SunZia Wind and Transmission

IEP, September 24, 2023

Pattern

Agenda

- Pattern Energy – California's premier Renewable Energy Provider
- Overview of SunZia
  - SunZia Transmission HVDC
  - SunZia Wind
- NM Wind + California Solar = Affordable reliability
- SPTO Tariff

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Pattern Energy

California's Premiere Clean Power Company

35 Million Californians Served | Founded in San Francisco, 2009

SunZia

Pattern Wind for CA:
Under Construction

12,800 GWh / YR
3,515 MW

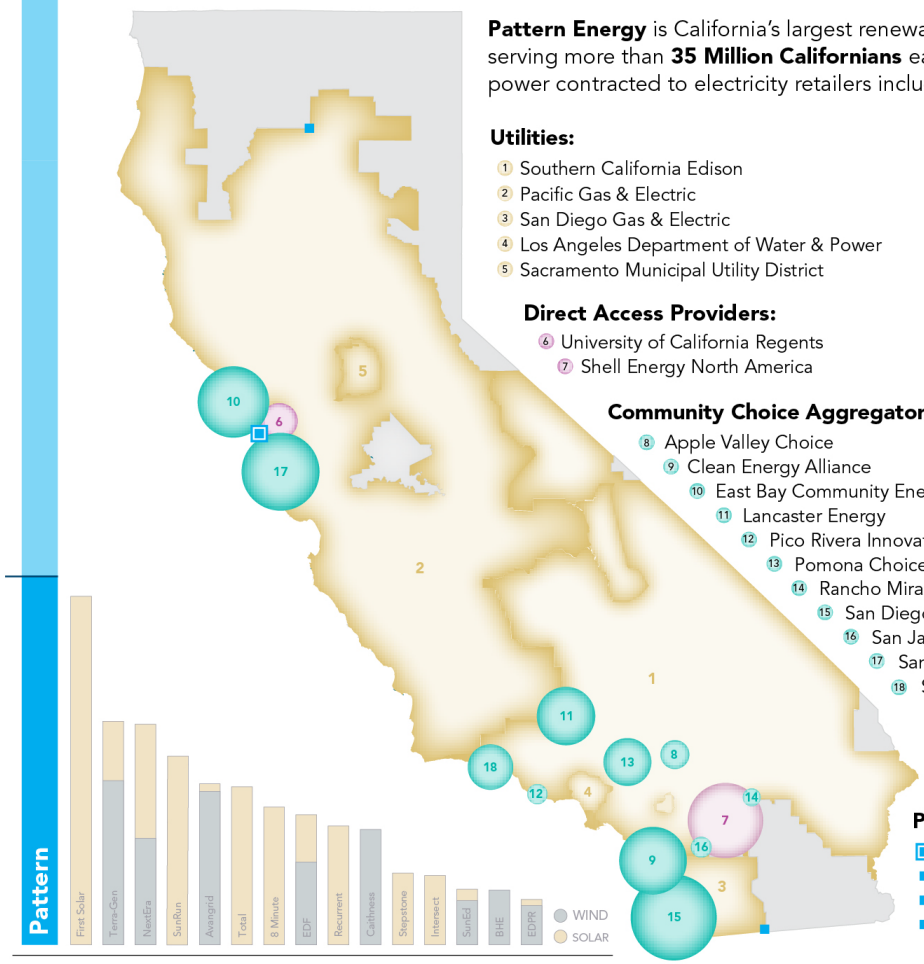
SunZia Wind will be the largest renewable project in U.S. history, with 3x more power than the Hoover Dam

CA Fleet

Pattern Wind for CA:
Operational Facilities

7,700 GWh / YR
1,960 MW

Hatchet Ridge Wind
Ocotillo Wind
Broadview I Wind
Broadview II Wind
Grady Wind
Tecolote Wind
Red Cloud Wind
Duran Mesa Wind
Clines Corners Wind



