















Renewable Energy & Wildlands Conservation

West-wide Planning Efforts

RMLUI Conference ||

March 4, 2010

Alex Daue
The Wilderness Society



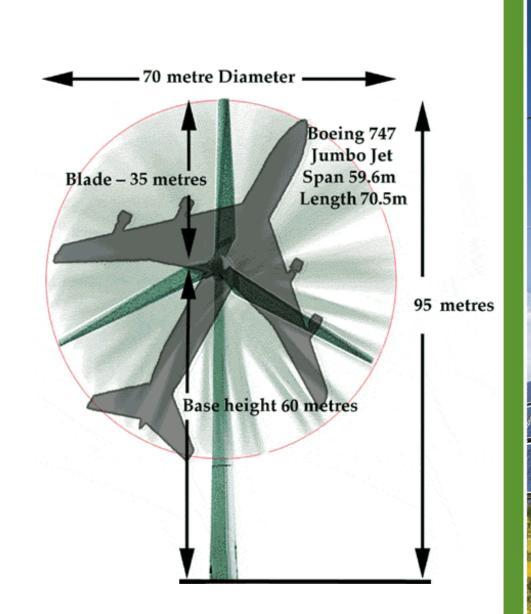
New Opportunity

- Significant resources under federal control
- But technologies have big footprints, at least for now
- Not able to mitigate all impacts including wildlife, scenic, land-use, recreational, cultural, etc.
- Not reason not to proceed, but reason to move forward intelligently
- Multiple ongoing planning efforts offer opportunities for engagement in decisions with far-reaching implications



Wind

- Wind turbines work like reverse fans
- Can produce 5 MW or more per turbine; current average 1.5-3 MW
- Towers range from about 30 to 500+ feet high
- Require about 60 acres per MW (but only 5%, or 3 acres, is directly used)



Solar - Photovoltaic (PV)



- Use semiconducting materials such as silicon to convert sunlight directly into energy
- Can use both direct and diffuse sunlight



Solar - Concentrating Solar Power (CSP)

• Use focused sunlight to create heat, which is then used to create electricity

- Require about 5 to 10 acres per MW
- Parabolic Trough
- Dish/engine
- Power Tower





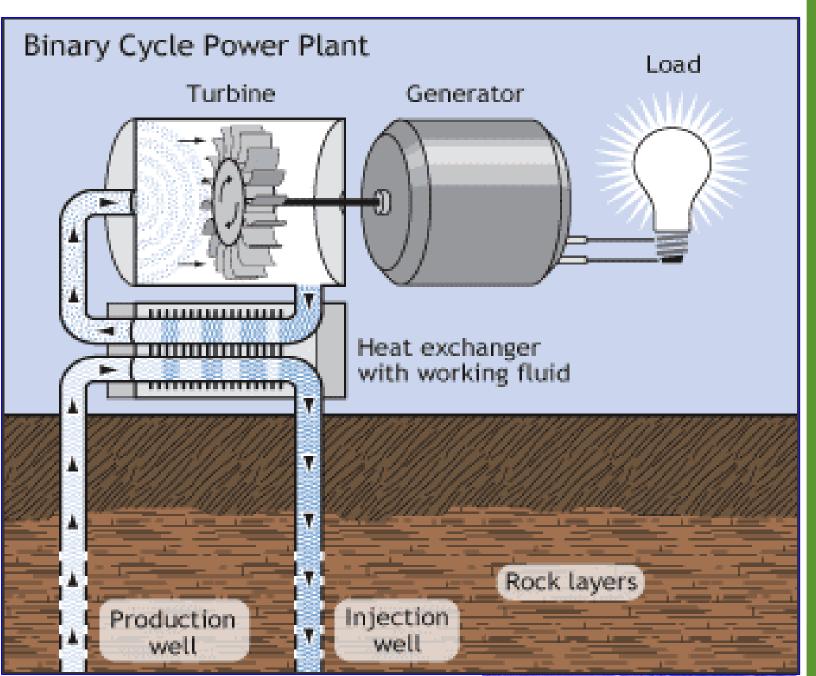




Kramer Junction Solar Plant









Starting from Scratch

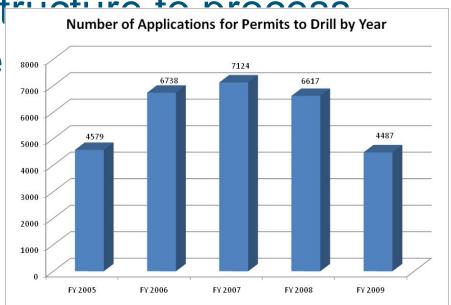
 DOI structures reflect singular focus of agency resources to oil and gas activity

