-03-01	An Evaluation of the Effects of Refrigerant Charge on a Residential Central Air Conditioner with Orifice Expansion, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University.</i>	O'Neal, D. L.; Ramsey, C.J.; Farzad, M.	2086
ESL-PA-89-05-01	Effect of Frost Growth on the Performance of Louvered Finned Tube Heat Exchangers, <i>International Journal of Refrigeration</i> , Vol. 12, May, pp. 151 – 158.	Kondepudi, S. N.; O'Neal, D. L.	9900303
ESL-TH-89-05-03	Reducing energy costs at state agencies and institutions in Texas through the Governor's Energy Management Center, <i>Doctor of Engineering, College of Engineering, Texas A&amp;M University.</i>	White, J. A.	6953308
ESL-PA-89-06-01	Diagnosing Building Operational Problems: Intelligent Systems for Diagnosing Operational Problems in HVAC Systems, <i>ASHRAE Journal</i> , June, Vol. 31, No. 6, pp. 20 – 30.	Haberl, J.; Norford, L. K.; Spadaro, J. V.	5779691
ESL-PA-89-06-03	Refrigeration System Dynamics During the Reverse Cycle Defrost, <i>ASHRAE Transactions</i> , 1989, Vol. 95, Pt. 2.	O'Neal, D. L.; Peterson, K. T.; Anand, N. K.; Schliesing, J. S.	1718655
ESL-PA-89-06-04	Effects of Outdoor Coil Fan Pre-Start on Pressure Transients During the Reverse Cycle Defrost of a Heat Pump, <i>ASHRAE Transactions</i> , 1989, Vol. 95, Part 2, pp. 699-704.	Anand, N. K.; Schliesing, J. S.; O'Neal, D. L.; Peterson, K. T.	1718656

ESL-TR-89-06-02	Policy Recommendations for Establishing the LoanSTAR Monitoring and Analysis Program, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Claridge, D. E.; O'Neal, D. L.; Turner, W. D.	2088
ESL-TR-89-07-01	Energy Use, Information, and Behavior in Small Commercial Buildings, PU/CEES Report No. 240, <i>The Center for Energy and Environmental Studies, Princeton University.</i>	Komor, P.; Kempton, W.; Haberl, J.	86199
ESL-TR-89-08-01	An Evaluation of Improper Refrigerant Charge on the Performance of a Split System Air Conditioner with a Thermal Expansion Valve, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Farzad, M.; O'Neal, D. L.	2089
ESL-TR-89-08-02	Shower Testing for the Texas Department of Corrections, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Claridge, D. E.; Turner, W. D.; Chen, L.	2090
ESL-PA-89-09-01	Investigating an Analytical Basis for Improving Commercial Building Energy Audits: Early Results from a New Jersey Mall, <i>Proceedings of the Thermal Performance of the Exterior Envelope of Buildings IV, ASHRAE/DOE/BTECC/CIBSE, Orlando, FL, Sept., pp. 302 – 331.</i>	Haberl, J.; Komor, P. S.	1989
ESL-PA-89-09-02	A Simplified Self-Help Way to Size Small-Scale Cogeneration Systems, <i>Cogeneration Journal, Vol. 4, No. 4, pp. 61 – 79.</i>	Somasundaram, S.; Turner, W. D.; Katipamula, S.	2019
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ESL-PA-89-10-03	Considerations for Energy Efficient Showers in Hot-Humid Climates, Proceedings of the 6th Annual Symposium on Improving Building Systems in Hot and Humid Climates, October 3-4, Dallas, TX, pp. B29 – B33.	Claridge, D. E.; Turner, W. D.	6570
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ESL-HH-89-10-09	Considerations for Energy Efficient Showers in Hot-Humid Climates, <i>Proceedings of the 6<sup>th</sup> Annual Symposium on Improving Building Systems in Hot and Humid Climates</i> , October 3-4, Dallas, TX, pp. B29 – B33.	Claridge, D. E.; Turner, W. D.	6570
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ESL-PA-90-05-02	The Measured Energy Impact of Infiltration in a Test Cell, <i>Journal of Solar Energy Engineering, ASME Transactions</i> May 1990, Vol. 112, pp. 132 – 139	Claridge, D. E.; Bhattacharyya, S.	1455002
ESL-PA-90-05-03	The Princeton Boiler Plant Electronic Logbook Project, <i>Proceedings of the ACEEE 1990 Summer Study on Energy Efficiency in Buildings</i> , Vol. 3, pp. 3.91 – 3.93	Englander, S. L.; Reynolds, C. L.; Haberl, J.	1893
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ESL-PA-90-08-02	An Evaluation of Institutional Energy Audits Performed for the Texas LoanSTAR Program, <i>Proceedings of the ACEEE 1990 Summer Study on Energy Efficiency in Buildings</i> , Vol. 6, pp. 6.43-6.45.	Haberl, J.; Doruk, Z. B.; Heffington, W. M.	2156
ESL-PA-90-08-03	Improving Energy Audits: How Annual and Monthly Consumption Data Can Help, <i>ASHRAE Journal 1990 (Part 1 of 2)</i> , Vol. 32, No. 8, pp. 26-33.	Haberl, J.; Komor, P. S.	255098
ESL-TH-90-08-01	Development of Improvements to the ASHRAE TC4.7 Simplified Energy Analysis Procedure, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Balasubramanya, R.	900801
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ESL-PA-90-09-01	Improving Energy Audits: How Daily and Hourly Consumption Data Can Help, <i>ASHRAE Journal 1990 Pt. 2</i> , Vol. 32, No. 9, pp. 26 - 36.	Haberl, J.; Komor, P. S.	23987179
ESL-PA-90-10-01	Overview of the Texas LoanSTAR Monitoring Program, <i>Proceedings of the 7th Annual Symposium on Improving Building Systems in Hot and Humid Climates 1990</i> , October 9-10, Ft. Worth, TX, pp. 28 - 34.	Turner, W.D.	6593
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ESL-PA-90-10-05	Analysis of Texas LoanSTAR Data, <i>Proceedings of the 7th Annual Symposium on Improving Building Systems in Hot and Humid Climates 1990</i> , October 9-10, Ft. Worth, TX, pp. 53 - 60.	Claridge, D. E.; Haberl, J.; Katipamula, S.; O'Neal, D. L.; Ruch, D.; Chen, L.; Heneghan, T.; Hinchey, S.; Kissock, J. K.; Wang, J.	6597
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ESL-HH-90-10-09	Analysis of Texas LoanSTAR Data, <i>Proceedings of the 7th Annual Symposium on Improving Building Systems in Hot and Humid Climates 1990</i> , October 9-10, Ft. Worth, TX, pp. 53 - 60.	Claridge, D. E.; Haberl, J.; Katipamula, S.; O'Neal, D. L.; Ruch, D.; Chen, L.; Heneghan, T.; Hinchey, S.; Kissock, J. K.; Wang, J.	6597
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ESL-PA-90-12-01	The Impact of AI Technology Within the HVAC Industry, <i>ASHRAE Journal</i> , December 1990, Vol. 32, No. 12, pp. 12 – 22	Culp, C.; Haberl, J.; Norford, L.; Brothers, P.; Hall, J. D.	2365478
ESL-TR-90-12-02	Improved Analysis Methods for Retrofit Savings and Energy Accounting (ERAP #227), <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Claridge, D. E.; Haberl, J.; Kissock, J. K.; Ruch, D.; Katipamula, S.; Chen, L.; Wang, J.	2093
ESL-TR-91-01-01	Texas LoanSTAR Monitoring and Analysis Program—Monitoring Advisory and Review Committee (January 1991), <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Turner, W. D.; Heffington, W. M.; Bryant, J.; Haberl, J.; Willis, E. D.; Sparks, R. J.; López, R. E.; Claridge, D. E.	2094
ESL-PA-91-01-02	Effect of Short-Tube Orifice Size on the Performance of an Air Source Heat Pump During the Reverse-Cycle Defrost, <i>International Journal of Refrigeration</i> , January 1991, Vol. 14, Issue 1, pp. 52 – 57	O'Neal, D. L.; Peterson, K.; Anand, N. K.	1900229
ESL-PA-91-03-04	A Methodology to Identify Diurnal Load Shapes for Non-Weather Dependent Electric End-Uses, <i>ASME Solar Engineering</i> 1991, pp. 457 – 467.	Katipamula, S.; Haberl, J.	1991
ESL-PA-91-03-05	A Change-Point Principal Component Analysis (CP/PCA) Method for Predicting Energy Usage in Commercial Buildings: The PCA Model, <i>Solar Engineering 1991: Proceedings of the ASME-JSES-JSME International Solar Energy Conference</i> , Reno, Nevada, March 1991, pp. 441 – 448.	Ruch, D.; Chen, L.; Haberl, J.; Claridge, D. E.	1455303
ESL-TR-91-03-01	Prairie View A&M University Whole Campus Energy Analysis, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Haberl, J.; Claridge, D. E.; Turner, W. D.	2095
ESL-TR-91-03-05	Use of Energy Management and Control Systems for Performance Monitoring of Retrofit Projects: Preliminary Engineering Survey, USDOE Forrestal Building and Germantown Facility, <i>USDOE Office of Conservation and Energy, Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Claridge, D. E.; Haberl, J.; Bryant, J.; Poyner, B.; McBride, J.	2096
ESL-PA-91-04-01	Exploring an Integrated Data Base Structure for Building Energy Monitoring Data, <i>Proceedings of the IBPSA Building Simulation 1991 Conference</i> , Nice, FR, pp. 587 – 591.	Haberl, J.; Jagannathan, V.; López, R. E.; Sparks, R. J.; Kissock, J. K.; Willis, E. D.; Claridge, D. E.	19912
ESL-TH-91-05-02	An Experimental and Analytical Study of the Transient Behavior of Vertical U-Tube Ground-Coupled Heat Pumps in the Cooling Mode, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Dobson, M. K.	635
ESL-TH-91-05-03	The Measured Energy Impact of Air Leakage on Frame Wall Systems, <i>Doctoral Dissertation, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Bhattacharyya, S.	154830
ESL-TH-91-05-04	Developing a Change-Point Principal Component Predictive Model for Energy Use in a Supermarket, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Chen, L.	518
ESL-PA-91-06-01	Performance Degradation During On-Off Cycling of Single-Speed Air Conditioners and Heat Pumps: Model Development and Analysis, <i>ASHRAE Transactions</i> 1991, Vol. 97, pp. 316 – 323.	Katipamula, S.; O'Neal, D. L.	1712006
ESL-PA-91-06-02	Performance Degradation During On-Off Cycling of Single-Speed Heat Pumps Operating in the Cooling Mode: Experimental Results, <i>ASHRAE Transactions</i> 1991, Vol. 97, Pt. 2, pp. 331 – 339.	Katipamula, S.; O'Neal, D. L.	42971
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ESL-PA-91-08-01	Improving Energy Conservation Retrofits with Measured Savings, <i>ASHRAE Journal</i> , October, No. 10, pp. 14 – 22	Claridge, D. E.; Haberl, J.; Turner, W. D.; O'Neal, D. L.; Heffington, W. M.; Tombari, C.; Roberts, M.; Jaeger, S.	5505041
ESL-TH-91-08-01	Influence of Thermal Zone Assumptions on DOE-2 Energy Use Estimations of a Commercial Building, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University</i>	Hinchey, S.	659
ESL-TR-91-08-01	Texas LoanSTAR Monitoring and Analysis Program: Report to the Monitoring Advisory and Review Committee, August 1991 (Volume I), <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i>	Turner, W. D.; Claridge, D. E.; Athar, A.; Kissock, J. K.; Reddy, T. A.; Ruch, D.; Haberl, J.; Katipamula, S.; Willis, E. D.; López, R. E.; Sparks, R. J.; Bryant, J.; O'Neal, D. L.; Heffington, W. M.; Brown, M.	2098
ESL-TR-91-08-02	Texas LoanSTAR Monitoring and Analysis Program: Report to the Monitoring Advisory and Review Committee, August 1991 (Volume II), <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i>	Turner, W. D.; Claridge, D. E.; Athar, A.; Kissock, J. K.; Reddy, T. A.; Ruch, D.; Haberl, J.; Katipamula, S.; Willis, E. D.; López, R. E.; Sparks, R. J.; Bryant, J.; O'Neal, D. L.; Heffington, W. M.; Brown, M.	2099
ESL-TR-91-09-02	Use of Energy Management and Control Systems for Performance Monitoring of Retrofit Projects: Final Summary Report for the USDOE Office of Conservation and Energy, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> (final revision March 1993)	Claridge, D. E.; Haberl, J.; Sparks, R. J.; Bryant, J.; Belur, R.; Poyner, B. Akbari, H.; Heinemeier, K.; Lippman, R.; McBride, J.	2100
ESL-PA-91-11-01	System Performance Characteristics of an Air Conditioner over a Range of Charging Conditions, <i>International Journal of Refrigeration</i> , November 1991, Vol. 14, Issue 6, pp. 321 – 328	Farzad, M.; O'Neal, D. L.	79190
ESL-PA-91-11-02	Frosting Performance of Tube Fin Heat Exchangers with Wavy and Corrugated Fins, <i>Experimental Thermal and Fluid Science</i> , September 1991, Vol. 4, Issue 5, pp. 613 – 618.	Kondepudi, S. N.; O'Neal, D. L.	777919
ESL-PA-91-11-03	Transient Dehumidification Characteristics of a Heat Pump in Cooling Mode, <i>Journal of Solar Energy Engineering, ASME Transactions</i> , Vol. 113, November, pp. 264 – 271.	Katipamula, S.; O'Neal, D. L.	28232
ESL-PA-91-11-09	Testing Data Acquisition Systems for Use in HVAC System Monitoring, <i>Journal of Solar Energy Engineering, ASME Transactions</i> , Vol. 1, pp. 325 – 328.	Sparks, R. J.; Haberl, J. S.; Bhattacharyya, S.; Rayaprolu, M.; Wang, J.; Vadlamani, S.	136206
ESL-TH-91-12-01	Influence of Dust on the Emissivity of Radiant Barriers, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Noboa, H. L.	911201
ESL-TH-91-12-04	Analysis and Optimized Design of Airlocks for Fluidized Bed Gasifier Fuel Feed Systems, <i>Masters of Engineering, College of Engineering, Texas A&amp;M University</i> .	Nuboer, B.	962
ESL-TR-91-12-02	Simulation of the Post-Retrofit Thermal Energy Use for the Perry-Castaneda Library Building with the Use of Simplified System Models, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Katipamula, S.; Claridge, D. E.	2101
ESL-TR-91-12-03	Simulation of the Post-Retrofit Thermal Energy Use for the University Teaching Center (UTC) Building with the Use of Simplified System Models, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Katipamula, S.; Claridge, D. E.	2102
ESL-PA-92-01-01	Comparing Monitoring Protocols for Energy Retrofits, <i>ASHRAE Transactions</i> , 1992, Vol. 98, Pt. 1, pp. 1081 – 1096	Haberl, J.; Athar, A.; Abbas, M.; Claridge, D. E.	1715615
ESL-PA-92-01-02	Monitored Commercial Building Energy Data: Reporting the Results, <i>ASHRAE Transactions</i> , 1992, Vol. 98, Pt. 1, pp. 881 – 889	Claridge, D. E.; Haberl, J.; Sparks, R. J.; López, R. E.; Kissock, J. K.	1716918
ESL-PA-92-01-03	A Procedure for Calibrating the DOE-2 Simulation Program to Non-Weather Dependent Measured Loads, <i>ASHRAE Transactions</i> , 1992, Vol. 98, Pt. 1, pp. 636 – 652	Bronson, D. J.; Hinchey, S. B.; Haberl, J.; O'Neal, D. L.	1716851
ESL-PA-92-02-01	The Effect of Void Fraction Model on Estimation of Air Conditioner System Performance Variables under a Range of Refrigerant Charging Conditions, <i>International Journal of Refrigeration</i> , 1994, Vol. 17, No. 2, pp. 85 – 93	Farzad, M.; O'Neal, D. L.	7949004
ESL-PA-92-02-02	Graphical Tools to Help Calibrate the DOE-2 Simulation Program to Measured Loads, <i>The DOE-2 User News</i> , January 1993, Vol. 13, No. 1, pp. 5 – 14	Haberl, J.; Bronson, D.; Hinchey, S.; O'Neal, D. L.; Claridge, D. E.	25512969
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ESL-PA-92-02-16	Building Energy Instrumentation for Determining Retrofit Savings: Thermal and Flow Meter Equipment Selection. <i>Proceedings of the 8th Symposium on Improving Building Systems in Hot and Humid Climates 1992</i> , May 13-14, Dallas, Tx, pp.10	Boecker, C.; Boles, K.; O'Neal, D.; Bryant, J.	8797
ESL-PA-92-02-17	Radiant Barrier Performance during the Heating Season	Medina, M. A.; O'Neal, D. L.; Turner, W. D.	92902
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ESL-TR-92-02-23	Prairie View A&M University Whole Campus Energy Report Update, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i>	Haberl, J.; Claridge, D. E.; Turner, W. D.	2103
ESL-PA-92-03-01	Monitored Air Handler Performance and Comparison with a Simplified System Model, <i>ASHRAE Transactions: Symposium 1992</i> , Vol. 98, Pt. 2, pp. 341 – 351	Katipamula, S.; Claridge, D. E.	1716786
ESL-TH-92-04-01	Calibrating DOE-2 to Weather and Non-Weather-Dependent Loads for a Commercial Building: Thesis, Vol. 1, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University</i>	Bronson, John Douglas	869
ESL-TR-92-04-02	Calibrating DOE-2 to Weather and Non-Weather-Dependent Loads for a Commercial Building: Data Processing Routines to Calibrate a DOE-2 Model, Volume II, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> , Vol. 2, pp. 1277 – 1283	Bronson, J. D.	2104
ESL-PA-92-04-07	Measuring Retrofit Savings for the Texas LoanSTAR Program: Preliminary Methodology and Results, <i>Solar Engineering 1992: Proceedings of the 1992 ASME-JSES-KSES International Solar Energy Conference</i> , Maui, HI, April 5 – 9, Vol. 1, pp. 299 – 308	Kissock, J. K.; Claridge, D. E.; Haberl, J.; Reddy, T. A.	1992
ESL-PA-92-04-12	The Energy Impact on Air Leakage Through Insulated Walls, <i>Solar Engineering 1992: Proceedings of the 1992 ASME-JSES-KSES International Solar Energy Conference</i> , August 1994, Maui, HI, Vol. 1, pp. 451 – 458	Bhattacharyya, S.; Claridge, D. E.	1455487
ESL-IE-92-04-01	Measuring and Understanding Energy Efficiency Changes in Manufacturing	French, D.; Carlson, L.; Hall, C.	92164
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ESL-PA-92-05-01	Exploring an Enhanced Data Viewing Facility for Building Operators, <i>Proceedings of the ACEEE 1992 Summer Study on Energy Efficiency in Buildings</i> , pp. 3.33 – 3.36.	Belur, R.; Kissock, J. K.; Haberl, J.;	15616
ESL-PA-92-05-02	Uncertainty Analysis in Estimating Building Energy Retrofit Savings in the LoanSTAR Program, <i>Proceedings of the ACEEE 1992 Summer Study on Energy Efficiency in Buildings</i> , pp. 3.225 – 3.238.	Reddy, T. A.; Kissock, J. K.; Claridge, D. E.	41565
ESL-PA-92-05-03	NAC for Linear and Change-Point Building Energy Models, <i>Proceedings of the ACEEE 1992 Summer Study on Energy Efficiency in Buildings</i> , Vol. 3, pp. 263 – 273.	Ruch, D. K.; Claridge, D. E.	14565
ESL-PA-92-05-04	The Use of a Monthly Whole-Campus Energy Analysis for Evaluating a Third Party Energy Service Agreement, <i>Proceedings of the ACEEE 1992 Summer Study on Energy Efficiency in Buildings</i> , pp. 3.95 – 3.110.	Haberl, J.	15489
ESL-PA-92-05-06	A Four-Parameter Change-Point Model for Predicting Energy Consumption in Commercial Buildings, <i>Journal of Solar Energy Engineering, ASHRAE Transactions</i> , May, Vol. 114, pp. 77 – 83.	Ruch, D.; Claridge, D. E.	1455201
ESL-TR-92-05-05	Monitoring the Performance of a Residential Central Air Conditioner under Degraded Conditions on a Test Bench, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Palani, M.; O'Neal, D. L.; Haberl, J.	2105
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ESL-TR-92-06-02	LoanSTAR Monitoring and Analysis Program Building Energy Monitoring Workbook Submitted to the Texas Governor's Energy Office by the Improved Energy Audit Process Task (Aug. 1992), <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Haberl, J.; Lopez, R.; Sparks, R.	2106
ESL-PA-92-07-02	A Thermal Mass Treatment for the TC 4.7 Simplified Energy Analysis Procedure, <i>1992 ASHRAE Transactions: Research</i> , pp. 320 – 327.	Claridge, D. E.; Norford, L. K.; Balasubramanya, R.	1716761

