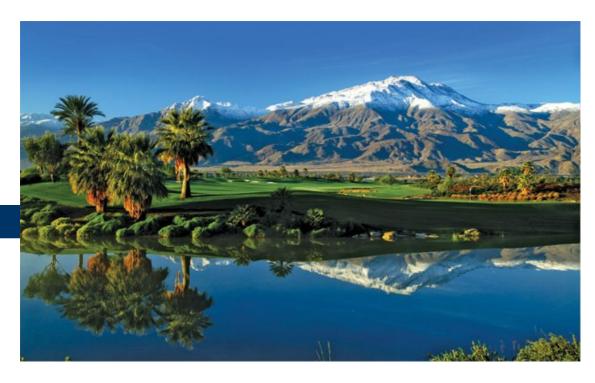
Kicking the Dirt – How Energy is Changing Land Use and Values

Elizabeth M. Kiley, MAI

Kiley Company Real Estate Appraisers What effect is the push for renewable energy having on planning, highest and best use, and land values?



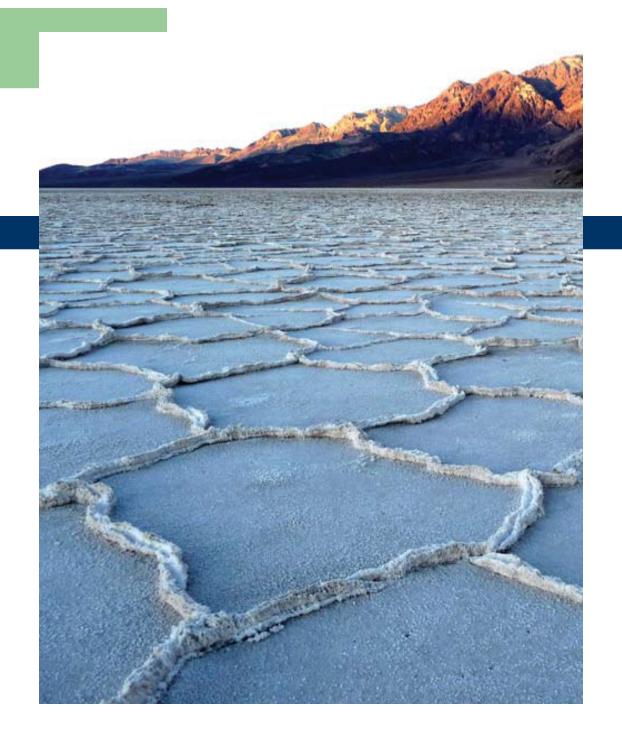






- Lack of access
- Lack of water
- Lack of utilities
- Lack of population





Military Base



Keane Wonder Mine – now vacant





Open-pit borax mine (1970s) near Dante's View Road



Target Practice





Supply... Who Owns It?

