The New Mexico Renewable Transmission Authority (RETA) is a state government entity established to identify and develop transmission and to enable renewable energy in New Mexico. RETA partnered with MMR and SWPG to facilitate SunZia as a benefit to the grid and is now a co-developer of the project. RETA has also worked with Pattern Energy to develop and construct the Western Spirit line. www.nmreta.com

Pattern Energy is one of the world’s largest privately-owned developers and operators of wind, solar, transmission, and energy storage projects. Its operational portfolio includes 28 renewable energy facilities that use proven, best-in-class technology with an operating capacity of 4.4 GW in the United States, Canada and Japan. Pattern is New Mexico’s largest clean power company and has a long-term commitment to protect the environment and strengthen communities. www.patternenergy.com

Southwestern Power Group (SWPG) is an independent developer of utility-scale generation and transmission assets, with a market focus in the desert Southwest. Since 2000, the company has distinguished itself as a leading force in evolving energy markets, including renewable energy, storage and smart electrical grids. SWPG is comprised of a select, experienced group of individuals with decades of experience in finance, permitting, licensing, real estate, construction and operations. www.southwesternpower.com

MMR is a global infrastructure firm with more than 4,000 full-time employees in the U.S. and a reputation for completing domestic and global projects within budget, on time and with unwavering consideration for safety. Across the globe, MMR has served clients in the renewable energy, chemical and petrochemical, oil and gas, industrial manufacturing, power generation and power development markets. www.mmrgp.com

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SunZia Southwest Transmission Project

Proposed in New Mexico and Arizona and will exceed 500 miles in length

Two 500kV lines providing up to 4,500 MW of transfer capacity

SunZia’s first customer is Pattern Energy that will own and operate wind generation facilities in central New Mexico
Note: Pattern Energy’s wind development assets are separate and distinct projects from SunZia I and SunZia II. Wind installations will be larger than line capacities to maximize transmission efficiency.
Note: Pattern Energy’s wind development assets are separate and distinct projects from SunZia I and SunZia II. Wind installations will be larger than line capacities to maximize transmission efficiency.
History & Background

• 2006: Project Initiation
• Sept 2008: SF-299 submitted to BLM
• June 2013: Final EIS issued by BLM
• 2014: Environmental Assessment on Department of Defense (DoD) Mitigation Proposal
• Jan 2015: BLM issued a Record of Decision
• Mar 2016: Memorandum of Agreement (MOA) with DoD on Mitigation Proposal
• Sept 2016: Executed ROW Grant Agreement with BLM
• Starting 2016: Per the MOA, regular meetings with White Sands Missile Range and coordination on their test operations in New Mexico
• Dec 2018: Started evaluation a potential re-route that would avoid the WSMR testing area
• Mar 2020: SF-299 submitted to federal agencies
BLACK LINE IS PREVIOUSLY APPROVED BY BLM

NEW SUNZIA WEST SUBSTATION LOCATION

PROPOSED ROUTE ADJUSTMENTS TO ADDRESS LOCAL CONCERNS

SEE SEGMENT 4 MAP

- City
- 2015 Selected Alternative
- Segment 4 Reroute Alternatives
- Proposed SunZia West Substation
- Proposed Local Route Modification
- County Boundary
- State Boundary
SunZia EIS and Plan of Development

• Draft EIS will include a visual analysis that will include Key Observation Points throughout the SunZia Project area, including Socorro County

• Plan of Development
  • Construction Plan and Program
  • Emergency Preparedness and Response Plan Guidelines
  • Fire Protection Plan
# SunZia EIS Schedule

