

FIFTH MEETING OF THE
**SCIENCE, TECHNOLOGY AND
TELECOMMUNICATIONS COMMITTEE**
OF THE NEW MEXICO STATE LEGISLATURE



SUNZIA SOUTHWEST TRANSMISSION PROJECT

*TRANSMITTING
RENEWABLE ENERGY TO WESTERN
MARKETS AND CUSTOMERS*



TOM C. WRAY, PROJECT MANAGER

NOVEMBER 10, 2009

SUNZIA PROJECT PARTICIPANTS

- ✦ Energy Capital Partners
(equity investment fund manager)



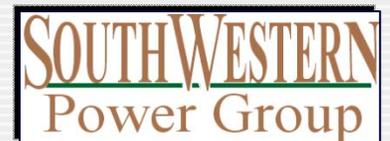
- ✦ Salt River Project
(irrigation district and Arizona utility)



- ✦ Shell WindEnergy
(a Royal Dutch Shell company)



- ✦ SouthWestern Power Group
(G&T development firm)



- ✦ Tri-State Generation and Transmission Association
(multi-state G&T association)



- ✦ Tucson Electric Power
(Arizona utility)



PROPOSED FACILITIES

- ★ Proposed Route Length ~460 Miles
- ★ Up to two 500 kVAC transmission lines
- ★ Interconnects with at least five substations (two in AZ; three in NM)
 - ★ Proposed SunZia East (Lincoln County, NM)
 - ★ Pinal Central/Tortolita (Pinal County, AZ)
- Proposed Intermediate substations:
 - Midpoint (Luna County, NM)
 - Willow (Graham County, AZ)
 - Lordsburg (Hidalgo County, NM)
 - Others (TBD)
- ★ Configuration Options:
 - ★ Two 500 kVAC lines, or
 - ★ One 500 kVAC and one 500 kVDC line
- ★ Expected power transfer capacity of over 3,000 MW or 4,500 MW with AC/DC hybrid option

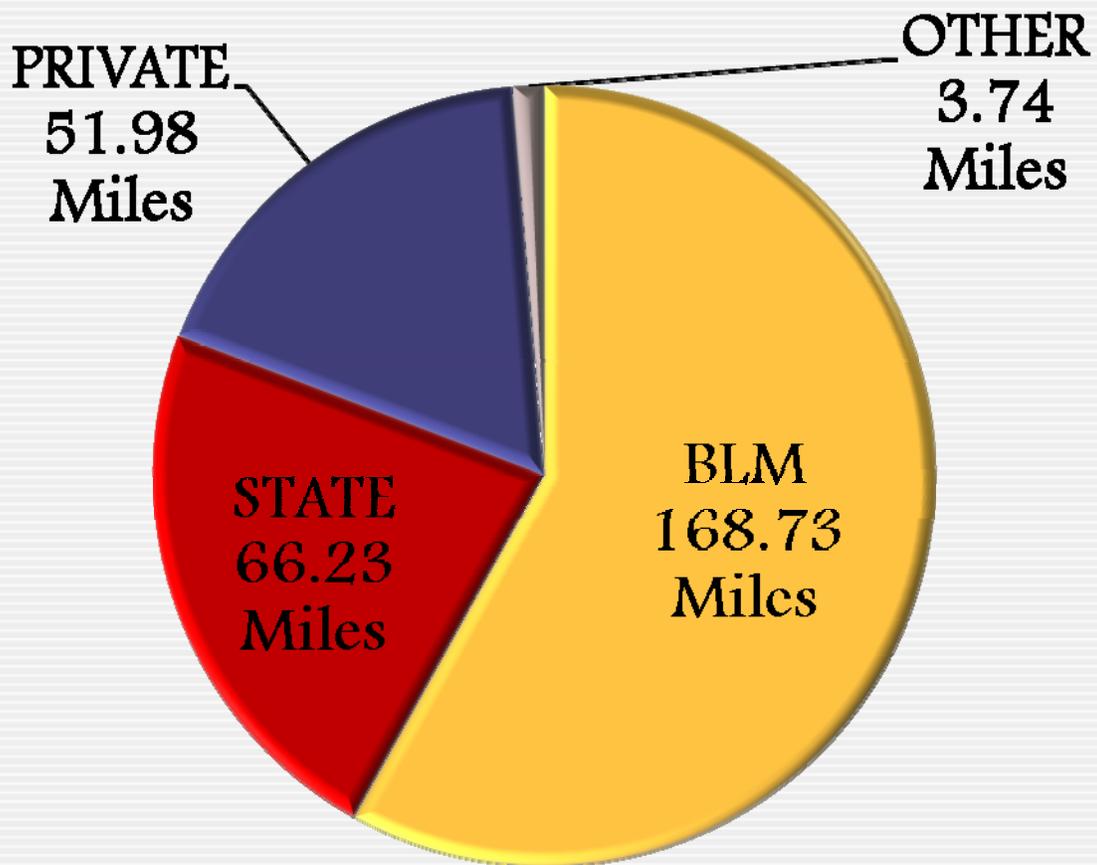


SunZia



LAND USE IN NEW MEXICO (PROPOSED ROUTE)