ESL-PA-92-07-03	A Multiclimatic Comparison of the Improved TC 4.7 Simplified Energy Analysis Procedure with DOE 2, 1992 <i>ASHRAE Transactions: Research</i> , pp. 305 – 319.	Balasubramanya, R.; Claridge, D. E.; Norford, L. K.; Kreider, J. F.	1716758
ESL-TH-92-08-05	A Quasi-Steady State Model to Predict Heat Transfer and Energy Savings in Residences Using Radiant Barriers, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Winiarski, D. W.	772
ESL-TH-92-08-06	Study of Air Infiltration Energy Consumption, <i>Doctoral Dissertation, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Liu, M.	6463
ESL-TR-92-08-04	A Field Study on Residential Air Conditioning Peak Loads During Summer in College Station, Texas, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Reddy, T. A.; Vaidya, S.; Griffith, L.; Bhattacharyya, S.; Claridge, D. E.	2107
ESL-PA-92-09-02	Effect of Attic Ventilation on the Performance of Radiant Barriers, <i>Journal of Solar Energy Engineering, ASHRAE Transactions</i> , pp. 234 – 239.	Medina, M. A.; O'Neal, D. L.; Turner, W. D.	1455266
ESL-TH-92-11-01	Monitoring the Performance of a Residential Central Air Conditioner under Reduced Evaporator Air Flow on a Test Bench, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Palani, M.	154829
ESL-PA-92-12-01	A Part Load Factor for a Heat Pump Derived from Laboratory Measurements, <i>Energy and Buildings</i> , 19, pp. 125 – 132.	Katipamula, S.; O'Neal, D. L.	900063
ESL-TH-92-12-04	Development of a Transient Heat and Mass Transfer Model of Residential Attics to Predict Energy Savings Produced by the Use of a Radiant Barrier, <i>Doctoral Dissertation, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Medina, M. A.	94831
ESL-TH-92-12-05	An Experimental Study of Heating Performance and Seasonal Modeling of Vertical U-Tube Ground Coupled Heat Pumps, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Margo, R. E.	3293
ESL-TH-92-12-06	The Effects of Airflow Modulation and Multi-Stage Defrost on the Performance of an Air Source Heat Pump, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Payne, W. V.; II	3586
ESL-TR-92-12-02	Calculating Energy and Demand Retrofit Savings for Stroman High School: Interim Report, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Liu, Y.; Reddy, T. A.; Katipamula, S.; Claridge, D. E.	2109
ESL-TR-92-12-03	Calculating Energy and Demand Retrofit Savings for Victoria High School: Interim Report, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Liu, Y.; Reddy, T. A.; Katipamula, S.; Claridge, D. E.	2110
ESL-TR-92-12-07	A Comprehensive Review of the Tests Completed on the Flowloop at the Energy Systems Laboratory (Draft), <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Robinson, J.	2111
ESL-PA-93-01-02	A Study of Energy Use in Grocery Stores, <i>ASHRAE Transactions</i> , January, Vol. 99, Pt. 1.	Cox, R. L.; Haberl, J.; Claridge, D. E.	1717154
ESL-PA-93-01-03	Influence of the Expansion Device on Air-Conditioner System Performance Characteristics under a Range of Charging Conditions, <i>ASHRAE Transactions</i> , January, Vol. 99, Pt. 1.	Farzad, M.; O'Neal, D. L.	1716603
ESL-PA-93-01-04	A Simplified Model of Pin Fin Heat Exchangers under Frosting Conditions, <i>ASHRAE Transactions</i> , January, Vol. 99, Pt. 1.	Kondepudi, S. N.; O'Neal, D. L.	1717073
ESL-PA-93-01-05	Characterizing Steam and Chilled-Water Use for a Large Campus in Central Texas, <i>ASHRAE Transactions Symposia</i> , Vol. 99, Pt. 2, June, pp. 465 – 476.	Haberl, J.; Beasley, R. C.; Thompson, D. L.	1716473
ESL-PA-93-01-06	Defrost Cycle Performance for an Air-Source Heat Pump Operating with a Scroll and a Reciprocating Compressor, <i>Proceedings of the 28<sup>th</sup> InterSociety Energy Conversion Engineering Conference: Energy, Environment, Economics</i> , August, Vol. 1, pp. 1.903 – 1.907.	Payne, V.; O'Neal, D. L.	70079
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ESL-PA-93-04-06	Effect of Air-Conditioner Oversizing and Control on Electric-Peak Loads in a Residence, <i>Energy Journal</i> , Vol. 18, pp. 1139 – 1152.	Reddy, T. A.; Claridge, D. E.	390086
ESL-PA-93-04-09	A Nondimensional Analysis of Vertical-Configuration Ground-Coupled Heat Pump Startup, <i>Journal of Solar Energy Engineering, ASHRAE Transactions</i> , Vol. 115, pp. 220 – 225.	Dobson, M. K.; O'Neal, D. L.; Wolfe, M. L.	1455351
ESL-TR-93-04-07	Economic Calculations for the ASHRAE Handbook, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Haberl, J.	197606
ESL-TR-93-04-08	Potential Operation and Maintenance (O&M) Savings at the Dunbar Middle and Sims Elementary Schools, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Liu, M.; Houcek, J. K.; Claridge, D. E.; Haberl, J.	2114
ESL-PA-93-05-03	Calculation of the Shape Factor from a Small Rectangular Plane to a Triangular Surface Perpendicular to the Rectangular Plane without a Common Edge, <i>Journal of Solar Energy Engineering 1993, ASHRAE Transactions</i> , Vol. 115, pp. 117 – 119.	Noboa, H. L.; O'Neal, D. L.; Turner, W. D.	1455313
ESL-PA-93-05-05	Use of Simplified System Models to Measure Retrofit Energy Savings, <i>Journal of Solar Energy Engineering 1993, ASME Transactions</i> , Vol. 115, pp. 57 – 68.	Katipamula, S.; Claridge, D. E.	1455298
ESL-TR-93-05-01	Sample Annual Energy Consumption Report and Monthly Energy Consumption Report for Zachry Engineering Center, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Staff	2115
ESL-TH-93-05-02	Two-Phase Flow of HCFC-22 and HFC-134a Through Short Tube Orifices, <i>Doctoral Dissertation, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Kim, Yongchan	6314
ESL-TR-93-05-03	Properties of CV[NAC] for Linear Energy Models, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Ruch, D.	2116
ESL-PA-93-06-04	A Development and Comparison of NAC Estimates for Linear and Change-Point Energy Models for Commercial Buildings, <i>Energy and Buildings</i> , Vol. 20, pp. 87 – 95.	Ruch, D. K.; Claridge, D. E.	78893
ESL-TR-93-06-01	LoanSTAR Monitoring and Analysis Program: Presentation Summary of the State Capitol Complex Building Operation and Maintenance Field Test, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Turner, W. D.; Houcek, J. K.; Liu, M.; Claridge, D. E.	2117
ESL-TR-93-06-02	Energy Management and Control Systems and their Use for Performance Monitoring in the LoanSTAR Program, Prepared for the Lawrence Berkeley Laboratory, University of California, Energy and Environment Division, <i>The Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Heinemeier, K. E.; Akbari, H.	2118
ESL-TR-93-06-03	Texas LoanSTAR Monitoring and Analysis Program: Report to the Monitoring and Advisory Review Committee, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Turner, W. D.; O'Neal, D.; Claridge, D. E.; Heffington, W.; Haberl, J.; Reddy, T. A.; Saman, N.	2120
ESL-TR-93-07-01	Potential Operation and Maintenance (O&M) Savings at Schools in the Ft. Worth Independent School District, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Liu, M.; Reddy, T. A.; Claridge, D. E.; Haberl, J.	2121
ESL-PA-93-08-07	Development of Non-Dimensional Cycling Model for Estimating the Seasonal Performance of Air Conditioners, <i>ASME Transactions: Journal of Solar Energy Engineering</i> , Vol. 115, August, pp. 176 – 181.	O'Neal, D. L.; Katipamula, S.	1455336
ESL-TH-93-08-01	Energy Conservation Opportunities in Commercial and Industrial Facilities: Energy Utilization Indices (EUI) in Texas LoanSTAR Buildings, <i>Masters Thesis Report, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Phillips, M. L.	154828
ESL-TH-93-08-02	The Influence of Dust on the Absorptivity of Radiant Barriers, <i>Doctoral Dissertation, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Noboa, H. L.	6425
ESL-TH-93-08-04	A Simplified Methodology for Sizing Ground Coupled Heat Pump Heat Exchangers in Cooling Dominated Climates, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Gonzales, Jose A.	643
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ESL-PA-93-09-03	Improving Heat Pumps and Air Conditioning, <i>Mechanical Engineering</i> , September, 1993, Vol. 115, No. 9, pp. 98 – 102.	Braven, K. D.; Herold, K.; Mei, V.; O'Neal, D. L.; Penoncello, S.	415644
ESL-PA-93-09-04	Performance of Finned-Tube Heat Exchangers under Frosting Conditions: 1. Simulation Model, <i>International Journal of Refrigeration</i> , Vol. 16, No. 3, pp. 175 – 180.	Kondepudi, S. N.; O'Neal, D. L.	7939004
ESL-PA-93-09-05	Performance of Finned-Tube Heat Exchangers under Frosting Conditions: 2. Comparison of Experimental Data with Model, <i>International Journal of Refrigeration</i> , Vol. 16, No. 3, pp. 181 – 184.	Kondepudi, S. N.; O'Neal, D. L.	7939
ESL-TR-93-09-01	Guidelines for Measuring Air Infiltration Heat Exchange Effectiveness (IHEE), Submitted to the Texas Higher Education Coordination Board Energy Research Application Program Project #227, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Liu, M.; Claridge, D. E.	2122
ESL-PA-93-10-01	An Energy Delivery Efficiency Index to Evaluate Simultaneous Heating and Cooling Effects in Large Commercial Buildings, <i>Journal of Solar Energy Engineering, ASME Transactions</i> , Vol. 116, pp. 79 – 87.	Reddy, T. A.; Kissock, J. K.; Katipamula, S.; Claridge, D. E.	1455388
ESL-PA-93-10-02	Using Synthetic Data to Evaluate Multiple Regression and Principal Component Analyses for Statistical Modeling of Daily Building Energy Consumption, <i>Energy and Buildings</i> , Vol 21, pp. 35 – 44.	Reddy, T. A.; Claridge, D. E.	949
ESL-TR-93-10-03	Summary of UTMB O&M Project: Energy Conservation Potential in Five Buildings, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Liu, M.; Athar, A.; Reddy, T. A.; Claridge, D. E.; Haberl, J.	2123
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ESL-TR-93-10-07	Potential Operation and Maintenance (O&M) Savings in the John Sealy North Building at UTMB, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Liu, M.; Athar, A.; Reddy, T. A.; Claridge, D. E.; Haberl, J.	2127
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ESL-TR-93-12-04	Pre-Retrofit Lighting Study at the University of Texas at Arlington, Texas, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Houcek, J. K.; Claridge, D. E.; Haberl, J.	2131
ESL-TR-93-12-09	Analysis of Energy Conservation Options for USDOE Child Development Center, Draft, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Bou-Saada, T. E.; Haberl, J.	2132
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ESL-PA-94-01-04	The Functional Basis of Thermal Energy Use in Air-Side HVAC Equipment, <i>ASME Journal of Solar Energy Engineering</i> , Vol. 117, pp. 31-39.	Reddy, T. A.; Katipamula, S. K.; Claridge, D. E.	1455437
ESL-PA-94-01-05	Two-Phase Flow of R-22 through Short-Tube Orifices, <i>ASHRAE Transactions: Research</i> , Vol. 100, Pt. 1.	Kim, Y.; O'Neal, D. L.	1715591
ESL-PA-94-02-01	The Effect of Void Fraction Model on Estimation of Air Conditioner System Performance Variables Under a Range of Charging Conditions, <i>International Journal of Refrigeration</i> , Volume 17, No. 2, pp. 85-93, February, 1994.	Farzad, M.; O'Neal, D.	7949
ESL-TR-94-02-01	Phase A: Initial Development of an Advanced Diagnostic Procedure for Air-Side Retrofits in Commercial Buildings, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Reddy, T. A.; Kissock, J. K.; Katipamula, S.; Claridge, D. E.	2133
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ESL-PA-94-06-01	Predicting Hourly Building Energy Use: The Great Energy Predictor Shootout – Overview and Discussion of Results, <i>ASHRAE Transactions</i> , Vol. 100, Pt. 2, pp. 1104-1118.	Kreider, J. F.; Haberl, J.	1716675
ESL-PA-94-06-02	Predicting Hourly Building Energy Usage: The Results of the 1993 Great Energy Predictor Shootout Identify the Most Accurate Method for Making Hourly Energy Use Predictions, <i>ASHRAE Journal</i> , Vol. 35, No. 3, pp. 72 – 81.	Kreider, J. F.; Haberl, J.	940602
ESL-PA-94-06-03	Generalization of the Fourier Series Approach to Model Hourly Energy Use in Commercial Buildings, <i>ASME Journal of Solar Energy Engineering</i> , Vol 121, pp. 54-62, 1994.	Dhar, A.; Reddy, T. A.; Claridge, D. E.	145589
ESL-PA-94-06-05	Two-Phase Flow of HFC-134a and CFC-12 Through Short-Tube Orifices, <i>ASHRAE Transactions: Symposia</i> , Vol. 100, Pt. 2.	Kim, Y.; O'Neal, D. L.; Yuan, X.	1716515
ESL-PA-94-07-02-1	Bayesian Nonlinear Modeling for the Prediction Competition, from "The Great Energy Predictor Shootout I: Measuring Retrofit Energy Savings," <i>ASHRAE Transactions</i> , Vol. 100, Pt. 2.	MacKay, D. J. C.	1716670
ESL-PA-94-07-02-2	Predicting System Loads with Artificial Neural Networks – Methods and Results from "The Great Energy Predictor Shootout: Measuring Retrofit Energy Savings," <i>ASHRAE Transactions</i> , Vol. 100, Pt. 2.	Ohisson, M. B. O.; Peterson, C. O.; Pi, H.; Rognvaldsson, T. S.; Soderberg, B. P. W.	1712029
ESL-PA-94-07-02-3	Generalized Nonlinear Regression with Ensemble of Neural Nets: "The Great Energy Predictor Shootout: Measuring Retrofit Energy Savings," <i>ASHRAE Transactions</i> , Vol. 100, Pt. 2.	Feuston, B. P.; Thurtell, J. H.	1716671
ESL-PA-94-07-02-4	Using Artificial Neural Nets to Predict Building Energy Parameters, from "The Great Energy Predictor Shootout I: Measuring Retrofit Energy Savings," <i>ASHRAE Transactions</i> , Vol. 100, Pt. 2.	Stevenson, W. J.	1716672
ESL-PA-94-07-02-5	A Piecewise-Linear Regression on the ASHRAE Time-Series Data, from "The Great Energy Predictor Shootout I: Measuring Retrofit Energy Savings," <i>ASHRAE Transactions</i> , Vol. 100, Pt. 2.	Iijima, M.; Takagi, K.; Takeuchi, R.; Matsumoto, T.	1716673
ESL-PA-94-07-02-6	Artificial Neural Network Backpropagation Model with Three-Phase Annealing Developed for the Building Energy Predictor Shootout, from "The Great Energy Predictor Shootout I: Measuring Retrofit Energy Savings," <i>ASHRAE Transactions</i> , Vol. 100, Pt. 2.	Kawashima, M.	1716674
ESL-PA-94-07-04	A Procedure for Plotting the Sun-Path Diagram, and Shading Mask Protector, <i>Journal of Solar Energy Engineering, ASME Transactions</i> , May 1995, Vol. 117, pp. 153–156.	McWatters, K.; Haberl, J.	1455479
ESL-PA-94-07-05	Development of a Transient Simulation Model of a Freezer Part 1: Model Development, <i>Proceedings of the 1994 International Refrigeration Conference at Purdue</i> , July 19-22, Purdue University, West Lafayette, IN, pp. 213–218.	Yuan, X.; O'Neal, D. L.	1249
ESL-PA-94-07-06	Development of a Transient Simulation Model of a Freezer Part 2: Comparison of Experimental Data with Model, <i>Proceedings of the 1994 International Refrigeration Conference at Purdue</i> , July 19-22, Purdue University, West Lafayette, IN, pp. 219–224.	Yuan, X.; O'Neal, D. L.	1250
ESL-PA-94-07-07	The Effect of Oil on the Two-Phase Critical Flow of Refrigerant 134a Through Short Tube Orifices, <i>International Journal of Heat Mass Transfer</i> , Vol. 37, No. 9, pp. 1377–1385.	Kim, Y.; O'Neal, D. L.	901848
ESL-TR-94-07-01	Instructions for "The Great Building Energy Predictor Shootout II: Measuring Retrofit Energy Savings," <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Haberl, J.; Kreider, J. F.	2137
ESL-TR-94-07-08	Preliminary Study of O&M Opportunities at the University of Texas Medical Branch at Galveston, Submitted to The Energy Management and Operations Department at UTMB Galveston, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Liu, M.; Zhu, Y.; Claridge, D. E.; Haberl, J.	2138

ESL-PA-94-08-05	Can You Achieve 150% of Predicted Retrofit Savings? Is It Time for Recommissioning? <i>ACEEE Summer Study</i> , August, Vol. 5, pp. 5.73 – 5.87	Claridge, D. E.; Haberl, J.; Liu, M.; Houcek, J.; Athar, A.	8193
ESL-TH-94-08-02	Electrical Energy Monitoring in an Industrial Plant, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Dorhofer, F.	695
ESL-TH-94-08-03	Demand, Energy, and Power factor, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Gough, M.	940803
ESL-PA-94-09-01	A Semi-Empirical Model of Two-Phase Flow of Refrigerant-134a Through Short Tube Orifices, <i>Experimental Thermal and Fluid Science</i> , Volume 9, pp. 426-435, September 1994.	Kim, Y.; O'Neal, D. L.	949002
ESL-TR-94-10-01	Texas LoanSTAR Monitoring and Analysis Program: Monitoring Equipment Installation Manual (October 1994), <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i>	Bohmer, C.; Lippman, R.; McBride, J.; Casebolt, C.	2139
ESL-TH-94-12-01	An Improved Procedure for Developing a Calibrated Hourly Simulation Model of an Electrically Heated and Cooled Commercial Building, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Bou-Saada, T. E.	86260
ESL-TH-94-12-05	Analysis of Mass Flow and Enhanced Mass Flow Methods of Flashing Refrigerant-22 from a Small Vessel, <i>Doctoral Dissertation, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Nutter, D. W.	6426
ESL-TH-94-12-12	An Experimental Investigation of the Effect of Oil on Convective Heat Transfer and Pressure Drop of a HFC-32/HFC-125 Mixture, <i>Doctoral Dissertation, Department of Mechanical Engineering, Texas A&amp;M University</i>	McJmsey, B. A.	6423
ESL-TH-94-12-13	Numerical Modeling of the Transient Thermal Interference of Vertical U-Tube Heat Exchangers, <i>Doctoral Dissertation, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Muraya, N. K.	6422
ESL-TR-94-12-01	Advanced DOE-2 Calibration Procedures: A Technical Reference Manual, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Bou-Saada, T. E.	2140
ESL-TR-94-12-03	Thermal Energy Measurement with Tangential Paddlewheel Flow Meters: Summary of Experimental Results and <i>in-situ</i> Diagnostics, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Haberl, J.; Watt, J.	2142
ESL-TR-94-12-04	Cool Storage Applications in the Texas LoanSTAR Program: Overview and Preliminary Results, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Abbas, M.; Haberl, J.; Turner, W. D.	2143
ESL-TR-94-12-06	The USDOE Forrester Building Lighting Retrofit: Preliminary Analysis of Electricity Savings, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Haberl, J.; Bou-Saada, T. E.; Vajda, E. J.; Shincovich, M.; D'Angelo III, L.; Harris, L.	2144
ESL-TR-94-12-07	Bias in Predicting Annual Energy Use in Commercial Buildings with Regression Models Developed from Short Data Sets, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Katipamula, S.; Reddy, T. A.; Claridge, D. E.	2145
ESL-TR-94-12-08	A Modified Analytical Method for Simulating Cyclic Operation of Vertical U-Tube Ground-Coupled Heat Pumps, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Dobson, M. K.; O'Neal, D. L.; Aldred, W.	2146
ESL-TR-94-12-11	Analysis of Energy Conservation Options for USDOE Child Development Center, Final Summary Report, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Bou-Saada, T. E.; Haberl, J.	2147
ESL-TR-94-12-12	Two-Phase Flow of Two HFC Refrigerant Mixtures Through Short Tube Orifices, Draft Final Report, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Payne, W. V.; O'Neal, D. L.	2148
ESL-PA-95-01-01	Comparison of Energy Prediction of Three Ground-Coupling Heat Transfer Calculation Methods, <i>ASHRAE Transactions: Research</i> , Vol. 101, Pt. 1, pp. 158 – 172.	Krarti, M.; Claridge, D. E.; Nicoulin, C.V.; Kreider, J. F.	1716051
ESL-PA-95-01-02	Frequency Response Analysis of Ground-Coupled Building Envelope Surfaces, <i>ASHRAE Transactions: Research</i> , Vol. 101, Pt. 1, pp. 355 – 369.	Krarti, M.; Claridge, D. E.; Kreider, J. F.	1716080
ESL-PA-95-01-03	Atrium Buildings: Thermal Performance and Climatic Factors, <i>ASHRAE Transactions: Research</i> , Vol. 101, Pt. 1, pp. 454 – 460.	Atif, M. R.; Claridge, D. E.; Boyer, L. L.; Degelman, L. O.	1716088
ESL-TR-95-01-04	Reduce Building Energy Consumption by Improving the Supply Air Temperature Schedule and Recommissioning the Terminal Boxes, Submitted to the Energy Management and Operations Division at the M.D. Anderson Cancer Center, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Liu, M.; Athar, A.; Zhu, Y.; Claridge, D. E.	2149
ESL-PA-95-02-01	The Functional Basis of Steady-State Thermal Energy Use in Air-Side HVAC Equipment, <i>Journal of Solar Energy Engineering, ASHRAE Transactions</i> , Vol. 117, pp. 31 – 39.	Reddy, T. A.; Katipamula, S.; Kissock, J. K.; Claridge, D. E.	1455437
ESL-PA-95-03-01	Thermal Energy Measurement with Tangential Paddlewheel Flow Meters: Summary of Experimental Results and <i>In-Situ</i> Diagnostics, <i>Solar Engineering 1995: Proceedings of the 1995 ASME/JSME/JSES International Solar Energy Conference</i> , Maui, HI, March 19 – 24, Vol. 2, pp. 741 – 750.	Haberl, J.; Watt, J.	2142
ESL-TR-95-03-01	Cool Storage Applications in the Texas LoanStar Program: Overview and Preliminary Results, <i>Energy Systems Laboratory, Texas A&amp;M University</i> .	Abbas, M.; Haberl, J.; Turner, W. D.	94835
ESL-PA-95-04-01	Bias in Predicting Annual Energy Use in Commercial Buildings with Regression Models Developed from Short Data Sets, <i>Solar Engineering 1995: Proceedings of the 1995 ASME/JSME/JSES International Solar Energy Conference</i> , Maui, HI, March 19 – 24, Vol. 1, pp. 99 – 110.	Katipamula, S.; Reddy, T. A.; Claridge, D. E.	2145
ESL-PA-95-04-02	A Bin Method for Calculating Energy Conservation Retrofit Savings in Commercial Buildings, <i>Solar Engineering 1995: Proceedings of the 1995 ASME/JSME/JSES International Solar Energy Conference</i> , Maui, HI, March 19 – 24, Vol. 1, pp. 111 – 123.	Thamilseran, S.; Haberl, J.	6640
ESL-PA-95-04-03	Empirical Correlations Between Annual Cost Savings and Implementation Costs for Various Categories of Energy Conservation Retrofit Projects in Commercial Buildings, <i>Solar Engineering 1995: Proceedings of the 1995 ASME/JSME/JSES International Solar Energy Conference</i> , Maui, HI, March 19–24, Vol. 1, pp. 135–144.	Saman, N. F.; Britton, A. J.; Reddy, T. A.; Heffington, W. M.	113302
ESL-PA-95-04-04	An Artificial Neural Network with Wavelet Basis Functions to Predict Hourly Heating and Cooling Energy Use in Commercial Buildings with Temperature as the Only Weather Variable, <i>Solar Engineering 1995: Proceedings of the 1995 ASME/JSME/JSES International Solar Energy Conference</i> , Maui, HI, March 19 – 24, Vol. 1, pp. 145 – 156.	Dhar, A.; Claridge, D. E.; Ruch, D.	113303
ESL-PA-95-04-05	Recurrent Neural Networks for Building Energy Use Prediction and System Identification – a Progress Report, <i>Solar Engineering 1995: Proceedings of the 1995 ASME/JSME/JSES International Solar Energy Conference</i> , Maui, HI, March 19 – 24, Vol. 1, pp. 157 – 165.	Kreider, J. F.; Claridge, D. E.; Curtis, P.; Dodier, R.; Haberl, J.; Krarti, M.	113304
ESL-PA-95-04-06	Cool Storage Applications in the Texas LoanSTAR Program: Overview and Preliminary Results, <i>Solar Engineering 1995: Proceedings of the 1995 ASME/JSME/JSES International Solar Energy Conference</i> , Maui, HI, March 19 – 24, Vol. 1, pp. 187 – 195.	Abbas, M.; Haberl, J.; Turner, W. D.	2143
ESL-PA-95-04-07	Application of Calibrated HVAC System Models to Identify Component Malfunctions and to Optimize the Operation and Control Schedules, <i>Solar Engineering 1995: Proceedings of the 1995 ASME/JSME/JSES International Solar Energy Conference</i> , Maui, HI, March 19 – 24, Vol. 1, pp. 209 – 217.	Liu, M.; Claridge, D. E.	113309
ESL-PA-95-04-08	Heat Flux Error of Steady-State Method for Building Components under Dynamic Conditions, <i>Solar Engineering 1995: Proceedings of the 1995 ASME/JSME/JSES International Solar Energy Conference</i> , Maui, HI, March 19 – 24, Vol. 1, pp. 219 – 227.	Liu, M.; Claridge, D. E.	113310
ESL-PA-95-04-09	Development of a Transient Heat and Mass Transfer Model of Residential Attics Used to Simulate Radiant Barrier Retrofits, <i>Solar Engineering 1995: Proceedings of the 1995 ASME/JSME/JSES International Solar Energy Conference</i> , Maui, HI, March 19 – 24, Vol. 1, pp. 253 – 263.	Medina, M. A.; O'Neal, D. L.; Turner, W. D.	113313

ESL-PA-95-04-10	Modeling the Delay Hot/Cold Water Problem, <i>Solar Engineering 1995: Proceedings of the 1995 ASME/JSME/ISES International Solar Energy Conference</i> , Maui, HI, March 19 – 24, Vol. 1, pp. 265 – 271.	Saman, N. F.; Mahdi, H.	113314
ESL-PA-95-04-11	The USDOE Forrester Building Lighting Retrofit: Preliminary Analysis of Electricity Savings, <i>Solar Engineering 1995: Proceedings of the 1995 ASME/JSME/ISES International Solar Energy Conference</i> , Maui, HI, March 19 – 24, Vol. 1, pp. 295 – 304.	Haberl, J.; Bou Saada, T. E.; Vajda, E. J.; Shincovich, M.; D'Angelo III, L. A.; Harris, L.	2144
ESL-PA-95-04-12	A Modified Analytical Method for Simulating Cyclic Operation of Vertical U-Tube Ground-Coupled Heat Pumps, <i>Solar Engineering 1995: Proceedings of the 1995 ASME/JSME/ISES International Solar Energy Conference</i> , Maui, HI, March 19 – 24, Vol. 1, pp. 69 – 76.	Dobson, M. K.; O'Neal, D. L.; Aldred, W.	2146
ESL-PA-95-04-13	Effect of a Ninety Degree Elbow on the Accuracy of a Non-Magnetic, Insertion Paddle Wheel Flowmeter, <i>Solar Engineering 1995: Proceedings of the 1995 ASME/JSME/ISES International Solar Energy Conference</i> , Maui, HI, March 19 – 24, Vol. 2, pp. 731 – 740.	Parker, B.; O'Neal, D. L.	116220
ESL-PA-95-04-15	A Fourier Series Model to Predict Hourly Heating and Cooling Energy Use in Commercial Buildings with Outdoor Temperature as the Only Weather Variable, <i>Solar Engineering 1995: Proceedings of the 1995 ASME/JSME/ISES International Solar Energy Conference</i> , Maui, HI, March 19 – 24, Vol. 1, pp. 125 – 134.	Dhar, A.; Reddy, T. A.; Claridge, D. E.	1455893
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ESL-PA-95-05-02	Analytical Model to Predict Nonhomogeneous Soil Temperature Variation, <i>Journal of Solar Energy Engineering, ASME Transactions</i> , Vol. 117, pp. 100 – 107.	Krarti, M.; Claridge, D. E.; Kreider, J. F.	1455460
ESL-PA-95-05-03	A Procedure for Plotting the Sun-Path Diagram, and Shading Mask Protector, <i>Journal of Solar Energy Engineering</i> , May 1995, Vol. 117 / 153.	McWatters, K.; Haberl, J.	1455479
ESL-TH-95-05-03	Development of Fourier Series and Artificial Neural Network Approaches to Model Hourly Energy Use in Commercial Buildings, <i>Doctoral Dissertation, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Dhar, A.	154825
ESL-TH-95-05-04	The Effects of Outdoor Heat Exchanger Hydrophobic Treatment on the Performance of an Air Source Heat Pump, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Parker, B. D.	375
ESL-TH-95-05-05	A Prediction of Energy Savings Resulting from Building Infiltration Control, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University</i> .	McWatters, K. R.	6691
ESL-PA-95-07-01	A Weather-Daytyping Procedure for Disaggregating Hourly End-Use Loads in an Electrically Heated and Cooled Building from Whole-Building Hourly Data, <i>Proceedings of the 30<sup>th</sup> Intersociety Energy Conversion Engineering Conference</i> , July 30 – August 4, 1995.	Bou-Saada, T. E.; Haberl, J.	163292
ESL-PA-95-07-02	Reducing Building Energy Costs using Improved Operation Strategies for Constant-Volume Air-Handling Systems, <i>ASHRAE Transactions 1995</i> , Vol. 101, Pt. 2, pp. 688 – 700.	Liu, M.; Athar, A.; Reddy, T. R.; Claridge, D. E.; Haberl, J.; White, E.	1716267
ESL-PA-95-07-03	An Evaluation of the Impact of Using Measured Weather Data Vs. TMY Weather Data in a DOE-2 Simulation, <i>ASHRAE Transactions 1995</i> , Vol. 101, Pt. 2, pp. 558 – 576.	Haberl, J.; Bronson, D. J.; O'Neal D. L.	1716256
ESL-PA-95-08-01	An Improved Procedure for Developing Calibrated Hourly Simulation Models, <i>Proceedings of the 4<sup>th</sup> International Building Performance Simulation Association Conference</i> , August 14-16.	Bou-Saada, T. E.; Haberl, J.	94780
ESL-PA-95-08-02	Effect of Time Resolution on Statistical Modeling of Cooling Energy Use in Large Commercial Buildings, <i>ASHRAE Transactions 1995</i> , Vol. 101, Pt. 2.	Katipamula, S.; Reddy, T. A.; Claridge, D. E.	1716200
ESL-PA-95-08-06	Building Energy Use Prediction and System Identification using Recurrent Neural Networks, <i>ASME Journal of Solar Energy Engineering</i> , Vol. 117, pp. 161 – 166.	Kreider, J. F.; Claridge, D. E.; Curtiss, P.; Dodier, R.; Haberl, J.; Krarti, M.	1455485
ESL-PA-95-08-07	The Energy Impact of Air Leakage through Insulated Walls, <i>Journal of Solar Energy Engineering, ASME Transactions</i> , Vol. 117, pp. 167 – 172.	Bhattacharyya, S.; Claridge, D. E.	1455487
ESL-PA-95-08-08	Building Energy Use Prediction and System Identification using Recurrent Neural Networks, <i>Journal of Solar Energy Engineering: Transactions of the ASME</i> , August, Vol. 117, pp. 161 – 166.	Kreider, J. F.; Claridge, D. E.; Curtiss, P.; Dodier, R.; Haberl, J.; Krarti, M.	1455485
ESL-PA-95-08-09	An Analytical Solution to Transient Heat Conduction in a Composite Region with a Cylindrical Heat Source, <i>ASME Journal of Solar Energy Engineering</i> , Volume 117, No. 3, pp. 242-248, August, 1995.	Gu, Y.; O'Neal, D. L.	36686
ESL-TH-95-08-01	Effect of Refrigerant Charge, Duct Leakage, and Evaporator Air Flow on the High Temperature Performance of Air Conditioners and Heat Pumps, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Rodriguez, Angel Gerardo	6163
ESL-TH-95-08-02	The Effect of Hardware Configuration on the Performance of Residential Air Conditioning Systems at High Outdoor Ambient Temperatures, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Bain, J. A.	355
ESL-TH-95-08-03	Performance of Energy Management Control Systems (EMCS) in Selected Texas LoanSTAR Buildings, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Schmode, M.	154824
ESL-TH-95-08-04	Effect of Backfill on the Performance of a Vertical U-Tube Ground Coupled Heat Pump, <i>Doctoral Dissertation, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Gu, Y.	154823
ESL-TR-95-08-04	Savings Analysis of Utility Bills for Unmonitored Sites, Volume I: Procedures, Results, and Discussion, Texas LoanSTAR Monitoring and Analysis Program, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Wei, G.; Eggebrecht, J.; Saman, N. F.; Claridge, D. E.	2150
ESL-TR-95-08-05	Savings Analysis of Utility Bills for Unmonitored Sites, Volume II: Detailed Savings Calculations, Texas LoanSTAR Monitoring and Analysis Program, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Wei, G.; Eggebrecht, J.; Saman, N. F.; Claridge, D. E.	2151
ESL-PA-95-09-04	Impact of Air Infiltration in Frame Walls on Energy Loads: Taking Advantage of the Interaction between Infiltration, Solar Radiation, and Conduction, Published in the <i>Airflow Performance of Building Envelopes, Components and Systems</i> , Edited by Mark P. Modera and Andrew K. Persily.	Claridge, D.; Liu, M.; Bhattacharyya, S.	41861
ESL-PA-95-09-05	An Advanced Economizer Controller for Dual Duct Air Handling Systems-with a Case Application, <i>Tsinghua-HVAC-'95 Conference</i> , Beijing, China.	Liu, M.; Claridge, D. E.	6681
ESL-TR-95-09-01	Testing and Economic Evaluation of a High Efficiency 10 Ton Rooftop Air Conditioner, Final Report submitted to the Environmental Protection Agency, Global Change Division, Washington, D.C., <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	O'Neal, D. L.; Davis, M. A.	4476
ESL-TR-95-09-02	The Great Building Energy Predictor Shootout II: Measuring Retrofit Energy Savings, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Thamilseran, S.; Haberl, J.	2153
ESL-TR-95-10-01	Development of Baseline Monthly Utility Models, Stabilization of Data Logging Environment and Development of Metering Plan and Shopping List for Fort Hood, Texas, Research sponsored by U.S. Army Construction Engineering Research Laboratories, Champaign, Illinois, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Saman, N. F.; Reddy, T. A.; Haberl, J.; Claridge, D. E.; Turner, W. D.	2154
ESL-PA-95-11-01	A Comparison of Critical Flow Models for Estimating Two-Phase Flow of HCFC22 and HFC134a through Short Tube Orifices, <i>International Journal of Refrigeration</i> , Vol. 18, No. 7, pp. 447 – 455.	Kim, Y.; O'Neal, D. L.	795937
ESL-TR-95-11-01	A Report on the Environmental Impact of the Texas LoanSTAR Program from May 1989 to September 1995, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Abbas, M.; Turner, W. D.; Claridge, D. E.; Haberl, J.; Saman, N. F.	2155
ESL-PA-95-12-02	A Comparison of Critical Flow Models for Estimating Two-Phase Flow of HCFC 22 and HFC 134a Through Short Tube Orifices, <i>International Journal of Refrigeration</i> , Vol. 18, No. 7, December, 1995.	Kim, Y.; O'Neal, D. L.	93785