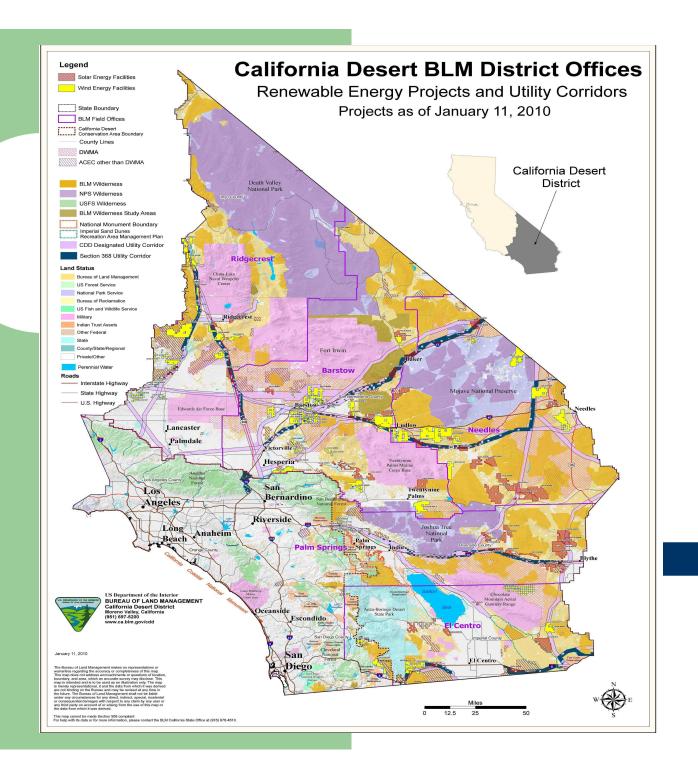










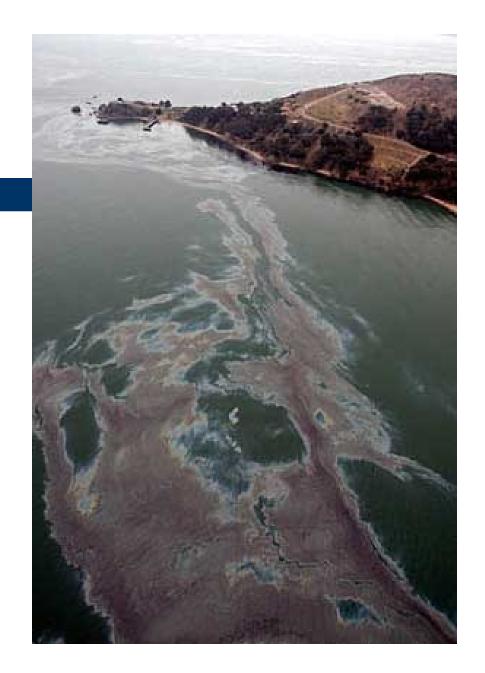


What has changed?

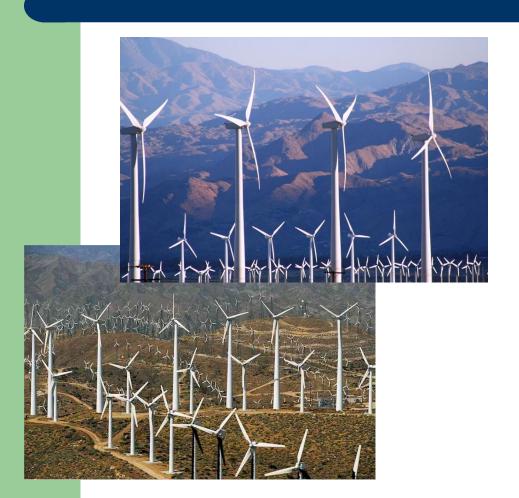


Drill Baby, Drill!

Environmental Issues



Improved Technology





Blame it on the Government...



Timeline for Electricity from Renewable Resources

- 2006: Senate Bill 107 codified the accelerated 20% by 2020 deadline into law
- 2008: Governor Schwarzenegger issues Executive Order requiring 20% renewables by 2010 and 33% by 2020

