

CEERT



Land Use and Renewables in the Desert

April 22, 2010

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Center for Energy Efficiency and Renewable Technologies



CENTER FOR ENERGY EFFICIENCY AND RENEWABLE TECHNOLOGIES, SACRAMENTO, CALIFORNIA

"Providing global warming solutions for California and the West"

California Policy Targets

On Going Goals

Protect State and Federal listed Species

Protect Ecosystems and Wildlife Corridors

Finite Goals

20% Renewables Energy by 2010

33% Renewable Energy by 2020

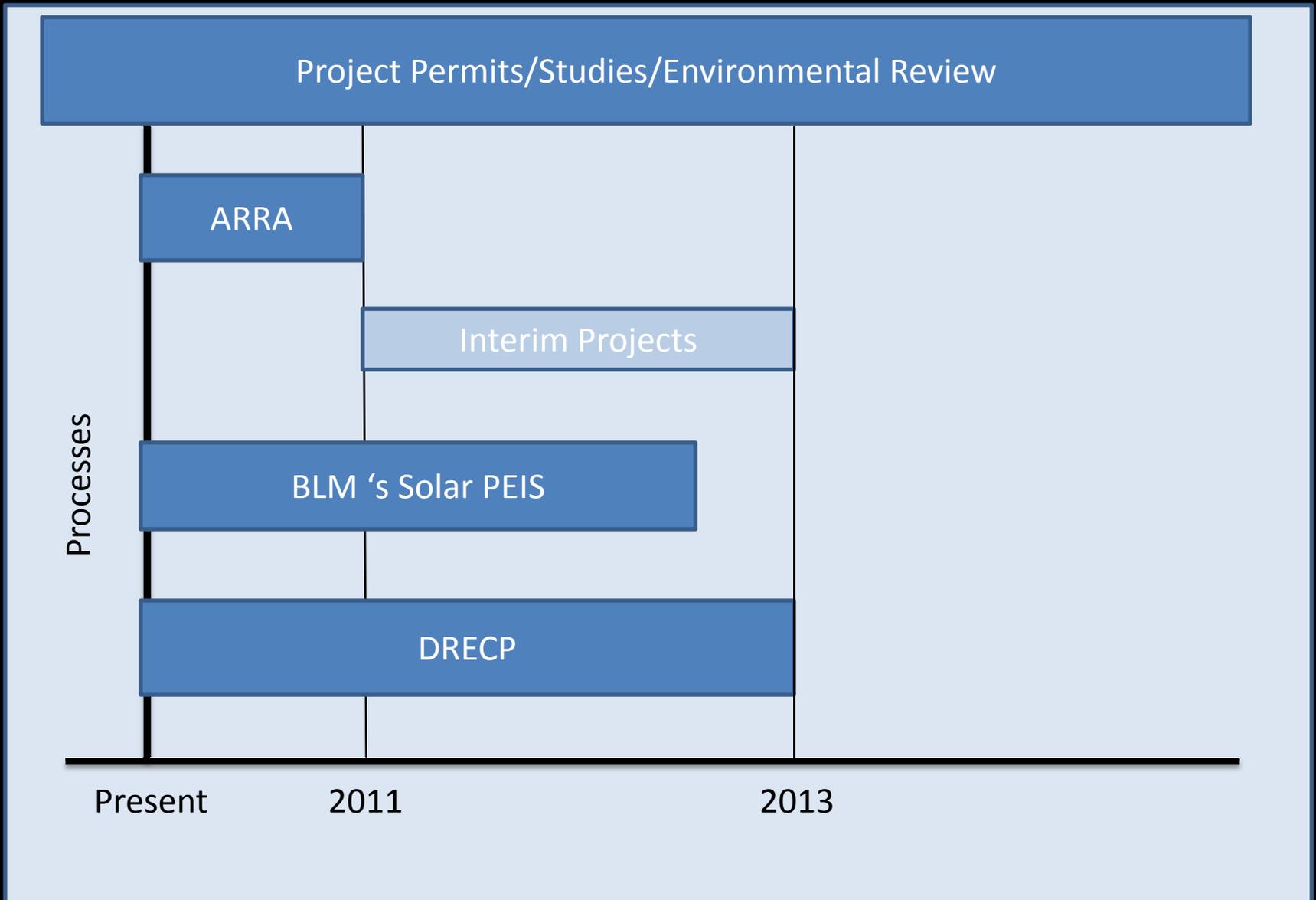
80% Reduction in Greenhouse Gases by 2050