ESL-TH-95-12-01	Comparison of the Prediction Accuracy of Daily and Monthly Regression Models for Energy Consumption in Commercial Buildings, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Wang, J.	364
ESL-TH-95-12-02	Aerosol Deposition in Transport Lines	Muyschondt, A.	154826
ESL-TH-95-12-03	Effects of Hydrophobic Surface Treatments on Dropwise Condensation and Freezing of Water, <i>Doctoral Dissertation, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Bryant, J. A.; O'Neal, D. L.	154822
ESL-TR-95-12-02	The USDOE Forrestal Building Lighting Retrofit: Analysis of Electrical and Thermal Energy Savings, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Haberl, J.; Bou-Saada, T. E.	2156
ESL-TR-95-12-03	DOE-2 Simulations for Cuero and Karnes County Prison Sites: Draft Progress Report, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Bou-Saada, T. E.; Munger, B. K.; Saman, N. F.; Haberl, J.	94836
ESL-PA-96-01-01	Impact of the Suction Line Accumulator on the Frost/Defrost Performance of an Air-Source Heat Pump with a Scroll Compressor, <i>ASHRAE Transactions: Research</i> , Vol. 102, Pt. 1, pp. 284 - 290, January, 1996.	Nutter, D. W.; O'Neal, D. L.; Payne, W. V.	1715545
ESL-TR-96-01-01	Preliminary Study of Advanced Diagnostic Prescreening Methods Volume 1: Summary, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Landman, D. S.; Haberl, J.	2157
ESL-TR-96-02-01	Measuring Energy-Saving Retrofits: Experiences from the Texas LoanSTAR Program, <i>Oak Ridge National Laboratory Report No. ORNL/Sub/93-SP090/1, Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Haberl, J.; Reddy, T. A.; Claridge, D. E.; Turner, W. D.; O'Neal, D. L.; Heffington, W. M.	2484
ESL-PA-96-03-02	Status of Residential Short-Term Performance Monitoring Methods, <i>Solar Engineering 1996: Proceedings of the 1996 International Solar Energy Conference</i> , San Antonio, TX, March 31 - April 3, pp. 359 - 367.	Reddy, T. A.	438670
ESL-PA-96-03-03	Energy Audit Process Simplifications from the Texas LoanSTAR Program, <i>ASHRAE Transactions 1996</i> , Vol. 102, Pt. 1, pp. 68 - 75.	Heffington, W. M.; Saman, N. F.; Britton, A. J.; Reddy, A. T.	1715900
ESL-PA-96-03-04	Analysis of a Cool Storage System at a Multipurpose Convention Center, <i>Solar Engineering 1996: Proceedings of the 1996 International Solar Energy Conference</i> , San Antonio, TX, March 31 - April 3, pp. 379 - 386.	Abbas, M.; Haberl, J.; Claridge, D. E.; O'Neal, D. L.	438672
ESL-TR-96-03-01	Development and Use of Baseline Monthly Utility Models for Eight Army Installations Around the United States, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Reddy, T. A.; Saman, N. F.; Claridge, D. E.; Haberl, J.; and Turner, W. D.	2158
ESL-PA-96-04-03	Generalization of the Fourier Series Approach to Model Hourly Energy Use in Commercial Buildings, <i>Transactions of the ASME</i> , February 1999, Volume 121, pp. 54-62.	Dhar, A.; Reddy, T. A.; Claridge, D. E.	1455895
ESL-TR-96-04-01	Data Polling Routine (PlotHood) to Generate Weekly Inspection Plots for Fort Hood, Texas, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Saman, N. F.; Reddy, T. A.; Haberl, J.; Claridge, D. E.; Turner, W. D.	2159
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ESL-PA-96-07-03-1	The Great Energy Predictor Shootout II: Measuring Retrofit Savings – Overview and Discussion of Results, <i>ASHRAE Transactions 1996</i> , Vol. 102, Pt. 2, pp. 419-435.	Haberl, J.; Thamilsaran, S.	1715969
ESL-PA-96-07-03-2	Great Energy Predictor Shootout II: Modeling Energy Use in Large Commercial Buildings, <i>ASHRAE Transactions 1996</i> , Vol. 102, Pt. 2.	Katipamula, S.	1715964
ESL-PA-96-07-03-3	Great Energy Predictor Shootout II: A Bayesian Nonlinear Regression with Multiple Hyperparameters, from "The Great Energy Predictor Shootout II: Measuring Retrofit Energy Savings," <i>ASHRAE Transactions 1996</i> , Vol. 102, Pt. 2.	Chonan, Y.; Nishida, K.; Matsumoto, T.	1715966
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ESL-TR-96-09-01	Operational Performance Evaluation of Boiler 9 at the TAMU Power Plant at College Station, Submitted to the Power Plant of Texas A&M University, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Wei, G.; Veteto, B.; Liu, M.	2162
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ESL-PA-96-12-02	A Quasi-Steady State Model of Attic Heat Transfer in the Radiant Barriers, <i>Energy and Buildings</i> , Vol. 24, No. 3, pp. 183-194, December, 1996.	Winiarski, D.; O'Neal, D. L.	70141
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ESL-TH-97-05-02	Development and Application of a Procedure to Estimate Overall Building and Ventilation Parameters from Monitored Commercial Building Energy Use, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Deng, S.	6428
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ESL-TR-97-06-01	Lighting Survey Results at the Langford Architecture Center and Estimated Savings by Delamping, <i>Energy Systems Laboratory, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Soebarto, V. I.; Haberl, J.; Degelman, L. O.	2171
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ESL-PA-97-07-02	Baselining Methodology for Facility-Level Monthly Energy Use -- Part 2: Application to Eight Army Installations, <i>ASHRAE Transactions 1997</i> , Vol. 103, Pt. 2.	Reddy, T. A.; Haberl, J.; Saman, N. F.; Turner, W. D.; Claridge, D. E.; Chalifoux, A. T.	1715872
ESL-TH-97-08-01	A Methodology for in-situ Calibration of Steam Boiler Instrumentation, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Wei, Guanghua	970801

ESL-PA-97-09-01	New Educational Software for Teaching the Sunpath Diagram and Shading Mask Protractor, <i>Proceedings of the 1997 IBPSA Building Simulation Conference, Prague, Czech Republic, September.</i>	Oh, J. K. W.; Haberl, J.	94778
ESL-PA-97-09-03	The Influence of Orifice Size on the Mass Flow During Flash Boiling of HCFC-22 from a Small Vessel, <i>ASME Journal of Energy Resources Technology</i> , Vol. 119, No. 3, pp. 193-199, September 1997.	Nutter, D.W.; O'Neal, D. L.	1413655
ESL-TR-97-09-01	Task #3: Audit of Lone Star Gas Invoices and Billing Procedures, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Turner, W. D.; Liu, M.	2172
ESL-PA-97-11-01	Experimental Investigation of Steel Spheres as a Passive Enhancement Technique for Flash Boiling of HCFC-22, <i>Experimental Thermal and Fluid Science</i> , Vol. 15, No. 4, pp. 336-346, Nov. 1997.	Nutter, D.W.; O'Neal, D. L.	970000
ESL-TR-97-11-01	Determining Long-Term Performance of Cool Storage Systems from Short-Term Tests, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Haberl, J.; Claridge, D. E.; Reddy, T. A.; Elleson, J.	2173
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ESL-TH-97-12-04	The Effect of Fan and Heat Sink Design on Heat Removal from Microprocessor Chips, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Baltrip, K. G.	15054
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ESL-PA-98-01-03	Impact of Hydrophobic Coating on the Frost Buildup and Defrost Performance of a Heat Pump Evaporator, <i>Thermal Science and Engineering</i> , Vol. 6, No. 1, pp. 91-97, January 1998.	O'Neal, D. L.; Bryant, J. A.; Parker, B.	86026
ESL-PA-98-01-05	Mass Flow Characteristics of R407c Through Short Tube Orifices, <i>ASHRAE Transactions: Research</i> , Vol. 104, Pt.1, pp. 197-209, January 1998.	Payne, V. W.; O'Neal, D. L.	25475
ESL-TR-98-03-01	Determining Long-Term Performance of Cool Storage Systems from Short-Term Tests, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Reddy, T. A.; Elleson, J.; Haberl, J. S.; Claridge, D. E.	1976
ESL-TR-98-04-01	Simulation Results: Final Report, Presented to the Energy/Monitoring Services, Facilities and Site Services UTMDA Cancer Center	Athar, A.; Claridge, D.; Mingsheng, L.; Wang, W. Y.	158438
ESL-PA-98-04-01	An Experimental Investigation of the Use of an Auxiliary Heater to Promote More Vapor Generation during Flash Boiling of HCFC-22, <i>Experimental Heat Transfer</i> , Vol. 11, No. 1, pp. 41-57, April 1998.	Nutter, D.W.; O'Neal, D. L.	2332377
ESL-IE-98-04-01	Saving Energy and Reducing Emissions from the Regeneration Air System of a Butane Dehydrogenation Plant	John, T. P.	91131
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ESL-TH-98-05-01	Development of Pre-Screening Indices to Improve Energy Analysis of Public K-12 Schools, <i>Masters Thesis, Department of Mechanical Engineering, Energy Systems Laboratory, Texas A&amp;M University.</i>	Landman, D. S.	980501
ESL-TH-98-05-04	Sources of Error in Chilled and Hot Water Metering at Shared Sites: Differential Pressure Transmitters and Flowmeter Installation, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Corley, M.	15602
ESL-PA-98-06-01	Development of an Equivalent Diameter Expression for Vertical U-Tubes Used in Ground-Coupled Heat Pumps, <i>ASHRAE Transactions: Research</i> , Vol. 104, Pt. 2, June 1998.	Gu, Y.; O'Neal, D.L.	1711153
ESL-PA-98-06-02	Modeling the Effect of Backfills on U-Tube Ground Coil Performance, <i>ASHRAE Transactions: Research</i> , Vol. 104, Pt. 2, June 1998.	Gu, Y.; O'Neal, D.L.	1711154
ESL-PA-98-06-03	Program Overview: The Texas LoanSTAR Program; 1989-August 1997	Turner, W. D.; Claridge, D. E.; O'Neal, D. L.; Haberl, J.; Heffington, W. M.; Harvey, T.; Sifuentes, T.	6718
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ESL-HH-98-06-01	Use of Calibrated Simulation for the Evaluation of Residential Energy Conservation Options of Two Habitat for Humanity Houses in Houston, Texas	Haberl, J.; Bou-Saada, T.; Soebarto, V.; Reddy, A.	6711
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ESL-PA-98-08-01	Modeling Hourly Energy Use in Commercial Buildings with Fourier Series Functional Forms, <i>Journal of Solar Energy Engineering</i> , Vol. 120, pp. 217-223.	Dhar, A.; Reddy, T. A.; Claridge, D. E.	1455856
ESL-PA-98-08-02	Ambient-Temperature Regression Analysis for Estimating Retrofit Savings in Commercial Buildings, <i>ASME Journal of Solar Energy Engineering</i> , Vol. 120, pp. 168-176.	Kissock, J. K.; Reddy, T. A.; Claridge, D. E.	1455842
ESL-PA-98-08-03	A Perspective on Methods for Analysis of Measured Energy Data from Commercial Buildings, <i>ASME Journal of Solar Energy Engineering</i> , Vol. 120, pp. 150-155.	Claridge, D. E.	1455835
ESL-PA-98-08-04	Development of Graphical Indices for Viewing Building Energy Data: Part I, <i>ASME Journal of Solar Energy Engineering</i> , Vol. 120, pp. 156-161.	Haberl, J.; Abbas, M.	1455837
ESL-PA-98-08-05	Development of Graphical Indices for Viewing Building Energy Data: Part II, <i>ASME Journal of Solar Energy Engineering</i> , Vol. 120, pp. 162-167.	Haberl, J.; Abbas, M.	1455840
ESL-PA-98-08-06	Procedures for Calibrating Hourly Simulation Models to Measured Building Energy and Environmental Data, <i>ASME Journal of Solar Energy Engineering</i> , Vol. 120, pp.193-204.	Haberl, J.; Bou-Saada, T. E.	1455849
ESL-PA-98-08-07	Multivariate Regression Modeling, <i>ASME Journal of Solar Energy Engineering</i> , Vol. 120, pp. 177-184.	Katipamula, S.; Reddy, T. A.; Claridge, D. E.	1455845
ESL-PA-98-08-08	An Evaluation of Residential Energy Conservation Options Using Side-by-Side Measurements of Two Habitat for Humanity Houses in Houston, Texas, <i>Proceedings of the 1998 ACEEE Summer Study on Energy Efficiency in Buildings</i> , pp. 1.115-1.134.	Haberl, J.; Bou-Saada, T.; Reddy, A.; Soebarto, V.	1451654
ESL-PA-98-11-01	A Case Study of an Industrial Assessment Center Extended Assessment, <i>Proceedings of the 21<sup>st</sup> World Energy Engineering Congress</i> , Atlanta, GA, pp. 13-21, November 1998.	Heffington, W. M.; Eggebrecht, J. A.; Gafford, G. D.; Farouz, H. E.	99859
ESL-TR-98-11-01	Rebuild America Program – Brazos Valley Energy Conservation Coalition – Quarterly Progress Report for July – September 1998, <i>Energy Systems Laboratory, Texas A&amp;M University</i> .	Yazdani, B.; Haberl, J.; Turner, W. D.; Claridge, D. E.	1978
ESL-TH-98-12-01	A Methodology to Develop Monthly Energy Use Models from Utility Billing Data for Seasonally Scheduled Buildings: Application to Schools, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Wang, W.	93388
ESL-TR-98-12-01	Energy Analysis, Baseline and Modeling of Prairie View A&M University Campus, <i>Energy Systems Laboratory, Texas A&amp;M University</i> .	Abushakra, B.; Haberl, J.; Claridge, D. E.; Eggebrecht, J.; Carlson, K.	1979
ESL-TR-99-01-01	Development of Energy-Efficient Housing for Low-Income Texas Residents, <i>Energy Systems Laboratory, Texas A&amp;M University</i> .	Haberl, J.; Kootin-Sanwu, V.	1980
ESL-TR-99-03-01	Sample M&V Plan from the Texas Workshop "Preparing and Evaluating Measurement and Verification Plans for Energy Performance Contracts in Texas", <i>Energy Systems Laboratory, Texas A&amp;M University</i> .	Haberl, J.	1981
ESL-PA-99-04-02	Modeling the transient outlet pressure and mass flow during flashing of HCFC-22 in a small non-adiabatic vessel, <i>Mathematical and Computer Modeling</i> , Vol. 29, pp. 105-116, No. 2, 1999.	D. W. Nutter, and D.L. O'Neal, D. L.	779900
ESL-PA-99-05-02	An Analysis of Two Industrial Assessment Center Extended Assessments	Farouz, H. E.; Gafford, G. D.; Eggebrecht, J. A.; Heffington, W. M.	91122
ESL-TH-99-05-02	An Inverse Bin Methodology to Measure the Savings from Energy Conservation Retrofits in Commercial Buildings, <i>Doctoral Dissertation, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Thamileran, S.	154788
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ESL-PA-99-07-01	Engineering Uncertainty Analysis in the Evaluation of Energy and Cost Savings of Cooling System Alternatives Based on Field-Monitored Data, <i>ASHRAE Transactions</i> 1999 , Vol. 105, Pt. 2.	Reddy, T. A.; Haberl, J.; Elleson, J. S.	2365064
ESL-TH-99-08-01	A Methodology for Baselining the Energy Use at Large Campus Utility Plants for the Purpose of Measuring Energy Savings from Energy Conservation Retrofits, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Beasley, R. C.	990801
ESL-TH-99-08-02	A Real Time Self-Tuning Algorithm for PI Control of the Heating and Cooling Coils of Buildings, <i>Doctoral Dissertation, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Zhou, Q.	154787
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ESL-TR-99-12-01	Compilation of Diversity Factors and Schedules for Energy and Cooling Load Calculations – Identified Relevant Data Sets, Methods, and Variability Analysis, ASHRAE Research Project 1093, Phase II Report, <i>Energy Systems Laboratory, Texas A&amp;M University</i> .	Abushakra, B.; Haberl, J.; Claridge, D. E.	1983
ESL-TR-99-12-02	Report of Energy Efficiency Study and Metering/Utilities Profile for Electricity Deregulation At Tarleton State University (TSU), Stephenville, Texas, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Zhu, Y.; Bryant, J.; Turner, W. D.; Claridge, D. E.	1984
ESL-TR-99-12-03	Report of Energy Efficiency Study and Metering/Utilities Profile for Electricity Deregulation at Texas A&M International University (TAMIU) Laredo, Texas, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Zhu, Y.; Turner, W. D.; Claridge, D. E.	1985
ESL-TR-99-12-04	Report of Energy Efficiency Study and Metering/Utilities Profile for Electricity Deregulation at Texas A&M University - Corpus Christi (TAMU-CC) Corpus Christi, Texas, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Zhu, Y.; Turner, W. D.; Claridge, D. E.	1987
ESL-TR-99-12-05	Report of Energy Efficiency Study and Metering/Utilities Profile for Electricity Deregulation at Texas A&M University at Galveston (TAMU-G) Galveston, Texas, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Zhu, Y.; Turner, W. D.; Claridge, D. E.	1988
ESL-TR-99-12-06	Report of Energy Efficiency Study and Metering/Utilities Profile for Electricity Deregulation at the West Texas A&M University (WTAM-U) Canyon, Texas, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Zhu, Y.; Bryant, J.; Turner, W. D.; Claridge, D. E.	1989
ESL-TR-99-12-07	Report of Energy Efficiency Study and Metering/Utilities Profile for Electricity Deregulation at the Texas A&M University – Kingsville (TAMU-K) Kingsville, Texas, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Zhu, Y.; Bryant, J.; Turner, W. D.; Claridge, D. E.	1990
ESL-TR-99-12-08	Report of Energy Efficiency Study and Metering/Utilities Profile for Electricity Deregulation at the Texas A&M University – Texarkana (TAMU-T) Texarkana, Texas, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Zhu, Y.; Turner, W. D.; Claridge, D. E.	1991
ESL-TR-99-12-09	Report of Energy Efficiency Study and Metering/Utilities Profile for Electricity Deregulation at the Texas A&M University at Commerce (TAMU-Commerce) Commerce, Texas, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Wei, G.; Campbell, C.; Claridge, D. E.; Turner, W. D.	1992
ESL-TR-99-12-10	Report of Energy Efficiency Study and Metering/Utilities Profile for Electricity Deregulation at Prairie View A&M University (PVAMU) Prairie View, Texas, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Zhu, Y.; Claridge, D. E.; Giebler, T.; Abushakra, B.; Turner, W. D.	1993
ESL-TR-99-12-11	Determining Long-Term Performance of Cool Storage Systems from Short-Term Tests, Progress Report, 6-99, Revised 12-99, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Reddy, A.; Elleson, J.; Haberl, J.; Claridge, D. E.	1994
ESL-PA-00-01-01	Architectural Graphic Standards 10th Edition pp. 711-736	Hoke, J. R.	1348163
ESL-TR-00-01-01	An Exploratory Initiative for Improving Low-Cost Housing in Texas, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	McKittrick, T. L.; Haberl, J. S.; Graham, C. W.; Claridge, D. E.; Swain, W. B.	1995
ESL-TR-00-01-02	Determining Long-Term Performance of Cool Storage Systems from Short-Term Tests, Case Study #1: Application of the Lumped Model Approach to a Large Hotel in San Francisco, 1-00, Revised 3-00, Final Revision 8-00, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Reddy, A.; Elleson, J.; Haberl, J.	1996
ESL-TR-00-02-01	Program Overview: The Texas LoanSTAR Program; 1989-October 1999, A 10-Year Experience, <i>Energy Systems Laboratory, Texas A&amp;M University</i> .	Turner, W. D.; Claridge, D. E.; O'Neal, D. L.; Haberl, J.; Heffington, W. M.	1998

ESL-TR-00-03-01	Data Visualization for Quality-Check Purposes of Monitored Electricity Consumption in All Office Buildings in the ESL Database, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Sreshthaputra, A.; Abushakra, B.; Haberl, J.; Claridge, D. E.	1999
ESL-PA-00-04-01	Energy and Demand Savings from Implementation Costs in Industrial Facilities	Razinha, J. A.; Heffington, W. M.	90884
ESL-PA-00-04-02	Building Integrated Photovoltaics: An Analysis of the Benefits of Photovoltaic Coated Glazing in Commercial Buildings, <i>Proceedings of the 36<sup>th</sup> Conference of the Associated Schools of Construction</i> , Purdue University, West Lafayette, Indiana, pp. 307-319.	Sylvester, K. E.; Haberl, J.	6820
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ESL-TR-00-05-01	Investigation of PVC Pipe Failure at Terrell State Hospital – Final Report, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Wei, G.; Deng, S.; Claridge, D. E.; Turner, W. D.	2000
ESL-HH-00-05-01	Sustainable Features of McKinney ISD Elementary School	McClure, J. D.; Estes, J. M.; Keep, G.	6767
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ESL-HH-00-05-27	The Brazos Valley Energy Conservation Coalition, Part of the Rebuild America Program in Texas: Program Update, <i>Proceedings of the 12th Symposium on Improving Building Systems in Hot and Humid Climates</i> , Texas Building Energy Institute, San Antonio, Texas (May), pp. 207-215	Yazdani, B.; Haberl, J.; Culp, C.; Turner, W. D.; Claridge, D. E.; Myers, M.	6795
ESL-HH-00-05-28	Program Overview: The Texas LoanSTAR Program; 1989-October 1999, A 10-Year Experience, <i>Proceedings of the 12th Symposium on Improving Building Systems in Hot and Humid Climates</i> , Texas Building Energy Institute, San Antonio, Texas (May), pp. 216-225	Turner, W. D.; Claridge, D. E.; O'Neal, D. L.; Haberl, J.; Heffington, W. M.; Taylor, D.; Sifuentes, T.	6796
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ESL-HH-00-05-30	Enhanced Software for Displaying Orthographic, Stereographic, Gnomonic and Cylindrical Projections of the Sunpath Diagram and Shading Mask Protractor, <i>Proceedings of the 12th Symposium on Improving Building Systems in Hot and Humid Climates</i> , Texas Building Energy Institute, San Antonio, Texas (May), pp. 234-247.	Oh, K. W.; Haberl, J.; Degelman, L. O.	6800
ESL-HH-00-05-31	Development of Simplified Calculations for a Multipyranometer Array for the Measurement of Direct and Diffuse Solar Radiation, <i>Proceedings of the 12th Symposium on Improving Building Systems in Hot and Humid Climates</i> , Texas Building Energy Institute, San Antonio, Texas (May), pp. 248-259.	Munger, B. K.; Haberl, J.	6801
ESL-HH-00-05-32	Below Canopy Meteorological Measurements at Three Florida Sites with Varying Tree Cover and Development	Sonne, J. K.; Vieira, R. K.	6802
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ESL-TR-00-06-01	Compilation of Diversity Factors and Schedules for Energy and Cooling Load Calculations, ASHRAE Research Project 1093, Phase III Draft Report, Compilation of Diversity Factors and Load Shapes, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Abushakra, B.; Haberl, J.; Claridge, D. E.; Sreshthaputra, A.	2001
ESL-PA-00-08-01	Program Overview: The Texas LoanSTAR Program, 1989 – October 1999, A 10-Year Experience, <i>Proceedings of the 2000 ACEEE Summer Study on Energy Efficiency in Buildings</i> , Vol. 4, pp. 4.365 – 4.376.	Turner, W. D.; Claridge, D. E.; O'Neal, D. L.; Haberl, J.; Heffington, W. M.; Taylor, D.; Sifuentes, T.	15168
ESL-PA-00-08-02	Rebuild America Program in Texas: Update on the Brazos Valley Energy Conservation Coalition, <i>Proceedings of the 2000 ACEEE Summer Study on Energy Efficiency in Buildings</i> , Vol. 4, pp. 4.117 – 4.130.	Haberl, J.; Yazdani, B.; Culp, C.; Turner, D.; Claridge, D.; Meyers, M.	2515156
ESL-TH-00-08-02	The Effect of a 90° Elbow on the Accuracy of Liquid Flow Measurement with an Insertion Flowmeter, <i>Doctoral Dissertation, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Woo, S.	154783
ESL-TH-00-08-03	Modeling of Refrigerant Flow Through Flexible Short Tube Orifices, <i>Doctoral Dissertation, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Abdel Ghani, R.	154782
ESL-TR-00-08-01	Determining Long-Term Performance of Cool Storage Systems from Short-Term Tests, Final Report, <i>Energy Systems Laboratory, Texas A&amp;M University</i> , Revised January 2001.	Reddy, T. A.; Elleson, J.; Haberl, J.	2004
ESL-TR-00-11-01	Vending Machine Energy Consumption and VendingMiser Evaluation, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Ritter, J.; Huggins, J.	2006
ESL-TH-00-12-01	Improving the Reliability and Accuracy of a Multipyranometer Array Measuring Solar Radiation, <i>Masters Thesis, Department of Architecture, Texas A&amp;M University.</i>	Klima, P. M.	578
ESL-TH-00-12-03	Study of Cubic Splines and Fourier Series as Interpolation Techniques for Filling in Short Periods of Missing Building Energy Use and Weather Data, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Baltazar-Cervantes, J. C.	6070
ESL-PA-01-01-01	Handbook of Heating, Ventilation and Air Conditioning, <i>CRC Press LLC</i> , New York, N.Y., pp. 6.53-6.99 .	Huang, J.; Haberl, J.; Kreider, J. F.	97808493
ESL-TR-01-02-02	Air-Side Energy Use Calculations for Four HVAC Systems: Dual Duct Constant Volume (DDCAV), Dual Duct Variable Volume (DDVAV), Constant Volume with Reheat (CAVRH), Variable Volume with Reheat (VAVRH), Four Pipe Fan Coil Unit (FC), Four Pipe Induction Unit (FI), and Single Zone (SZ) Systems, Revised June 2002, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Haberl, J. S.; Saman, N.; Bou-Saada, T.	2011
ESL-TR-01-03-01	Air-Side Energy Use Calculations for Four HVAC Systems: Dual Duct Constant Volume (DDCAV), Dual Duct Variable Volume (DDVAV), Constant Volume with Reheat (CAVRH0), Variable Volume with Reheat (VAVRH), March 2001, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Haberl, J.	2012
ESL-PA-01-04-01	Development of a Computer Model for Solar Simulation and Shaded Fenestration Design, <i>Proceedings of the ASME Solar Engineering Conference</i> , April 21-25, 2001, Washington, DC.	Kie-Wan Oh, J.; Haberl, J.; Degelman, L. O.	1080663
ESL-TR-01-04-01	Compilation of Diversity Factors and Schedules for Energy and Cooling Load Calculations, ASHRAE Research Project 1093-RP, Final Report, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Abushakra, B.; Sreshthaputra, A.; Haberl, J.; Claridge, D. E.	2013
ESL-TH-01-05-01	Short-Term Monitoring, Long-Term Prediction of Building Energy Use, <i>Doctoral Dissertation, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Abushakra, B.	154781
ESL-TH-01-05-02	Evaluation of Fin Staging Methods for Minimizing Coil Frost Accumulation, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Watters, R.	W28
ESL-TH-01-05-03	Simulation and optimization of cogeneration power plant operation using an Energy Optimization Program, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Zhou, J.	Z46
ESL-TR-01-05-01	Development of a Toolkit for Calculating Linear, Change-Point Linear and Multiple-Linear Inverse Building Energy Analysis Models, ASHRAE Research Project 1050-RP, Detailed Test Results, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Sreshthaputra, A.; Haberl, J.; Claridge, D. E.	2014
ESL-IE-01-05-01	The Steam System Scoping Tool: Benchmarking Your Steam Operations Through Best Practices	Wright, A.; Hahn, G.	90914
ESL-IE-01-05-02	Case Study: Lessons Learned from Converting Electric Chillers to Steam Chillers in an Electric Deregulated Market	Wohl, J.	90915
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ESL-IE-01-05-37	Savings in Steam Systems (A Case Study)	DeBat, R.	90950
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ESL-PA-01-06-02	Effect of Fin Staging on Frost/Defrost Performance of a Two-Row Heat Pump Evaporator under Heavy Frosting Conditions, <i>ASHRAE Transactions: Research</i> , Vol. 107, Pt. 2, June 2001.	Watters, R. J.; O'Neal, D. L.; Yang, J.	1925123
ESL-PA-01-07-01	Extended Industrial Energy Assessments Supported by Monitoring, <i>American Council for an Energy Efficient Economy Summer Study</i> , Tarrytown, New York, Vol. 2, pp. 339-350.	Heffington, W. M.; Eggebrecht, J. A.	156165
ESL-TR-01-06-01	HVAC Data Visualization: Past, Present, & Future, <i>ASHRAE Seminar 46, Cincinnati Meeting</i> , 2001.	Haberl, J.	94837
ESL-IC-01-07-01	Continuous Commissioning: A Valuable Partner to Retrofit Projects	Zhu, Y.; Culp, C.; Turner, D.; Yazdani, B.; Athar, A.; Banks, K.	5140
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ESL-IC-01-07-22	Measured Energy Use Indices for 27 Office Buildings, <i>Proceedings of the 1st International Conference for Enhanced Building Operation</i> , Austin, Texas, pp. 185-200 (July).	Haberl, J.; Sreshthaputra, A.; Claridge, D.; Turner, D.; Harmon, K.; Kisselburgh, J.; Mase, R.	5153
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ESL-IC-01-07-27	Monitoring and Verification Procedures Used in the Texas LoanSTAR and Rebuild America Programs, <i>Proceedings of the 1st International Conference for Enhanced Building Operation</i> , Austin, Texas, pp. 235-246 (July).	Farouz, S.; Baltazar-Cervantes, J. C.; Haberl, J.; Claridge, D.	5158