Government Incentives

American Recovery and Reinvestment Act

• \$314 Million





New Land Market

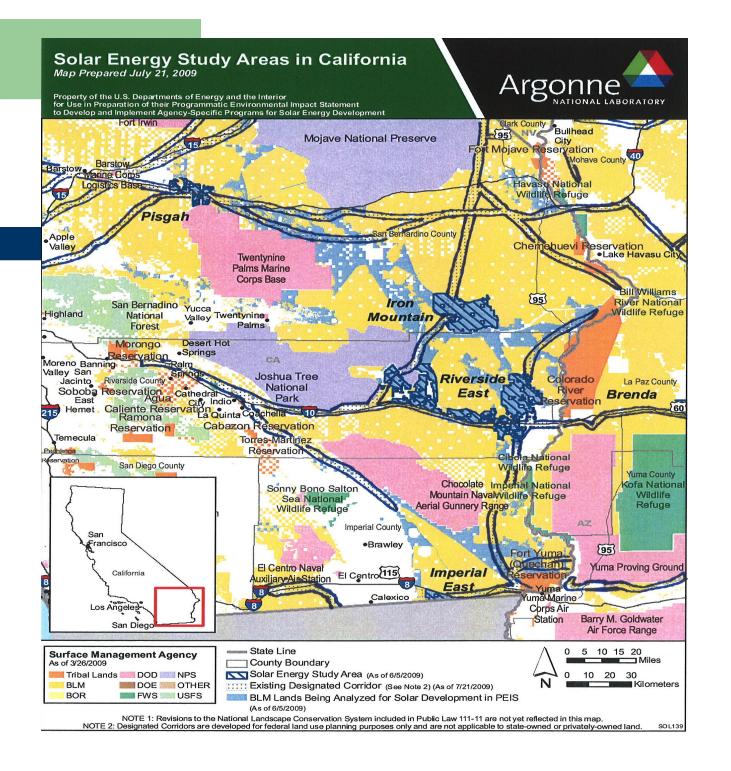


Where are we now?

It's all about you...

- Southern California Edison
- Department of Water and Power





New Solar Thermal Projects -California Energy Commission

Project Name and Applicant	Location	Size & Technology (megawatts)	Lead Agency	Status*
<u>Victorville 2 Hybrid Power Project</u> City of Victorville	Victorville	563 MW 513 MW natural gas 50 MW solar trough	Energy Commission	APPROVED AFC filed 2/28/07 Approved 7/16/08
Projects	50 MW			
Ivanpah Solar Solar Partners/Brightsource	San Bernardino County	400 MW solar tower	Energy Commission	Under Review AFC filed 8/31/07
Carrizo Energy Solar Farm Carrizo Energy LLC	San Luis Obispo County	Withdrawn	Energy Commission	Withdrawn
Beacon Solar Energy Project Beacon Solar LLC	Kern County 250 solar		Energy Commission	Under Review AFC filed 3/14/08
Imperial Valley Solar Project (Formerly SES Solar Two Project) Imperial Valley Solar LLC	Imperial County	750 MW Stirling engine	Energy Commission	Under Review AFC filed 6/30/08
<u>City of Palmdale Hybrid Gas-Solar</u> City of Palmdale	Palmdale	617 MW 555 MW natural gas 62 MW solar trough	Energy Commission	Under Review AFC Filed 8/4/08
San Joaquin Solar 1 & 2 San Joaquin Solar LLC	Fresno County	106.8 MW solar trough / biomass hybrid	Energy Commission	Under Review AFC Filed 11/26/2008
Calico Solar Project (Formerly SES Solar One Project) Calico Solar LLC/Tessera Solar (formerly Stirling Energy Systems)	San Bernardino County	850 MW Stirling engine	Energy Commission	Under Review AFC Filed 12/2/2008
Genesis Solar Genesis Solar LLC / NextEra™ Energy Resources LLC	Riverside County	250 MW solar trough	Energy Commission	Under Review AFC Filed 8/31/2009
Abengoa Mojave Solar Project Abengoa Solar Inc.	San Bernardino County	250 MW solar trough	Energy Commission	Under Review AFC Filed 8/10/2009
Solar Millennium Palen Solar Millennium LLC	Riverside County	484 MW solar trough	Energy Commission	Under Review AFC Filed 8/24/2009
Solar Millennium Blythe Solar Millennium LLC	Riverside County	1,000 MW solar trough	Energy Commission	Under Review AFC Filed 8/24/2009
<u>Solar Millennium Ridgecrest</u> Solar Millennium	Kern County	250 MW solar trough	Energy Commission	Under Review AFC Filed 9/1/2009
Rice Solar Energy Project Rice Solar LLC / SolarReserve LLC	Riverside County	150 MW central tower	Energy Commission	Under Review AFC Filed 10/21/2009
Projects Und	4,802.8 MW			

^{*} AFC = Application For Certification is the license application filed with California Energy Commission for thermal power plants 50 megawatts or larger.

