



California Energy Commission

**DOCKETED**

**14-CHP-1**

**TN 73356**

**JUL 10 2014**

## **California Energy Commission Staff Workshop**

### **Combined Heat and Power to Support California's Energy and Environmental Goals**

**July 14, 2014 – 9:00 a.m.**

#### **Agenda**

##### **Introduction and Workshop Goals**

Jason Harville, California Energy Commission

##### **Presentation on CHP and AB 32**

Dave Mehl, California Air Resources Board

##### **Panel 1: Value and Benefits of Combined Heat and Power (CHP)**

**Moderator: Jason Harville, California Energy Commission**

**Panelists:**

Tom Beach, Crossborder Energy  
Cherif Youssef, Southern California Gas Company  
Keith Davidson, DE Solutions  
Dorothy Rothrock, California Manufacturers and Technology Association  
Rizaldo Aldas, California Energy Commission  
Sidney Davies, California Independent System Operator  
Michael Alcantar, Cogeneration Association of California  
Beth Vaughan, California Cogeneration Council  
Evelyn Kahl, Energy Producers and Users Coalition  
Joel Bluestein, ICF International

##### *Questions for Panel*

- 1. What value and/or benefits can CHP facilities provide to customers, communities, grid operators, and the state? (Some panelists will give small presentations on different benefits and/or values)*
- 2. How should the State recognize these values in a way that will encourage development of new CHP projects in California?*
- 3. What types of research will support the development of new CHP in California?*

##### **Questions from the Public**

**Break**

## **Panel 2: Update on Small CHP Market in California (up to 20 MW)**

**Moderator: Keith Davidson, DE Solutions**

**Panelists:** Debbie Chance, Chevron  
Steve Acevedo, Regatta Solutions  
David Erickson, California Public Utilities Commission  
Jim Reilly, Reilly Associates  
Adam Robinson, Solar Turbines  
Casey Houweling, Houweling's Tomatoes

### *Questions for Panel*

1. *What are the most significant factors that contribute to the decision by a public or private developer to invest in CHP?*
2. *What economic and/or regulatory challenges lead to project delays or failure?*
3. *How can the State support the development of an active market for small CHP development?*
4. *What are new opportunities and applications for small CHP development?*

### **Questions from the Public**

## **Lunch**

## **Presentation and Update on California Public Utilities Commission LTPP and QF Settlement Proceedings**

Damon Franz and Noel Crisostomo, California Public Utilities Commission

### **Questions from the Public**

## **Overview of Papers Evaluating CHP Performance**

Presentation of *Evaluating the Greenhouse Gas Performance of Combined Heat and Power Systems: A Summary for Californian Policymakers* – Ray Williams, Pacific Gas & Electric

Presentation of *CHP's Potential to Reduce GHG Emissions in California: Evaluation of a June 2013 CRRF Conference Paper* – Joel Bluestein, ICF International

Presentation of *CHP and Greening the Grid* – Cliff Rochlin, Southern California Gas Company

### **Questions from the Public**

## **Overview of CHP Performance Standards**

Presentation on the Reference Electrical Generation Unit and Boiler Efficiency used to calculate CHP Program Performance Standards – Jason Harville, California Energy Commission

Presentation on Boiler Efficiencies – Dale Fontanez, Southern California Gas Company

Presentation of a Proposed Methodology for Estimating Fuel Displacement for California Electricity Reductions - Bryan Neff, California Energy Commission

### **Panel 3: Calculating GHG Emissions Reductions from CHP**

**Moderator:** Ivin Rhyne, California Energy Commission

**Panelists:** Michael Alcantar, Cogeneration Association of California  
Dave Barker, San Diego Gas & Electric  
Joel Bluestein, ICF International  
Sonika Choudhary, Pacific Gas & Electric  
Keith Davidson, DE Solutions  
Evelyn Kahl, Energy Producers and Users Coalition  
Bryan Neff, California Energy Commission  
Cliff Rochlin, Southern California Gas Company  
Katie Sloan, Southern California Edison  
Beth Vaughan, California Cogeneration Council  
Ray Williams, Pacific Gas & Electric

#### *Questions for Panel*

1. *What type of CHP program performance standards should be used in California and why?*
2. *Should there just be one or should we continue to use different standards for different programs? Please explain why.*
3. *What are the most effective methods for determining boiler efficiency and grid electric heat rate for displaced resources?*
4. *Is the Energy Commission staff's proposed approach to estimating fuel displacement reasonable? If not, please explain why.*

#### **Questions and Summary Comments from the Public**

**Next Steps – Jason Harville**