ESL-IC-01-07-28	Development of Load Forecasting Procedures for the Texas A&M University System, <i>Proceedings of the 1st International Conference for Enhanced Building Operation</i> , Austin, Texas, pp. 247-254 (July).	Baltazar, J.C.; Lim, C.; Haberl, J.; Turner, W. D.; Claridge, D.	5159
ESL-IC-01-07-29	Accounting for the Occupancy Variable in Inverse Building Energy Baseline Models	Abushakra, B.; Claridge, D.	5161
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ESL-TH-01-08-01	A Study of Industrial Equipment Energy Use and Demand Control, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University</i>	Dooley, E. S.	15916
ESL-TR-01-09-01	Energy Savings Report For Dallas County July 2000 – June 2001, <i>Energy Systems Laboratory, Texas A&amp;M University</i>	Claridge, D. E.; Baltazar, J.C.-C.; Zhu, Y.	2017
ESL-TR-01-10-01	Retrofit Savings Determination for Wichita Falls Independent School District, <i>Energy Systems Laboratory, Texas A&amp;M University</i>	Shao, X.; Baltazar, J.C.-C.; Claridge, D. E.	2020
ESL-TR-01-10-02	Retrofit Savings for Brazos County, <i>Energy Systems Laboratory, Texas A&amp;M University</i>	Baltazar, J.C.-C.; Shao, X.; Claridge, D. E.	2021
ESL-TR-01-11-01	Internet Polling Development Report, <i>Energy Systems Laboratory, Energy Systems Laboratory, Texas A&amp;M University.</i>	Klima, P.; Lockhart, D.; Haberl, J.	2022
ESL-TR-01-12-01	Access and Display of LoanSTAR Data via the Internet, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Sweeney, J.; Jr.; Lockhart, D.; Haberl, J.	2025
ESL-TR-01-12-02	Internet Datalogging and Display, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Sweeney, J.; Jr.; Culp, C.; Haberl, J.	2026
ESL-TH-01-12-01	The Effects of Galvanic Corrosion on Air Conditioner Performance, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Grisham, P.	G748
ESL-PA-02-01-01	Field Monitoring and Data Validation for Evaluating the Performance of Cool Storage Systems, <i>ASHRAE Transactions-Research</i> , 2002, Vol. 108, Pt. 1, pp. 1072-1084	Elleson, J. S.; Haberl, J.; Reddy, T. A.	153700
ESL-PA-02-01-02	Methodology Development for Determining Long-Term Performance of Cool Storage Systems from Short-Term Tests, <i>ASHRAE Transactions-Research</i> , 2002, Vol.108, Pt. 1. pp. 1085-1103	Reddy, T. A.; Elleson, J. S.; Haberl, J.	153701
ESL-PA-02-01-03	Development of a Methodology for Baseline the Energy Use of Large Multi-Building Central Plants, <i>ASHRAE Transactions-Research</i> , Vol.108, Pt. 1. pp. 251-259.	Beasley, R.; Haberl, J.; Turner, W. D.; Claridge, D. E.	153702
ESL-PA-02-01-04	A Numerical Study of Pressure Distribution and Flow through Rigid Short-tube Orifices, <i>ASHRAE Transactions: Research</i> , Vol. 108, Pt. 1, pp. 128-133, January, 2002.	Bassiouny, R.; O'Neal, D. L.	1925225
ESL-PA-02-01-05	Control-Oriented Modeling and Analysis of Automotive Transcritical AC System Dynamics, <i>American Control Conference</i>	Rasmussen, B.; Alleyne, A.; Bullard, C.; Hrnjak, P.; Miller, N.	20105
ESL-PA-02-01-06	A Control-Oriented Model of Transcritical Air-Conditioning System Dynamics, <i>Society of Automotive Engineers 2002 World Congress</i>	Rasmussen, B.; Musser, A.; Alleyne, A.; Bullard, C.; Hrnjak, P.; Miller, N.	20106
ESL-TR-02-01-01	Chilled Water System Hydraulic Study for The University of Texas at San Antonio, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Xu, C.; Chen, Q.; Deng, S.; Turner, D.	2027
ESL-TR-02-01-02	Sustainability Assessment of the Robert E. Johnson State Office Building, Final Report, Revised April 2002, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Sylvester, K. E.; Song, S.; Haberl, J.; Turner, W. D.	2028
ESL-PA-02-02-01	Return Air Leakage Impact on Air Conditioner Performance in Humid Climates, <i>ASME Journal of Solar Energy Engineering</i> , Vol. 124, No. 1, pp. 63-69, February, 2002.	D. L. O'Neal, A. Rodriguez, M. Davis, and S. Kondepudi	473620
ESL-TR-02-02-01	Automated Data Quality Analysis Research and Development, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Sweeney, J.; Jr.; Haberl, J.	2029
ESL-PA-02-04-01	Refrigerant Flow through Flexible Short-tube Orifices, <i>International Journal of HVAC&amp;R Research</i> , Vol. 8, No. 2, pp. 179-190, April, 2002.	Y.C. Kim, D.L. O'Neal, W.V. Payne, and M. Farzad	2331337
ESL-TR-02-04-01	Texas' Se91-12-02nate Bill 5 Legislation for Reducing Pollution in Non-Attainment and Affected Areas: Procedures for Measuring Electricity Savings from the Adoption of the International Energy Conservation Code (IRC/IECC 2001) in New Residences, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Haberl, J.; Culp, C.; Yazdani, B.; Fitzpatrick, T.; Turner, W. D.	2031
ESL-TR-02-04-03	Proposed Metering and Instrumentation Monitoring and Analysis Plan and Budget: Alamo Community College District, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	O'Neal, D. L.; Carlson, K. A.; Sweeney, J.; Jr.; Milligan, K.	2033
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ESL-PA-02-06-02	Frost/Defrost Performance of a Three-Row Fin Staged Heat Pump Evaporator, <i>ASHRAE Transactions: Research</i> , Vol. 108, Pt. 2, June 2002.	Watters, R. J.; O'Neal, D.L.; Yang, J.	9254167
ESL-TR-02-06-01	Texas' Senate Bill 5 Legislation for Reducing Pollution in Non-Attainment and Affected Areas: Report for the TERP Advisory Board Meeting, <i>Energy Systems Laboratory, Texas A&amp;M University</i> .	Haberl, J.; Culp, C.; Yazdani, B.; Fitzpatrick, T.; Turner, W. D.	2034
ESL-PA-02-07-01	Energy Savings Assessment for the Robert E. Johnson State Office Building in Austin, Texas, <i>ibpsaNEWS</i> , Vol. 12, No. 2, 2002.	Sylvester, K.; Song, S.; Haberl, J.; Turner, D.	4561
ESL-TR-02-07-01	Texas' Senate Bill 5 Legislation for Reducing Pollution in Non-Attainment and Affected Areas: Annual Report to the Texas Natural Resource Conservation Commission, <i>Energy Systems Laboratory, Texas A&amp;M University</i> .	Haberl, J.; Culp, C.; Yazdani, B.; Fitzpatrick, T.; Turner, W. D.	2035
ESL-PA-02-08-01	Texas Senate Bill 5 – Reducing Pollution in Non-Attainment Areas: An Overview of the Legislation, <i>Proceedings of the 2002 ACEEE Summer Study</i> , Vol. 9, pp. 9.43 - 9.54, August 2002.	Culp, C.; Haberl, J.; Yazdani, B.; Fitzpatrick, T.; Bryant, J.; Turner, W. D.	153178
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ESL-TR-02-11-02	Development of a Toolkit for Calculating Linear, Change-point Linear and Multiple-Linear Inverse Building Energy Analysis Models, ASHRAE Research Project 1050-RP, Final Report, <i>University of Dayton, Department of Mechanical and Aerospace Engineering, and Energy Systems Laboratory, Texas A&amp;M University.</i>	Kissock, J. K.; Haberl, J.; Claridge, D. E.	2847**
ESL-TH-02-12-01	Automatic Calibration of a Building Energy Performance Model and Remote Fault Detection for Continuous Commissioning Using a Global Optimization Program, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Lee, S. U.	L4556
ESL-TR-02-12-02	Baseline Report for the Fort Hood Army Base: Sept. 1, 2001 To Aug. 31, 2002, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Haberl, J.; Baltazar-Cervantes, J. C.; Sung, Y. H.; Claridge, D. E.; Turner, W. D.	88051
ESL-TR-02-12-03	LoanSTAR after 11 Years: A Report on the Successes and Lessons Learned from the LoanSTAR Program, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Haberl, J.; Turner, W. D.; Claridge, D. E.; O’Neal, D. L.; Heffington, W. M.; Bryant, J.; Verdict, M.; Liu, Z.; Visitsak, S.	2038
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ESL-PA-03-01-02	Application of Multivariable Adaptive Control to Automotive Air Conditioning Systems, <i>ASME International Mechanical Engineering Congress</i>	Shah, R.; Alleyne, A.; Rasmussen, B.	30102
ESL-PA-03-01-03	Reduced Order Modeling of Transcritical AC System Dynamics Using Singular Perturbation, <i>American Control Conference</i>	Rasmussen, B.; Alleyne, A.; Shah, R.	30103
ESL-TR-03-01-02	Texas LoanSTAR Program Savings Calculation Workbook, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Liu, Z.; Baltazar, J.C.; Haberl, J.	2040
ESL-TR-03-01-03	LoanSTAR Database Overview, A LoanSTAR Deliverable Report, Final Report, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Sweeney, J.; Jr.	2042
ESL-TR-03-04-01	Detailed Analysis of the Builder Option Packages for Climate Zones 3,4,5, and 6 for Texas’ Senate Bill 5 Legislation for Reducing Pollution in Non-Attainment and Affected Areas, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Ahmad, M.; Haberl, J.	2045**
ESL-TH-03-05-01	Building Design and Operation for Improving Thermal Comfort in Naturally Ventilated Buildings in a Hot-Humid Climate, <i>Doctoral Dissertation, Department of Architecture, Texas A&amp;M University.</i>	Sreshthaputra, A.	6164
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ESL-PA-03-07-02	Inverse Model Toolkit: Application and Testing, <i>ASHRAE Transactions</i> , Vol. 109, Pt. 2.	Haberl, J.; Sreshthaputra, A.; Claridge, D. E.; Kissock, J. K.	153707
ESL-PA-03-07-03	Inverse Modeling Toolkit: Numerical Algorithms for Best-Fit Variable-Base Degree Day and Change Point Models, <i>ASHRAE Transactions</i> , Vol. 109, Pt. 2.	Kissock, J. K.; Haberl, J.; Claridge, D. E.	153708
ESL-TR-03-07-01	Procedure to Calculate NOx Reductions Using the Emissions & Generation Resource Integrated Database (E-Grid) Spreadsheet, <i>Energy Systems Laboratory, Texas A&amp;M University</i> .	Haberl, J. S.; Im, P.; Culp, C.; Yazdani, B.; Fitzpatrick, T.; Verdict, M.; Turner, W. D.	2046
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ESL-TR-03-12-01	U. S. Army Measurement and Verification (M&V) Costing Toolkit, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Haberl, J.; Powell, T.; Carlson, K.; Im, P.; Turner, W. D.	2050
ESL-TR-03-12-02	Baseline Report for the Fort Hood Army Base: Sept. 1, 2002 – Aug. 31, 2003, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Haberl, J.; Baltazar-Cervantes, J. C.; Liu, Z.; Claridge, D. E.; Turner, W. D.	2051
ESL-TR-03-12-03	Energy Efficiency/Renewable Energy Impact in the Texas Emissions Reduction Plan (TERP), Volume I – Summary Report, Annual Report to the Texas Commission on Environmental Quality September 2002 – August 2003, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Haberl, J.; Culp, C.; Yazdani, B.; Fitzpatrick, T.; Bryant, J.; Turner, W. D.	2053
ESL-TR-03-12-04	Energy Efficiency/Renewable Energy Impact in the Texas Emissions Reduction Plan (TERP), Volume II – Technical Report, Annual Report to the Texas Commission on Environmental Quality September 2002 – August 2003, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Haberl, J.; Culp, C.; Yazdani, B.; Fitzpatrick, T.; Bryant, J.; Turner, W. D.	2054
ESL-TR-03-12-06	Test for Modeling Windows in DOE 2.1E for Comparing the Window Library with the Shading Coefficient Method for a Single-Family Residence in Texas: Project for Texas' Senate Bill 5 Legislation for Reducing Pollution in Nonattainment and Affected Areas, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Haberl, J.; Kim, S.	85721
ESL-PA-04-01-01	Overview of Existing Literature On Diversity Factors and Schedules for Energy and Cooling Load Calculations, <i>ASHRAE Transactions</i> , Vol. 110, Pt. 1, January 2004.	Abushakra, B.; Haberl, J.; Claridge, D. E.	153713
ESL-PA-04-01-02	A Mass Flow Rate Correlation for Refrigerants and Refrigerant Mixtures Flowing Through Short Tubes, <i>International Journal of HVAC&amp;R Research</i> , Vol. 10, No. 1, pp. 73-87, Jan. 2004.	Payne, V.; O'Neal, D. L.	107896
ESL-PA-04-01-03	A Comparative Study of Shell-side Condensation on Integral-fin Tubes with R-114 and R-236ea, <i>ASHRAE Transactions</i> , Jan 2004, Vol 110 (1), pp 40-52.	Heusch, W.; Pate, M. B.	1717768

ESL-PA-04-01-04	Iterative Modeling and Identification of a CO2 Air Conditioning System, <i>ASME International Mechanical Engineering Congress</i>	Alleyne, A.; Musser, A.; Rasmussen, B.	40104
ESL-PA-04-01-05	Evaluation of Control Strategies for Compressor Rapid Cycling, <i>Society of Automotive Engineers 2004 World Congress</i>	Rasmussen, B.; Uribe, T.; Alleyne, A.; Bullard, C.	40105
ESL-PA-04-02-01	Electricity Diversity Profiles for Energy Simulation of Office Buildings, <i>ASHRAE Transactions</i> , Vol. 110, Pt. 1, pp. 365 – 377.	Claridge, D. E.; Abushakra, B.; Haberl, J.; Sreshthaputra, A.	153715
ESL-PA-04-03-01	Analysis of Refrigerant Flow and Deformation for a Flexible Short-Tube using a Finite Element Model, <i>International Journal of Refrigeration</i> , Vol. 27, No. 2, pp. 176-183, March 2004.	Bassiouny, R.; O'Neal, D. L.	153714
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ESL-TH-04-05-02	Extending and formalizing the energy signature method for calibrating simulations and illustrating with application for three California climates, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Bensouda, N.	1080
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ESL-HH-04-05-14	Texas Senate Bill 5 Legislation for Reducing Pollution in Non-Attainment and Affected Areas: An Overview of Legislative Responsibilities, Code Compliance Issues and Accomplishments, , <i>Proceedings of the 14th Symposium on Improving Building Systems in Hot and Humid Climates</i> , Richardson, Texas, pp. 127-137	Culp, C.; Haberl, J.; Yazdani, B.; Fitzpatrick, T.; Bryant, J. A.; Turner, W. D.	4613
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ESL-TR-04-07-01	Overview of Solar Energy Research: 1990 to Present, <i>Energy Systems Laboratory, Texas A&amp;M University</i> .	Haberl, J.; Turner, W. D.	2058
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ESL-PA-04-08-02	The Development of Improved Energy Efficient Housing for Thailand Utilizing Renewable Energy Technology, <i>Proceedings of the SimBuild 2004, IBPSA-USA National Conference</i> , Boulder, CO, August 4-6, 2004, pp. 1-10.	Rasisuttha, S.; Haberl, J.	94773
ESL-PA-04-08-03	An Analysis of Design Strategies for Climate-Controlled Residences in Selected Climates, <i>Proceedings of the SimBuild 2004, IBPSA-USA National Conference</i> , Boulder, CO, August 4-6, 2004, pp. 1-11.	Visitsak, S.; Haberl, J.	94774
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ESL-TH-04-12-01	Effects of System Cycling, Evaporator Airflow, and Condenser Coil Fouling on the Performance of Residential Split-System Air Conditioners, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Dooley, J. B.	1513
ESL-TR-04-12-02	Baseline Report for the Fort Hood Army Base: Sept. 2003 to Oct. 2004, A Research Project for the U.S. Army C.E.R.L. and the Ft. Hood Energy Office, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Haberl, J.; Liu, Z.	6055
ESL-TR-04-12-01	Energy Efficiency / Renewable Energy Impact in the Texas Emissions Reduction Plan (TERP), Vol. I – Summary Report; Annual Report to the Texas Commission on Environmental Quality, Sept. 2003 to Aug. 2004, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Haberl, J.; Culp, C.; Yazdani, B.; Gilman, D.; Fitzpatrick, T.; Muns, S.; Verdict, M.; Ahmed, M.; Liu, Z.; Baltazar-Cervantes, J.-C.; Bryant, J.; Degelman, L.; Turner, W. D.	2073
ESL-TR-04-12-04	Energy Efficiency / Renewable Energy Impact in the Texas Emissions Reduction Plan (TERP), Vol. II – Technical Report; Annual Report to the Texas Commission on Environmental Quality, Sept. 2003 to Aug. 2004, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Haberl, J.; Culp, C.; Yazdani, B.; Gilman, D.; Fitzpatrick, T.; Muns, S.; Verdict, M.; Ahmed, M.; Liu, Z.; Baltazar-Cervantes, J.-C.; Bryant, J.; Degelman, L.; Turner, W. D.	2077
ESL-TR-04-12-05	Energy Efficiency / Renewable Energy Impact in the Texas Emissions Reduction Plan (TERP), Vol. III – Appendix; Annual Report to the Texas Commission on Environmental Quality, Sept. 2003 to Aug. 2004, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Haberl, J.; Culp, C.; Yazdani, B.; Gilman, D.; Fitzpatrick, T.; Muns, S.; Verdict, M.; Ahmed, M.; Liu, Z.; Baltazar-Cervantes, J.-C.; Bryant, J.; Degelman, L.; Turner, W. D.	2078
ESL-TR-04-12-06	Texas Emissions and Energy Calculator (eCALC): Documentation of Analysis Methods, Report to the TCEQ, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Haberl, J.; Gilman, D.; Culp, C.	2079
ESL-TR-05-01-02	Engineering and Software Requirements of the Automated Building Commissioning Analysis Tool (ABCAT), <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Claridge, D. E.; Liu, M.; Painter, F.; Wang, G.	2081
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ESL-PA-05-01-03	Stable Gain-scheduling on Endogenous Signals, <i>American Control Conference</i>	Alleyne, A.; Rasmussen, B.	50103
ESL-PA-05-02-01	Control Optimization for a Chilled Water Thermal Storage System Under a Complicated Time-of-Use Electricity Rate Schedule, <i>ASHRAE Transactions</i> , Vol. 111, Pt. 1, pp. 4759 – 4770.	Zhou, J.; Wei, G.; Turner, W. D.; Deng, S.; Claridge, D. E.; Contreras, O.	153719
ESL-TR-05-03-03	ESL Monthly Energy Consumption Report (MECR) Production Manual, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Liu, Z.; Sweeney, J.; Song, S.; Haberl, J.	94761
ESL-PA-05-05-01	Effect of Refrigerant Flow Control on the Heating Performance of a Variable-Speed Heat Pump Operating and Low Outdoor Temperature, <i>ASME Journal of Solar Energy Engineering</i> , Vol. 127, pp. 287-296, May 2005.	Kim, B.; O'Neal, D.	1457293
ESL-TH-05-05-02	Effect of Daylighting on Energy Consumption and Daylight Quality in an Existing Elementary School, <i>Master's Thesis, Department of Architecture, Texas A&amp;M University.</i>	Atre, U. V.	2293

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ESL-PA-05-06-02	An Experimental Evaluation of Duct-Mounted Relative Humidity Sensors: Part 2 – Accuracy Results, <i>ASHRAE Transactions, June 2005, Vol 111 (2), pp167-176.</i>	Joshi, S.N.; Pate, M. B.; Nelson, R. M.; House, J. H.; Klaassen, C.J.	153722
ESL-PA-05-06-03	An Experimental Evaluation of Duct-Mounted Relative Humidity Sensors: Part 3 – Repeatability, Hysteresis and Linearity Results, <i>ASHRAE Transactions, June 2005, Vol 111 (2), pp 177-184.</i>	Joshi, S.N.; Pate, M. B.; Nelson, R. M.; House, J. H.; Klaassen, C.J.	153723
ESL-TH-05-08-01	Analysis of Improved Fenestration for Code-Compliant Residential Buildings in Hot and Humid Climates, <i>Master's Thesis, Department of Architecture, Texas A&amp;M University.</i>	Mukhopadhyay, J.	4162
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ESL-PA-06-01-01	Accuracy Tests for Simulation for Single Zone, Two Pipe, Four Pipe and Induction Air Handling Systems, <i>ASHRAE Transactions-Research, Vol. 112, Pt. 1.</i>	Yuill, G.; Haberl, J.	60101
ESL-PA-06-01-02	The Effects of Elbows on the Accuracy of Liquid Flow Measurement with an Insertion Flowmeters, <i>ASHRAE Transactions: Research, Vol. 112, Pt. 1, January 2006.</i>	Woo, S.; O'Neal, D. L.	1718832
ESL-PA-06-04-01	Automotive Vapor Compression Cycles: Validation of Control-Oriented Models, <i>Society of Automotive Engineers 2006 World Congress, Detroit, Michigan, 2006, SAE Paper 2006-01-1452.</i>	Eldredge, B.D.; Rasmussen, B.P.; Alleyne, A.	176470
ESL-PA-06-04-02	Improving Energy Efficiency in Automotive Vapor Compression Cycles through Advanced Control Design, <i>Society of Automotive Engineers 2006 World Congress, Detroit, Michigan, 2006, SAE Paper 2006-01-0267.</i>	Keir, M. C.; Rasmussen, B.P.; Alleyne, A.	175759
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ESL-PA-08-06-02	A Procedure for the Performance Evaluation of a New Commercial Building: Part II – Overall Methodology and Comparison of Results, <i>ASHRAE Transactions-Research</i> , Vol. 114, Pt. 2, pp. 389 – 403	Song, S.; Haberl, J.	153733



