
Contents

PANEL 7: INTRODUCTION	7.xi
The New Frontier: Integrating Program Delivery and Information Technology	7.1
<i>Al Bartsch, West Hill Energy and Computing, Inc.</i>	
<i>Kathryn Parlin, West Hill Energy and Computing, Inc.</i>	
Web Technology to Support Work Processes in Energy Policy Research: A Case Study with Energy Efficiency Standards	7.15
<i>Peter Benenson, Peter Benenson Consulting</i>	
<i>James E. McMahon, Lawrence Berkeley National Laboratory</i>	
<i>Stephen R. Brown, Lawrence Berkeley National Laboratory</i>	
Design of a New Scheme for Tradable Certificates for Renewable Electricity and Energy Efficiency	7.29
<i>Vincent Berrutto, European Commission DG JRC</i>	
<i>Paolo Bertoldi, European Commission DG JRC</i>	
Standby Power Use: How Big Is the Problem? What Policies and Technical Solutions Can Address It?	7.41
<i>Paolo Bertoldi, European Commission DG JRC</i>	
<i>Bernard Aebischer, CEPE Swiss Federal Institute of Technology</i>	
<i>Charles Edlington, Australian Greenhouse Office</i>	
<i>Craig Hershberg, U.S. Environmental Protection Agency</i>	
<i>Benoit Lebot, International Energy Agency</i>	
<i>Jiang Lin, Lawrence Berkeley National Laboratory</i>	
<i>Tony Marker, Australian Greenhouse Office</i>	
<i>Alan Meier, Lawrence Berkeley National Laboratory</i>	
<i>Hidetoshi Nakagami, Jyukankyo Research Institute</i>	
<i>Yoshiaki Shibata, Jyukankyo Research Institute</i>	
<i>Hans-Paul Siderius, Novem</i>	
<i>Carrie A. Webber, Lawrence Berkeley National Laboratory</i>	
Speaking to Power: A Community-Technology Collaboration for Energy Communications and Control Infrastructure	7.61
<i>Michael Bobker, Association for Energy Affordability</i>	
<i>David Hepinstall, Association for Energy Affordability</i>	
<i>Dominique Lempereur, Association for Energy Affordability</i>	
Thinking Ahead: Autonomic Buildings	7.73
<i>Michael R. Brambley, Pacific Northwest National Laboratory</i>	

The Technician as a Remote Sensor	7.87
MaryAnn Buckley, <i>Proctor Engineering Group, Ltd.</i>	
John Proctor, <i>Proctor Engineering Group, Ltd.</i>	
Application of Clustering Techniques to Energy Data to Enhance Analysts' Productivity	7.97
Wendy Foslien, <i>Honeywell Labs</i>	
Valerie Guralnik, <i>Honeywell Labs</i>	
Steve Harp, <i>Honeywell Labs</i>	
William Koran, <i>Honeywell Atrium</i>	
Development of a California Commercial Building Energy Benchmarking Database	7.109
Satkartar Kinney, <i>Lawrence Berkeley National Laboratory</i>	
Mary Ann Piette, <i>Lawrence Berkeley National Laboratory</i>	
Wireless Sensors: Technology and Cost-Savings for Commercial Buildings	7.121
Michael Kintner-Meyer, <i>Pacific Northwest National Laboratory</i>	
Michael R. Brambley, <i>Pacific Northwest National Laboratory</i>	
T. Carlon, <i>Pacific Northwest National Laboratory</i>	
N. Bauman, <i>Pacific Northwest National Laboratory</i>	
GEMnet Status and Accomplishments: GSA's Energy and Maintenance Network	7.135
Mark S. Levi, <i>U.S. General Services Administration</i>	
Dave McBride, <i>U.S. General Services Administration</i>	
Stephen May, <i>U.S. General Services Administration</i>	
Mary Ann Piette, <i>Lawrence Berkeley National Laboratory</i>	
Satkartar Kinney, <i>Lawrence Berkeley National Laboratory</i>	
On-Line Models for Use in Automated Fault Detection and Diagnosis for HVAC&R Equipment	7.147
Haorong Li, <i>Purdue University</i>	
James E. Braun, <i>Purdue University</i>	
Comparing Approaches to Reducing Efficiency Market Barriers Through Interactive Energy Audit Software	7.159
Harvey Michaels, <i>Nexus Energyguide</i>	
Fixing the Power Management Controls Problem	7.167
Bruce Nordman, <i>Lawrence Berkeley National Laboratory</i>	
Alan Meier, <i>Lawrence Berkeley National Laboratory</i>	
Don Aumann, <i>California Energy Commission</i>	
Barriers in Developing and Using Simulation-Based Decision-Support Software	7.179
Konstantinos Papamichael, <i>Lawrence Berkeley National Laboratory</i>	
Vineeta Pal, <i>Lawrence Berkeley National Laboratory</i>	

Power Levels in Office Equipment: Measurements of New Monitors and Personal Computers	7.187
<i>Judy A. Roberson, Lawrence Berkeley National Laboratory</i> <i>Richard E. Brown, Lawrence Berkeley National Laboratory</i> <i>Bruce Nordman, Lawrence Berkeley National Laboratory</i> <i>Carrie A. Webber, Lawrence Berkeley National Laboratory</i> <i>Gregory K. Homan, Lawrence Berkeley National Laboratory</i> <i>Akshay Mahajan, Lawrence Berkeley National Laboratory</i> <i>Marla McWhinne, Lawrence Berkeley National Laboratory</i> <i>Jonathon G. Koome, Lawrence Berkeley National Laboratory</i>	
Energy Consumption by Commercial Office and Telecommunication Equipment	7.201
<i>K.W. Roth, TIAX, LLC</i> <i>F. Goldstein, TIAX, LLC</i> <i>J. Kleinman, TIAX, LLC</i>	
Dimming Every Light Cheaply	7.213
<i>Francis Rubinstein, Lawrence Berkeley National Laboratory</i> <i>Peter Pettler, Vistron Corp.</i> <i>Judith Jennings, Lawrence Berkeley National Laboratory</i>	
Benefits of Enhanced Data Quality and Visualization in a Control System Retrofit ...	7.221
<i>Fredric J. Smothers, F. Smothers & Associates</i> <i>Kristopher L. Kinney, Engineered Web Information Systems</i>	
More Efficient Technology Will Ease the Way for Future Data Centers	7.233
<i>Jay Stein, E SOURCE/Platts</i>	
Intelligent Thermostats Save Energy and Give Improved Control Performance	7.245
<i>Bertil Thomas, Chalmers Lindholmen University</i> <i>Mohsen Soleimani-Mohseni, Chalmers University of Technology</i>	
Standing By in Central Europe: A Survey of Hungarian, Romanian and Bulgarian Residences	7.259
<i>Diana Üрге-Vorsatz, Central European University, Hungary</i> <i>Kristina Sroukanska, Regional Environmental Center, Bulgaria</i> <i>Szilárd Asztalos, University of Sheffield, United Kingdom</i>	
Field Testing of Component-Level Model-Based Fault Detection Methods for Mixing Boxes and VAV Fan Systems	7.273
<i>Peng Xu, Lawrence Berkeley National Laboratory</i> <i>Philip Haves, Lawrence Berkeley National Laboratory</i>	