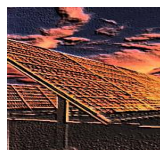




Electric Energy – Changing Landscape



August 8, 2008

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USEA Workshop – August 7-8, 2008





California Update

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- SB1 – Solar Initiative
 - AB32 – Energy Eff. (GHG Reduction)
 - RPS – Renewable Portfolio Standards
 - Resource Adequacy
 - PURPA – Public Utility Regulatory Policies Act of 1978
 - Amended by Energy Policy Act of 2005
 - Consumer Protection





PURPA

➤ Key Considerations

- Effect on Conservation of Energy
- Efficient Use of Facilities and Resources
- Support for Renewable Energy & New Technologies
- Equity among electrical energy consumers





PURPA – Modified 2005



- Net Metering



- Fuel Source Diversity
 - Variety of fuels including solar



- Fossil Fuel Generation Efficiency Standard
 - Improve thermal efficiency





Regulatory Outlook

- Increase RPS requirement
- Emissions Control
 - Carbon offsets/trading
- Solar Photovoltaic –Incentives to increase penetration
- Tax Credits -????
- Enforcement of Reliability Standards
 - Utility Audits
 - Mandatory sanctions





California Activities

- Self Generation Incentive
 - AB 1064 (Lieber) & SB 1012 (Kehoe)
- Combined Heat and Power
 - AB 1613 (Blakslee) to examine CHP
- CPUC & CEC workshops on integration of Renewables (33%) – Barriers
 - Incremental costs
 - Lack of transmission capacity
 - Intermittency
 - Reliability issues
 - Firming, Storage, Smart Grid solutions
- Carbon Fee





California Activities

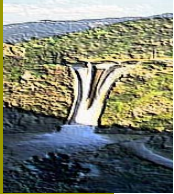
- Concentrated Solar power
 - Heliocal systems to power Capstone micro turbines –C65 modified machine

- Solar Thermal





Questions?



www.smud.org

www.ourgreencommunity.org





THANK YOU