Renewable Energy Challenges

- Project Siting and Permitting
- Transmission Siting

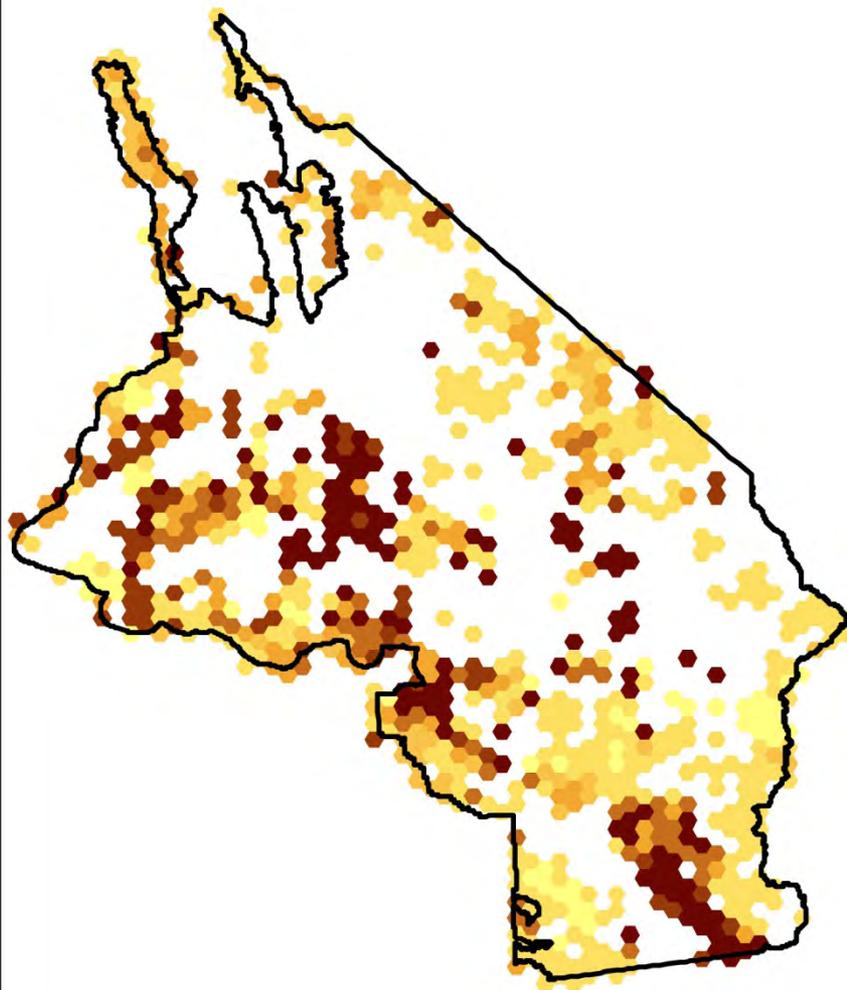