ESL-PA-08-06-03	A Numerical Estimate of Flexible Short-tube Flow and Deformation with R-134a and R-410a, <i>ASHRAE Transactions</i> , Vol. 114, Pt. 2, June 2008	Bassiouny, R.; O'Neal, D.	153732
ESL-PA-08-06-04	Stable Controller Interpolation for LPV Systems, <i>2008 American Control Conference</i> , Seattle, WA, 2008, pp. 3082-3087	Chang, Y. J.; Rasmussen, B. P.	4586966
ESL-PA-08-06-05	Model-Based Predictive Control of a Multi-Evaporator Vapor Compression Cooling Cycle, <i>2008 American Control Conference</i> , Seattle, WA, 2008, pp. 1463 - 1468	Elliott, M.S.; Rasmussen, B.P.	4586698
ESL-PA-08-06-06	Parameter Tuning of Reduced Order Evaporator Models via Numerical Model Reduction, <i>2008 American Control Conference</i> , Seattle, WA, 2008, pp. 1449 - 1454	Gupta, A.; Rasmussen, B.P.	4586696
ESL-PA-08-06-07	Energy Systems Laboratory: Building a Model Repository Collection, <i>Texas Conference on Digital Libraries</i> , Austin, Texas, June 2008	Koenig, J.; Haberl, J.; Gilman, D.; Hughes, S. J.	55499
ESL-PA-08-06-08	Qualification of Fan Generated Duct Rumble Noise: Part 1: Test Facility (RP 1219), <i>ASHRAE Transactions</i> , 2008	Kading, J.; Mann, A.; Pate, M. B.	153735
ESL-PA-08-06-09	Qualification of Fan Generated Duct Rumble Noise: Part 2: Results (RP 1219), <i>ASHRAE Transactions</i> , 2008	Kading, J.; Mann, A.; Pate, M. B.	153736
ESL-PA-08-06-10	Operating Characteristics of a High-Efficiency Pilot Scale Corn Distillers Grain Dryer, <i>2008 American Agriculture and Biological Engineering Conference</i>	Pate, M.; Shivers, S.; Bern, C.	80610
ESL-PA-08-08-05	Simulation of Off-Grid, Off-Pipe, Single Family Detached Residences in U.S. Climates, <i>Proceedings of the 3rd SimBuild 2008, IBPSA-USA National Conference</i> , August 2008	Malhotra, M.; Haberl, J.	93356
ESL-PA-08-08-06	Development of a Simplified Simulation Tool for High Performance K-5 Schools in Hot and Humid Climates, <i>Proceedings of the 3rd SimBuild 2008, IBPSA-USA National Conference</i> , August 2008	Im, P.; Haberl, J.	93357
ESL-PA-08-08-07	Development of a Simulation Toolkit For the Selection of High-Performance Systems for Office Buildings in Hot and Humid Climates (Phase I: Calibrated Simulation of the Case Study Building), <i>Proceedings of the 3rd SimBuild 2008, IBPSA-USA National Conference</i> , August 2008	Cho, S.; Haberl, J.	93358
ESL-TH-08-08-01	Performance of ECM Controlled VAV Fan Powered Terminal Units, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University</i>	Cramlet, Andrew	3000
ESL-TH-08-08-02	Decentralized Model Predictive Control of a Multiple Evaporator HVAC System, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University</i>	Elliot, Matthew Stuart	3001
ESL-PA-08-09-01	An Experimental Method for Determining the Time Constants of Capacitive Thin-Film Polymer Humidity sensors at Various Duct Air Velocities, <i>HVAC&amp;R Research Journal</i> , Vol. 15, Number 5, pp. 663-682, Sept. 2008.	Dooley, B.; O'Neal, D.	153737
ESL-TR-08-09-04	NOx Emissions Reduction from Continuous Commissioning® Measures for the Dallas-Fort Worth International Airport, <i>Energy Systems Laboratory, Texas A&amp;M University</i> .	Baltazar-Cervantes, J. C.; Haberl, J.; Yazdani, B.	86085
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ESL-TR-09-02-02	Analysis of Emissions Calculations for the National Center of Excellence on Displaced Emission Reductions (CEDER), 2008 Annual Report to the US EPA, <i>Energy Systems Laboratory, Texas A&amp;M University</i> .	Yazdani, B.; Culp, C.; Haberl, J.; Do, S. L.; Baltazar Cervantes, J. C.	94627
ESL-PA-09-03-01	Reliability Design and Case Study of a Refrigerator Compressor Subjected to Repetitive Loads, <i>International Journal of Refrigeration</i> , Vol. 32, No. 3, pp. 478-486, March 2009.	Woo, S.; O'Neal, D. L.; Pecht, M.	153740
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ESL-PA-09-06-01	A Model-Based Predictive Supervisory Controller for Multi-Evaporator HVAC Systems, <i>2009 American Control Conference</i> , St. Louis, MO, June 2009, pp. 3669 – 3674.	Elliott, M.S.; Rasmussen, B.P.	5160498
ESL-PA-09-07-01	Development of a Web-based, Code-compliant 2001 IECC Residential Simulator for Texas, <i>2009 Building Simulation Conference</i> , International Building Performance Simulation Association (IBPSA), University of Strathclyde, Glasgow, Scotland.	Haberl, J.; Culp, C.; Yazdani, B.	94781
ESL-PA-09-07-02	Development of a High-Performance Office Building Simulation Model for a Hot and Humid Climate, <i>2009 Building Simulation Conference</i> , International Building Performance Simulation Association (IBPSA), University of Strathclyde, Glasgow, Scotland.	Cho, S.; Haberl, J.	94782
ESL-PA-09-07-03	Development of a Web-Based, Code-Compliant ASHRAE 90.1-1999 Commercial Simulation for Texas, <i>2009 Building Simulation Conference</i> , International Building Performance Simulation Association (IBPSA), University of Strathclyde, Glasgow, Scotland.	Haberl, J.; Culp, C.; Yazdani, B.; Gilman, D.; Ahmad, M.; Kim, S.	94783
ESL-PA-09-07-04	Improving the Reliability of a Water Dispenser Lever in a Refrigerator Subjected to Repetitive Stresses, <i>Engineering Failure Analysis</i> , Vol. 16, Issue 5, pp. 1597-1606, July 2009.	Woo, S.; O'Neal, D. L.; Pecht, M.	1516534
ESL-TH-09-08-05	Methodology to Develop and Test an Easy-To-Use Procedure for the Preliminary Selection of High-Performance Systems for Office Buildings in Hot and Humid Climates, <i>Doctoral Dissertation, Energy Systems Laboratory, Texas A&amp;M University</i> .	Cho, Soolyeon	92411
ESL-TR-09-08-01	Analysis of Above-Code (2009 IECC) Residential Energy Efficiency Measures in ONCOR Service Area, <i>Energy Systems Laboratory, Texas A&amp;M University</i> .	Kim, H.; Liu, Z.; Haberl, J.S.; Verdict, M.	88027
ESL-TR-09-08-02	Statewide Air Emissions Calculations from Wind and Other Renewables: Summary Report, <i>Energy Systems Laboratory, Texas A&amp;M University</i> .	Haberl, J.S.; Liu, Z.; Baltazar-Cervantes, J.; Gilman, D.; Culp, C.; Yazdani, B.; Turner, D.; Chandrasekaran, V.	88077
ESL-TR-09-08-03	Energy Efficiency/Renewable Energy Impact in the Texas Emissions Reduction Plan (TERP): Preliminary Report: Integrated NOx Emissions Savings from EE/RE Programs Statewide, <i>Energy Systems Laboratory, Texas A&amp;M University</i> .	Haberl, J.S.; Culp, C.; Yazdani, B.; Gilman, D.; Lui, Z.; Baltazar-Cervantes, J.; Montgomery, C.; McKelvey, K.; Mukhopadhyay, J.; Degelman, L.	88078
ESL-TR-09-08-04	2009 IECC Recommendations, <i>Energy Systems Laboratory, Texas A&amp;M University</i> .	Haberl, J.S.; Culp, C.; Yazdani, B.; Claridge, D.	90988
ESL-PA-09-10-01	Evaporator Superheat Regulation via Emulation of Semi-Active Flow Control, <i>2009 Dynamic Systems and Control Conference</i> , Hollywood, CA, 2009.	Elliott, M.S.; Rasmussen, B.P.	1648375
ESL-PA-09-11-02	Superheat Control: A Hybrid Approach, <i>HVAC&amp;R Research</i> , vol. 15, no. 6, pp. 1021-1044, Nov. 2009.	Elliott, M.S.; Walton, Z.; Bolding, B.; Rasmussen, B.P.	153742
ESL-TR-09-11-01	Energy Savings and NOx Emissions Reduction Potential from the 2012 Federal Legislation to Phase Out Incandescent Lamps in Texas, <i>Energy Systems Laboratory, Texas A&amp;M University</i> .	Liu, Z.; Baltazar, J.C.; Haberl, J.; Soman, R.	90987
ESL-IC-09-11-01	Educational Buildings Stocks Refurbishment, a Double Opportunity: Massive Energy Savings, Education of Youngsters about Sustainable Development	Couillaud, N.	148720
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ESL-IC-09-11-37	Recommendations for 15% Above-Code Energy Efficiency Measures on Implementing Houston Amendments to Multifamily Residential Buildings in Houston, Texas	Mukhopadhyay, J.; Liu, Z.; Malhotra, M.; Kota, S.; Blake, S.; Haberl, J.; Culp, C.; Yazdani, B.	90866
ESL-IC-09-11-38	Development of DOE-2-Based Simulation Models for the Code-Complaint Commercial Construction Based on the ASHrae Standard 90.1	Kim, S.; Haberl, J.	90867
ESL-TH-09-12-01	Methodology for the Preliminary Design of High Performance Schools in Hot and Humid Climates, <i>Doctoral Dissertation, Department of Architecture, Texas A&amp;M University.</i>	Im, P.	90975
ESL-TH-09-12-02	An Analysis of Off-Grid, Off-Pipe Housing in Six U.S. Climates, <i>Doctoral Dissertation, Department of Architecture, Texas A&amp;M University.</i>	Malhotra, M.	90977
ESL-TH-09-12-03	Optimized Fan Control in Variable Air Volume HVAC Systems Using Static Pressure Resets: Strategy Selection And Savings Analysis, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Kimla, J.	7332
ESL-TH-09-12-05	Modeling of ECM Controlled Fan-Powered Terminal Units, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Edmondson, J.	7370
ESL-TH-09-12-06	Electrical and Production Load Factors, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Sen, T.; Heffington, W. M.	7475
ESL-TR-09-12-01	Energy Efficiency/Renewable Energy Impact in the Texas Emissions Reduction Plan (TERP), Volume I – Summary Report, Annual Report to the Texas Commission on Environmental Quality, January 2008 – December 2008, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Haberl, J.; Culp, C.; Yazdani, B.; Gilman, D.; Fitzpatrick, T.; Muns, S.; Liu, Z.; Baltazar-Cervantes, J. C.; Montgomery, C.; McKelvey, K.; Mukhopadhyay, J.	90462
ESL-TR-09-12-02	Energy Efficiency/Renewable Energy Impact in the Texas Emissions Reduction Plan (TERP), Volume II – Technical Report, Annual Report to the Texas Commission on Environmental Quality, January 2008 – December 2008, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Haberl, J.; Culp, C.; Yazdani, B.; Gilman, D.; Fitzpatrick, T.; Muns, S.; Liu, Z.; Baltazar-Cervantes, J. C.; Montgomery, C.; McKelvey, K.; Mukhopadhyay, J.	90463

ESL-TR-09-12-03	Energy Efficiency/Renewable Energy Impact in the Texas Emissions Reduction Plan (TERP), Volume III –Appendix, Annual Report to the Texas Commission on Environmental Quality, January 2008 – December 2008, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Haberl, J.; Culp, C.; Yazdani, B.; Gilman, D.; Fitzpatrick, T.; Muns, S.; Liu, Z.; Baltazar-Cervantes, J. C.; Montgomery, C.; McKelvey, K.; Mukhopadhyay, J.	90470
ESL-TR-09-12-04	Validation of the International Code Compliant Calculator (IC3) Using the RESNET Verifications Procedures (No. 07-003), <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Malhotra, M.; Kim, H.; Liu, Z.; Haberl, J.S.	90464
ESL-TR-09-12-05	IC3 RESNET Accreditation User's Guide, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Haberl, J.S.; Malhotra, M.; Kim, H.; Yazdani, B.; Culp, C.	98448
ESL-TR-09-12-06	Final Report on Testing and Application of an Automated Building Commissioning Analysis Tool (ABCAT), <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Claridge, D.; Lin, G.; Bynum, J.	88079
ESL-PA-10-01-01	Demonstration of the use of Multimedia Electronic Information Enhancements for a Chapter Handbook CD-ROM: Rotating Cylinder & Scroll Compressor Animations (1017-RP), <i>ASHRAE Transactions-Research.</i>	Akleman, E.; Haberl, J.; Parke, F.; Skaria, S.; Halstead, J.; Andrews, M	100101
ESL-PA-10-01-02	Stable Controller Interpolation/Controller Switching for LPV Systems, <i>ASME Journal of Dynamic Systems, Measurement, and Control</i> , vol. 132, no. 1, paper 011007 (12 pages), Jan. 2010.	Rasmussen, B.P.; Chang, Y.J.	153698
ESL-TR-10-01-01	A Comparison of the Stringency of the 2001 IECC versus the 2009 IECC and 2009 IRC, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Liu, Z.; Mukhopadhyay, J.; Haberl, J.; Yazdani, B.; Culp, C.	90511
ESL-TR-10-03-01	Analysis of Emissions Calculators for the National Center of Excellence on Displaced Emissions Reduction (CEDER), <i>Energy Systems Laboratory, Texas A&amp;M University</i>	Yazdani, B.; Culp, C.; Haberl, J.; Baltazar, J.C.; Do, S.	90544
ESL-PA-10-03-01	Failure Analysis and Redesign of the Evaporator Tubing in a Kimchi Refrigerator, <i>Engineering Failure Analysis</i> , Vol. 17, Issue 2, pp. 369-379, March 2010.	Woo, S.; O'Neal, D.; Pecht, M.	100301
ESL-PA-10-05-01	On Reducing Evaporator Superheat Nonlinearity with Control Architecture, <i>International Journal of Refrigeration</i> , vol. 33, no. 3, pp. 607-614, May 2010.	Elliott, M.S.; Rasmussen, B.P.	153743
ESL-TH-10-05-01	Methods for Rapid Estimation of Motor Input Power in HVAC Assessments, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Christman, K.	100501
ESL-TH-10-05-05	Parameter Estimation of Dynamic Air-Conditioning Component Models Using Limited Sensor Data, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Hariharan, N.; Rasmussen, B.P.	8032
ESL-TH-10-05-06	Gain Scheduled Control Using the Dual Youla Parameterization, <i>Doctoral Dissertation, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Chang, Y. J.; Rasmussen, B.	7654
ESL-IE-10-05-02	Multipollutant Removal with WOWClean® System	Romero, M.	94048
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ESL-PA-10-06-01	Reliability Design of a Reciprocating Compressor Suction Reed Valve in a Common Refrigerator Subjected to Repetitive Pressure Loads, <i>Engineering Failure Analysis</i> , Vol. 17, Issue 4, pp. 979-991, June 2010.	Woo, S.; O'Neal, D.; Pecht, M.	630709
ESL-PA-10-06-02	A Control Architecture Solution to Superheat Nonlinearity, <i>2010 American Control Conference</i> , Baltimore, MD, 2010.	Elliott, M.S.; Shenoy, B.; Rasmussen, B.P.	55312
ESL-PA-10-06-03	Parameter Estimation of HVAC Model with Limited Sensors, <i>2010 American Control Conference</i> , Baltimore, MD, 2010.	Hariharan, N.; Rasmussen, B.P.	5531211
ESL-TR-10-06-01	2010 Texas Jurisdiction Energy Code Adoption Survey, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Energy Systems Laboratory	93373
ESL-TR-10-07-01	Energy Efficiency/Renewable Energy Impact in the Texas Emissions Reduction Plan (TERP) Preliminary Report: Integrated NOx Emissions Savings from EE/RE Programs Statewide, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Haberl, J.; Culp, C.; Yazdani, B.; Gilman, D.; Liu, Z.; Baltazar, J.C.; Lewis, C.; McKelvey, K.; Mukhopadhyay, J.; Degelman, L.	93153
ESL-PA-10-08-01	Identification of Parameters for Embodied Energy Measurement: A Literature Review, <i>Energy and Buildings</i> , Volume 42, pp. 1238-1247.	Dixit, M. K.; Fernández-Solís, J. L.; Lavy, S.; Culp, C. H.	22268173
ESL-PA-10-08-02	AIM: Web-Based, Residential Energy Calculator for Homeowners, <i>Proceedings of the 4th SimBuild 2010, IBPSA-USA National Conference</i> , August 2010.	Marshall, K.; Moss, M.; Malhotra, M.; Liu, B.; Culp, C.; Haberl, J.; Herbert, C.; Good Company Associates Inc.	93382
ESL-PA-10-08-03	Energyplus Vs DOE-2: The Effects of Ground Coupling on Heating and Cooling Energy Consumption of a Slab-On-Grade Code House in a Cold Climate, <i>Proceedings of the 4th SimBuild 2010, IBPSA-USA National Conference</i> August 2010.	Andolsun, S.; Culp, C.; Haberl, J.	93374
ESL-PA-10-08-04	Integrating Solar Thermal and Photovoltaic Systems in Whole Building Energy Simulation, <i>Proceedings of the 4th SimBuild 2010, IBPSA-USA National Conference</i> , August 2010.	Cho, S.; Haberl, J.	93375
ESL-PA-10-08-05	Analysis of the Energy Savings Potential in K-5 Schools in Hot and Humid Climates: Application of High Performance Measures and Renewable Energy Systems, <i>Proceedings of the 4th SimBuild 2010, IBPSA-USA National Conference</i> , August 2010.	Im, P.; Haberl, J.	93376
ESL-PA-10-08-06	Going Beyond RESNET Certification for Code-Compliant Simulations: A Comparison of Detailed Results of Three RESNET-Certified, Code-Compliant Residential Simulation Programs, <i>Proceedings of the 4th SimBuild 2010, IBPSA-USA National Conference</i> , August 2010.	Liu, Z.; Kim, H.; Malhotra, M.; Mukhopadhyay, J.; Baltazar, J.C.; Haberl, J.; Culp, C.; Yazdani, B.; Montgomery, C.	93377
ESL-PA-10-08-07	Simulated Building Energy Performance of Single Family Detached Residences Designed for Off-Grid, Off-Pipe Operation, <i>Proceedings of the 4th SimBuild 2010, IBPSA-USA National Conference</i> , August 2010.	Malhotra, M.; Haberl, J.	93378
ESL-PA-10-08-08	An Economic Survey of Hydrogen Production from Conventional and Alternative Energy Sources, <i>International Journal of Hydrogen Energy</i>	Bartels, J.; Olson, N.; Pate, M.	100808
ESL-TH-10-08-01	Improvements and Applications of the Methodology For Potential Energy Savings Estimation from Retro-Commissioning/Retrofit Measures, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Liu, J.	150923

ESL-TH-10-08-02	Modeling of ECM Controlled Series Fan-Powered VAV Terminal Units, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Yin, P.	8465
ESL-TR-10-08-01	Energy Efficiency, Cost Effectiveness, and Air Pollutant Reduction Analysis from Energy Efficiency and Renewable Energy (EE/RE) Projects in Texas Public Schools, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Kim, H.; Liu, Z.; Mukhopadhyay, J.; Do, S.; Kim, K.; Baltazar, J.C.; Haberl, J.; Culp, C.; Yazdani, B.	93372
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ESL-PA-11-01-03	Parameter Estimation of Vapor Compression Cycle Models Using Limited Sensor Information, <i>ASHRAE Transactions</i>	Hariharan, N.; Rasmussen, B.P.	110103
ESL-PA-11-06-01	Cascaded Superheat Control with a Multiple Evaporator Refrigeration System, <i>2011 American Control Conference</i>	Elliott, M.; Estrada, C.; Rasmussen, B.	110601
ESL-PA-11-11-01	Operating Characteristics of a High Efficiency Pilot Scale Corn Distillers Grains Dryer, <i>Applied Engineering in Agriculture</i>	Bern, C.; Pate, M.; Shivvers, S.	111101
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ESL-IE-81-04-79	Nuclear Energy--Uranium to Electricity Part I	Ihms, O. L.	
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ESL-IE-81-04-103	Cogeneration Utilizing High Efficiency Turbomachinery	Burton, D. C.; Athearn, F. H.	
ESL-IE-81-04-107	Matching Training and the Trainee	Bishop, D. L.	
ESL-IE-81-04-115	How to Make a Steam Balance	Brinsko, J. A.	
ESL-IE-81-04-118	Corrosion in Steam Systems	Hitts, R.	
ESL-IE-82-04-06	Economic and Design Considerations--Operating Practice	Burns, E. D. Jr.	
ESL-IE-82-04-07	Economic and Design Considerations--Equipment Considerations	Burns, E. D. Jr.	
ESL-IE-82-04-11	Financing Industrial Energy Efficiency Improvements	Klepper, M.	
ESL-IE-82-04-12	The Financial Risks of Synthetic Fuel and Other Large Energy Projects	Hegglund, J. W.	
ESL-IE-82-04-18	How to Get Approval for Energy Conservation Projects	Chatterjee, N.	
ESL-IE-82-04-30	Thermal Performance of Piping Systems	McHale, B.	
ESL-IE-82-04-31	How to Conduct an Energy Management Program	Miner, J.	
ESL-IE-82-04-33	Conserving Energy with Refractory Fiber	Parker, W. H.	
ESL-IE-82-04-37	Synthetic Fuels--The Energy Challenge and Opportunity of the Eighties	Homeyer, H. C.	
ESL-IE-82-04-44	Cooling Towers--The Neglected Energy Conservation Machine	Burger, R.	
ESL-IE-82-04-45	Common Cooling Tower Misconceptions	Willa, J.	
ESL-IE-82-04-49	Computer Monitoring and Control of a Fuel Gas System	Perry, R. T.	
ESL-IE-82-04-54	Petroleum Resource Energy Forecasting	Woodruff, R. L.	
ESL-IE-82-04-55	Electric Power, A Potentially Plentiful Resource	Reynolds, S. D.	
ESL-IE-82-04-83	Utilities Monitoring of a Large Petrochemical Complex Utilizing a Dec-Pop-11/40	Truesdale, P. B.	
ESL-IE-82-04-98	Application of Multivariable Combustion Control to Process Furnaces: A Case Study	Tomanek, G. L.	
ESL-IE-82-04-105	The Performance of Plate Heat Exchangers in Moist Hot Air	Gilbert, J.; Spencer, A.	
ESL-IE-82-04-134	Recuperators for Retrofitting Heat Treat Furnaces and Forge Furnaces	Enders, A.	
ESL-IE-82-04-145	Energy Conservation at ESSO Antwerp Refinery	Blancke, L.	
ESL-IE-82-04-146	Improving the Energy Efficiency of Fertilizer Production--What Are The Implications?	Becker, C. L.	
ESL-PA-84-01-01	Effect of Ventilated Trombe Wall Airflow, <i>Proceedings of the 1984 American Solar Energy Society.</i>	Haberl, J. S.; Kreider, J. F.	
ESL-IE-84-04-03	Sources of Capital for Alternative Energy Projects, <i>Presentation Only</i>	Fenster, L.	
ESL-IE-84-04-21	Small Industrial Cogeneration (Less than 1000 KW) Identifying Opportunities and Case Study, <i>Presentation Only</i>	Smith, W. P. Jr.	
ESL-IE-84-04-22	Balancing Maintenance Costs Against Energy Savings, <i>Presentation Only</i>	Jackson, F. M.	
ESL-IE-84-04-26	Process Energy Analysis and Process Energy Innovation at Badische Corporation, <i>Presentation Only</i>	Smith, W. P. Jr.	
ESL-IE-84-04-27	Cooling Towers, The Neglected Energy Resource, <i>Presentation Only</i>	Burger, R.	
ESL-IE-84-04-30	Air Movers Save Energy, <i>Presentation Only</i>	Monroe, R. C.	
ESL-IE-84-04-31	Know Your Cooling Tower and the Distinct Cooling Water Temperature, <i>Presentation Only</i>	McDonough, L. J.; Campagne, W. B. L.	
ESL-IE-84-04-40	Abrogation of Fuel Contracts, <i>Presentation Only</i>	Delgado, R. M.	
ESL-IE-84-04-58	Critical Fluid Extraction Processes for High-Volume Organic Chemicals, <i>Presentation Only</i>	Moses, J. M.; de Filippie, R. F.	
ESL-IE-84-04-70	Steam Generation Efficiency, <i>Presentation Only</i>	Sylva, D. M.	
ESL-IE-84-04-71	Comparative Assessment of Potential Cogeneration Technologies, <i>Presentation Only</i>	Kusik, C. L.; Fox, L. K.; Little, A. D.; Pietsch, A.; Hamm, R.	
ESL-IE-84-04-94	High Power High Speed Electric Drives: A New Way of Energy Saving and Major Reduction in Production Costs, <i>Presentation Only</i>	Malherbe, J.	
ESL-IE-84-04-102	Controller-Based Boiler Load Allocation, <i>Presentation Only</i>	Niemeyer, D.	
ESL-IE-84-04-111	What is the Value of Steam, Condensate and Waste Heat, <i>Presentation Only</i>	Campagne, W. V. L.	
ESL-IE-84-04-114	Managing the Steam Trap Population, <i>Presentation Only</i>	Atlas, R. D.	
ESL-IE-84-04-115	Heat Pump Opportunities in Industry, <i>Presentation Only</i>	Gilbert, J. S.	
ESL-IE-84-04-126	Industrial Energy Conservation and Management, <i>Presentation Only</i>	McChesney, H. R.; Sgamboti, C.T.; Obee, T. N.; Rhodes, B. W.; Landerman, A. M.	
ESL-IE-84-04-128	Energy Management Programs for Commercial Electric Customers, <i>Presentation Only</i>	Doll, L. R.	
ESL-IE-85-05-06	Analysis of Training Requirements to Support Industrial Cogeneration	Alfred, R. W.	
ESL-IE-85-05-52	Upgrading Thermal Performance Through Building Insulation	Dunlop, R.	
ESL-IE-85-05-101	Sources of Capital for Energy Projects	Weinress, J. B.	
ESL-IE-85-05-122	The Personal Computer on the Industrial Floor with Remote I/O, G.	Morgan, W.	
ESL-PA-85-10-01	A Modular Microcomputer-Based Data Acquisition System for Monitoring Energy Consumption in Buildings, <i>Proceedings of the USDOE Field Data Acquisition for Building and Equipment Energy Use Monitoring Workshop, Oak Ridge National Laboratory, Oak Ridge, TN, October 1985.</i>	Haberl, J. S.; Volckhausen, T.; Claridge, D. E.	N/A



