



PACIFIC REGION

COMBINED HEAT & POWER
APPLICATION CENTER

Clean Fuels for California and the West

September 18-19, 2006 - Newport Beach, California

WELCOME

Vince McDonell

UCI Advanced Power & Energy Program

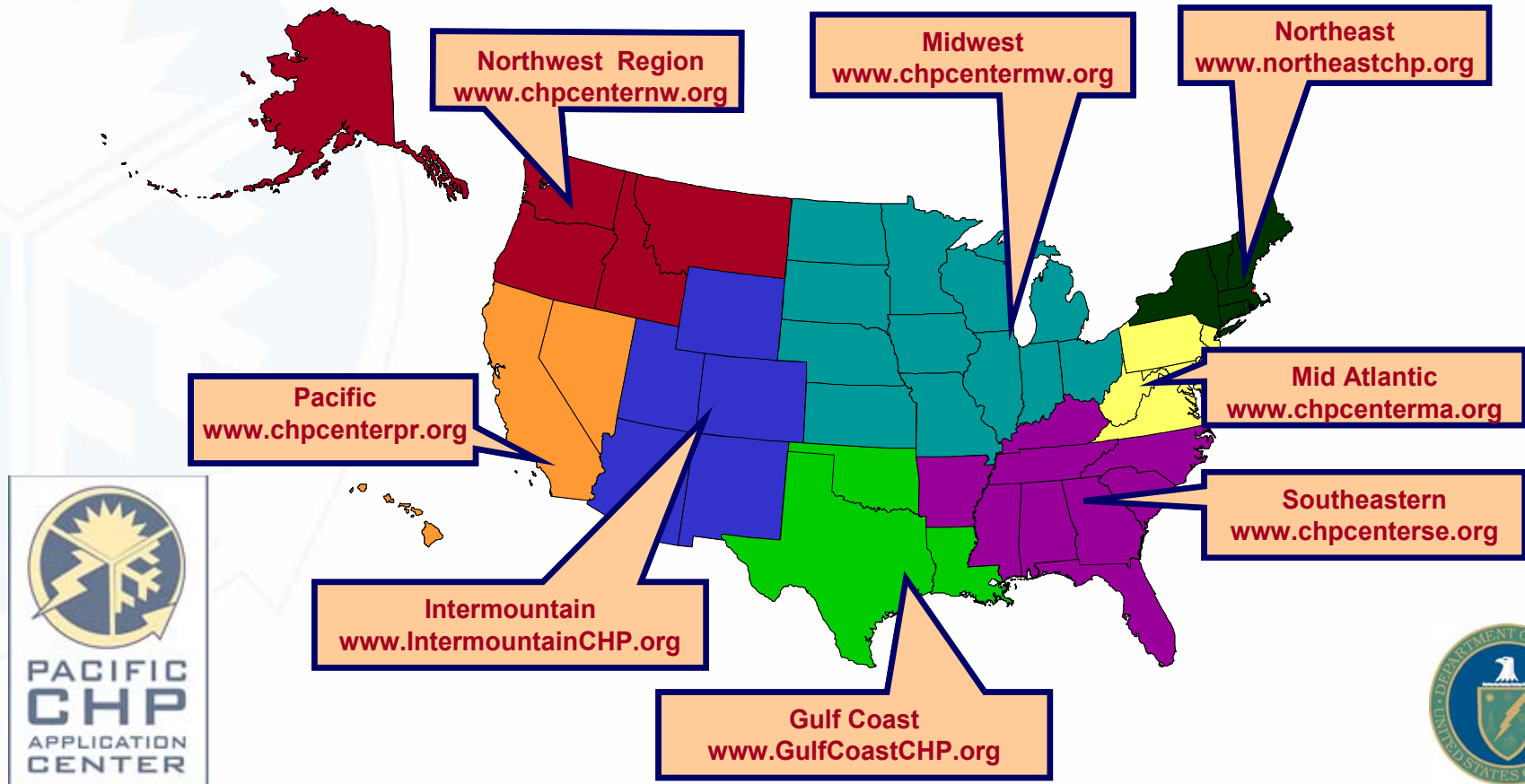
Co—Director, Pacific Region CHP Application Center





Regional CHP Application Centers

The regional application centers will promote combined heating and power (CHP) technology and practices, serve as a central repository and clearinghouse of CHP information, and identify and help implement regional CHP projects.