Few resources, limited experience,

and little structure to process







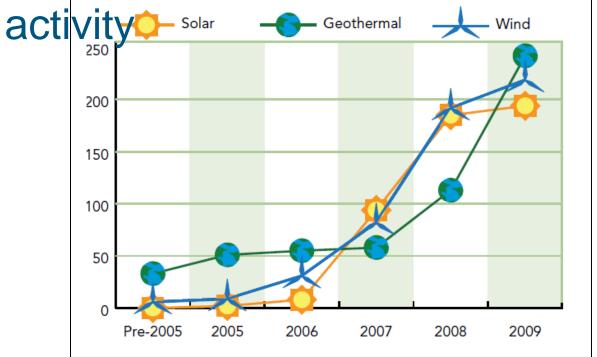


Demand is Growing

Major uptick in public land applications

• But notine presentative of prear-term

activity Solar Geothermal Wind

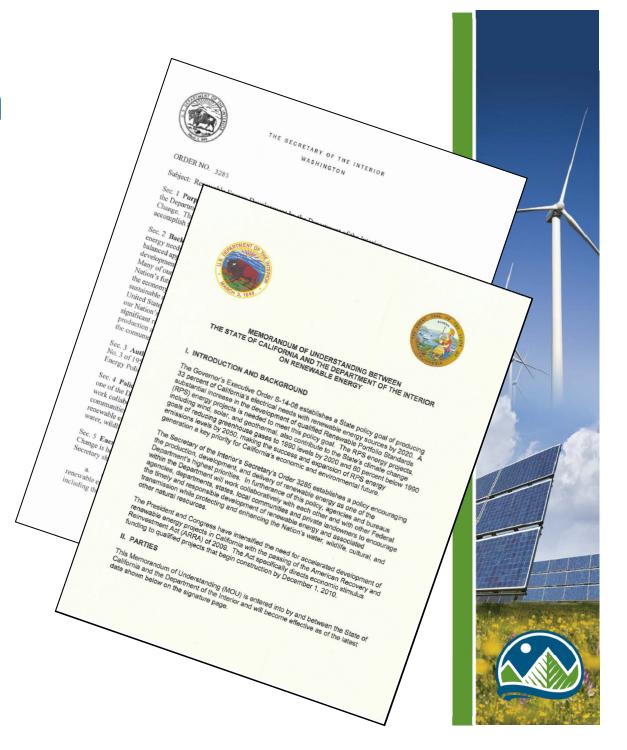


Source: The Wilderness Society analysis of BLM data, November 2009.



DOI's Vision

- Building new processes
- Learning from past mistakes
- Importance of environmental review



2010 – A Tipping Point

"34 fast-tracked projects...are currently undergoing detailed environmental impact reviews, and if ultimately approved, some 5,000-6,000 megawatts of new capacity, in California, Arizona, and Nevada, could be permitted for construction by the end of this year."

- Secretary Salazar, January 28, 2010

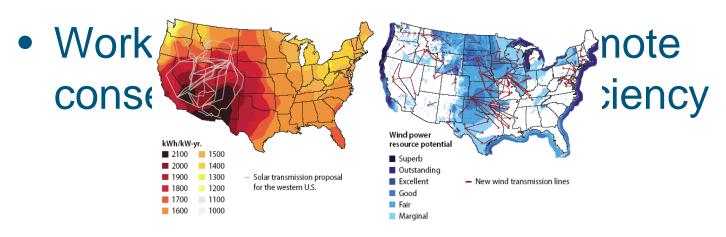






TWS Approach

- Working to instill responsible siting and development principles in law and policy
- Working with developers and partners to find suitable places in the west