California's Next Largest Wind & Solar Companies
Ranked by Delivered Volume (GWhrs/yr)

Pattern Energy is California's largest renewable energy company, serving more than **35 Million Californians** each year with clean power contracted to electricity retailers including:

Utilities:

1. Southern California Edison
2. Pacific Gas & Electric
3. San Diego Gas & Electric
4. Los Angeles Department of Water & Power
5. Sacramento Municipal Utility District

Direct Access Providers:

6. University of California Regents
7. Shell Energy North America

Community Choice Aggregators:

8. Apple Valley Choice
9. Clean Energy Alliance
10. East Bay Community Energy
11. Lancaster Energy
12. Pico Rivera Innovative Municipal Energy
13. Pomona Choice
14. Rancho Mirage Energy Authority
15. San Diego Community Power
16. San Jacinto Power
17. San Jose Clean Energy
18. Santa Barbara Clean Energy

Pattern provides **22%** of all CCA clean power

Pattern CA Offices:

- San Francisco, Global HQ
- San Diego, Construction
- Ocotillo, Field Office
- Hatchet Ridge, Field Office

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America’s Largest Clean Energy Project

3,500+ MW
American wind energy

~550 miles
HVDC transmission infrastructure

>$8 billion
Private investment

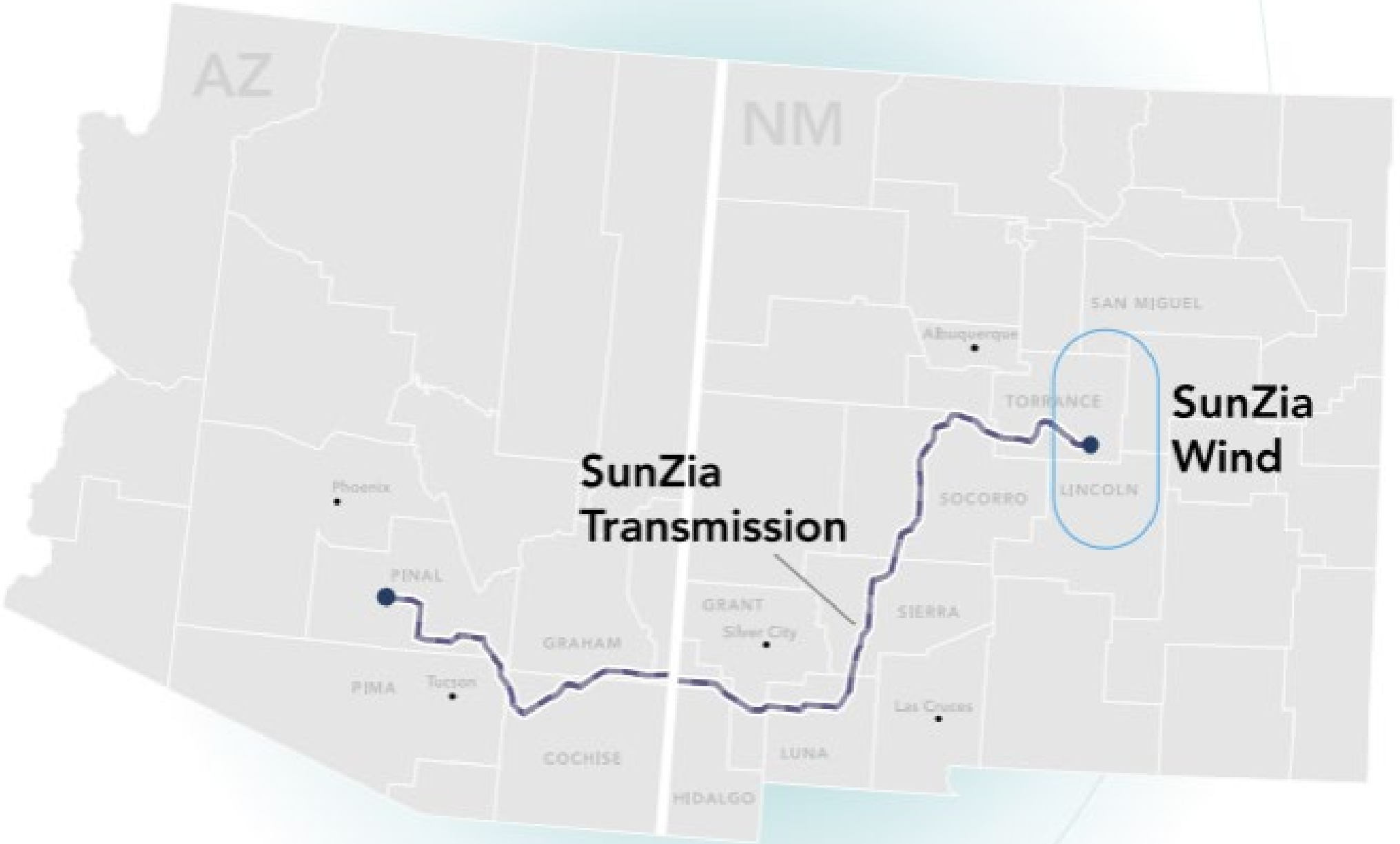
$1 billion
Local economic benefits

11.5 million
Metric tons CO_2 annual offset

2,000
Clean energy construction jobs

3+ million
Americans’ electricity needs served

0.2%
U.S. electricity greenhouse gas reductions



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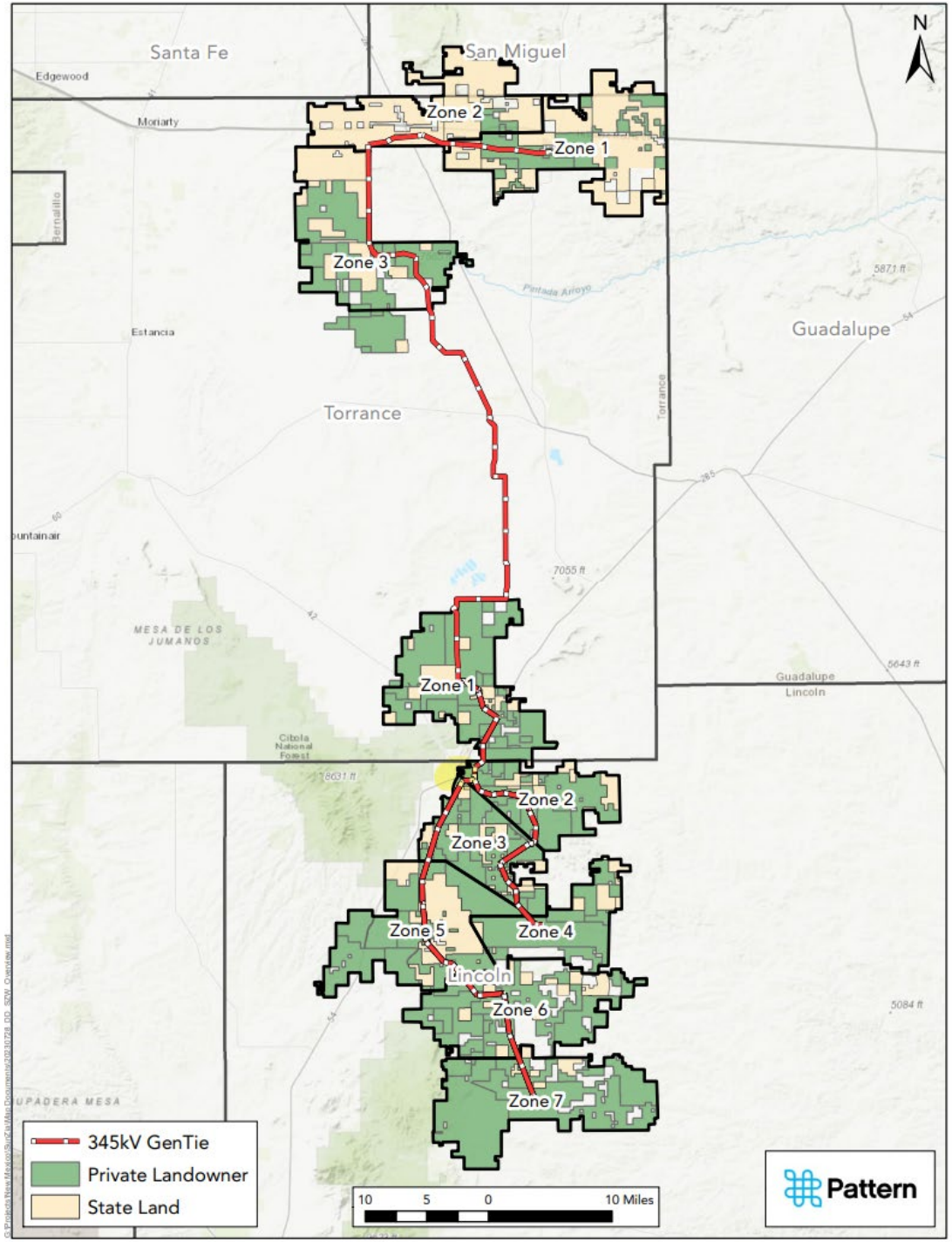
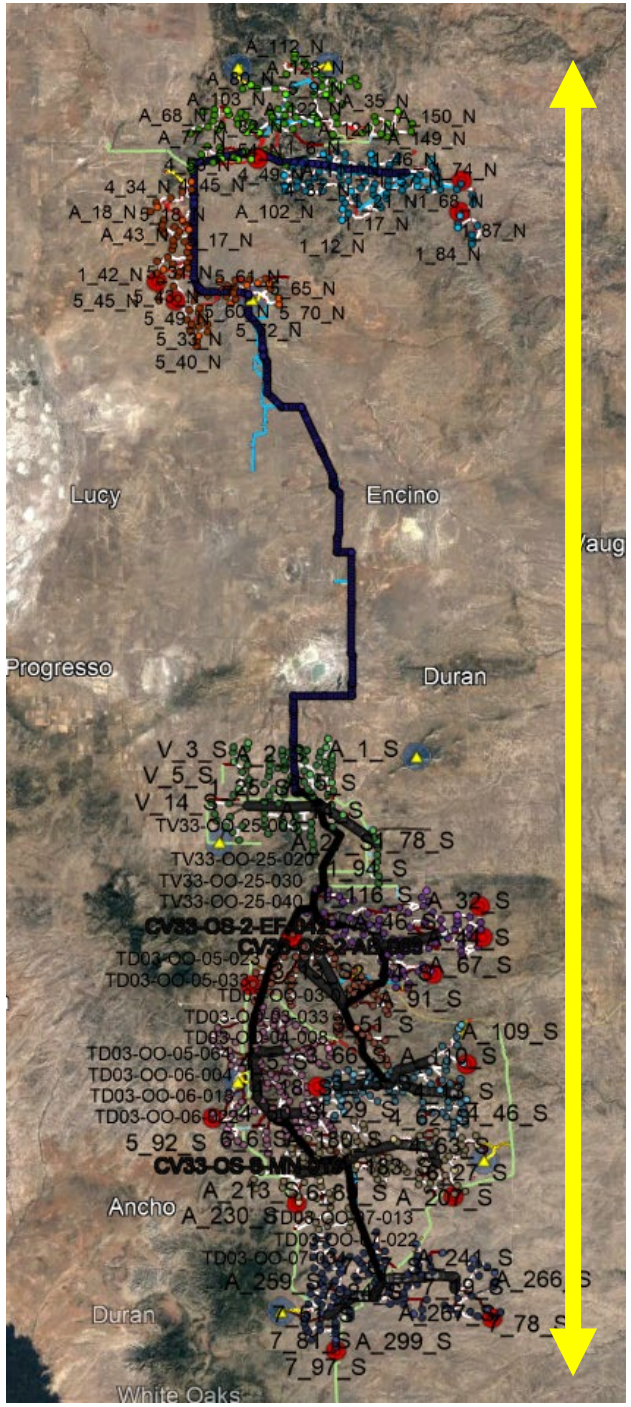
SunZia Wind – Total Project Area