Timeline of Permitting Processes

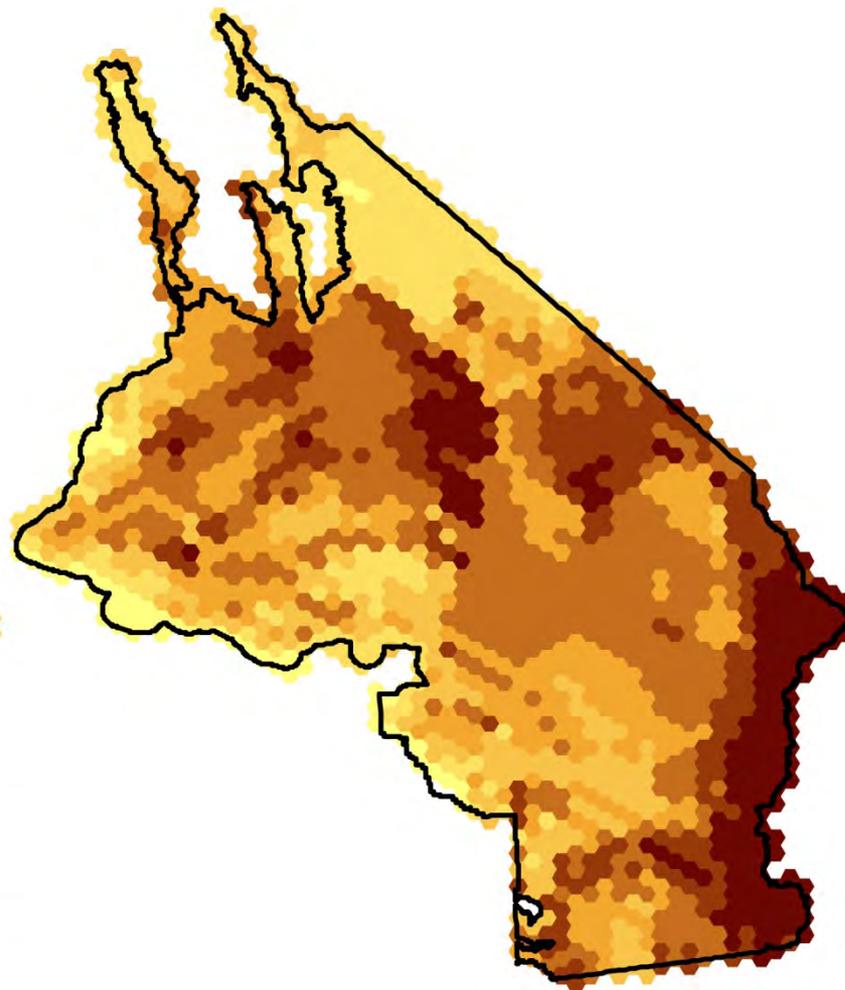


SPECIES SENSITIVITY RANKING

March 23, 2010



PLANTS