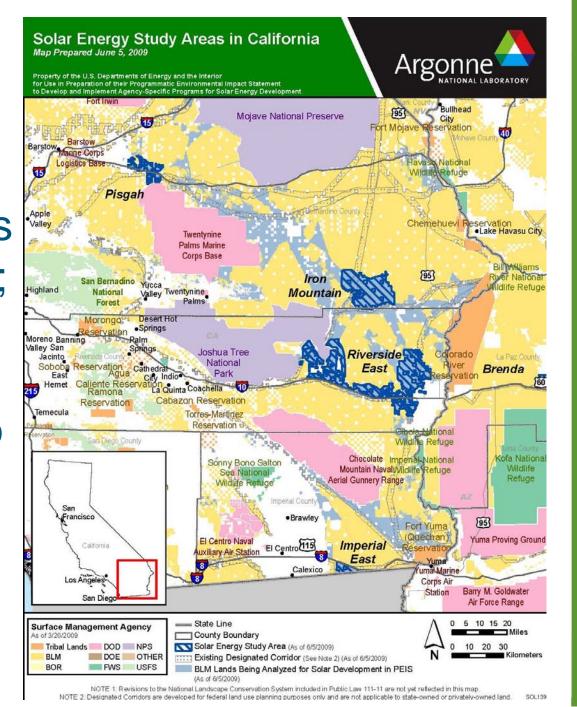


West-wide Planning Efforts

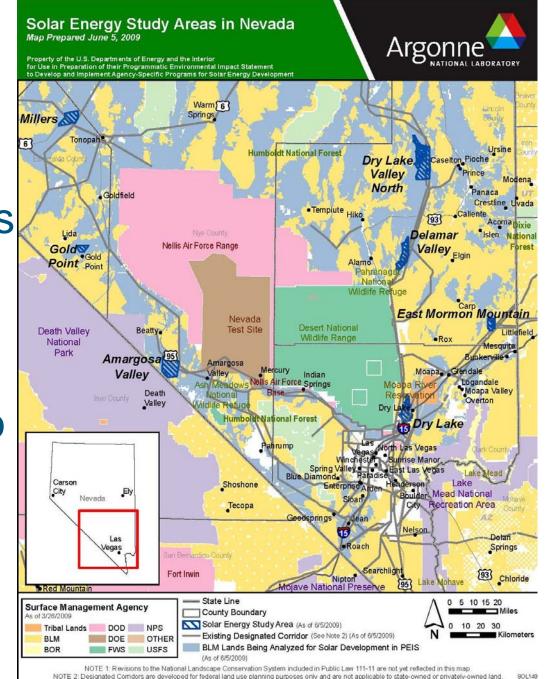
- BLM Solar Programmatic Environmental Impact Statement
- BLM Wind PEIS
- BLM/FS Geothermal PEIS
- BLM/DOE West-wide Energy Corridors
 PEIS
- Western Governors' Association Western Renewable Energy Zones project
- Other efforts (e.g. Western Electricity Coordinating Council transmission planning, etc.)



Solar PEIS: Solar Energy Study Areas - California: over 350,000 acres, up to 70,000 MW of potential if fully developed

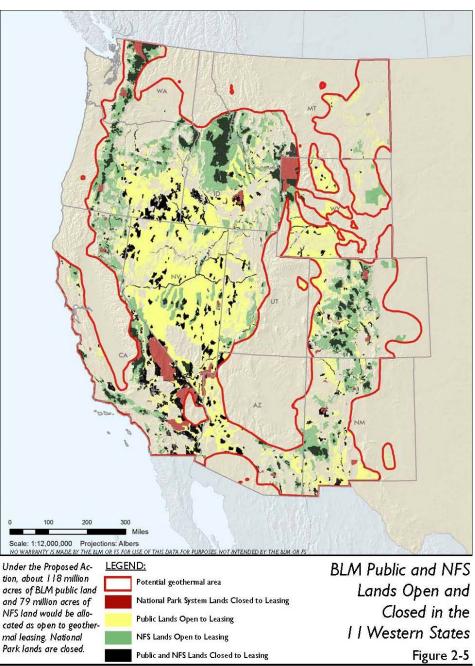


Solar PEIS: Solar Energy Study Areas – Nevada; nearly 150,000 acres, up to 29,000 MW of potential if fully developed