- Development Period 2016 – 2026
- 3,515 MW
  - San Miguel County ~ 117 MW
  - Torrance County – 1,332 MW
  - Lincoln County - 2,066 MW
- Approximately 530,000 acres between private and state trust land
- Construction Q3 2023 – Q2 2026
- ~916 Turbines
- Maximum height - 699’
- Average hub height ~ 505’
- Blade tip height ~ 575’
- Performing environmental and cultural studies on the entire project area



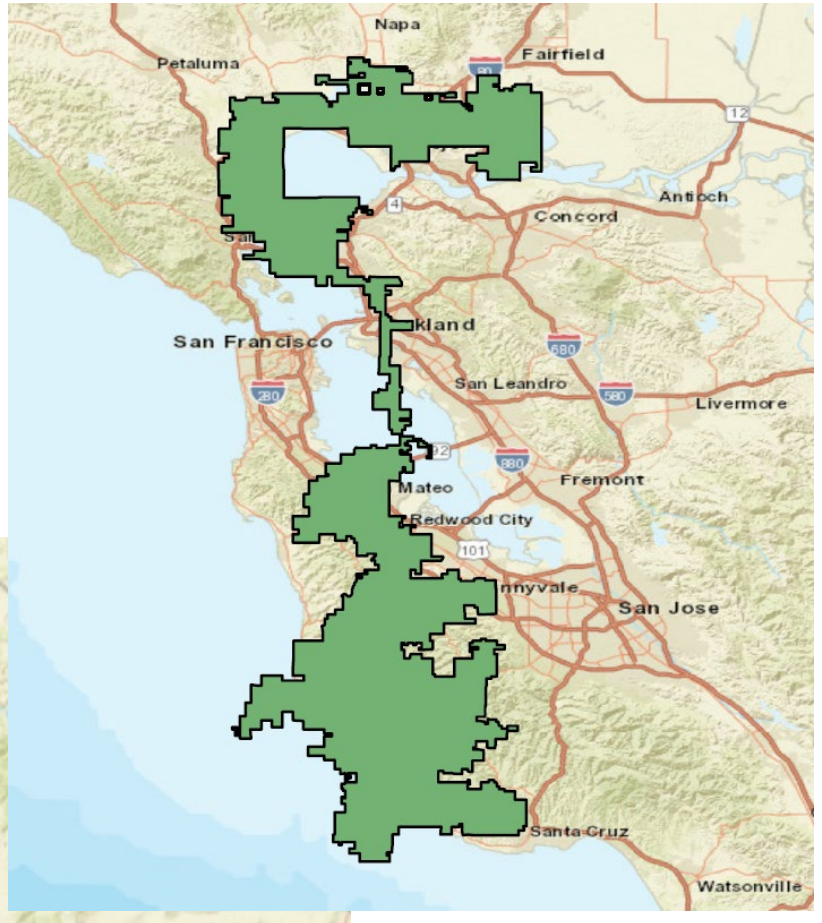
SunZia Wind – 916 WTGs, 3,515.4 MW



91 miles

Project Scale and Context

Project	MW / Cost
Diablo Canyon	2,256 MW Largest CA Generator
South Texas Project	2,760 MW Largest Nuclear Plant in TX
Hoover Dam	2,080 MW
Western Spirit	1,050 MW Largest Single-Phase Wind Project in US History
SunZia	**3,515 MW wind + 3,000 MW transmission** **>$8 billion** **Largest Wind farm in Western Hemisphere**



