California Energy Commission

Joint IEPR and RD&D Lead Commissioner Workshop

Climate Change and the California Energy System

April 30, 2012 – 9:30 a.m.

AGENDA

Introduction

Suzanne Korosec, IEPR Lead

Welcoming Remarks and Workshop Overview

Commissioner Carla Peterman, IEPR Lead Commissioner

Chair Robert Weisenmiller, RD&D Lead Commissioner

Commissioner Karen Douglas, Energy Commission

Secretary John Laird, Natural Resources Agency

Wade Crowfoot, Governor's Office

Commissioner Catherine J.K. Sandoval, California Public Utilities Commission

Colette Kersten, Energy Advisor to CPUC Commissioner Sandoval

Direct Impacts of Climate Change on the California Energy System

Energy Commission's research strategy on impacts and adaptation options for the energy sector: **Laurie ten Hope** (Energy Commission)

Historical and projected climate in California: **Dan Cayan** (Scripps)

Electricity demand in a warming world: **Max Auffhammer** (UC Berkeley)

Impact of climate change on hydropower generation: implications to the re-licensing of hydropower units in California, **Joshua Viers** (UC Davis)

Potential impacts of wildfire, high temperatures, and sea level rise to transmission lines, the performance of thermal power plants, and electricity reliability: **Larry Dale** (LBNL)

Climate change impacts on renewable sources of energy: **Guido Franco** (Energy Commission)

Implications of climate change in conservation planning for impacts in the siting of energy facilities: **Lee Hannah** (UC Santa Barbara)

Lunch Break (1 hour)

Preparing the California Energy System for a Changing Climate

Climate change, energy, and local governments: a report from a conference organized by OPR: **Michael McCormick** (Office of Planning and Research)

Goals and objectives for the afternoon session: **Julia Levin** (Natural Resources Agency)

Adaptation of the energy sector to climate variability and change using seasonal/mid-term climate forecasts: **David Pierce** (Scripps)

Improving the management of large hydropower units in California: **Kosta Georgakakos** (HRC/Scripps)

Adaptive measures for homes, buildings, and cities in California: **Paul Bunje** (UCLA)

The potential evolution of a more sustainable and resilient energy system in California in the face of climate change: **Dan Kammen** (UC Berkeley)

Roundtable Discussion: Using science to create a more resilient energy sector Roundtable Discussion

Moderator: **Susanne Moser** (Independent Consultant for Stanford University)

Panelists: **Valerie Winn** (Pacific Gas & Electric)
Manuel Alvarez (Southern California Edison)
Bud Beebe (Sacramento Municipal Utility District)
Dennis Peters (California ISO)
Steven Kelly (Independent Energy Producers Association)
Randy Howard (Los Angeles Department of Water & Power)
Michael Hanemann (UC Berkeley)
Dan Cayan (Scripps)
Dan Kammen (UC Berkeley)

Public Comments

Closing Remarks

Adjourn (approximately 5:00 p.m.)