<table>
<thead>
<tr>
<th>Milestone</th>
<th>Start Date</th>
<th>End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>EIS for Project Changes</td>
<td>March 27, 2020</td>
<td>April 26, 2023</td>
</tr>
<tr>
<td>Issuance of Notice of Intent to prepare an EIS</td>
<td></td>
<td>June 4, 2021</td>
</tr>
<tr>
<td>Public Scoping and Comment Period</td>
<td>June 4, 2021</td>
<td>July 6, 2021</td>
</tr>
<tr>
<td>Cooperating Agency Review of ADEIS</td>
<td>January 6, 2022</td>
<td>January 20, 2022</td>
</tr>
<tr>
<td>Notice of Availability of Draft EIS and POD</td>
<td></td>
<td>April 2022</td>
</tr>
<tr>
<td>Draft EIS Public Comment Period (90 days)</td>
<td>April 2022</td>
<td>July 2022</td>
</tr>
<tr>
<td>BLM Publishes FEIS</td>
<td></td>
<td>January 2023</td>
</tr>
<tr>
<td>BLM Record of Decision</td>
<td></td>
<td>March 2023</td>
</tr>
</tbody>
</table>
SunZia Timeline

2006-2020
14 years of work...
Development, Planning, Approval

2016
SunZia CEC

2015
BLM Record of Decision

2021-2022
Current State...
Finalize Right-of-Way, Engineering and Permits

2022-2025
Next Steps...
Construction and Commercial Operation

2025
Commercial Operation
Thank You!
Conservation Stakeholder Engagement

SunZia and Pattern Energy have spent over four years meeting with environmental experts to inform the science-based solutions at the heart of the NEPA permit application.

The result is a replicable model of engagement as a gold standard of direct dialogue with the nation’s top biological and conservation experts, as well as local stakeholders. The premise was to listen, learn, and plan for siting, conservation and mitigation practices and achieve conflict resolution.

Sustained and iterative engagement with local, regional, and national leaders from conservation community has allowed SunZia and Pattern to identify important environmental issues and priorities, resulting in meaningful changes to project design and conservation benefit strategy and commitment.

Environmental Working Group

Pattern and SunZia meet routinely with leading environmental organizations from civil society to assess project resource impacts and permitting challenges and assumptions to ensure that the project advances climate and infrastructure needs without compromising important conservation priorities.
SUNZIA: AMERICA’S LARGEST CLEAN POWER PROJECT

- 5,000+ MW American Wind Energy
- 1,000+ Miles Transmission Infrastructure
- 4,000+ Clean Energy Jobs
- 12 Million Metric Tons CO2 Annual Offset
- 50 Million Americans’ Electricity Needs Served
- .64 Percent U.S. Electricity GHG Reductions
- $28 Billion Private Investment
- $20 Billion Economic Benefits
- 5,000+ MW American Wind Energy
- 1,000+ Miles Transmission Infrastructure
- 4,000+ Clean Energy Jobs
- 12 Million Metric Tons CO2 Annual Offset
- 50 Million Americans’ Electricity Needs Served
- .64 Percent U.S. Electricity GHG Reductions
- $28 Billion Private Investment
- $20 Billion Economic Benefits

Sources: EPA emissions calculator, U.S. Census, Moss Adams, IMPLAN Systems model
Numbers reflect full transmission build and also total wind capacity enabled
EXECUTIVE SUMMARY

The SunZia Southwest Transmission Project ("SunZia") is one of the nation’s most innovative and impactful clean energy projects, designed as a superhighway for wind power in the American West. It is one of the largest, most viable near-term opportunities to unlock a historic and unprecedented amount of clean power for markets that need it most. SunZia will enable over $28 Billion of private economic investment, driving down significant levels of U.S. emissions, and creating thousands of good-paying jobs in underserved rural communities.

SunZia is a rare late-stage transmission development project with over a decade of community outreach among environmental groups, local stakeholders and governments, unions, and the U.S. Military, as well as partnerships with best-in-class wind developers and a rigorous gold-standard plan for environmental siting.
## Federal Policies, Values and Goals

