Presentation to

Arizona Chapter of ASFMRA



February 26, 2010







NextLight Renewable Power, LLC

NextLight Renewable Power

- The largest independent utility-scale solar developer in the U.S.
 - Technology-neutral
 - Develop, construct, own, and operate solar generating facilities
 - Formed in late 2007 by Energy Capital Partners
 - The experienced development team has built over 8,000 MW of fossil fuel and renewable generating facilities in the Western U.S.
 - NextLight management has procured over 3,000 MW of renewable contracts for utilities

Energy Capital Partners

- Superior access to capital and financing expertise
 - \$2.25 billion private equity fund based in Short Hills, NJ
 - 120 investors include pension funds and university endowments

NextLight Project Portfolio

- An advanced development portfolio of 1,320 MW
 - Eight projects in three states
 - Five of the eight can start construction in 2010
 - 570 MW under PPA
 - 3,487 MW in early development throughout the Western U.S.



NextLight Portfolio NextLight's Geographic Footprint



NextLight Renewable Power, LLC

Solar Technology – CSP



http://greenlight.greentechmedia.com/wp-ontent/uploads/2008/12/csp-ausra1.jpg



NextLight Renewable Power, LLC Solar Technology – Photovoltaic



http://3.bp.blogspot.com/_Wylc2oXjvmc/R08HzeboWPI/AAAAAAAAAAU0/wwNTfiB9T58/s400/Nano%2BSc lar%2Broof1.jpg



The Value of Solar Power





- Solar power is generated when demand is at or near its highest
- Valuable form of generation for utilities and consumers
- Solar thermal projects can incorporate thermal storage to better coincide with demand peaks
- Solar plants are compensated for providing super-peak power through time-of-day adjustments to a fixed payment under a long-term power purchase agreement



NextLight Renewable Power, LLC

Public Policy Drives Solar Power Development

Federal State Local

- Tax benefits
- Wholesale price regulation (FERC)
- Transmission access (FERC)
- Environmental permitting (BLM)

- Renewable Portfolio Standards (RPS)
- Resource planning
- Regulation of retail rates
- Transmission siting
- Environmental
 permitting

- Zoning and land use planning
- Environmental permitting
- Local public opinion



NextLight Renewable Power, LLC

State Policy Drives Demand for Renewable Energy



Elements of a "Typical" RPS Program – California

Eligibility	Solar, wind, geothermal, biomass, tidal, small hydro		
Target	20% of retail energy sales served by renewable resources in 2010		
Obligated Entities	Investor-owned utilities (e.g., SCE, PG&E); energy service providers; community choice aggregators must meet RPS. Publicly owned utilities (e.g., LADWP) have no obligation		
Geographic Limits	Renewable power must be generated in California or produced for California consumers by plants located in neighboring states		
Manner of Purchase	Annual solicitations for long-term (i.e., 10 years or more); bids are rank ordered by cost and "fit"; some bilateral and short term contracts permitted, subject to cost cap; unbundled Renewable Energy Credits do not count for regulatory compliance		
Noncompliance Penalties	Up to 5 cents/kWh capped at \$25 million annually		
Cost Caps	Market Price Referent (an administratively-determined reasonableness benchmark based on long-term cost of a new combined cycle turbine) established annually; costs in excess of MPR capped at \$700 million		



NextLight Renewable Power, LLC Impact of Adopting 33% RPS in California



The CPUC reported to the California legislature that achieving a 33% RPS may require a \$60 billion investment



Western States: Demand for Renewable Power



Over the next decade Arizona will become a net exporter of Renewable Energy



From Market Need to Generation Resource



Siting Process





Strong Solar Resource Where RPS Demand is High



Southwest solar resource is world class

- +7.5 KWh/m2/day
- Highest direct normal insolation is located in areas of high RPS: CA, AZ, NM, NV, CO, UT
- Solar energy is the most widely distributed of all renewable resources
- Approximately 50,000 MW solar thermal capacity per pixel



NextLight Renewable Power, LLC Development Lands are Scarce



- Environmentally Sensitive
- Critical Habitat
- DOD installations
- Urban Areas
- Airports
- Tribal lands
- Water Bodies and Rivers
- Slope greater than 5%
- Williamson Act lands



Detailed Screening is Necessary to Identify Solar Areas



- Geographical information system analysis is utilized to identify high value areas
- Exclusionary criteria
- Avoidance criteria
- Preference criteria:
 - High solar resource
 - Low slope, water supply
 - Near transmission, gas
 - Low value land
- Field investigation is the next step



Arizona Site Control Options

Private Land	BLM Lands	Tribal Lands	State Lands
 Pros State and local jurisdiction for major permits Immediate site control Cons Holding costs and potential property purchase during development period 	Pros•Limited or no land holding of developmentCons•Federal jurisdiction and NEF permits•Record of Decision grants R permit and development pro	 <u>Pros</u> State and local jurisdiction for major permit <u>Cons</u> Arizona requires auction process to establish site control (12-18 months) 	
Site control of 3,800 acres; 5,400 acres in LOI/Feasibility Phase	80,000 acres of BLM land serialized in Arizona	Partnered with Tribal consortium to advance projects on Tribal lands	Stand alone lease or complement to private land acquisitions



The Transmission Development Timeline is Long

- A new regional transmission line takes 7 10 years to develop and construct
- A power plant takes only 3 5 years to develop and construct



 \leftarrow 2-3 years $\rightarrow \leftarrow$ 12-18 months \leftarrow 2-3 years $\rightarrow \leftarrow$ 2-3 years $\rightarrow \leftarrow$



Arizona Needs More Transmission to Access Renewables



Figure 3: A Potential Configuration for Transmission to Serve All Available Renewable Resources in Arizona

NextLight" Renewable Power, LLC

Fifth Biennial Transmission Assessment, for2008-2017. July 18, 2008. Docket E00000D-07--0376

NextLight Renewable Power, LLC Agua Caliente Solar Project

- 290 MW PV technology
- Excellent Solar Insolation
- Located 65 miles east of the City of Yuma, near the communities of Dateland and Hyder
- 3,800 acre site, historically used for agriculture, is level
- SUP and CEC obtained in Fall 2009
- Interconnecting to the Hassayampa-North Gila 500 kV TX line, the project uses existing transmission infrastructure
- Delivery to the CAISO makes project eligible for CA RPS
- 25 year contract with PG&E
- Construction beginning in 2010,





Agua Caliente Solar

Project Benefits

Economic Benefits

- Job Creation
 - Hundreds of jobs during construction
 - Between 20 & 50 permanent full time jobs during operations
- Capital Cost Basis of over \$1 billion

Environmental Benefits

- PV technology very low water use
- Located on previously disturbed land. No environmental issues.
- Minimal air emissions associated with power generation
- Low maintenance

Public Policy

- Contributes to Federal and State goals to increase renewable energy and reduce greenhouse gas emissions
- Supports regional energy diversity and creates near term green jobs





Agua Caliente Solar Project





Questions?



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