ESL-IE-86-06-71	Advances in Absorption Cycle Technology	Fallek, M.	
ESL-IE-86-06-76	Potential for Electric Heat Pumps in the Process Industries	Witherell, D.	
ESL-IE-86-06-83	Power Generation and Power Use Within Industrial Plants	Gilbert, J.	
ESL-TH-86-12-01	Computer Simulation and Energy Analysis of Two Commercial Buildings in Austin, Texas, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Farzad, M.	N/A
ESL-TH-87-08-02	Methods to Optimize Building Operations Using TRNSYS Simulation Models at Johnson Controls, Inc., <i>Doctor of Engineering, College of Engineering, Texas A&amp;M University.</i>	Songkakul, P.	N/A
ESL-IE-87-09-70	Industrial Energy Conservation Potentials in North Carolina	Mallik, A.; Barakat, M.; Singh, H.	
ESL-PA-87-12-01	An Action-Oriented, Team Approach to Building Energy Conservation Using Regression Techniques and Expert Systems, <i>Proceedings of the ASME Winter Annual Meeting, Solar Energy Division</i> , Boston, MA, Vol. 4, pp. 141-148	Cooney, K.; Stern, F.; Haberl, J. S.	N/A
ESL-PA-89-05-02	Identification of Conservation Opportunities from Analysis of Energy Consumption Data, <i>End-Use Load Information And Application Conference</i> , W. S. Fleming & Associates, Syracuse, N.Y., May 1989.	Haberl, J. S.; Komor, P.	N/A
ESL-TH-89-12-03	Simulation Modeling of Energy Consumption in the Zachry Engineering Center, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University</i>	Torres-Nunci, N.	N/A
ESL-PA-90-02-01	The Design of Field Experiments and Demonstrations, <i>IEA Field Monitoring Workshop</i> , April 2 – 5, Othenburg, Sweden, Vol. 1, pp. 33–58	Haberl, J. S.; Claridge, D. E.; Harrje, D.	N/A
ESL-PA-90-05-01	The Texas LoanSTAR Monitoring and Analysis Program: A Brief Introduction, <i>IBPSA Newsletter 1990</i> , Vol. 3, No. 2, pp. 7 – 9	Haberl, J. S.; Claridge, D. E.; O'Neal, D. L.; Heffington, W. M.; Turner, W. D.; Verdict, M.	N/A
ESL-PA-90-07-02	Remote Monitoring of a Ground-Coupled Heat Pump, <i>Proceedings of the 2<sup>nd</sup> Annual Conference on End-Use Load Information and Its Role in DSM</i> , Irvine, CA, July 11-13.	O'Neal, D. L.; Dobson, M.; Finnin, A. J.; Wolfe, M. L.; Aldred, W.	N/A
ESL-PA-90-08-01	Monitoring \$98 Million in Energy Efficiency Retrofits: The Texas LoanSTAR Program, <i>Proceedings of the ACEEE 1990 Summer Study on Energy Efficiency in Buildings</i> , Washington, D.C.; August, pp. 7.261 – 7.271.	Verdict, M. E.; Haberl, J. S.; Claridge, D. E.; O'Neal, D. L.; Heffington, W. M.; Turner, W. D.	N/A
ESL-PA-91-06-03	A Graduate Course in Energy Management Applications, <i>Proceedings of the 1991 ASEE Annual Conference</i> , New Orleans, Louisiana, Vol. 1, pp. 671-674, June 16-19, 1991.	Heffington, W. M.	N/A
ESL-PA-91-07-02	A Toolkit to Help Calibrate the DOE-2 Simulation Program to Non-Weather Dependent Measured Loads, <i>IBPSA Newsletter</i> , December 1991, Vol. 4, No. 3, pp. 5 – 10	Bronson, D.; Hinchey, S.; Haberl, J. S.; O'Neal, D. L.; Claridge, D. E.	N/A
ESL-PA-91-09-01	The Texas LoanSTAR Program: Early Measured Savings, <i>International Symposium of Heating, Ventilation, and Air Conditioning</i> , September 23-25, Beijing, China	Claridge, D. E.; Haberl, J. S.; Kissock, J. K.; Wu, J.	N/A
ESL-PA-92-04-04	Calibration of Flowmeters for Use in HVAC Systems Monitoring, <i>Solar Engineering 1992: Proceedings of the 1992 ASME-JSES-KSES International Solar Energy Conference</i> , Maui, HI, April 5 – 9, Vol. 2, pp. 1277 – 1283	Haberl, J. S.; Turner, W. D.; Finstad, C.; Scott, F.; Bryant, J.; Coonrod, D.	
ESL-PA-92-04-05	Auditing for Energy Retrofits: Results and Lessons from a Major State Program, <i>Solar Engineering 1992: Proceedings of the 1992 ASME-JSES-KSES International Solar Energy Conference</i> , Maui, HI, April 5 – 9, Vol. 1, pp. 291 – 297	Heffington, W. M.; Britton, A. J.; Athar, A.; Nutter, D. W.	
ESL-PA-92-04-08	Data Processing Routines for Monitored Building Energy Data, <i>Solar Engineering 1992: Proceedings of the 1992 ASME-JSES-KSES International Solar Energy Conference</i> , Maui, HI, April 5 – 9, Vol. 1, pp. 329 – 336	López, R. E.; Haberl, J. S.	
ESL-PA-92-04-09	Building Energy Instrumentation for Determining Retrofit Savings: Lessons Learned, <i>Solar Engineering 1992: Proceedings of the 1992 ASME-JSES-KSES International Solar Energy Conference</i> , Maui, HI, April 5 – 9, Vol. 2, pp. 1263-1268	O'Neal, D. L.; Bryant, J.; Boles, K.	
ESL-PA-92-04-10	Testing Data Acquisition Systems for Use in HVAC System Monitoring, <i>Solar Engineering 1992: Proceedings of the 1992 ASME-JSES-KSES International Solar Energy Conference</i> , Maui, HI, April 5 – 9, Vol. 1, pp. 325 – 328	Sparks, R. J.; Haberl, J. S.; Bhattacharyya, S.; Rayaprolu, M.; Wang, J.; Vadlamani, S.	
ESL-PA-92-04-11	Calibration Facility for the LoanSTAR Program, <i>Solar Engineering 1992: Proceedings of the 1992 ASME-JSES-KSES International Solar Energy Conference</i> , Maui, HI, April 5 – 9, Vol. 2, pp. 1269 – 1275	Turner, W. D.; Haberl, J. S.; Bryant, J.; Finstad, C.; Robinson, J.	
ESL-IE-92-04-48	Electrochemical Ozone Production Technology for Industrial Wastewater Treatment	Goodwin, M.	
ESL-PA-92-06-01	Preparing Students for the Texas Summer Energy Intern Program, <i>Proceedings of the 1992 ASEE Annual Conference</i> , Toledo, Ohio, Vol. 1, pp.797-799, June 21-25, 1992.	W. M. Heffington	
ESL-PA-92-07-01	Examination of Alternate Defrost Strategies for an Air-Source Heat Pump: Multi-Stage Defrost, <i>1992 ASME Winter Annual Meeting</i> , Anaheim, CA, Nov. 2.	Payne, V.; O'Neal, D. L.	
ESL-PA-92-08-02	Importance of Monitoring Air Handler Performance, <i>Proceedings of the ACEEE 1992 Summer Study on Energy Efficiency in Buildings</i> , Vol. 3, American Council for an Energy Efficient Economy, Washington, D.C.; pp. 3.161 – 3.164.	Katipamula, S.; Claridge, D. E.	
ESL-PA-92-08-03	Future Directions: Building Technologies and Design Tools, <i>Proceedings of the 1992 ACEEE Summer Study</i> , pp. 1.269 - 1.290, August 1992.	Selkowitz, S. E.; Haberl, J. S.; Claridge, D. E.	
ESL-PA-92-08-04	Panel 3 Overview: Commercial Performance Analysis and Measurement, <i>Proceedings of the 1992 ACEEE Summer Study</i> , pp. 3.xi-3.xiv, August 1992.	Haberl, J. S.; Anderson, R.	
ESL-PA-92-12-09	The Energy Impact of Combined Solar Radiation/Infiltration/Conduction Effects in Walls and Attics, <i>Proceedings of the ASHRAE/DOE/BTECC Conference</i> , Clearwater Beach, Florida.	Liu, M.; Claridge, D. E.	
ESL-PA-93-01-01	Graphical Tools to Help Calibrate the DOE-2 Simulation Program, <i>ASHRAE Journal</i> , January, Vol. 35, No. 1, pp. 27 – 32.	Haberl, J. S.; Bronson, J. D.; Hinchey, S. B.; O'Neal, D. L.	
ESL-IE-93-03-53	The Zero-Net Emission Boiler Concept, <i>Presentation Only</i>	Karnitz, M.	
ESL-IE-93-03-54	Demand-Side Management--Creative Ways to Reduce Peak Load for Industrial Customers, <i>Presentation Only</i>	Trobaugh, J.	
ESL-IE-93-03-55	Liquid Fuel from Recovered Paper, <i>Presentation Only</i>	Nicholson, W.	
ESL-IE-93-03-56	Energy in the Paper Industry, <i>Presentation Only</i>	Metz, J.	
ESL-IE-93-03-57	Burning Non-Recyclable Paper for Fuel, <i>Presentation Only</i>	Modi, D.	
ESL-IE-93-03-58	Cogeneration in the Paper Industry, <i>Presentation Only</i>	Single, T.	
ESL-IE-93-03-59	Electrically Driven Gas Pipeline Compressor, <i>Presentation Only</i>	Fagg, J.	
ESL-IE-93-03-60	An Improved Process for MTBE Unit Feed Pretreatment, <i>Presentation Only</i>	Byседа, J.	
ESL-IE-93-03-61	Application of a High Lift Absorption Heat Pump in a Refinery, <i>Presentation Only</i>	Halsell, C.	
ESL-PA-93-04-01	The Effect of Short Data Periods on the Annual Prediction Accuracy of Temperature-Dependent Regression Models of Commercial Building Energy Use, <i>Proceedings of the ASME-ASES-SED International Solar Energy Conference</i> , Washington D.C.; April 25 – 28, pp. 455 – 463.	Kissock, J. K.; Reddy, T. A.; Fletcher, D.; Claridge, D. E.	
ESL-PA-93-04-02	A Generalized Preliminary Assessment of No-Storage Solar and Wind Grid-Intertie Systems, <i>Proceedings of the ASME-ASES-SED International Solar Energy Conference</i> , Washington D.C.; April 25 – 28.	Reddy, T. A.	

ESL-PA-93-04-03	Model Identification and Prediction Uncertainty of Linear Building Energy Use Models with Autocorrelated Residuals, <i>Proceedings of the ASME-ASES-SED International Solar Energy Conference</i> , Washington D.C.; April 25 – 28.	Ruch, D. K.; Kissock, J. K.; Reddy, T. A.	
ESL-PA-93-04-04	Improving the Paradigm for Displaying Complex Building Energy Consumption Data, <i>Proceedings of the ASME-ASES-SED International Solar Energy Conference</i> , Washington D.C., April 25 – 28.	Haberl, J. S.; Kissock, J. K.; Belur, R.; Sparks, R. J.	
ESL-PA-93-04-11	A Calorimetric Method for Heat Transfer Coefficient Measurement of Thermal Envelopes, <i>1993 Proceedings of the ASME-ASES-SED International Solar Energy Conference</i> , April 4-9, Washington, D.C.; pp. 495 – 505.	Liu, M.; Claridge, D. E.	
ESL-PA-93-08-06	Two-Phase Flow of HFC-134a through Short Tube Orifices, <i>Proceedings of the International Conference of Korean Scientists: Mechanical and Aerodynamics</i> , Seoul, Korea, August 20, pp. 1777 – 1781.	Kim, Y.; O'Neal, D. L.	
ESL-PA-93-12-06	The Effects of Outdoor Fan Airflow on the Frost/Defrost Performance of an Air-Source Heat Pump, <i>AES – Volume 29, Heat Pump and Refrigeration Systems Design, Analysis, and Applications ASME 1993</i> , pp. 107 – 115.	Payne, V.; O'Neal, D. L.	
ESL-PA-93-12-07	An Experimental Study of Two-Phase Flow of HFC-134a Through Short Tube Orifices, <i>AES – Volume 29, Heat Pump and Refrigeration Systems Design, Analysis, and Applications ASME 1993</i> , pp. 1 – 8.	Kim, Y.; O'Neal, D. L.	
ESL-PA-94-01-02	A Study of the Application of a Monogroove Heat Pipe to Solar Collectors, <i>ASME International Solar Energy Conference and ASME Journal of Solar Energy Engineering 1994</i> .	Kim, B. H.; Haberl, J. S.; Peterson, G. P.	
ESL-PA-94-01-03	Development of Procedures for the Computerized Plotting of a Sun-Path Diagram, and Shading Mask Protractor, <i>ASME International Solar Energy Conference &amp; ASME Journal of Solar Energy Engineering 1994</i> .	McWatters, K.; Haberl, J. S.	
ESL-PA-94-03-01	Development and Application of Regression Models to Predict Cooling Energy Consumption in Large Commercial Buildings, <i>Solar Engineering 1994: Proceedings of the 1994 ASME/JSME/JSES International Solar Energy Conference</i> , San Francisco, CA, March 27 – 30, pp. 307 – 322.	Katipamula, S.; Reddy, T. A.; Claridge, D. E.	
ESL-PA-94-03-02	Enhancing Thermal Energy Efficiency of Terminal Reheat HVAC Systems by Coil-Bypass, <i>Solar Engineering 1994: Proceedings of the 1994 ASME/JSME/JSES International Solar Energy Conference</i> , San Francisco, CA, March 27 – 30.	Reddy, T. A.	
ESL-PA-94-03-03	Improved Fourier Series Approach to Modeling Hourly Energy Use in Commercial Buildings, <i>Solar Engineering 1994: Proceedings of the 1994 ASME/JSME/JSES International Solar Energy Conference</i> , San Francisco, CA, March 27 – 30.	Dhar, A.; Reddy, T. A.; Claridge, D. E.	
ESL-IE-94-04-06	New Technology in Unidirectional Ultrasonic Washing Systems to Greatly Reduce Required Water Temperatures, <i>Presentation Only</i>	Evans, D.	
ESL-IE-94-04-09	Environmental Permitting for Cogeneration Facilities: Potential Impediments to Timely Completion of Projects or, Get to Know Your Neighbors, <i>Presentation Only</i>	Hamilton, J.	
ESL-IE-94-04-10	Industrial-Utility Partnership Strategies: Winning the Energy Cost Battle Without Waging a War, <i>Presentation Only</i>	Fry, T.; Lowe, E.	
ESL-IE-94-04-13	Emerging Efforts by Utilities to Target Industrial Energy Efficiency, and Better Meet Customer Needs, <i>Presentation Only</i>	Wood, B.; Faruqui, A.	
ESL-IE-94-04-14	Rapid Heating of Metals, <i>Presentation Only</i>	Chan, I.; Sikirica, S.	
ESL-IE-94-04-15	Development and Demonstration of a Low-NOx Burner for High Temperature Industrial Furnaces, <i>Presentation Only</i>	Thijssen, J.; Benson, C.	
ESL-IE-94-04-41	Cooling Towers Make Money, <i>Presentation Only</i>	Burger, R.	
ESL-IE-94-04-16	High Performance, Infra-Red Burners	Singh, S.	
ESL-IE-94-04-17	Gas-Fired Smelting for Metals Recovery from Hazardous Solid Wastes, <i>Presentation Only</i>	Clark, R.; Pusateri, J.; Lherbier, J.	
ESL-IE-94-04-18	An Innovative Gas-Based NOx Compliance Option, <i>Presentation Only</i>	Brooks, D.	
ESL-IE-94-04-33	Methodology for Estimating the Potential for Energy Savings in Industry, <i>Presentation Only</i>	Abou-Seido, E.; Shapiro, H.	
ESL-IE-94-04-45	Correlation of Viscosity of Black Liquor and Its Relation to Fundamental Solution Behavior, <i>Presentation Only</i>	Fricke, A.	
ESL-IE-94-04-48	Impulse Drying of Paper, <i>Presentation Only</i>	Orloff, D.	
ESL-IE-94-04-49	Gasification of Black Liquor, <i>Presentation Only</i>	Mansour, M.	
ESL-IE-94-04-52	Installation and Operation of Sorbathene Solvent Vapor Recovery Units to Recover and Recycle Volatile Organic Compounds at Operating Sites Within the Dow Chemical Company	Hall, T.; Larrinaga, L.	
ESL-IE-94-04-53	Wastewater Treatment and Product Recovery by Vibrational Shear Enhanced Processing (VSEP), <i>Presentation Only</i>	Culkin, B.; Armando, A.	
ESL-HH-94-05-01	Cost-effective Lighting Retrofits: Lessons Learned	Fisher, M. D.	
ESL-HH-94-05-02	Micro-Management of Lighting Controls Projects	Clark, W. H.	
ESL-PA-94-06-04	Savings in the Texas LoanSTAR Program are 119% of Audit Predictions – and Expected to Increase, <i>Inside Building Technologies, USDOE</i> , June, Vol. 1, No. 3, p. 4-7.	Claridge, D. E.; Turner, W. D.; Haberl, J. S.; O'Neal, D. L.; Heffington, W. M.	
ESL-PA-94-06-06	Examination of Variables for Use in Controlling Outdoor Coil Airflow in an Air-Source Heat Pump During Frost Forming Conditions, <i>ASHRAE Transactions: Research</i> , Volume 100, Part 2, pp. 131-139, June, 1994.	Payne, W. V.; O'Neal, D. L.	
ESL-PA-94-06-07	Education of Industrial Plant Personnel About Electrical Rates During Energy Audits, <i>Proceedings of the 1994 ASSE Annual Conference</i> , Edmonton, Alberta, Canada, Vol. 2, pp. 2027-2030, June 26-29, 1994.	Heffington, W. M.	
ESL-PA-94-08-04	The Effect of Improper Refrigerant Charging on the Performance of a Residential Heat Pump with Fixed Expansion Devices (Capillary Tube and Short Tube Orifice), <i>Proceedings of the 29<sup>th</sup> Intersociety Energy Conversion Engineering Conference</i> , August 7 – 11, Monterey, CA, Pt. 2, pp. 921 – 926.	Farzad, M.; O'Neal, D. L.	
ESL-PA-94-07-02	Top Papers from "The Great Energy Predictor Shootout I: Measuring Retrofit Energy Savings," <i>ASHRAE Transactions</i> , Vol. 100, Pt. 2. Papers follow below: PA-94-07-02-1 through PA-94-07-02-6	MacKay, D. J. C.; Ohisson, M. B. O.; Peterson, C. O.; Pi, H.; Rognvaldsson, T. S.; Soderberg, B. P. W.; Feuston, B. P.; Thurtell, J. H.; Stevenson, W. J.; Iijima, M.; Takagi, K.; Takeuchi, R.; Matsumoto, T.; Kawashima, M.	
ESL-PA-94-07-08	Prediction of US Crude Oil Using Growth Curves, <i>Energy - The International Journal</i> Vol.19, pp. 813-815, 1994.	Heffington, W. M.; Brasovan, W. M.	
ESL-PA-94-08-01	Panel 5 Introduction: Commissioning, Operation and Maintenance, <i>Proceedings of the 1994 ACEEE Summer Study on Energy Efficiency in Buildings</i> , pp. 5.153-5.166.	Haberl, J. S.; Nelson, G.	
ESL-PA-94-08-06	Energy Retrofits Can Cut Use and Costs, <i>Mechanical Engineering</i> , August, pp. 64 – 67	Claridge, D. E.; Haberl, J. S.; Turner, W. D.; O'Neal, D. L.	
ESL-PA-95-08-03	Development of Graphical Indices for Displaying Large Scale Building Energy Data Sets, <i>Proceedings of the 30<sup>th</sup> Intersociety Energy Conversion Engineering Conference</i> , Orlando, Florida, July 31 – August 4, Paper No. 95-92, pp. 349-356.	Abbas, M.; Haberl, J. S.	
ESL-PA-95-09-03	Improved Operation and Maintenance Reduce Energy Costs by \$2,343,000/Yr in LoanSTAR Buildings. <i>Proceedings of the International HVAC Symposium</i> , September 25-27, 1995, Beijing, China.	Liu, M.; Athar, A.; Zhu, Y.; Reddy, A.; Claridge, D. E.; Haberl, J. S.	

ESL-PA-95-12-01	Monitoring, Analysis Help LoanSTAR Plan Succeed, <i>Energy User News</i> , p. 14, 1995.	Athar, A.	
ESL-PA-96-07-03-5	Statistical Analysis of Neural Networks as Applied to Building Energy Prediction, from "The Great Energy Predictor Shootout II: Measuring Retrofit Energy Savings," <i>Journal of Solar Energy Engineering, ASHRAE Transactions</i> , 1996, pp. 495 – 505.	Dodier, R. H.; Henze, G. P.	
ESL-PA-96-07-03	Top Papers from "The Great Energy Predictor Shootout II: Measuring Retrofit Savings," One paper published in <i>ASHRAE</i> and four papers submitted to <i>ASHRAE Transactions: Papers follow below: PA-96-07-03-1 through PA-96-07-03-5</i>	Haberl, J.; Thamilsaran, S.; Katipamula, S.; Chonan, Y.; Nishida, K.; Matsumoto, T.; Jang, K. J.; Bartlett, E. B.; Nelson, R. M.; Dodier, R. H.; Henze, G. P.	
ESL-PA-96-08-04	Energy and IAQ Implications of Different Outdoor Air Ventilation Strategies for Terminal Reheat Variable Air Volume Systems, <i>Proceedings 4, Commercial Buildings: Technologies, Design, and Performance Analysis, 1996 ACEEE Summer Study on Energy Efficiency in Buildings</i> , pp. 4.297 – 4.309.	Reddy, T. A.; Liu, M.; Claridge, D. E.	
ESL-PA-96-08-02	Total Utility Savings from the 37,000 Fixture Lighting Retrofit to the U.S. DOE Forrestal Building, <i>Proceedings 4, Commercial Buildings: Technologies, Design, and Performance Analysis, 1996 ACEEE Summer Study on Energy Efficiency in Buildings</i> , pp. 4.31 – 4.48.	Bou-Saada, T.; Haberl, J.; Vajda, E. J.; Shincovich, M.; D'Angelo, L.; Harris, L.	
ESL-PA-96-08-03	Implementation of Continuous Commissioning in the Texas LoanSTAR Program: "Can You Achieve 150% of Estimated Retrofit Savings" Revisited, <i>Proceedings 4, Commercial Buildings: Technologies, Design, and Performance Analysis, 1996 ACEEE Summer Study on Energy Efficiency in Buildings</i> , pp. 4.59 – 4.67.	Claridge, D. E.; Liu, M.; Zhu, Y.; Abbas, M.; Athar, A.; Haberl, J.	
ESL-PA-97-04-02	Improving Building Energy System Performance by Continuous Commissioning, <i>Proceedings of the 5<sup>th</sup> National Conference on Building Commissioning</i> , Huntington Beach, CA, April 28-30.	Liu, M.; Claridge, D. E.; Haberl, J. S.; Turner, W. D.	
ESL-PA-97-04-03	A Continuous Commissioning Case Study of a State-of-the-Art Building, <i>Proceedings of the 5<sup>th</sup> National Conference on Building Commissioning</i> , Huntington Beach, CA, April 28-30.	Zhu, Y.; Liu, M.; Claridge, D. E.; Feary, D.; Smith, T.	
ESL-PA-97-04-04	Continuous Commissioning: An Operations Management Strategy for Energy Management, <i>Proceedings of the 5<sup>th</sup> National Conference on Building Commissioning</i> , Huntington Beach, CA, April 28-30.	Bruner, H. L., Jr.; Darnell, C. G.; Liu, M.	
ESL-PA-97-08-02	An Improved Multipyranometer Array for the Measurement of Direct and Diffuse Solar Radiation, <i>Proceedings of the CLIMA 2000 Conference</i> , Belgium, August 1997.	Munger, B. K.; Haberl, J.	N/A
ESL-PA-97-08-01	LoanSTAR Data Handling and Analysis Software for Measuring Building Energy Data, <i>Proceedings of the CLIMA 2000 Conference</i> , Belgium, August 1997.	Haberl, J. S.; Sparks, R.; Chambers, R.	
ESL-PA-97-09-02	Overview of LoanSTAR Chiller Monitoring and Analysis of <i>In-Situ</i> Chiller Diagnostics using ASHRAE RP827 Test Method, <i>Proceedings of the PG&amp;E Cool Sense National Integrated Chiller Retrofit Forum</i> , September 23-24, 1997.	Haberl, J. S.; Reddy, T. A.; Figueroa, I.; Medina, M.	
ESL-PA-97-10-01	A Case for System Optimization, <i>Engineered Systems</i> , October, pp. 82-88.	Athar, A.	
ESL-PA-98-01-01	The Great Energy Predictor Shootout II Measuring Retrofit Savings, <i>ASHRAE Journal</i> , Vol. 1, No. 1, pp. 49-56.	Haberl, J.; Thamilsaran, S.	
ESL-PA-98-01-02	"Air Conditioning and Distribution Systems" and "Multiple Interior Zone HVAC Systems," <i>1998 AIA Architect's Graphic Standards Supplement</i> , pp. 321-325 (1998).	Haberl, J. S.	
ESL-PA-98-02-01	A Transient Heat and Mass Transfer Model of Residential Attics Used to Simulate Radiant Barrier Retrofits - Part I: Development, <i>ASME Journal of Solar Energy Engineering</i> , Vol 120, No. 1, pp. 32-38, Feb. 1998.	Medina, M. A.; O'Neal, D. L.; Turner, W. D.	
ESL-PA-98-02-02	A Transient Heat and Mass Transfer Model of Residential Attics Used to Simulate Radiant Barrier Retrofits - Part II: Validations and Simulations, <i>ASME Journal of Solar Energy Engineering</i> , Vol. 120, No. 1, pp. 39-44, Feb. 1998.	Medina, M. A.; O'Neal, D. L.; Turner, W. D.	
ESL-PA-98-01-04	Visualization Study of Enhanced Flash Boiling of HCFC-22 with 5 mm Steel and Glass Spheres, <i>ASHRAE Transactions: Research</i> , Vol. 104, Pt. 1, pp. 734-741, January 1998.	Nutter, D.W.; O'Neal, D. L.	
ESL-IE-98-04-41	The Radiance Process: Water and Chemical Free Cleaning	Robison, J. H.	
ESL-PA-98-05-02	System Optimization Saves \$195,000/yr in A New Medical Facility, <i>Proceedings of the 6<sup>th</sup> National Conference on Building Commissioning</i> , Lake Buena Vista, FL, May 18-20.	Liu, M.; Zhu, Y.; Powell, T.; Claridge, D. E.	
ESL-PA-98-05-03	The Continuous Commissioning Process and Rebuild America (Brazos Valley Energy Conservation Coalition), <i>Proceedings of the 6<sup>th</sup> National Conference on Building Commissioning</i> , Lake Buena Vista, FL, May 18-20.	Turner, W. D.; Claridge, D. E.; Liu, M.; Haberl, J. S.	
ESL-TH-98-05-02	Evaluation of the Performance and Emission of a Gas Fired Heat Pump, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Tootle, D.	N/A
ESL-TH-98-05-03	Frost Formation on a Horizontal Plate with Laminar Air Flow, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Zhou, H.	N/A
ESL-PA-98-09-01	Energy and Comfort Benefits of Continuous Commissioning in Buildings, <i>Proceedings of the International Conference on Improving Electricity Efficiency in Commercial Buildings</i> , September 21-23, Amsterdam, The Netherlands, pp. 12.5.1-12.5.17.	Claridge, D. E.; Liu, M.; Turner, W. D.; Zhu, Y.; Abbas, M.; Haberl, J. S.	
ESL-TH-98-12-03	The Use of ASEAM 3.0 to Analyze the Potential for Energy Efficiency in Indonesian Commercial Buildings, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Santosa, J.	N/A
ESL-PA-99-04-01	Investigation on the Use of Short-Term Monitored Data for Long-Term Prediction of Building Energy Use, <i>ASME, Proceedings of the Renewable And Advanced Energy Systems for the 21<sup>st</sup> Century</i> , April 11-14, Lahaina, Maui, HI.	Abushakra, B.; Claridge, D. E.; Reddy, T. A.	
ESL-PA-99-05-01	Advancement of Continuous Commissioning in the Energy Systems Laboratory, Texas A&M University, <i>Proceedings of the 7<sup>th</sup> National Conference on Building Commissioning</i> , May 3-5, Portland, OR.	Liu, M.; Claridge, D. E.; Turner, W. D.	
ESL-TH-99-08-03	Recalibration of Baseline Models for LoanSTAR Buildings with Deterioration in Savings Using Data from Texas Capital Complex Buildings, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Camden, H.	N/A
ESL-PA-01-01-02	3-D Studies of Heat Transfer and Airflow in an Unconditioned Thai Buddhist Temple, <i>Journal of Energy, Heat and Mass Transfer</i> , Vol. 23, pp. 455 – 471.	Sreshthaputra, A.; Haberl, J.; Andrews, M. J.	
ESL-PA-00-06-01	Effect of Dry-Bulb Temperature on the Prediction Bias of Building Energy Use with the Short-Term Monitoring Long-Term Prediction Method, <i>Proceedings of the ASME International Solar Energy Conference Madison, Wisconsin, June 16-21, 2000</i> .	Abushakra, B.; Claridge, D. E.	
ESL-PA-00-06-02	The Effects of PV Glazing on the Energy Consumption of High Rise Commercial Buildings, <i>Solar 2000 Conference Proceedings</i> , American Solar Energy Society, June 16-21, Madison, Wisconsin.	Sylvester, K. E.; Haberl, J. S.	
ESL-PA-00-06-03	Semi-Transparent PV Glazing: Development of Window Properties for Input With the DOE-2 Window Library, <i>Solar 2000 Conference Proceedings</i> , American Solar Energy Society, June 16-21, Madison, Wisconsin.	Sylvester, K., Haberl, J.	
ESL-PA-00-09-01	Function Based 2D Flow Animation, <i>Visual 2000 Conference</i> , Mexico City, Mexico, pp. 100-104.	Akleman, E.; Skaria, S.; Haberl, J. S.	
ESL-PA-01-06-01	Cutting Heating and Cooling Use Almost in Half Without Capital Expenditure in a Previously Retrofit Building, <i>Proceedings of 2001 ECEEE Summer Study</i> , Mandelieu, France, June 11-16, 2001, Vol. 2, pp. 74-85.	Claridge, D. E., Liu, M., Deng, S., Turner, W. D., Haberl, J. S., Lee, S. U., Abbas, M., Bruner, H., and Veteto, B.	
ESL-PA-01-07-03	Functional-based Flow Modeling and Animation, <i>Journal of Visualization and Computer Animation</i> , Vol. 12, pp. 181-189.	Akleman, E.; Melek, Z.; Haberl, J. S.	
ESL-TH-01-08-02	Electrical Demand Control in Industrial Facilities, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University</i> .	Liu, Z.	N/A