Megawatt

One megawatt is enough electrical capacity to power 1,000 average California homes per year



Geothermal Energy











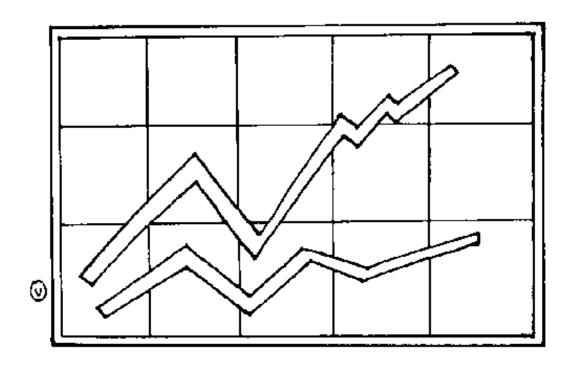






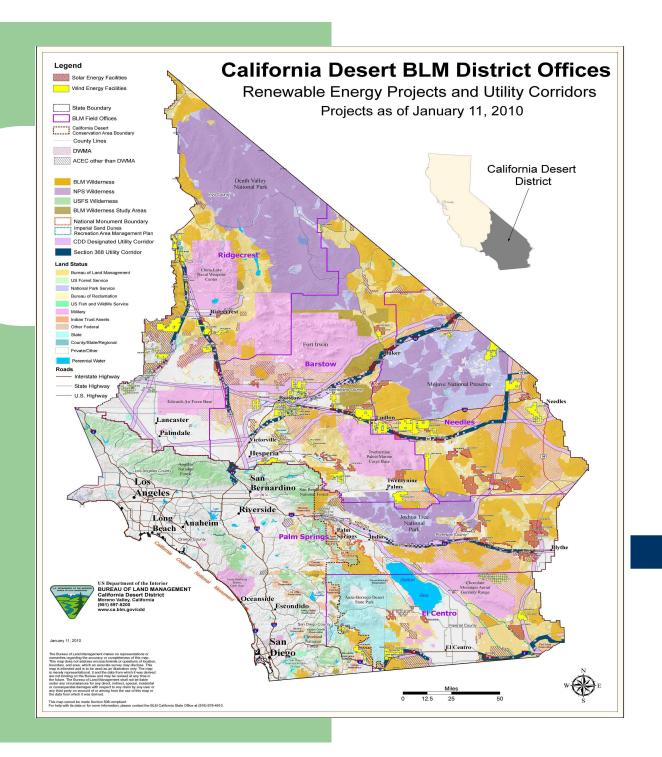
photo: Bernard Peyton

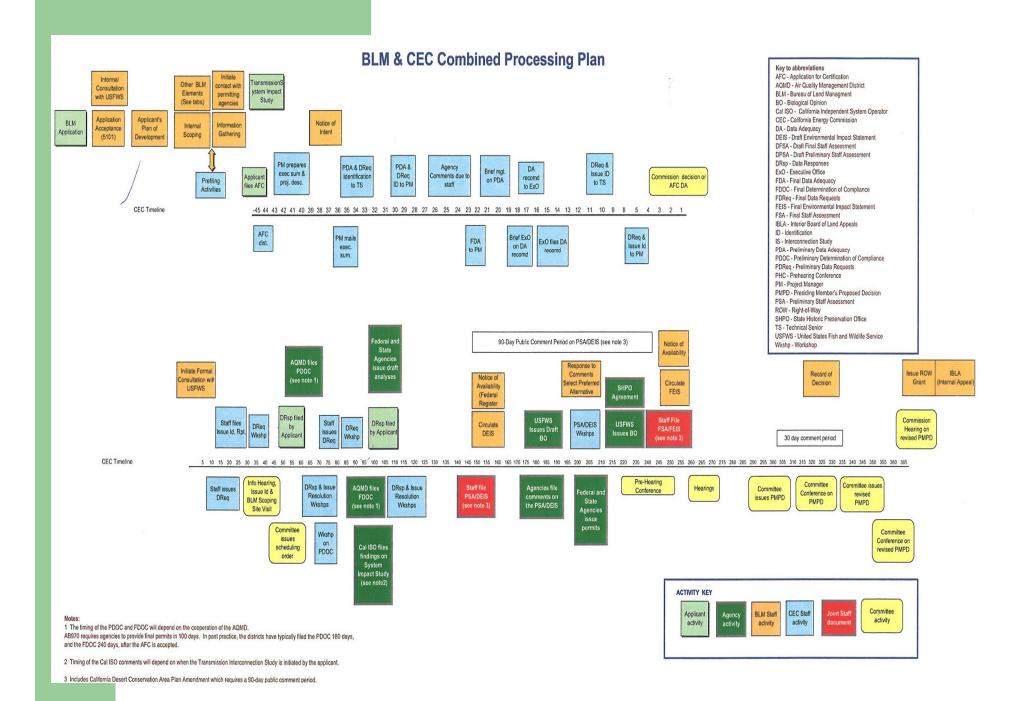
What is happening to land values?





What is changing in land use?





Older Sales

Location	Date Sold	Size- Acres	Use	Price Per Acre	
Banning	July-08	430	Vacant/Residential/SCE	\$1,802	
Hinkley	February-08	3484	Investor - next to power plant	\$1,625	
Barstow	May-08	640	Mining	\$3,125	
Hinkley	May-07	2594	Commercial solar with water	\$11,563	
Thousand Palms	November-07	286		\$3,494	

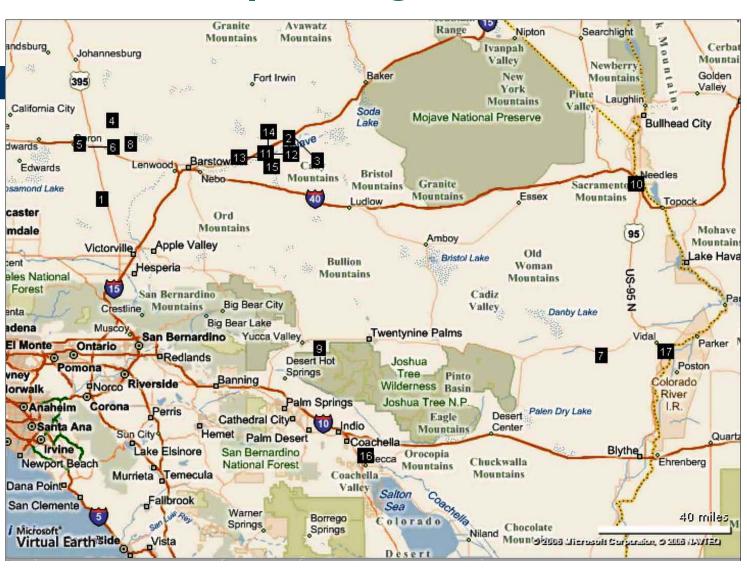
Pending Sales

	Address	City	Use	Size- Acres	Asking Price Per Acre	Sale Info
1	8000 Princess Pat Mine Road	Adelanto		240	\$9,166	Pending
2	Field Road	Barstow		295	\$3,724	Pending
3	I-15	Barstow		840	\$1,547	Escrow
4	Highway 395	Barstow		640	\$1,500	Under Contract
5	Kramer Junction	Boron		317	\$7,500	Escrow
6	Kramer Junction	Boron		453	\$9,456	Escrow
7	(East) Midland Road	Desert Center		3324	Not available	Pending
8	15000 Lockhart Road Sunset Boulevard and Skyline	Hinkley		305	\$5,727	Pending
9	Drive	Joshua Tree		955	\$4,083	Escrow
10	Parkway Drive and Lillyhill Drive	Needles Newberry		630	\$7,142	Escrow
11	I-15 at Harvard Road	Springs Newberry		480	\$14,999	Escrow
12	I-15 at Harvard Road	Springs Newberry		160	\$14,896	Escrow
13	I-15	Springs Newberry		120	\$15,049	Escrow
14	I-15	Springs Newberry		180	\$20,146	Escrow
15	Riverside Drive at Troy Road	Springs		158	\$3,115	Under Contract
16	59375 Lincoln Street	Thermal		157	\$39,950	Escrow
17	Highway 95	Vidal		280	\$1,071	Escrow

