


Clean and Diversified Energy Initiative

Rich Halvey
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Background

- North American Energy Summit
 - June 2004 Governors' Resolution
 - Protection against shortages and spikes
 - National energy policy that is diverse and contains both conventional and alternative energy resource development, energy efficiency and conservation
 - Meet the energy needs of the West
 - Respond to environmental challenges
 - Take advantage of new technologies that lower the cost of renewable energy and reduce emissions control
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Enlibra

- ***National Standards, Neighborhood Solutions*** -- Assign responsibilities at the right level
 - ***Collaboration, Not Polarization*** -- Use collaborative processes to break down barriers and find solutions
 - ***Reward Results, Not Programs*** -- Move to a performance-based system
 - ***Science for Facts, Process for Priorities*** -- Separate subjective choices from objective data gathering
 - ***Markets Before Mandates*** -- Pursue economic incentives whenever appropriate
 - ***Change a Heart, Change a Nation*** -- Environmental understanding is crucial
 - ***Recognition of Costs and Benefits*** -- Make sure all decisions affecting infrastructure, development and environment are fully informed
 - ***Solutions Transcend Political Boundaries*** -- Use appropriate geographic boundaries for environmental problems
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Change a heart, change a nation

- If these things are such good ideas, why is it taking so long to fully implement them?
 - Making it impossible to say no
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Objectives

- Diverse portfolio
 - 30,000 megawatts of clean energy by 2015
 - Solar, wind, geothermal, biomass, clean coal and advanced natural gas
 - 20% increase in energy efficiency by 2020
 - Meet transmission needs over the next 25 years
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Organization

- Clean and Diversified Energy Advisory Committee
 - Identify recommendations that are technically and financially viable
 - Identify mitigation of environmental impacts
 - Voluntary not mandatory actions
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Task Forces

- Efficiency
 - Wind
 - Solar
 - Geothermal
 - Clean Coal
 - Advanced natural gas
 - Biomass
 - Transmission
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Working Group

- Quantitative work group
 - comparability
 - consistency
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CDEAC Report

- The CDEAC report will illustrate the potential for clean and diversified energy and energy efficiency if the right incentives are provided
 - Ultimately the market will determine what gets built and where it gets built, but through the CDEAC process policies can be identified that will make it viable for companies to invest in clean fuels and technologies while meeting demand
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Schedule

- Task Forces have essentially completed meeting
 - Transmission modeling to determine grid requirements in 2015 underway – to be completed late November/early December
 - November 1-15 – final task force reports submitted to the CDEAC
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Schedule

- December 2005 – CDEAC begins working on report to Governors
 - March 2006 – draft report to steering group
 - June 2006 – final report released
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Energy Efficiency Task Force

- Review of Energy Efficiency Potential Studies
 - Barriers to greater energy efficiency
 - Best practices policies and programs
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Efficiency Potential Studies

- Application of the Best Practices scenario provides a potential to reduce electricity demand growth by 0.5 – 2% per year
 - Billions of dollars saved for businesses with favorable cost benefit ratios
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Wind

- 4,900 existing MW in the West
 - Potential to create up to 53,000 MW over the next 10 years
 - Extension of the production tax credit
 - Transmission reforms
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Biomass

- Potential for 10,000 MW of electricity generation in the next 10 years
 - Conversion of traditionally wasted products into energy
 - Reduce forest fire threat
 - Economic stimulation for rural communities
 - Major recommendation is increased cooperation between states and FLMs
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Solar

- Potential for 8,000 MW between CSP and DG
 - 32,500 potential new jobs
 - Gradually declining PTC
 - Solar installation rebates
 - Net metering
 - Performance incentives
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Advanced Coal

- Continuous, incremental improvement in all advanced coal technologies
 - Full state incentives for 4-5 demonstration projects using advanced coal technology and having at least 60% carbon capture and sequestration
 - Reduced incentives for technologies, not yet commercially deployed, moving toward zero emissions and carbon capture
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Geothermal

- 5,593 MW of reliable potential exists in the West
 - Extension of the federal PTC
 - State and local tax incentives
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Transmission

- High demand/low demand and high renewables/high fossils scenarios
 - Cost of developing the grid
 - Affects of scenarios on grid design and dispatch
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What Next?



Contact information

Rich Halvey

rhalvey@westgov.org

303-623-9378

Web site: www.westgov.org

Follow the links to Clean and Diversified
Energy Project