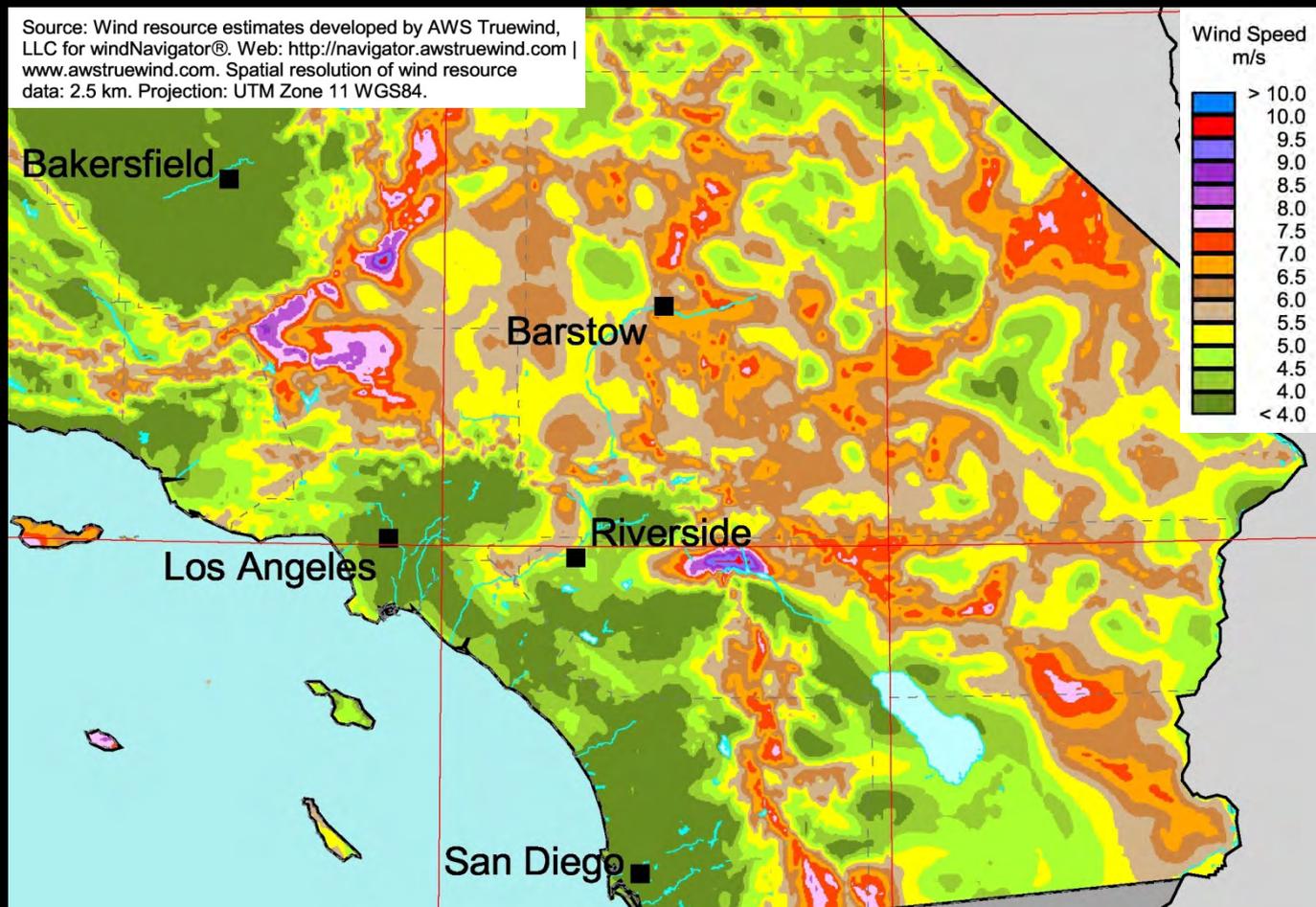


WILDLIFE

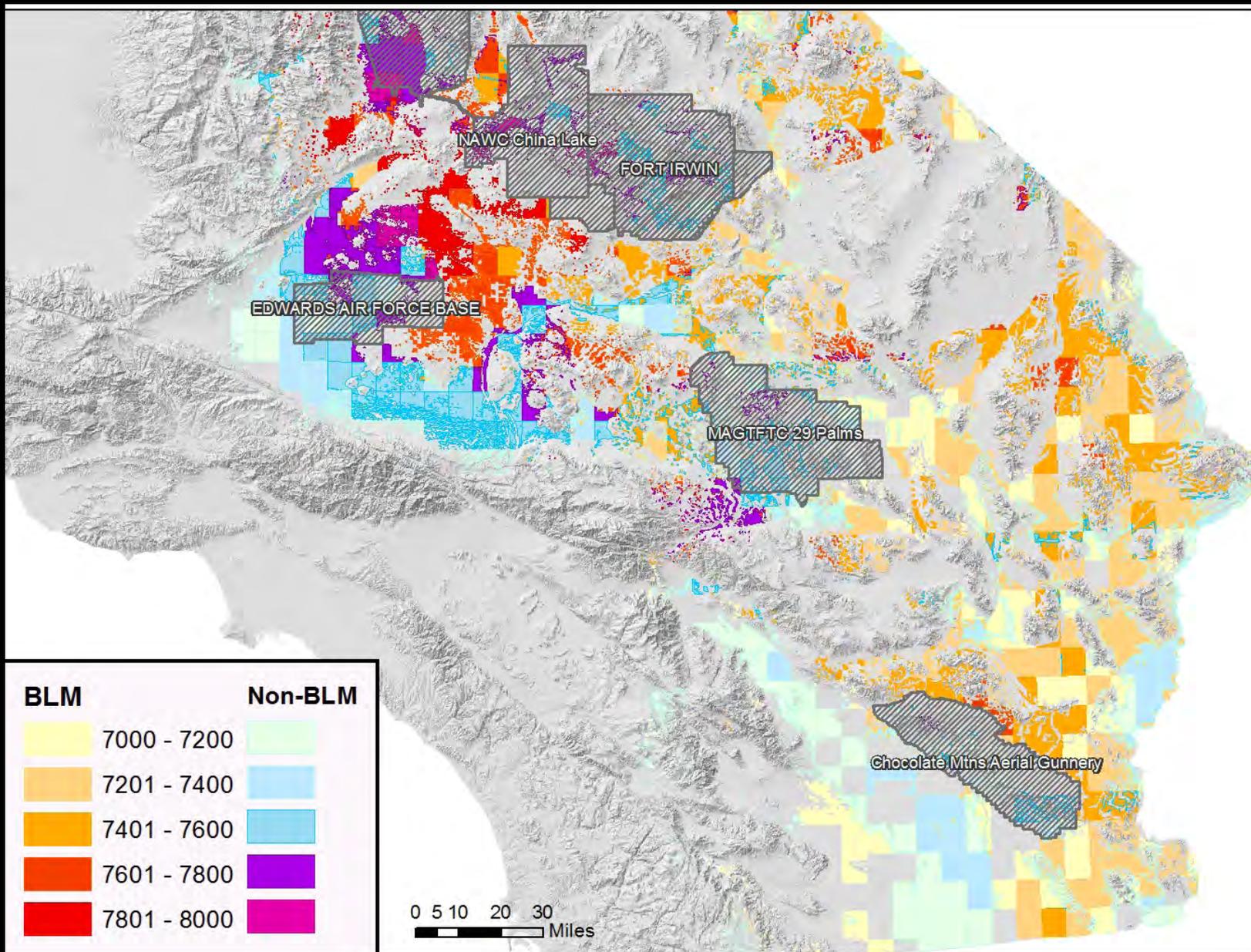
*The darker the color the higher the sensitivity.