Listings

Location	Status	Size- Acres	Use	Price Per Acre
Newberry Springs	For Sale	225	Solar	\$10,000
Adelanto	For Sale	640	Solar	\$2,657
Adelanto	For Sale	240	Solar or airfield	\$9,166
N. Palm Springs	For Sale	675	Existing wind	\$14,814
Barstow	For Sale	515.94	Solar - Power	\$2,519
* no legal access				
Barsow	For Sale	295	Solar	\$3,724
Hinkly	For Sale	1,144	Solar	\$3,933
Newberry Springs	For Sale	640	Wind	\$3,966
Within 2.5 miles of major transmission corridor - other sites approximate				
Ludlow	For Sale	321	Mitigation	\$2,992
Palm Desert	For Sale	480	Solar	\$4,000
Barstow	For Sale	646		\$2,321
Barstow	For Sale	160	Wind	\$4,062

Locations of pending sales



Alphabet Soup

- AFC Application for Certification
- **AQMD** Air Quality Management District
- **BLM** Bureau of Land Management
- BO Biological Opinion
- Cal ISO California Independent System Operator
- **CEC** California Energy Commission
- DA Data Adequacy
- DEIS Draft Environmental Impact Statement
- **DFSA** Draft Final Staff Assessment
- DPSA Draft Preliminary Staff Assessment
- **DRsp** Data Responses
- ExO Executive Office
- FDA Final Data Adequacy
- **FDOC** Final Determination of Compliance
- FDReq Final Data Requests
- **FEIS** Final Environmental Impact Statement

- FSA Final Staff Assessment
- **IBLA** Interior Board of Land Appeals
- ID Identification
- IS Interconnection Study
- PDA Preliminary Data Adequacy
- PDOC Preliminary Determination of Compliance
- PDReq Preliminary Data Requests
- PHC Prehearing Conference
- **PM** Project Manager
- PMPD Presiding Member's Proposed Decision
- PSA Preliminary Staff Assessment
- **ROW** Right-of-way
- SHPO State Historic Preservation Office
- TS Technical Senior
- USFWS United States Fish and Wildlife Service
- Wkshp Workshop

Broker Reports

- Interest is increasing
- Have not closed any long term deals, yet
- They have two pending sales of large mitigation properties, where solar developers are buying land as mitigation for other projects
- Buyers want disturbed land
- Solar over 200 acres
- \$1 million per mile to construct transmission lines

See you in the future!





Case Study

Coldwater Ranch

80 Acres
68th Avenue West of Lincoln Street
Mecca, CA
North of the Salton Sea

Current Use

- Duck Club
 - Well
 - Ponds
 - Dikes
 - SFR



Potential Uses

- Agriculture Corn/Alfalfa
- Fish Farm Catfish
- Water Banking
- Geothermal?
- Residential?



Key Factors

- Physical
 - Level-size
 - Has water and hot water
 - Near freeway, main road
 - Path of Residential Development

Details of a Deal

California City

588 Acres
Off Highway 14
Los Angeles County
Solar Potential



- Asking Price: \$4,900 per acre
- Option Price: \$5,000 per acre (slightly above asking price)
- Option to purchase: Long term 5 years typical
- With option payments:
 - Price increases slightly, if more than 2 years
- Buyer is working on getting approvals:
 - Power purchase agreement with D.W.P
 - County approvals