NM = ~290 Miles
SunZia = ~460 Miles



SunZia



SUNZIA SOUTHWEST TRANSMISSION PROJECT

PROJECT DESCRIPTION

- ★ Typical right-of-way width:
 - 200 feet per line
 - Up to 1,000 feet for two lines
- ★ All steel structures
- ★ Typical structure height:
 - 130 to 160 feet
- ★ Typical span:
 - 1,300 to 1,500 feet between structures



SunZia



SUNZIA SOUTHWEST TRANSMISSION PROJECT

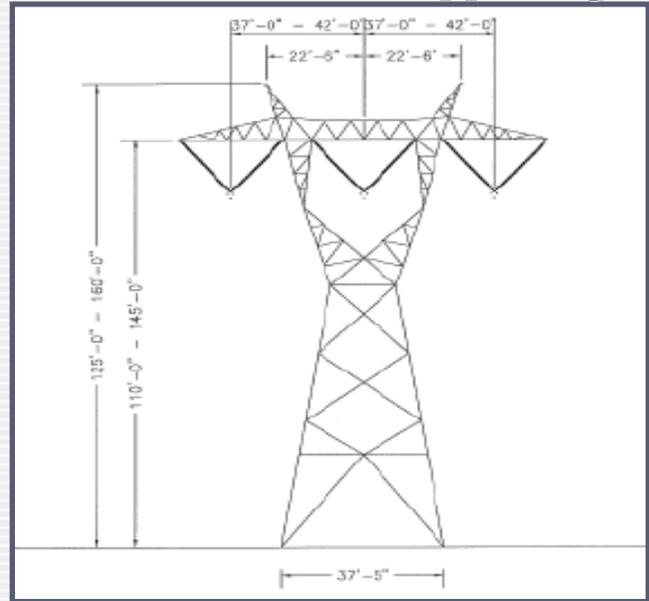
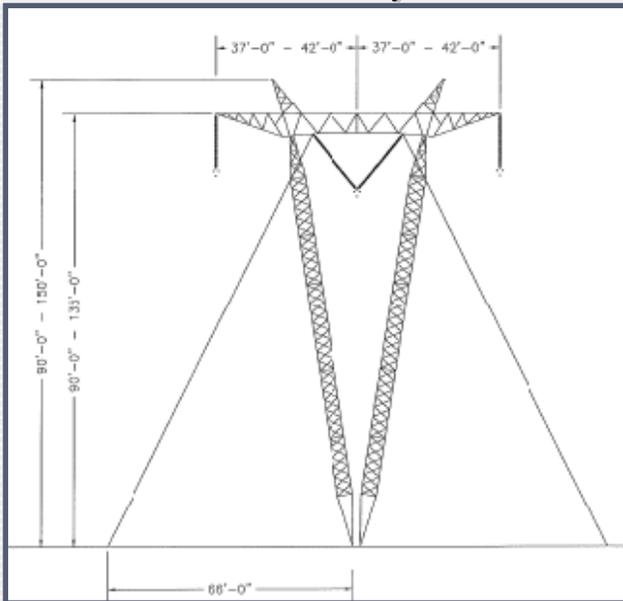
TYPICAL 500kV TOWER DESIGNS



500kV AC Guyed-V



500kV AC Self Supporting



SunZia



SUNZIA SOUTHWEST TRANSMISSION PROJECT

SUNZIA PROJECT NEED

★ Helps meet state regulatory renewable portfolio standards by enabling renewable energy development:

- ★ AZ – 15% by 2025
- ★ CA – 20% by 2010; 33% by 2020
- ★ NV – 25% by 2025
- ★ NM – 20% by 2020



SunZia



ENVIRONMENTAL IMPACT STATEMENT

Activities To-Date

- 5/29/09 Notice of Intent published in
Federal Register
- 6/22/09 Initiation of first set of public
scoping meetings (9 locations in
AZ and NM)
- 8/28/09 Close of first Scoping Period
- 9-10/09 Response to public comments:
expanded study area and
additional routes
- 10/26/09 Initiation of second set of public
scoping meetings (3 locations in
NM)
- 11/27/09 Close of second Scoping Period