<table>
<thead>
<tr>
<th>SunZia</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Federal Permits for Renewables</strong>&lt;br&gt;Sec. 207, Executive Order on Tackling Climate Crisis</td>
<td>Permit approvals for SunZia would be a clear win for the Executive Order, unlocking 5,000+ MW of wind energy with construction as early as 2022.</td>
</tr>
<tr>
<td><strong>25 GW of New Federal Permits for Renewables by 2025</strong>&lt;br&gt;Sec. 3104, FY2021 Consolidated Appropriations Bill</td>
<td>SunZia alone would represent 20% success for the 25 GW renewable energy permitting goal, as a single Federal action enables 5+ GW of wind.</td>
</tr>
<tr>
<td><strong>100% Carbon-Free Grid by 2035</strong>&lt;br&gt;The American Jobs Plan</td>
<td>SunZia is a unique near-shovel-ready interregional project enabling the best wind and solar in the West to backstop each other, which is needed for a 100% clean grid. Recent blackouts in California and Texas point to the critical need for such regional connections to prevent emergencies as we approach a carbon-free grid.</td>
</tr>
<tr>
<td><strong>Good-Paying Jobs, with Opportunity for Unions</strong>&lt;br&gt;The American Jobs Plan</td>
<td>SunZia is committed to creating good-paying jobs, and project participants Pattern Energy and the New Mexico Renewable Energy Transmission Authority (RETA) have a record of hiring union labor for nearby high-voltage lines like the 345kV Western Spirit line, which is being built in 2021 with over 70% union labor.</td>
</tr>
<tr>
<td><strong>Lower Energy Bills for Middle Class American</strong>&lt;br&gt;The American Jobs Plan</td>
<td>Wind and solar are now the least cost energy sources in history. SunZia enables more of the grid to run reliably on renewables, which brings down energy prices for everyone. Los Angeles Mayor Eric Garcetti said that Pattern’s New Mexico wind would be, “the best value for our customers.”</td>
</tr>
<tr>
<td><strong>Improved Air Quality and Public Health Outcomes</strong>&lt;br&gt;The American Jobs Plan</td>
<td>The wind enabled by SunZia ramps up in the evening, balancing solar and displacing the need for the polluting, fast-ramp gas plants sited in urban areas, which have disproportionate health impacts on low-income disadvantaged communities.</td>
</tr>
<tr>
<td><strong>More Grid Resiliency</strong>&lt;br&gt;The American Jobs Plan</td>
<td>SunZia increases grid reliability and resiliency with regional diversity, pairing wind and solar together. Regional connections have emerged as a critical grid need as the grid weathering the impacts of climate change.</td>
</tr>
</tbody>
</table>
ECONOMIC BENEFITS:
SUNZIA & PATTERN WIND

### Direct Project Investment

<table>
<thead>
<tr>
<th>SunZia Transmission</th>
<th>Pattern Energy Wind</th>
</tr>
</thead>
<tbody>
<tr>
<td>515 Miles</td>
<td>3,200 MW</td>
</tr>
<tr>
<td>$3.2 B</td>
<td>$5 B</td>
</tr>
<tr>
<td>$815 M</td>
<td>$10.3 B</td>
</tr>
<tr>
<td>$4 B</td>
<td>$15.4 B</td>
</tr>
</tbody>
</table>

**Total Investments:**

- **SunZia Transmission**: $2.9 B
- **Pattern Energy Wind**: $10.6 B
- **Total**: $28+ Billion

### Economic Benefits

(Development, Construction, and 30 Years of Operations)

<table>
<thead>
<tr>
<th>New Mexico</th>
<th>Arizona</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>$1.8 B</td>
<td>$1.1 B</td>
<td>$2.9 B</td>
</tr>
<tr>
<td>$9.5 B</td>
<td>$1.1 B</td>
<td>$10.6 B</td>
</tr>
<tr>
<td>$5.5 B</td>
<td>$1 B</td>
<td>$6.5 B</td>
</tr>
</tbody>
</table>

**Total Economic Benefit:** $20+ Billion

“Economic Benefits” include direct project spending, indirect benefits, and induced economic impact. Figures above account for state and local taxes, salaries and wages, private land payments, state land payments, community benefit payments, rate reductions from grid service, and local goods and services.

Source: Moss Adams economic studies based on real data from recent New Mexico wind and transmission projects constructed and operated by Pattern Energy.