Wind Resources in Southern California

Source: Wind resource estimates developed by AWS Truewind, LLC for windNavigator®. Web: <http://navigator.awstruewind.com> | www.awstruewind.com. Spatial resolution of wind resource data: 2.5 km. Projection: UTM Zone 11 WGS84.



Solar Resources with in DRECP area



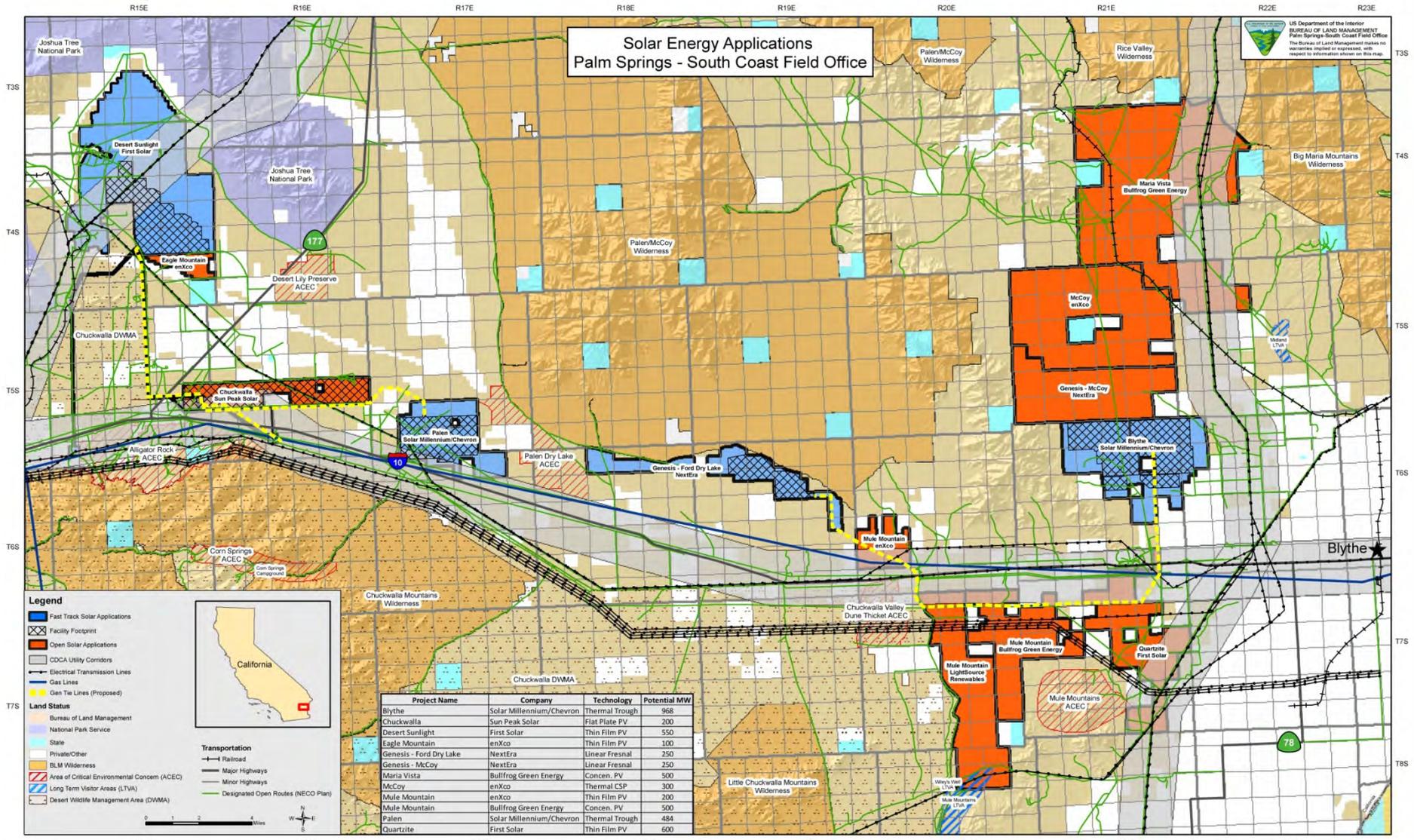
Land Use in California's Desert Region

Land Use	Acres
Desert Tortoise (Protected)	4.8 Million
Mojave Ground Squirrel (Protected)	1.7 Million
Defense Department	3.3 Million
Off Highway Vehicles	0.7 Million
Renewable Generation (needed for 2020 Goals)	0.05 Million
Mitigation for Renewables	?

Note: Feinstein's Monument would take almost 1 million acres "off the table"

Solar Energy Applications Palm Springs - South Coast Field Office

US Department of the Interior
BUREAU OF LAND MANAGEMENT
Palm Springs - South Coast Field Office
The Bureau of Land Management makes no
warranties implied or expressed, with
respect to information shown on this map.



Legend

- Fast Track Solar Applications
- Facility Footprint
- Open Solar Applications
- CDDA Utility Corridors