ESL-TH-02-05-02	A Procedure to Generate Thermal Utility Billings for Auxiliary Buildings on the TAMU Campus, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Nam, Y.	N/A
ESL-TH-02-05-03	Simulation and Calibration of Thermal Energy Consumption for the Large Animal Hospital and Research Laboratory Buildings at Texas A&M, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Lasanta, J. R.	N/A
ESL-TH-02-05-10	Simulation and Calibration of Energy Consumption for the Scott M. Matheson Courthouse Complex, Salt Lake City, Utah, <i>Masters of Engineering, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Tahir, A.	N/A
ESL-TH-03-05-05	Pressure Control Valves for High-Rise Buildings, <i>Masters of Engineering, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Narasimhan, S.	N/A
ESL-TH-03-12-06	Evaluation of Selected Economizer and Cold Deck Reset Strategies for Dual Duct Single Fan AHUs in Hot and Humid Climates, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University.</i>	Giebler, T.	N/A
ESL-PA-05-02-02	An Experimental Evaluation of Duct-Mounted Relative Humidity Sensors: Part 1 – Test and Evaluation Procedures, <i>ASHRAE Transactions</i> , February 2005, Vol 111 (1), pp165-175.	Joshi, S.N.; Pate, M. B.; Nelson, R. M.; House, J. H.; Klaassen, C.J.	
ESL-TR-05-05-01	Literature Review of Displacement Ventilation, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Cho, S.; Im, P.; Haberl, J. S.	
ESL-TR-05-05-02	Literature Review on Underfloor Air Distribution (UFAD) System, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Im, P.; Cho, S.; Haberl, J. S.	
ESL-IE-05-05-01	Baytown Olefins Plant 2003 Energy Efficiency Projects	Reimann, C.	
ESL-IE-05-05-02	Merck Global Energy Management Program	Williams, K.	
ESL-IE-05-05-03	The Results (Lessons Learned) of More than 110 Energy Audits for Manufacturers by the Louisiana Industrial Assessment Center	Kozman, T.; Davies, T.; Reynolds, C.; O'Quin, R.; DaCosta, J.; Galti, T.; Pechon, C.; Stutes, K.	
ESL-IE-05-05-04	Observations of a Building Energy Auditor: 10 Years in Other People's Closets	Houcek, J. K.	
ESL-IE-05-05-05	How to Avoid Overestimating Variable Speed Drive Savings	Maxwell, J. B.	
ESL-IE-05-05-06	Electrical Power Savings in Pump and Compressor Networks via Load Management	Kumana, J. D.; Aseeri, A. S.	
ESL-IE-05-05-07	Using Key Performance Indicators to Manage Energy Costs	Van Gorp, J. C.	
ESL-IE-05-05-08	Interactive Energy Management Tool (IEMT) for Arkansas Companies	Pidugu, S. B.; Menhart, S.; Midturi, S.	
ESL-IE-05-05-09	Demand Response Enabling Technologies and Approaches for Industrial Facilities	Epstein, G.; D'Antonio, M.; Schmidt, C.; Seryak, J.; Smith, C.	
ESL-IE-05-05-10	Modern Compressed Air Piping Selection and Design Can Have a Great Impact on Your Compressed Air Energy Dollars	Van Ormer, H.	
ESL-IE-05-05-11	How to Substantially Reduce the Biggest Energy Wasters in Compressed Air Systems	Kemp, H. L.	
ESL-IE-05-05-12	Compressed Air Load Reduction Approaches and Innovations	D'Antonio, M.; Epstein, G.; Moray, S.; Schmidt, C.	
ESL-IE-05-05-13	Metering Air Compressor Systems for Efficiency: A Progress Report	Joseph, B.	
ESL-IE-05-05-14	Applications of AirMaster+ in Real Industrial Facilities	Moray, S.; D'Antonio, M.; Patil, Y.; MacDougall, A.	
ESL-IE-05-05-15	Reducing Your Leak Rate Without Repairing Leaks	Beals, C.	
ESL-IE-05-05-16	Business Development - Predictive Maintenance Products	Sceiczina, P.	
ESL-IE-05-05-17	Temperature Measurements Through Dust or Steam for Energy-Intensive Industries	Stephan, K. D.; Pearce, J. A.; Wang, L.; Ryza, E.	
ESL-IE-05-05-18	Electrical Equipment Replacement: Energy Efficiency versus System Compatibility	Massey, G. W.	
ESL-IE-05-05-19	Study of Energy and Demand Savings on a High Efficiency Hydraulic Pump System with Infinite Turn Down Technology (ITDT)	Sfeir, R. A.; Kanungo, A.; Liou, S.	
ESL-IE-05-05-20	Use of VFDs on Asphalt Plant Induced Draft Fans	Anderson, G. R.; Case, P. L.; Lowery, J.	
ESL-IE-05-05-21	Voith High Efficiency HM Rotor Energy Data, A Repulper Rotor Design Case Study	Aue, J.; Fineran, B.	
ESL-IE-05-05-22	Innovative Energy Efficient Industrial Ventilation	Litomisky, A.	
ESL-IE-05-05-23	Energy Audit Uncovers Major Energy Savings for Paper Mill	Aue, J.; Pierce, S.	
ESL-IE-05-05-24	Daylighting Application and Effectiveness in Industrial Facilities	McCowan, B.; Birleanu, D.	
ESL-IE-05-05-25	Savings Through Power Quality	Mehrdad, M.	
ESL-IE-05-05-26	Opportunities for Energy Efficiency and Demand Response in Corrugated Cardboard Manufacturing Facilities	Chow, S.; Hackett, B.; Ganji, A. R.	
ESL-IE-05-05-27	BASF's Energy Survey Methodology	Theising, T. R.	
ESL-IE-05-05-28	Integrating Process Unit Energy Metrics into Plant Energy Management Systems	Davis, J. L.; Knight, N.	
ESL-IE-05-05-29	Incremental Implementation of Energy Management at Industrial Facilities	Brown, M.; Key, G.	
ESL-IE-05-05-30	An Innovative Approach to Plant Utility Audits Yields Significant Results	Robinson, J. E.; Moore, D. A.	
ESL-IE-05-05-31	Sustaining Performance Improvements in Energy Intensive Industries	Moore, D. A.	
ESL-IE-05-05-32	Cooling Water System Optimization	Aegerter, R.	
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ESL-IE-05-05-35	Building a State Industrial Energy Efficiency Network	Ferland, K.	
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ESL-IE-05-05-37	Natural Gas IC Engine Three-Way Catalyst And Control System Good For The Environment And The Bottom Line	LeLeux, C.; Fischer, G.	
ESL-IE-05-05-38	A Zero Emission Mechanical Seal with Integral Micro Heat Exchanger	Khonsari, M.	
ESL-IE-05-05-39	Energy Assessment Protocol for Glass Furnaces	Plodinec, M. J.; Kauffman, B. M.; Norton, O. P.; Richards, C.; Connors, J.; Wishnick, D.	
ESL-IE-05-05-40	Public-Private Partnerships for Energy Efficiency Programming, Successes of the Massachusetts Energy Efficiency Partnership	Winkler, E.	
ESL-IE-05-05-41	Water Hammer Elimination: A Case Study	Venkatesan, V. V.; Harun, S. D.; Karthikeyan, P. S.	
ESL-IE-05-05-42	Simulation of Combustion and Thermal Flow in an Industrial Boiler	Saripalli, R.; Wang, T.; Day, B.	
ESL-IE-05-05-43	Quantifying Energy Savings by Improving Boiler Operation	Carpenter, K.; Kisscock, K.	
ESL-IE-05-05-44	10 Strategic Steps to Reducing Your Energy Costs	Swanson, G. A.; Haley, M.	
ESL-IE-05-05-45	Strategies for Enterprise-Wide Energy Management	Victor, A.	
ESL-IE-05-05-46	Global Energy Management System	Eidt, B. D.	
ESL-IE-05-05-47	BC Hydro Industrial Sector: Marketing Sector Marketing Plan (Fiscal 2005/Fiscal 2006)	Willis, P.; Wallace, K.	

ESL-IE-05-05-48	Energy Management Pathfinding: Understanding Manufacturers' Ability and Desire to Implement Energy Efficiency	Russell, C.	
ESL-IE-05-05-49	Energy Conservation Fund: Helping Corporations Develop Energy Conservation Strategies and Reduce Utility Costs	Swanson, G. A.; Houston, W.	
ESL-IE-05-05-50	Understanding Leasing Options for Energy Projects	Davenport, B.	
ESL-IE-05-05-51	U.S. Department of Energy (DOE) Industrial Programs and Their Impacts	Weakley, S. A.; Roop, J. M.	
ESL-IE-05-05-52	Eco-Efficiency in Practice: Aligning Business and Environmental Interests in the Upstream Oil and Gas Sector	Lukacs, J.; Munroe, V.	
ESL-TR-05-08-06	Water/Wastewater Engineering Report, (Storm Sewer/Infiltration Sanitary Sewage Separation – M1 Model), Report to the TCEQ, <i>Energy Systems Laboratory, Texas A&amp;M University</i> .	Liu, Z.; Brumbelow, K.; Haberl, J. S.	
ESL-TR-05-08-07	Water/Wastewater Engineering Report, (High Efficiency Pump/Motor Replacement – M2 Model), Report to the TCEQ, <i>Energy Systems Laboratory, Texas A&amp;M University</i> .	Liu, Z.; Brumbelow, K.; Haberl, J. S.	
ESL-PA-05-10-01	Evaluation of Mixing Elements in an L-Shaped Configuration for Application to Single Point Aerosol Sampling in Ducts, <i>International Journal of HVAC&amp;R Research</i> , Vol. 11, No. 4, pp. 657-677.	Han, T.; O'Neal, D.; McFarland, A.; Ortiz, C.	
ESL-IC-05-10-01	Linking Building Commissioning and Operations and Maintenance Towards an Embedded Commissioning Practice	Akin, O.; Gursel, I.	
ESL-IC-05-10-02	Living in the Intelligent Workplace Structuring and Managing Building Operation Information	Lam, K. P.; Srivastava, V.	
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ESL-IC-05-10-04	Use of an Enterprise Energy Monitoring System to Support Building Commissioning and Overall Energy Efficiency by the Hyatt Hotels Corporation	Burke, B.; McBride, J.; Kemble, K.	
ESL-IC-05-10-05	Energy Savings from Commissioning the New Sofitel Hotel in New York City	English, M. C.	
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ESL-IC-05-10-08	Evaluation of Energy Concepts for Office Buildings	Fisch, M.; Norbert, M.; Plessner, S.	
ESL-IC-05-10-09	Leveraging Inefficient and Failing Infrastructure to Accomplish Capital Improvements	Mumper, M.; Taylor, C.	
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ESL-IC-05-10-11	Replacing Inefficient Equipment – An Engineering Analysis to Justify Purchasing A More Efficient Chiller	Chen, H.; Deng, S.; Claridge, D. E.; Turner, W. D.; Bensouda, N.	
ESL-IC-05-10-12	Case Study on Enhancing Equipment Efficiency and Operational Practices of a Signature LEED Building	Tseng, P.	
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ESL-IC-05-10-14	Advantages of Financing Continuous Commissioning <sup>®</sup> as an Energy Conservation Retrofit Measure	Wei, G.; Verdict, M.; Martinez, J. T.	
ESL-IC-05-10-15	Continuous Commissioning <sup>®</sup> of a Single Fan Dual Duct System in an Office Building	Dong, D.; Liu, M.; Wang, J.	
ESL-IC-05-10-16	Building Pressure Control in VAV System with Relief Air Fan	Pang, X.; Liu, M.; Zheng, B.	
ESL-IC-05-10-17	Continuous Commissioning <sup>®</sup> Leading Energy Project Process – An Industry Approach	Liu, M.; Wang, J.; Hansen, K.; Seltzer, A.	
ESL-IC-05-10-18	HVAC Optimization at Te Papa	Bishop, R.	
ESL-IC-05-10-19	Enhanced Building Operation Using 'Operation Diagnostics' – A Case Study	Baumann, O.	
ESL-IC-05-10-20	Continuous Commissioning <sup>®</sup> of an Office/Laboratory Building	Evans, C.; Cordero, J.; Atencio, M.; Claridge, D. E.; Martinez, J. T.; Baltazar-Cervantes, J. C.; Zhu, Y.; Oberle, C.	
ESL-IC-05-10-21	CC <sup>®</sup> of Retrofitted, Renovated, and Rented Systems and Equipment in Utilities Plants	Xu, C.; Chen, Q.; Claridge, D. E.; Turner, W. D.; Deng, S.	
ESL-IC-05-10-22	Total Quality Commissioning for HVAC Systems to Assure High Performance Throughout the Whole Life Cycle	Maisey, G. E.; Milestone, B.	
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ESL-IC-05-10-25	Use of Spatial Archetypes for Optimized Energy Performance	Primikiri, E.; Kokkolaras, M.; Papalambros, P.	
ESL-IC-05-10-26	Technical and Economic Analysis of Thermal Solar Energy and Rainwater Use in a School Building Hydraulic System: A Case Study in a Brazilian City	Proti, L. C.; Godoy, E.; Camargo, J.	
ESL-IC-05-10-27	Feasibility and Fidelity of Data Exchange Through IFC for Building Commissioning	Wang, H.; Akin, B.; Garrett, J. H.; Reed, K. A.	
ESL-IC-05-10-28	The Virtual-Augmented-Reality Environment for Building Commissioning: Case Study	Lee, S. H.; Akin, O.	
ESL-IC-05-10-29	Development of a Web-based, Emissions Reduction Calculator for Street Light and Traffic Light Retrofits	Liu, Z.; Gilman, D.; Haberl, J. S.; Culp, C.	
ESL-IC-05-10-30	Development of a Web-based, Emissions Reduction Calculator for Green Power Purchases from Texas Wind Energy Providers	Liu, Z.; Baltazar, J. C.; Gilman, D.; Haberl, J. S.; Culp, C.	
ESL-IC-05-10-31	Development of a Web-based Emissions Reduction Calculator for Retrofits to Municipal Water Supply and Waste Water Facilities	Baltazar, J. C.; Liu, Z.; Gilman, D.; Haberl, J. S.; Culp, C.	
ESL-IC-05-10-32	Development of a Web-based Emissions Reduction Calculator for Solar Thermal and Solar Photovoltaic Installations	Baltazar, J. C.; Haberl, J. S.; Gilman, D. R.; Culp, C.	
ESL-IC-05-10-33	Development of a Web-based Emissions Reduction Calculator for Code-Compliant Single-Family and Multi-Family Construction	Ahmad, M.; Gilman, D.; Mukhopadhyay, J.; Haberl, J. S.; Culp, C.	
ESL-IC-05-10-34	Development of a Web-based Emissions Reduction Calculator for Code-Compliant Commercial Construction	Ahmad, M.; Gilman, D.; Kim, S.; Choncharoensuk, C.; Malhotra, M.; Haberl, J.; Culp, C.	
ESL-IC-05-10-35	Impact of the Position of the Radiator on Energy Consumption and Thermal Comfort in a Mixed Radiant and Convective Heating System	Gong, X.; Claridge, D. E.	
ESL-IC-05-10-36	Development of Power-head based Fan Airflow Station	Wang, G.; Liu, M.	
ESL-IC-05-10-37	Supply Air Temperature Control Using a VFD Pump	Zheng, B.; Liu, M.	

ESL-IC-05-10-38	Continuous Commissioning® of an Office Building	Zheng, B.; Liu, M.; Pang, X.; Wang, J.; Hansen, K.	
ESL-IC-05-10-39	LEED-EB: How to Achieve Certification and Reduce Operating Costs	Iczkowski, E.	
ESL-IC-05-10-40	EnviroDB: Applied Database Systems Design for the National Environment Assessment Toolkit (NEAT)	Kim, S. H.; Srivastava, V.; Aziz, A.	
ESL-IC-05-10-41	Decision-Making Aid Tool for the Evaluation and Improvement of the Energy Performance of Stock of Buildings	Joutey, H. A.; Vaezi-Nejad, H.; Lahrech, R.	
ESL-IC-05-10-42	Practical Alternative Financing Strategies for Building Commissioning	Jhaveri, A.	
ESL-IC-05-10-43	Load Allocation Through Detailed Simulation Calibrated with Monitored Data	Abushakra, B.	
ESL-IC-05-10-44	Formal Models for Embedded Commissioning	Turkaslan-Bulbul, M. T.; Akin, O.	
ESL-IC-05-10-45	A Method for Simulating Heat Recovery Systems Using AirModel in Implementations of the ASHRAE Simplified Energy Analysis Procedure	Liu, C.; Zeig, M.; Claridge, D. E.; Wei, G.; Turner, W. D.; Bruner, H. L.	
ESL-IC-05-10-46	Decoupled Modeling of Chilled Water Cooling Coils Using a Finite Element Method	Wang, G.; Liu, M.; Claridge D. E.	
ESL-IC-05-10-47	Effective Implementation of "IPMVP Option C – Whole Building Measurement" Measurement and Verification Plans	Porter, T.; Weaver, K.; Vaughn, K.	
ESL-IC-05-10-48	Guaranteed Long-Term Savings Persistence An Owner's Perspective	Bou-Saada, T.; Culp, C.	
ESL-IC-05-10-49	Measurement and Verification for Commissioning Projects: Challenges and Opportunities	Heinemeier, K.	
ESL-IC-05-10-50	ASHRAE's Guideline 14-2002 for Measurement of Energy and Demand Savings: How to Determine What Was Really Saved by the Retrofit	Haberl, J. S.; Culp, C.; Claridge, D. E.	
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ESL-IC-05-10-53	Advanced Control Technologies and Strategies Linking Demand Response and Energy Efficiency	Killicote, S.; Piette, M. A.	
ESL-IC-05-10-50	ASHRAE's Guideline 14-2002 for Measurement of Energy and Demand Savings: How to Determine What Was Really Saved by the Retrofit, <i>Proceedings of the 5<sup>th</sup> International Conference on Enhanced Building Operation</i> , Pittsburgh, Pennsylvania, October 11-13, 2005.	Haberl, J. S.; Claridge, D. E.; Culp, C.	
ESL-TR-05-12-01	Savings Report for the Fort Hood Army Base, <i>Energy Systems Laboratory, Texas A&amp;M University</i> .	Liu, Z.; Cho, S.; Baltazar-Cervantes, J. C.; Song, S.; Haberl, J. S.	
ESL-TR-05-12-05	NOx, SOx, and CO <sub>2</sub> Emissions Reduction From Continuous Commissioning® (CC®) Measures at the Rent-A-Car Facility in the Dallas-Fort Worth International Airport, <i>Energy Systems Laboratory, Texas A&amp;M University</i> .	Baltazar-Cervantes, J. C.; Haberl, J. S.; Yazdani, B.	
ESL-PA-06-08-04	Quantification of NOx Emissions Reductions for SIP Credits from Energy Efficiency and Renewable Energy Projects in Texas, <i>2006 ACEEE Summer Study on Energy Efficiency in Buildings</i> , American Council for an Energy Efficient Economy, Washington, D.C.	Verdict, M.; Haberl, J.; Culp, C.; Yazdani, B.; Fitzpatrick, T.; Gilman, D.; Ahmed, M.; Liu, B.; Baltazar, J.C.; Muns, S.; and Turner, D.	
ESL-IE-06-05-01	Baytown Energy Project	Porter, J.	
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ESL-TR-06-06-06	TERP Stakeholder's Meeting		
ESL-TR-06-06-07	Energy Efficiency / Renewable Energy Impact in the Texas Emissions Reduction Plan (TERP), Vol. I – Summary Report, Annual Report to the Texas Commission on Environmental Quality, <i>Energy Systems Laboratory, Texas A&amp;M University</i> .	Haberl, J. S.; Culp, C.; Yazdani, B.; Gilman, D.; Fitzpatrick, T.; Muns, S.; Verdict, M.; Ahmed, M.; Liu, Z.; Baltazar-Cervantes, J. C.; Degelman, L.; Turner, W. D.	
ESL-TR-06-06-08	Energy Efficiency / Renewable Energy Impact in the Texas Emissions Reduction Plan (TERP), Vol. II – Summary Report, Annual Report to the Texas Commission on Environmental Quality, <i>Energy Systems Laboratory, Texas A&amp;M University</i> .	Haberl, J. S.; Culp, C.; Yazdani, B.; Gilman, D.; Fitzpatrick, T.; Muns, S.; Verdict, M.; Ahmed, M.; Liu, Z.; Baltazar-Cervantes, J. C.; Degelman, L.; Turner, W. D.	
ESL-TR-06-06-09	Energy Efficiency / Renewable Energy Impact in the Texas Emissions Reduction Plan (TERP), Vol. III – Appendix, Annual Report to the Texas Commission on Environmental Quality, <i>Energy Systems Laboratory, Texas A&amp;M University</i> .	Haberl, J. S.; Culp, C.; Yazdani, B.; Gilman, D.; Fitzpatrick, T.; Muns, S.; Verdict, M.; Ahmed, M.; Liu, Z.; Baltazar-Cervantes, J. C.; Degelman, L.; Turner, W. D.	
ESL-PA-06-07-01	Mixing in a Square and a Rectangular Duct Regarding Selection of Location of Extractive Sampling of Gaseous Contaminants, <i>Health Physics</i> , Vol. 91, No. 1, pp. 47-57, July 2006.	Seo, Y.; McFarland, A. R.; Ortiz, C. A.; O'Neal, D. L.	
ESL-HH-06-07-46	Utility Public Benefit Funds Renewed Interest at the State and Federal Levels, <i>Proceedings of the 15th Annual Symposium on Improving Building Energy Efficiency in Hot and Humid Climates</i> , Orlando, Florida, July 24-26, 2006.	Verdict, M. E.	
ESL-TR-06-08-01	Statewide Air Emissions Calculations from Wind and Other Renewables, Summary Report, A Report to the Texas Commission on Environmental Quality for the Period September 2005 – August 2006, <i>Energy Systems Laboratory, Texas A&amp;M University</i> .	Haberl, J. S.; Culp, C.; Yazdani, B.; Subbarao, K.; Verdict, M.; Liu, Z.; Baltazar-Cervantes, J. C.; Gilman, D.; Fitzpatrick, T.; Turner, W. D.	
ESL-TR-06-10-01	Sustainability Assessment and Roadmap for a Green Campus Initiative, Texas A&M International University, Laredo, Texas, <i>Energy Systems Laboratory, Texas A&amp;M University</i> .	Claridge, D. E.; Verdict, M.; Clingenpeel, K.	
ESL-IC-06-11-01	Mechanism of Thermal Comfort and Its Application in Indoor Environment	Lian, Z.; Liu, W.; Ye, X.; Yao, Y.	
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ESL-IC-06-11-09	Investigation and Analysis of the Indoor Air Environment of a Large-scale Art Exhibition Hall in Beijing	Hao, X.; Cao, G.; Wang, Y.; Wang, J.	
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ESL-TR-06-12-02	Energy Efficiency/Renewable Energy Impact in the Texas Emissions Reduction Plan (TERP), Summary Report, <i>Energy Systems Laboratory, Texas A&amp;M University</i>	Baltazar-Cervantes, J. C.; Champeau, K.; Ramirez, E. J.; Haberl, J. S.	
ESL-PA-07-01-01	An Experimental Evaluation of the Time Response of a Duct-Mounted Relative Humidity Sensors, <i>ASHRAE Transactions</i> , January 2007, Vol 113 (1).	Joshi, S.N.; Pate, M. B.; Nelson, R. M.; House, J. H.; Klaassen, C.J.	
ESL-TR-07-02-01	Comparative Testing of the Combined Radiant Barrier and Duct Models in the ESL's Code-Compliant Simulation Model, <i>Energy Systems Laboratory, Texas A&amp;M University</i>	Haberl, J. S.; Kim, S.	
ESL-TH-07-05-02	The Applicability of Continuous Commissioning to the Coast Guard: A Pilot Project at USCG SFO Galveston, <i>Masters Thesis, Department of Mechanical Engineering, Texas A&amp;M University</i>	Kowalczyk, D.	N/A
ESL-TR-07-05-01	Comparative Testing of the ESL's Code-Compliant Simulation Model and the FSEC's EnergyGauge Software, <i>Energy Systems Laboratory, Texas A&amp;M University</i>	Kim, S.; Liu, Z.; Haberl, J. S.	
ESL-IE-07-05-04	DuPont Energy Breakout Initiative	Bailey, W. F.	
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ESL-IE-07-05-11	How to Reduce Energy Supply Costs	Swanson, G.	
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ESL-IE-07-05-49	Steam and Condensate System Optimization in Converse College, Spartanburg, SC	Cruz, A.; Iordanova, N.; Stevenson, S.	
ESL-TR-07-08-01	Statewide Air Emissions Calculations from Wind and Other Renewables, Summary Report: A Report to the Texas Commission on Environmental Quality for the period September 2006 – August 2007, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Haberl, J. S.; Liu, Z.; Baltazar-Carvantes, J. C.; Subbarao, K.; Gilman, D.; Culp, C.; Yazdani, B.; Turner, W. D.	
ESL-TR-07-09-01	Recommendations for 15% Above-Code Energy Efficiency Measures for Residential Buildings, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Malhotra, M.; Mukhopadhyay, J.; Liu, Z.; Culp, C.; Haberl, J. S.; Yazdani, B.; Montgomery, C.	
ESL-TR-07-09-02	Recommendations for 15% Above-Code Energy Efficiency Measures for Commercial Office Buildings, Revised November 2008, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Cho, S.; Mukhopadhyay, J.; Liu, Z.; Culp, C.; Haberl, J.; Yazdani, B.; Montgomery, C.	
ESL-IC-07-11-01	A Smart Logic for Conference Room Terminal Box of Single Duct VAV System	Yu, Y.; Xu, K.; Cho, Y.; Liu, M.	
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ESL-IC-07-11-05	Supply Fan Control for Constant Air Volume Air Handling Units	Cho, Y.; Wang, G.; Liu, M.	
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ESL-IC-07-11-07	Impacts of Static Pressure Reset on VAV System Air Leakage, Fan Power and Thermal Energy - Part 1: Theoretical Model and Simulation	Liu, M.; Feng, J.; Wang, Z.; Wu, L.; Zheng, K.; Pang, X.	
ESL-IC-07-11-08	Impacts of Static Pressure Reset on VAV System Air Leakage, Fan Power and Thermal Energy - Part 2: Case Demonstration for a Typical Climate System	Liu, M.; Zheng, K.; Wu, L.; Wang, Z.; Johnson, C.	
ESL-IC-07-11-09	Application of Wireless Sensor Network (WSN) Technologies in Optimal Static Pressure Reset in Variable Air Volume (VAV) System	Zheng, K.; Li, H.; Yang, H.	
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ESL-IC-07-11-11	Methodology for the Determination of Potential Energy Savings in Commercial Buildings	Baltazar, J. C.; Claridge, D. E.	
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ESL-IC-07-11-16	Application of Multizone HVAC Control Using Wireless Sensor Networks and Actuating Vent Registers	Watts, W.; Koplow, M.; Redfern, A.; Wright, P.	
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ESL-IC-07-11-24	Building HVAC Control System Interaction Issues: Two Case Studies	Toole, C.; Xu, C.; Chen, Q.; Deng, S.	
ESL-IC-07-11-25	Evaluating Equipment Performance Using SCADA/PMS Data for Thermal Utility Plants - Case Studies	Chen, Q.; Xu, C.; Deng, X.	