ATTENDANCE TO PUBLIC SCOPING MEETINGS IN NM

Meeting Date	Location	Public in Attendance ¹
New Mexico Communities		
June 30, 2009	Lordsburg	13
July 1, 2009	Deming	31
July 7, 2009	Socorro,	26
July 8, 2009	Carrizozo	52
July 9, 2009	Elephant Butte	15
October 26, 2009	Las Cruces	29
October 27, 2009	Alamogordo	17
October 28, 2009	Chaparral	12
Total Attendees		195

¹Members of the public for purposes of this report exclude project-related individuals (e.g., BLM resource specialists, Applicant staff and project engineer, EIS contractor personnel, and cooperating agency representatives.)



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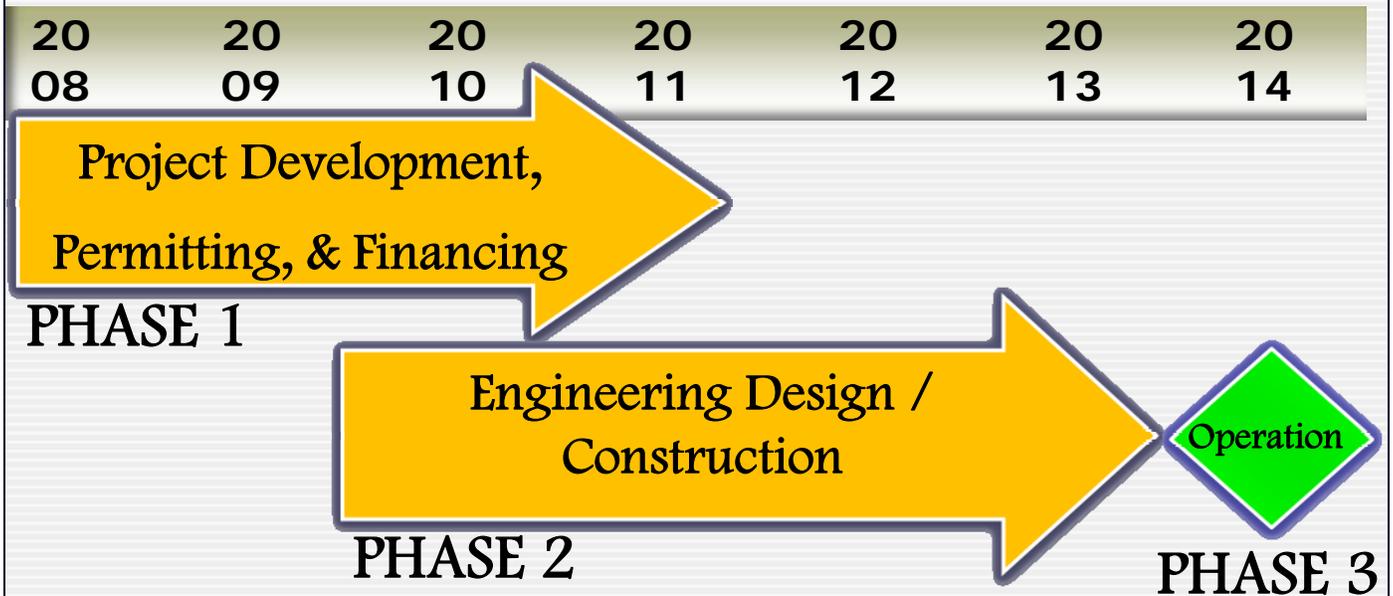
PUBLIC CONCERNS TO BE ADDRESSED

Expansion of Study Area/Alternatives in New Mexico

- ★ Avoid Bosque del Apache NWR and Socorro Valley Rio Grande crossing – potential migratory bird impacts
- ★ Avoid San Antonio river crossing – residential and agricultural impacts
- ★ Consider White Sands Missile Range (WSMR) alternative routes
 - ✦ Along WSMR western border
 - ✦ South around WSMR
 - ✦ Through WSMR
- ★ Avoid Middle Rio Grande corridor
- ★ County resolutions adopted siting preference for SunZia to cross the Rio Grande at Arrey, NM, then north along western border of WSMR
 - ✦ Socorro County #2009-54
 - ✦ Sierra County #98-016



SUNZIA SCHEDULE



Earliest In-Service Year is 2013



SunZia



FOR MORE INFORMATION:

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