



**California Energy Commission  
IEPR Committee Workshop**

**Combined Heat Power to Support California's AB 32 Climate Change  
Scoping Plan**

**July 23, 2009 – 9:00 a.m.**

**AGENDA**

- 9:00-9:10 Introduction**  
Suzanne Korosec, IEPR Lead
- 9:10-9:25 Opening Comments**  
Commissioner Jeff Byron, Presiding Member  
Vice Chair Jim Boyd, Associate Member
- 9:25-9:35 Workshop Goals**  
Linda Kelly, California Energy Commission
- 9:35-10:35 Technical and Market Potential for New CHP in California**
- Existing California CHP [MW, number, distribution by size]
  - CHP Market Potential Analysis under Alternative Scenarios
  - Efficiency and Air Emissions of CHP
- Bruce Hedman and Ken Darrow, ICF, International
- 10:35-11:00 Modeling and Forecasting CHP in Commercial Buildings - Balancing Cost, Energy and CO2 Emissions Minimization Strategies**  
Michael Stadler, Tim Lipman, Lawrence Berkeley National Laboratory
- 11:00-11:15 Large Industrial CHP**  
Evelyn Kahl, Western States Petroleum Association
- 11:15-11:35 CHP Legislation (AB 1613) - Update on Status of Rulemakings and Schedules**  
Art Soinski, California Energy Commission  
Michael Colvin, California Public Utilities Commission

- 11:35-12:00**     **Public Comments on Morning Session**
- 12:00-1:15**     **Lunch**
- 1:15-2:00**     **CHP to Reduce Greenhouse Gas Emissions - Options and Opportunities for Developing New Facilities in California**  
                         **Publicly Owned Utilities/Cooperatives**  
                         Mark Rawson, Sacramento Municipal Utility District  
                         Bob Marshall, Plumas Sierra Rural Electric Cooperative  
                         **3<sup>rd</sup> Party Development Opportunities for CHP**  
                         Rod Schwass, Burns & McDonnell
- 2:00-2:15**     **CHP Solutions to Climate Change**  
                         David Schnaars, Environmental Strategies, Solar Turbines
- 2:15-3:00**     **Wastewater Treatment Facilities - Renewable CHP Opportunities and Barriers**  
                         Pramod Kulkarni, California Energy Commission  
                         Mark McDannel, Los Angeles County Sanitation District  
                         Kathleen Ave, Sacramento Municipal Utility District
- 3:00-4:15**     **CHP Technical and Market Challenges – Manufacturer’s Prospective**  
                         Moderator:    Avtar Bining, California Energy Commission  
                         Panelists:     Eric Wong, Cummins  
                                         Jeff Cox, Fuel Cell Energy (Molten Carbonate Fuel Cells)  
                                         Steve Gillette, Capstone  
                                         Robert Byron, UTC (Phosphoric Acid Fuel Cells)  
                                         David Schnaars, Solar Turbines  
                                         **CHP Customers**  
                                         Cheri Chastain, Sierra Nevada Brewery  
                                         Gordon R. Watson, Hitachi Global Storage Technologies, Inc.
- 4:15-4:45**     **Public Comments**
- 4:45-5:00**     **Closing Remarks from Commissioners**
- 5:00**             **Adjourn**