- Electrical Transmission Lines
- Gas Lines
- Gen Tie Lines (Proposed)

Land Status

- Bureau of Land Management
- National Park Service
- State
- Private/Other
- BLM Wilderness
- Area of Critical Environmental Concern (ACEC)
- Long Term Visitor Areas (LTVAs)
- Desert Wildlife Management Area (DWMA)

Transportation

- Railroad
- Major Highways
- Minor Highways
- Designated Open Routes (NECO Plan)

Scale: 0 1 2 4 Miles

California map inset showing the location of the field office.

Project Name	Company	Technology	Potential MW
Blythe	Solar Millennium/Chevron	Thermal Trough	968
Chuckwalla	Sun Peak Solar	Flat Plate PV	200
Desert Sunlight	First Solar	Thin Film PV	550
Eagle Mountain	enXco	Thin Film PV	100
Genesis - Ford Dry Lake	NextEra	Linear Fresnel	250
Genesis - McCoy	NextEra	Linear Fresnel	250
Maria Vista	Bullfrog Green Energy	Concen. PV	500
McCoy	enXco	Thermal CSP	300
Mule Mountain	enXco	Thin Film PV	200
Mule Mountain	Bullfrog Green Energy	Concen. PV	500
Palen	Solar Millennium/Chevron	Thermal Trough	484
Quartzite	First Solar	Thin Film PV	600

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