ESL-IC-07-11-26	Achieving High Chilled Water Delta T Without Blending Station	Wang, Z.; Wang, G.; Xu, K.; Yu, Y.; Liu, M.	
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ESL-IC-07-11-31	Study on Control Performance of HVAC System or Interior Zone and Perimeter Zone in Office Building- Estimation of Optimal PI Tuning in Cooling Operation	Maehara, K.; Sagara, N.	
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ESL-IC-07-11-44	Procedures for the Integration of Complete Year Texas Weather Data Files for eCalc -Emissions Reduction Calculator	Baltazar, J. C.; Haberl, J. S.; Culp, C.; Yazdani, B.; Gilman, D.	
ESL-IC-07-11-45	Will Monetized Carbon Emission Reductions Buy Enhanced Building Operations?	Millhone, J.	
ESL-IC-07-11-46	IPCC WGIII Assessment Report: Chapter 6. Mitigation Options in Buildings	Levine, M. D.; Urge-Vorsatz, D.	
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ESL-IC-07-11-50	Keynote Speaker Presentation	Rosenfeld, A. H.	
ESL-TR-07-12-01	Energy Efficiency/Renewable Energy Impact in the Texas Emissions Reduction Plan (TERP), Volume I – Summary Report, Annual Report to the Texas Commission on Environmental Quality, January 2006 – June 2007, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Haberl, J. S.; Culp, C.; Yazdani, B.; Gilman, D.; Fitzpatrick, T.; Muns, S.; Verdick, M.; Ahmed, M.; Liu, Z.; Baltazar-Cervantes, J. C.; Montgomery, C.; McKelvey, K.; Mukhopadhyay, J.; Degelman, L.	
ESL-TR-07-12-02	Energy Efficiency/Renewable Energy Impact in the Texas Emissions Reduction Plan (TERP), Volume II – Technical Report, Annual Report to the Texas Commission on Environmental Quality, January 2006 – June 2007, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Haberl, J. S.; Culp, C.; Yazdani, B.; Gilman, D.; Fitzpatrick, T.; Muns, S.; Verdick, M.; Ahmed, M.; Liu, Z.; Baltazar-Cervantes, J. C.; Montgomery, C.; McKelvey, K.; Mukhopadhyay, J.; Degelman, L.	
ESL-TR-07-12-03	Energy Efficiency/Renewable Energy Impact in the Texas Emissions Reduction Plan (TERP), Volume III –Appendix, Annual Report to the Texas Commission on Environmental Quality, January 2006 – June 2007, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Haberl, J. S.; Culp, C.; Yazdani, B.; Gilman, D.; Fitzpatrick, T.; Muns, S.; Verdick, M.; Ahmed, M.; Liu, Z.; Baltazar-Cervantes, J. C.; Montgomery, C.; McKelvey, K.; Mukhopadhyay, J.; Degelman, L.	
ESL-PA-08-01-02	Performance of VAV Fan Powered Terminal Units: Experimental Results and Models for Parallel Units, <i>ASHRAE Transactions</i> , Vol. 114, Pt. 1, January 2008.	J. Furr, D. O'Neal, M. Davis, J. Bryant, and A. Cramlet	
ESL-PA-08-01-03	Performance of VAV Fan Powered Terminal Units: Experimental Results and Models for Series Units, <i>ASHRAE Transactions</i> , Vol. 114, Pt. 1, January 2008.	J. Furr, D. O'Neal, M. Davis, J. Bryant, and A. Cramlet	
ESL-TR-08-06-01	The Application and Verification of ASHRAE 152-2004 (Method of Test for Determining the Design and Seasonal Efficiencies of Residential Thermal Distribution Systems) to DOE-2.1e Simulation Program, <i>Energy Systems Laboratory, Texas A&amp;M University</i>	Haberl, J. S.; Kim, S.	

ESL-TR-08-08-01	Energy Efficiency/Renewable Energy Impact in the Texas Emissions Reduction Plan (TERP), Preliminary Report: Integrated NOx Emissions Savings from EE/RE Programs Statewide, Annual Report to the Texas Commission on Environmental Quality, January 2007 – December 2007, <i>Energy Systems Laboratory, Texas A&amp;M University</i>	Haberl, J. S.; Culp, C.; Yazdani, B.; Gilman, D.; Liu, Z.; Baltazar-Cervantes, J. C.; Montgomery, C.; McKelvey, K.; Mukhopadhyay, J.; Degelman, L.	
ESL-TR-08-08-02	Statewide Air Emissions Calculations from Wind and Other Renewables, Summary Report: A Report to the Texas Commission on Environmental Quality for the Period September 2007 – August 2008, Summary Report, <i>Energy Systems Laboratory, Texas A&amp;M University</i>	Haberl, J. S.; Liu, Z.; Baltazar-Cervantes, J. C.; Subbarao, K.; Gilman, D.; Culp, C.; Yazdani, B.; Turner, W. D.; Chandrasekaran, V.	
ESL-TR-08-08-03	Lessons Learned from Continuous Commissioning of the Robert E. Johnson State Office Building, Austin, TX, <i>Energy Systems Laboratory, Texas A&amp;M University</i>	Claridge, D. E.; Bynum, J.	
ESL-TR-08-08-04	Lessons Learned from Continuous Commissioning* of a LEED® Gold Building in Texas, <i>Energy Systems Laboratory, Texas A&amp;M University</i> .	Claridge, D. E.; Bynum, J.	
ESL-TR-08-11-02	Recommendations for 15% Above-Code Energy Efficiency Measures on Implementing Houston Amendments to Single-Family Buildings in Houston Texas, <i>Energy Systems Laboratory, Texas A&amp;M University</i> .	Liu, Z.; Mukhopadhyay, J.; Malhotra, M.; Kota, S.; Haberl, J.; Culp, C.; Yazdani, B.	
ESL-PA-09-11-01	Selecting PID Control Gains for Nonlinear HVAC Systems, <i>HVAC&amp;R Research</i> , vol. 15, no. 6, pp. 991-1020, Nov. 2009.	Lim, DW, Rasmussen, B.P., Swaroop, D.	
ESL-IE-09-05-13	A Best Practice Approach: How to Plan, Execute and Thrive in the "Changing" World of Climate Change, Energy Efficiency, and Energy Management	Blue, K. N.; Spates, C. N.	
ESL-TR-10-05-01	Description of the JBC Building and Energy and IEQ Instrumentation for a Field Test of the ASHRAE PMP, <i>Energy Systems Laboratory, Texas A&amp;M University</i> .	Kim, H.; Haberl, J.	
ESL-IE-10-05-01	A New Approach to Optimizing Fired Heaters	Garg, A.	
ESL-IE-10-05-06	Saving Money with Air and Gas Leak Surveys	Woodruff, D.	
ESL-IE-10-05-08	Emissions and Energy: An Integral Approach Using an Online Energy Management and Optimization Model	Ruiz, D.; Ruiz, C.; Santollani, O.; Reitmeier, T.	
ESL-IE-10-05-10	Industrial Energy Efficiency Programs: Development and Trends	Chittum, A.; Kaufman, N.; Elliot, N.	
ESL-IE-10-05-11	The Results of More Than 250 Industrial Assessments for Manufacturing by the Louisiana Industrial Assessment Center for the Past Ten Years	Kozman, T.; Lee, J.	
ESL-IE-10-05-12	The Role of Benchmarking in Promoting Strong Energy Management Systems	Tunnessen, W.	
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ESL-IE-10-05-16	Generating Electricity with your Steam System: Keys to Long Term Savings	Bullock, B.; Downing, A.	
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ESL-IE-10-05-18	The Role of Advanced Process Control in Your Energy Management Solution	Johnson, K.; Van Wyk, L.	
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ESL-IE-10-05-22	U.S. Department of Energy Industrial Programs and Their Impacts	Weakley, S. A.; Roop, J. M.	
ESL-IE-10-05-23	Achieving Superior Energy Performance	Ferland, K.	
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ESL-IE-10-05-26	Use of Statistical Approach to Design an Optimal Duct System for On-demand Industrial Exhaust Ventilation	Litomisky, A.	
ESL-IE-10-05-27	The Role of Incentives in Promoting CHP Development	Kaufman, N.; Elliot, R. N.	
ESL-IE-10-05-28	Federal Support fo Energy Efficiency in U.S. Industry: Collaboratively Addressing Energy Management in Small- and Medium-Sized Enterprises (SMEs)	Bostrom, P.; Lung, R. B.; Harris, J.	
ESL-IE-10-05-29	Designing for Sustainability: Houston DOW Center LEED Gold	McCall, H.; McVey, K.; Rash, A.	
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ESL-IE-10-05-37	Steam Cracker Furnace Energy Improvements	Gandler, T.	
ESL-TR-10-11-02	Comparison of Results using REScheck and IC3 for IECC 2009 Code Compliance	Mukhopadhyay, J.; Baltazar, J. C.; Haberl, J. S.; Lewis, C.; Yazdani, B.	
ESL-TR-11-02-01	Statewide Electrical Energy Cost Savings and Peak Demand Reduction from the IECC Code-Compliant, Single-Family Residences in Texas (2002-2009) Revised June 2012, <i>Energy Systems Laboratory, Texas A&amp;M University</i> .	Kim, H.; Baltazar, J.C.; Haberl, J.	
ESL-TR-11-06-01	Estimation of NOx Reductions and Cost Savings in Texas by CFL Replacement from Incandescent Lamps from 2011 through 2031, <i>Energy Systems Laboratory, Texas A&amp;M University</i> .	Kim, KH.; Haberl, J.; Baltazar, J.C.	
ESL-TR-11-07-01	Cost-Effective Energy Efficiency Measure for Above 2003 and 2009 IECC Code-Compliant Residential and Commercial Buildings in the City of Arlington, <i>Energy Systems Laboratory, Texas A&amp;M University</i> .	Kim, H.; Do, S.; Baltazer, J.C.; Haberl, J.; Lewis, C.	
ESL-TR-11-09-01	Dallas/Fort Worth International Airport (DFW) Central Utility Plant Hydraulic Systems Analysis), <i>Energy Systems Laboratory, Texas A&amp;M University</i> .	Claridge, D.; Martinez, J.; Urgursal, A.; Li, N.	
ESL-TR-11-10-05	DFW Energy Plaza (CUP) System Wide Hydraulic, Capacity, and Energy Study – Final Report, <i>Energy Systems Laboratory, Texas A&amp;M University</i> .	Claridge, D.; Martinez, J.; Yazdani, B.; Ugursal, A.; Li, N.	
ESL-IC-11-10-16	Calibration of a Building Energy Model to Energy Monitoring System Data Using an Analytical Optimisation Approach	Coakley, D.	
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ESL-IC-11-10-44	Comprehensive Energy Efficiency in City of Austin Facilities	Lilley, D.	
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ESL-IC-11-10-54	NE Track- Regional Utility Programs for Operational Improvement	Miller, M.	
ESL-IC-11-10-59	Guidelines for Existing Buildings Cx	Miller, M.	
ESL-IC-11-10-62	The Role of the Operating Engineers' Union	Styles, H.	
ESL-IC-11-10-64	The Universities' Role and Response	Daly, A.	
ESL-TR-11-12-05-a	Comparison of Building Energy Code Stringency: 2009 IECC Versus 2012 IECC for Single-Family Residences in Texas	Kim, H.; Baltazar, J-C.; Haberl, J.S.; Yazdani, B.	
ESL-TR-12-03-02	Review of Methods for Measuring and Verifying Savings from Energy Conservation Retrofits to Existing Buildings Second Edition, <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Haberl, J.; Culp, C.	
ESL-IE-12-05-10	What To Do With Cold Traps and Why	Risko, J. R.; Walter, J. P.	
ESL-TR-12-07-02	2012 TERP Stakeholder's Meeting		
ESL-TR-12-07-03	2012 IECC Significant Changes		
ESL-TR-12-12-01	Validation of the International Code Compliant Calculator (IC3) v3.12.4 Using the Resnet Verification Procedures (No. 07-003), <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Kim, H.; Baltazar, J.C.; Haberl, J.	
ESL-IE-13-05-01	Foundations for Efficiency: Industrial Energy Efficiency Program Structures in the U.S. and Canada	Trombley, D.; Taylor, B.	
ESL-IE-13-05-01a	Foundations of Efficiency: an Overview of Industrial Program Models	Trombley, D.	
ESL-IE-13-05-02	Industrial Energy Efficiency Technical Review Guidelines and Best Practices	Dalziel, N.	
ESL-IE-13-05-03	Lean, Energy, and Savings: Energy Impacts of Lean Manufacturing	Milward, R.; Gilles, C.; Brown, K.	
ESL-IE-13-05-03a	Lean, Energy, and Savings: Energy Impacts of Lean Manufacturing	Milward, R.; Gilles, C.; Brown, K.	
ESL-IE-13-05-04	Industrial Energy: Counseling the Marriage Between Energy Users and Efficiency Programs	Russell, C.	
ESL-IE-13-05-04a	Industrial Energy: Counseling the Marriage Between Energy Users and Efficiency Programs	Russell, C.	
ESL-IE-13-05-05	Low Temperature Waste Energy Recovery at Chemical Plants and Refineries	Ferland, K.; papar, R.; Quinn, J.; Kumar, S.	
ESL-IE-13-05-05a	Low Temperature Waste Energy Recovery at Chemical Plants and Refineries	Ferland, K.; papar, R.; Quinn, J.; Kumar, S.	
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ESL-IE-13-05-09a	Driving Water and Wastewater Utilities to More Sustainable Energy Management	Ferrel, L.; Liner, B.	
ESL-IE-13-05-10	Plant Energy Benchmarking: A Ten Year Retrospective of the ENERGY STAR Energy Performance Indicators (ES-EPI)	Boyd, G.; Tunnessen, W.	
ESL-IE-13-05-10a	Plant Energy Benchmarking: A Ten Year Retrospective of the ENERGY STAR Energy Performance Indicators (ES-EPI)	Boyd, G.; Tunnessen, W.	
ESL-IE-13-05-11	The Role of Visualization Systems in Managing the Energy of Production Systems	Dussault, R.	
ESL-IE-13-05-11a	The Role of Visualization Systems in Managing the Energy of Production Systems	Dussault, R.	
ESL-IE-13-05-12	Energy Results of ISO 50001 Deployment by Program Administrators	Brown, K.; Gilles, C.; Milward, R.	
ESL-IE-13-05-12a	Energy Results of ISO 50001 Deployment by Program Administrators	Brown, K.; Gilles, C.; Milward, R.	
ESL-IE-13-05-13	Industrial Geospatial Analysis Tool for Energy Evaluation	Alkadi, N.; Starke, M.; Ma, O.; Nimbalkar, S.; Cox, D.; Dowling, K.; Johnson, B.; Khan, S.	
ESL-IE-13-05-13a	Industrial Geospatial Analysis Tool for Energy Evaluation	Alkadi, N.; Starke, M.; Ma, O.; Nimbalkar, S.; Cox, D.; Dowling, K.; Johnson, B.; Khan, S.	
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ESL-IE-13-05-15a	Empowering Operators to Drive Sustainable Savings	Reitmeier, T.	
ESL-IE-13-05-16	Successful Implementation of a Sustainable Trap Management Program.	Walter, J.	
ESL-IE-13-05-16a	Successful Implementation of a Sustainable Trap Management Program.	Walter, J.	
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ESL-IE-13-05-17a	ISO 50001	Chowdhury, N.	
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ESL-IE-13-05-21	Legrand BBBP Implementation Model Designed for Results	Horton, P.	
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ESL-IE-13-05-35	Steam System Data Management	Roberts, D.	
ESL-TR-13-06-02	NOx Emissions Reduction From CPS Energy's "Save For Tomorrow Energy Plan" Within the Alamo Area Council of Governments Report to the Texas Commission of Environmental Quality, Energy Systems Laboratory, Texas A&M University.	Haberl, J.; Yazdani, B.; Baltazar, J-C.; Do, S.L.	
ESL-TR-13-07-03	Regional Energy Baseline (1960-2011), <i>Energy Systems Laboratory, Texas A&amp;M University.</i>	Kim, H.; Baltazar, J.C.; Haberl, J.	
ESL-PA-13-07-01	Dynamic Modeling for Vapor Compression Systems: Literature Review and Simulation Tutorial, <i>ASHRAE Conference Proceedings</i>	Rasmussen, B.	
ESL-PA-13-06-01	Reducing Energy Consumption in Grocery Stores: Calibration of a Grocery Store Model, <i>ASHRAE Transactions-Research</i> , Vol. 119, Pt. 2	Mukhopadhyay, J.; Haberl, J.	

ESL-IE-14-05-01	Finding More Free Steam From Waste Heat	Stremlow, M. D.	
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ESL-IE-14-05-08a	The Role of Professional Risk in Implementing Industrial Energy Improvements	Russell, C.	
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ESL-IE-14-05-09a	Benefits and Barriers of Smart Manufacturing	Trombley, D.; Rogers, E.	
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ESL-IE-14-05-13a	ISO 50001- Case Studies and Lessons Learned so Far	Tutterow, V.	
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ESL-IE-14-05-15	Superior Energy Performance at Schneider Electric	Willhite, E.	
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ESL-IE-14-05-22a	Energy Management Working Group: Accelerating Energy Management	Scheihing, P.	
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ESL-IE-14-05-23a	Perform, Achieve and Trade (PAT): An Innovative Mechanism for Enhancing Energy Efficiency in India's Industrial Sector	Garnik, S. P.; Martin, M.	
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ESL-IE-14-05-34a	Compressed Air System Analysis and Retrofit for Energy Savings	Harding, C.; Nutter, D.	
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ESL-IE-14-05-35a	Using Outside Air for Flooded Oil Screw Compressors at an Industrial Facility	Hunt, D. G.; Terry, S.	
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ESL-IE-14-05-36a	A New Approach for Determining Optimal Air Compressor Location in A Manufacturing Facility to Increase Energy Efficiency	Zahlan, J.; Avci, M.; Asfour, S.	
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ESL-IE-14-05-42a	U.S. Manufacturing Energy Use and Loss: The Big Picture	Brueske, S.; Sabouni, R.	
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ESL-IE-14-05-43a	Manufacturing Energy Bandwidth Studies: Chemical, Petroleum Refining, Pulp and Paper, and Iron and Steel Sectors	Brueske, S.; Cresko, J.; Carpenter, A.	
ESL-IE-14-05-44	Cognitive Energy Value Chain: Leveraging Big Data to Optimize Energy	Birg, G.; Reitmeier, T.	
ESL-IE-14-05-45	Superior Energy Performance Case Study at 3m Canada, Brockville, Ontario Facility	Hejnar, A.	
ESL-PA-14-05-02	Automation of a Lighting Analysis and Retrofit Report in an Energy Assessment, <i>Proceedings of the 2014 Industrial Energy Technology Conference</i>	Terrill, T. J.; Bay, C. J.; Rasmussen, B. P.	
ESL-PA-14-05-03	Realizing Real Time Energy Analysis for Industrial Energy Audits, <i>Proceedings of the 2014 Industrial Energy Technology Conference</i>	Morelli, F.; Rasmussen, B.	
ESL-TR-14-12-01	Validation of the International Code Complaint Calculator (IC3) v3.14.0 Using the Resnet Verification Procedures (NO. 03-014)	Mukhopadhyay, J.; Baltazar, J.C.; Haberl, J. S	
ESL-PA-15-10-05	Automated Modeling Method for the Application of Iterative Cooperative Neighbor Communication for Building HVAC Systems, <i>Proceedings of the 2015 Dynamic Systems and Control Conference</i>	Chintala, R.; Bay, C.; Jalal, R.; Rasmussen, B.	
ESL-PA-15-12-07	Development of an HVAC Fault Detection and Diagnostic Tool for Industrial Energy Audits, <i>ASHRAE Transactions</i>	Parikh, P.; Pasmussen, B. P.	
ESL-IE-15-06-01	LyndellBasell Completes a Major Plant Workover to Dramatically Improve Energy Intensity in LaPorte, TX	Deole, N. R.; Stam, H.	
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ESL-IE-15-06-12a	Facility Scale Energy Storage for Peak Deman Management and Demand Response	Remillard, J.	
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ESL-IE-15-06-15a	Comprehensive Energy Efficiency in the Process Industries	Rossiter, A.	
ESL-IE-15-06-16	Caught Between a Rock and a Hard Place - How Lehigh Hanson Acheives Energy Success at Aggregate Plants	Austin, S. B.	
ESL-IE-15-06-16a	Caught Between a Rock and a Hard Place - How Lehigh Hanson Acheives Energy Success at Aggregate Plants	Austin, S. B.	
ESL-IE-15-06-17	Steinway & Sons Upgrades Its Turn-of-the-Century Brick Kilns to a Quick-Dry Partial Vacuum System	Bossis, R.	
ESL-IE-15-06-17a	Steinway & Sons Upgrades Its Turn-of-the-Century Brick Kilns to a Quick-Dry Partial Vacuum System	Bossis, R.	
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ESL-IE-15-06-19	Lean Analysis of Industrial Energy Assessment	Viera, R. J.; Lee, J.; McInerny, S.	
ESL-IE-15-06-20	Modern Visualization of Industrial Energy Use and Loss	Brueske, S.	
ESL-IE-15-06-20a	Modern Visualization of Industrial Energy Use and Loss	Brueske, S.	
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ESL-IE-15-06-23a	Identifying Water Savings in Industrial Operations	Theising, T.	
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ESL-IE-15-06-25a	Water Savings in Food Processing Plants - Potentials and Case Studies	Trueblood, A.; Ritchie, M.; Chow, S.; Ganji, A.	
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ESL-IE-15-06-26a	The Value Proposition of Industrial Energy Efficiency Programs	Rogers, E.	
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ESL-IE-15-06-27a	Costs and Benefits of Capital Finance Through Energy Service Outsourcing	Russell, C.	
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ESL-IE-15-06-28a	Overcoming Conservative Payback Rules for Energy Efficiency Projects	de Fontaine, A.	
ESL-IE-15-06-29	Employee Based Energy Management Plan	Osho, O.; Lee, J.; McInerny, S. A.;	
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ESL-IE-15-06-30a	The Impact of Quality Control Scrap and Rework Reduction on Energy Use	Otis, P. T.; Triantis, K. P.	
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ESL-IE-15-06-34	Progressive Vacuum Degradation Within Pipestills and Vacuum Towers	Kimbrough, B.	
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ESL-IE-15-06-36	Global Collaboration on Energy Management	Brueske, S.	
ESL-IE-15-06-37	Increase Energy Efficiency by Analyzing Cooling Water Systems	Phelps, P.	
ESL-IE-15-06-38	Development of an Automated Fault Detection System Tool for Unitary Air Conditioners at Undustrial Energy Audits	Parikh, P.; Pasmussen, B. P.	
ESL-IE-15-06-38a	Development of an Automated Fault Detection System Tool for Unitary Air Conditioners at Undustrial Energy Audits	Parikh, P.; Pasmussen, B. P.	
ESL-IE-15-06-39	What Problems can be Encountered when Efficiency Upgrades are Made to Fans and what Should the Approach be to Address Those Problems	Martin, V.	
ESL-IE-15-06-41	MeadWestvaco Specialty Chemicals 'Sons of Energy' Team's Projects Garner Plant Energy Intensity Reductions	Crowell, S.; Pocta, J.	
ESL-IE-15-06-42	BASF Corporate Energy Management Process	Geiger, T.	
ESL-IE-15-06-43	BASF Geismar Site Steam System Optimization	Gathright, J.	
ESL-TR-15-07-01	TCEQ Report, Statewide Air Emissions Calculations from Wind and Other Renewables	Haberl, J.; Baltazar, J. C.; Yazdani, B.; Claridge, D.; Oh, S.; Mao, C.	
ESL-KT-15-12-01	Evaluation, Measurement & Verification in Texas	Osterloh, P.	
ESL-KT-15-12-02	Texas-New Mexico Power (TNMP)	Mitchell, A.	
ESL-KT-15-12-03	CenterPoint Energy Houston Electric	Dzierski, D.	
ESL-KT-15-12-04	VRF in Schools - A Smarter Way of Doing It	Reilly, B.	
ESL-KT-15-12-05	Resilient Micro-Grids 101	Leavell, B.	
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ESL-KT-15-12-10	Keeping PACE at CATEE	Heydinger, C.	
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ESL-KT-15-12-14	Texas Solar Schools	Cotney, E.	
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ESL-KT-15-12-18	Welcome	Abbey, J.	
ESL-KT-15-12-19	Collaborative Efforts to Support Adoption of New Building Energy Efficiency Codes	Yebara, F.	
ESL-KT-15-12-20	2015 Energy Code Collaboration	Herbert, C.	

ESL-KT-15-12-21	2015 International Energy Conservation Code	Ellis, S.	
ESL-KT-15-12-22	Collaboartive Efforts to Support Code Adoption	Taylor, K.	
ESL-KT-15-12-23	Texas Emissions Reduction Plan (TERP)	Dayton, S.	
ESL-KT-15-12-24	Mobility Transformation	Rucks, G.	
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ESL-KT-15-12-28	LoanSTAR Revolving Loan Program	Trevino, E.	
ESL-KT-15-12-29	Residential Energy & Water Financing	Bishopp, C.	
ESL-KT-15-12-30	Welcome	Claridge, D.	
ESL-KT-15-12-31	Energy Efficiency and Renewable Energy Impacts on Emission Reductions	Haberl, J.; Yazdani, B.	
ESL-KT-15-12-32	Overview of the Clean Power Plan (With a Focus on Energy Efficiency)	Lewin, D.	
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ESL-KT-15-12-39	Energy-Water Nexus	Zerrenner, K.	
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ESL-KT-15-12-43	Power Resilience and Combined Heat and Power	Braddock, C.	
ESL-TH-15-12-01	Variable-Fidelity Simulation Library for Dynamic Modeling of Thermal Management Systems	Rodriguez, E.; Rasmussen, B.	N/A
ESL-TR-16-08-01	An Investigation of a New Refrigeration Cycle Based on Membrane Enabled Dehumidification and Cooling	Pate, M.; Prasad, K.	
ESL-TR-16-11-01	Energy Efficiency/Renewable Energy Impact in the Texas Emissions Reduction Plan (TERP), Volume I - Technical Report	Haberl, J.; Baltazar, J.C.; Yazdani, B.; Do, S. L.; Mukhopadhyay, J.; Parker, P.; Ellis, S.; Degelman, L.; Zilbertshtein, G.; Claridge, D.	
ESL-TR-16-11-02	Energy Efficiency/Renewable Energy Impact in the Texas Emissions Reduction Plan (TERP), Volume II - Appendices	Haberl, J.; Baltazar, J.C.; Yazdani, B.; Do, S. L.; Mukhopadhyay, J.; Parker, P.; Ellis, S.; Degelman, L.; Zilbertshtein, G.; Claridge, D.	
ESL-TR-16-12-01	Final Report for the Fort Hood Army Base Project	Shin, M.; Parker, P.; Baltazar, J.C.; Haberl, J.	
ESL-TH-16-05-02	Automated Modeling of Large Scale Interconnected Building Systems	Chintala, R.; Rasmussen, B.	N/A
ESL-TH-16-05-03	Distributed MPC for Optimal Building Energy Efficiency	Bay, C.; Rasmussen, B.	N/A
ESL-TH-16-05-05	Autonomous Navigation of Unmanned Vehicles for Building Energy Assessments	de Deus Vieira Cardoso, L.; Rasmussen, B.	N/A
ESL-PA-16-01-06	Development of a Reference Building Information Model (BIM) for Thermal Model Compliance Testing Part II- Detailed Results, <i>HVAC&amp;R Journal</i>	Kota, S.; Stipo, F.; Jeong, W.; Kim, J. B.; Alcocer, J. L. B.; Clayton, M.; Yan, W.; Haberl, J.	
ESL-PA-16-06-02	A Method of Efficacy Estimation for ECM Blowers in Residential Gas Furnaces by Using Blower Rotational Speed, <i>ASHRAE Annual Conference</i>	Pate, M.; Sweeney, J.; Yin, P.	
ESL-PA-16-07-01	Field Investigation of Occupancy-Based Climate Control Technology: IEQ Performance during the Cooling Season, <i>Indoor Air 2016</i> , Conference of the International Society of Indoor Air Quality and Climate, Ghent, Belgium	Kim, H.; Oldham, E.; Haberl, J.	
ESL-TH-17-05-01	Linearizing Control Strategies for HVAC System Components	Price, C.; Rasmussen, B.	N/A
ESL-TH-17-08-03	Predictive Control of Peak Electrical Demand for Industrial Facilities	Rogers, A.; Rasmussen, B.	N/A
ESL-TR-18-02-01	Statewide electricity and demand capacity savings from the iterational energy conservation code (IECC) adoption for single-family residence in Texas (2002-2016)	Kheiri, F.; Baltazar, J.C.; Haberl, J.; Yazdani, B.	
ESL-PA-19-06-01	Consumer-driven shaving of grid demand using a strategically limited incentive	Rogers, A., Rasmussen, B.	
ESL-TR-19-08-04	Application Evaluation of the Market Square Project, Cleveland, Ohio, Report for Technical Support Services for the Ohio Air Quality Development Authority, Columbus, Ohio, Energy Systems Laboratory Report No.	Haberl, J.S., Baltazar, J.C., and Yazdani, B.	
ESL-PA-06-08-05	Development of a New ASHRAE Protocol for Measuring and Reporting the Onsite Performance of Buildings Except Low-Rise Residential Buildings, <i>2006 ACEEE Summer Study on Energy Efficiency in Buildings</i> , American Council for an Energy Efficient Economy, Washington, D.C.	Haberl, J.; Case, M.; Kettler, G.; Hunn, B.	