



California Energy Commission

DOCKET

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**Integrated Energy Policy Report Staff Workshop
Impacts of Higher Levels of Renewables on the Electricity System –
Summary of Recent Studies**

July 21, 2008 - 10 a.m.

Call-In Number: 1-888-566-5914, Passcode: IEPR , Call Leader: Suzanne Korosec

AGENDA

Welcome and Opening Comments

Suzanne Korosec, IEPR Lead

Pam Doughman, Energy Commission Staff

Summary of Studies on 33 Percent Renewables by 2020: Topics 1-4

Pam Doughman, Energy Commission Staff

1. Estimating 33 percent of statewide retail sales for 2020.
2. Comparison of Resource Mix Scenarios.
3. Impacts of contract delays or cancellations on meeting Renewable Portfolio Standard goals.
4. Range of potential wholesale and retail price impacts and strategies to mitigate negative impacts. Range of assumptions, levelized costs

Panel Discussion on Topics 1-4

- Mike Jaske, Energy Commission
- Jan Hamrin, CRS
- Dora Yen Nakafuji, LLNL
- David Hawkins, CA ISO
- Sneller Price, E3
- Jaclyn Marks, CPUC

Public Comments

Lunch

Summary of Studies on 33 Percent Renewables by 2020: Topics 5-7.

5. Operational and physical changes needed to integrate renewables while maintaining reliability, including discussion of when those changes would be needed and at what level of renewable penetration, the need for energy storage technologies, and impacts of using peaker plants. [General modeling studies. July 23 workshop will discuss specific transmission locations.]
 - So What's New? An Update on Achieving a 33 Percent Renewable Energy Target
Jan Hamrin, CRS
 - Scenarios Analysis,
Mike Jaske, Energy Commission Staff
 - Intermittency Analysis Project
Dora Yen Nakafuji, LLNL
 - CA ISO Integration of Renewable Resources Program,
David Hawkins, CA ISO
6. Potential impacts on natural gas demand, supply, and price.
 - Pam Doughman, Energy Commission Staff
7. Environmental concerns and mitigation for developing large-scale renewable facilities: solar, wind, biomass, geothermal.
[Overview. July 23 workshop will discuss work on this topic in RETI]
 - Pam Doughman, Energy Commission Staff

Break

Panel Discussion on Topics 5-7

- Mike Jaske, Energy Commission
- Dora Yen Nakafuji, LLNL
- David Hawkins, CA ISO
- Sneller Price, E3
- Jaclyn Marks, CPUC

Public Comments

Adjourn