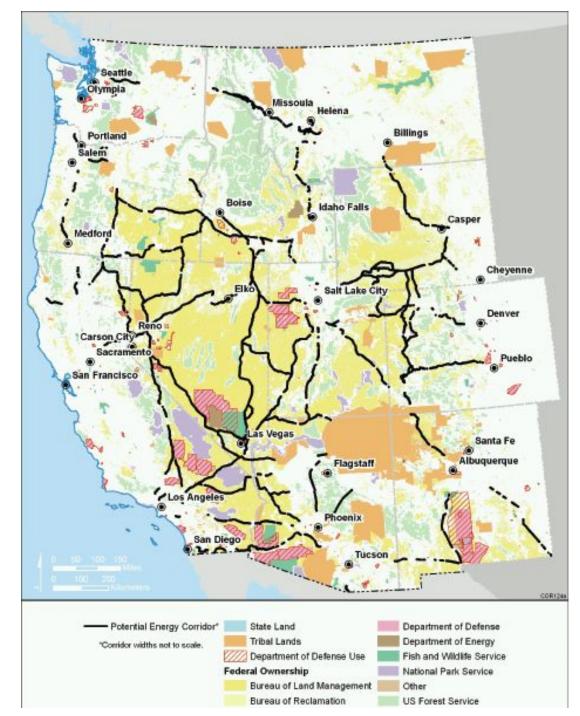


Geothermal PEIS – Areas Open and Closed to Leasing; 197 million acres open to leasing



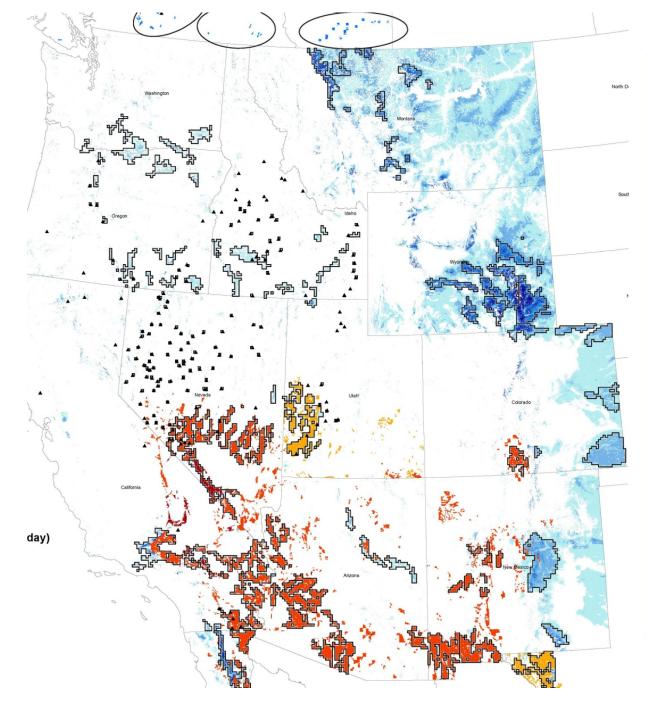


West-wide
Energy
Corridors over 6,000
miles of
corridors in
11 western
states





WGA WREZ – QRA Map over 80 million acres, 235,00 0 MW of potenti al





Opportunities

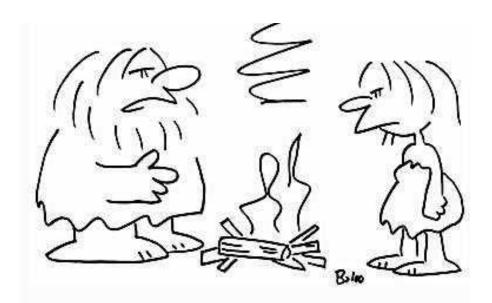
- Partnering to find fast tracks, other projects we can support
- Engaging in planning initiatives
- Pushing for creative solutions like reusing brownfields for renewable







Questions – at end of panel



"Of course it's renewable — you just throw more sticks on it!"

www.wilderness.org