Pacific Region CHP Application Center

Partnership Network



UC Berkeley
Node

Lawrence Berkeley
National Lab

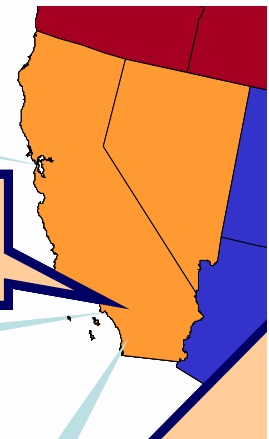
UC Irvine
Node

Sempra Energy

San Diego State
Node

San Diego Regional
Energy Office

Pacific
www.chpcenterpr.org

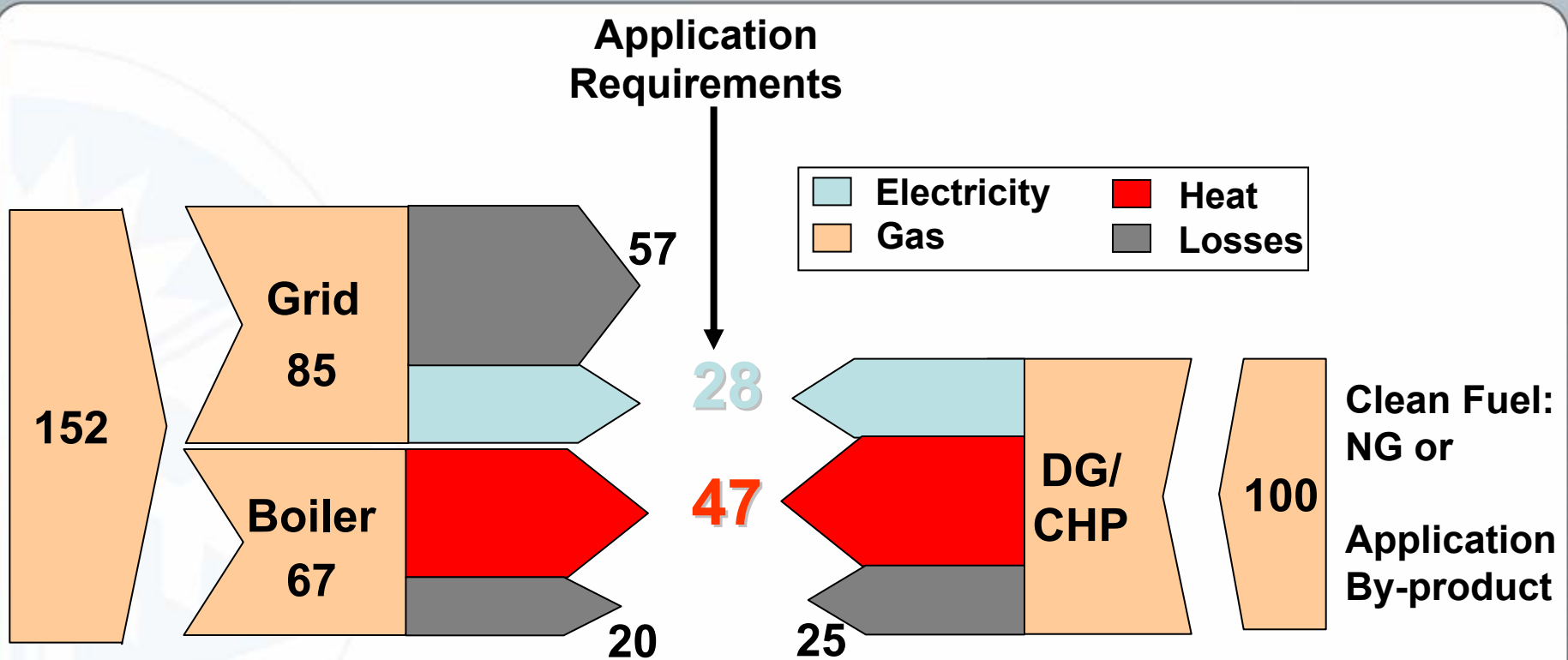


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UC Irvine—Vince McDonell, 949 824 5950 x121
SDSU—Asfaw Beyene, 619 594 6207

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Motivation for Workshop



- 34% reduction in energy consumption
- 34% reduction in greenhouse gas emissions
- Reduction in net pollutant emissions
- Potential for improved energy reliability/security
- Potential for local grid relief
- Potential for cost savings



Motivation for Workshop

Technologies* Include:

- **Recip. Engines**
- **Turbines**
- **Microturbines**
- **Fuel Cells**
- **Heat Recovery Eqpt. / Heat Exchangers**
- **Absorption/Adsorption Cooling Systems**
- **Desiccant Systems**

***Significant Advancements Made in last 5 years thanks to Investment by OEMs and Agencies**



Workshop Objectives

- Present the general environment relative to CHP in California/West
- Emphasis on 3 target market sectors
- Facilitate next steps

- Goal: Springboard for deployment, connect end users with resources needed for success



Workshop Structure

- **General Session (until 11:00)**
 - Market environment, technologies, economics
- **Target Market Tracks (11:15-3:30)**
 - Panel Discussion
 - LUNCH (12:15-1:15)
 - Case Study Presentations
- **General Session (3:45-4:30)**
 - Streamlining Project Development
- **Wrap-up (4:30-5:15)**



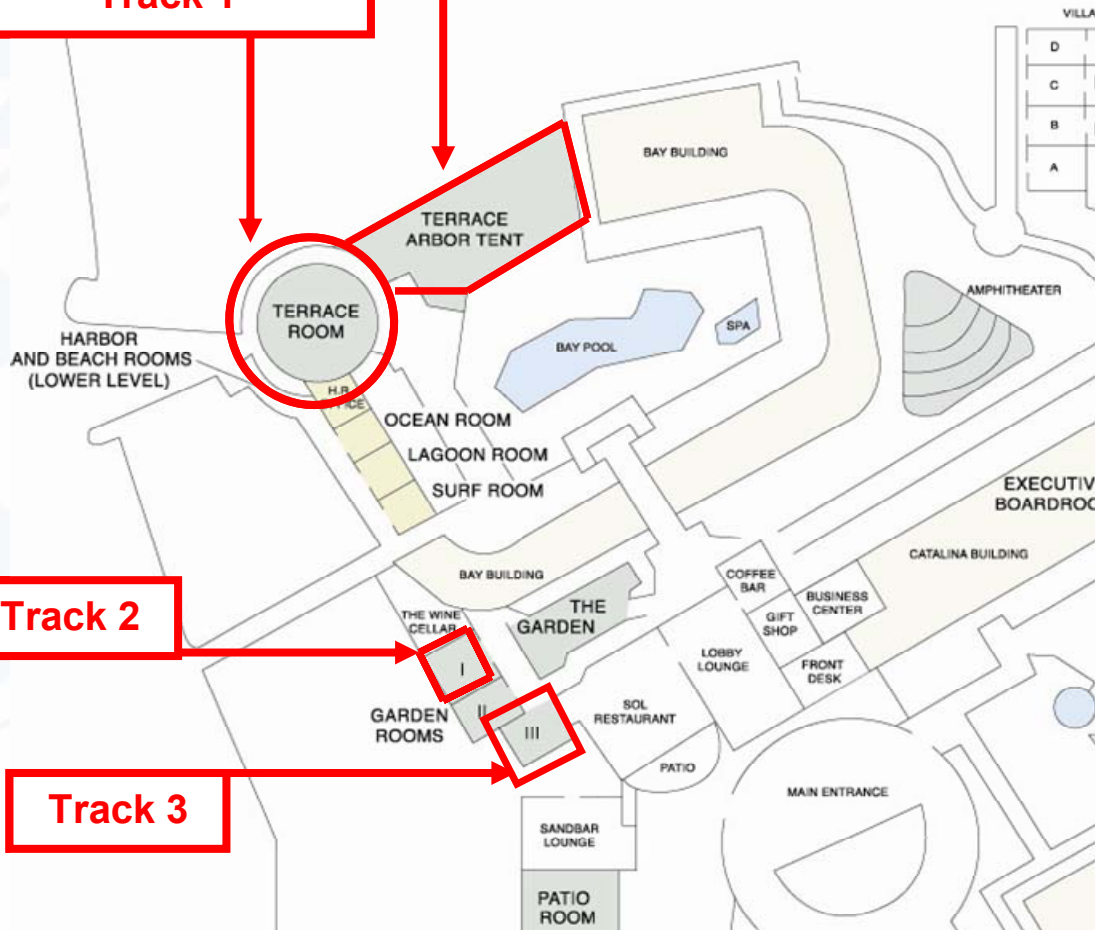
Track Logistics

Registration
General Session
Track 1

Lunch

Track 2

Track 3





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APPLICATION CENTER

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Presentations will be posted at www.chpcenterpr.org by mid-October
An email notification will be sent to attendees