

California Energy Commission  
2007 Integrated Energy Policy Report Committee and  
CPUC Commissioner John Bohn  
Incentives for Wind Repowering and  
Best Practices for Coordinating RPS with Carbon Market Design  
March 13, 2007 Workshop in Sacramento, California  
Hearing Room A

## FINAL AGENDA

### 9:30 AM Introduction and Opening Remarks

### 9:45 AM Roundtable Discussion: Incentives for Wind Repowering

Reiterating earlier IEPR reports, the *2006 IEPR Update* called attention to the lack of progress to repower the state's aging wind turbines and called for action.

About 1,300 MW of the state's 2,230 MW of wind energy turbines were installed in the 1980s. These turbines are aging, outdated and inefficient compared to current wind turbine technology. Repowering would result in additional renewable energy delivered to the grid, which would further the state's RPS goals. However, because of the structure of current contracts, as well as provisions in the U.S. Tax Code, these facilities have little economic incentive to repower.

In the *2006 IEPR Update*, the Energy Commission requested an evaluation of whether and what type of incentives the state should consider to encourage efficient use of the state's wind energy resources while reducing avian impacts.

- Presenters:
  1. Ryan Wiser, LBNL – *Barriers and Incentives for Wind Repowering in Europe and Elsewhere*
  1. Diane Fellman, FPLE – *Wind Repowering Incentives: A Developer's Perspective*

### 10:30 AM

- Discussion Moderator: Johan Enslin, KEMA
- Discussion and Q&A: Questions listed on Attachment A with the workshop notice

Ryan Wiser, LBNL  
Nancy Rader, CalWEA  
Hugh Meriam, PG&E  
Gary Allen, SCE

Diane Fellman, FPL  
Douglas Kerner, AWEA  
Bronwyn Hogan, CDFG

Public Comment

### 11:30 AM Break

**11:45 AM Roundtable Discussion: Best Practices for Coordinating RPS with Carbon Market Design**

As part of the state's efforts to reduce greenhouse gas emissions to 1990 levels by 2020, AB 32 authorizes the California Air Resources Board (CARB) to develop a GHG emission reduction mechanism, with the option to develop a market-based compliance mechanism as part of the regulations it must adopt by January 1, 2011.

On October 18, 2006, the Governor issued Executive Order S-20-06, ordering state agencies to develop market-based compliance mechanisms for greenhouse gas reduction consistent with AB 32 on an expeditious schedule, concurrent with regulatory measures. The Executive Order directs the Secretary for Environmental Protection to create a Market Advisory Committee of national and international experts to make recommendations to the CARB on the design of a market-based compliance program. The Order states a goal that the program be designed to permit trading with the European Union, the Regional Greenhouse Gas Initiative and other jurisdictions.

To inform the best way for the state's RPS program to support implementation of AB 32, the *2006 IEPR Update* recommended further analysis to clarify the relationship between renewable energy, renewable energy certificates (REC), and carbon emissions trading systems currently operating in other states and other countries.

- Presenters:
  1. Bob Grace, Sustainable Energy Advantage (by teleconference) – *Treatment of Renewable Energy under the RGGI Model Rule and Other Markets & Policies*
  2. Lars Kvale, CRS – *Lessons Learned for Integrating Renewables into Greenhouse Gas Trading Program.*

**12:30 PM**

- Discussion Moderator: Pamela Doughman
- Discussion and Q&A: See Attachment A

Bob Grace, SEA  
Cliff Chen, UCS  
Hal La Flash, PG&E  
Steve Schiller, CIEE

Lars Kvale, CRS  
Gregg Morris, GPI  
Frank Harris, SCE

Public comment

**1:30 PM Adjourn**