

# CONTENTS

## PANEL 7:INTRODUCTION

### **The European Strategy for Reducing Stand-By Losses in Consumer Electronics: Status and Results**

Paolo Bertoldi, *European Commission Directorate General Energy & Transport*

Flavio Conti, *European Commission Joint Research Centre*

Vincent Berrutto, *European Commission Joint Research Centre*

### **Using Automated Diagnostic Tools to Provide Energy Services**

Michael R. Brambley, *Pacific Northwest National Laboratory*

Robert G. Pratt, *Pacific Northwest National Laboratory*

### **eBidenergy—Internet Based Energy Analysis and Procurement**

Peter W. Douglas, *New York State Energy Research and Development Authority*

John Howell, *Logical Energy Systems, Inc.*

Terrence Sick, *Logical Energy Systems, Inc.*

### **Building Controls and Facilities Management in 21st Century**

Srinivas Katipamula, *Enron Energy Services*

Peter Armstrong, *Pacific Northwest National Laboratory*

Mike R. Brambley, *Pacific Northwest National Laboratory*

Robert G. Pratt, *Pacific Northwest National Laboratory*

David P. Chassin, *Pacific Northwest National Laboratory*

### **Electricity Used by Office Equipment and Network Equipment in the U.S.**

Kaoru Kawamoto, *Lawrence Berkeley National Laboratory*

Jonathan Koomey, *Lawrence Berkeley National Laboratory*

Bruce Nordman, *Lawrence Berkeley National Laboratory*

Richard E. Brown, *Lawrence Berkeley National Laboratory*

Mary Ann Piette, *Lawrence Berkeley National Laboratory*

Alan K. Meier, *Lawrence Berkeley National Laboratory*

### **Discussion on Capital Cost Savings Potential for Energy Management and Control Systems in Commercial Buildings Using Existing Data Networks and Wireless Communications**

Michael Kintner-Meyer, *Pacific Northwest National Laboratory*

D. Chassin, *Pacific Northwest National Laboratory*

D. Hatley, *Pacific Northwest National Laboratory*

### **Next Generation Solutions for the Energy Services Industry**

Satish Kumar, *Lawrence Berkeley National Laboratory*

Steve Kromer, *Enron Energy Services*

**Global Implications of Standby Power Use**

Benoit Lebot, *International Energy Agency*  
Alan Meier, *Lawrence Berkeley National Laboratory*  
Alain Anglade, *ADEME*

**PC and Monitor Night Status: Power Management Enabling and Manual Turn-Off**

Bruce Nordman, *Lawrence Berkeley National Laboratory*  
Alan K. Meier, *Lawrence Berkeley National Laboratory*  
Mary Ann Piette, *Lawrence Berkeley National Laboratory*

**Use of an Information Monitoring and Diagnostic System to Improve Building Operations**

Mary Ann Piette, *Lawrence Berkeley National Laboratory*  
Sat Kartar Khalsa, *Lawrence Berkeley National Laboratory*  
Philip Haves, *Lawrence Berkeley National Laboratory*

**The Impact of the Internet Economy on Energy Intensity**

Joseph Romm, *Center for Energy and Climate Solutions*  
Arthur H. Rosenfeld, *California Energy Commission*

**National Energy Use of Consumer Electronics in 1999**

Karen Rosen, *Lawrence Berkeley National Laboratory*  
Alan Meier, *Lawrence Berkeley National Laboratory*  
Stefan Zandelin, *Lawrence Berkeley National Laboratory*

**IBECS: An Integrated Building Environmental Communications System—It's Not Your Father's Network**

Francis Rubinstein, *Lawrence Berkeley National Laboratory*  
Steven Johnson, *Lawrence Berkeley National Laboratory*  
Peter Pettler, *Vistron Corp.*

**Implementation and Testing of a Fault Detection Software Tool for Improving Control System Performance in a Large Commercial Building**

T.I. Salsbury, *Johnson Controls Inc.*  
R.C. Diamond, *Lawrence Berkeley National Laboratory*

**Model-Independent Fault Detection and Diagnostics for VAV Terminal Units**

Christopher C. Schroeder, *Schiller Associates*  
James D. Bradford, *Schiller Associates*

**Using GIS to Support Market Transformation**

Robert Wirtshafter, *Wirtshafter Associates, Inc.*  
Susan L. Radke, *Berkeley Geo-Research Group, Inc.*  
Shahana Samiullah, *Southern California Edison*

## **Non-Intrusive Appliances Load Monitoring System Using Neural Networks**

K. Yoshimoto, *Central Research Institute of Electric Power Industry*

Y. Nakano, *Central Research Institute of Electric Power Industry*

Y. Amano, *Tokyo University of Agriculture and Technology*

B. Kermanshahi, *Tokyo University of Agriculture and Technology*