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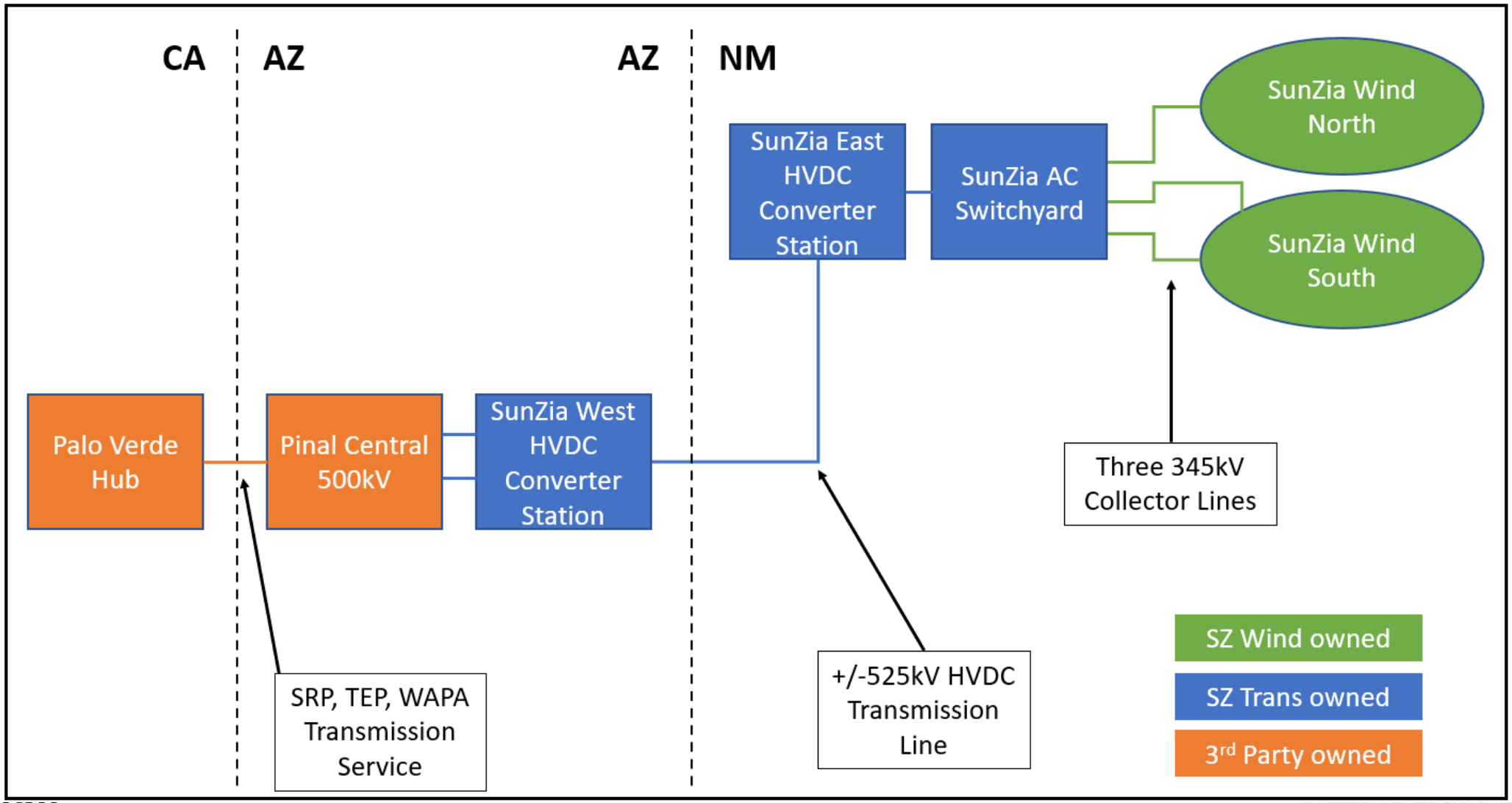
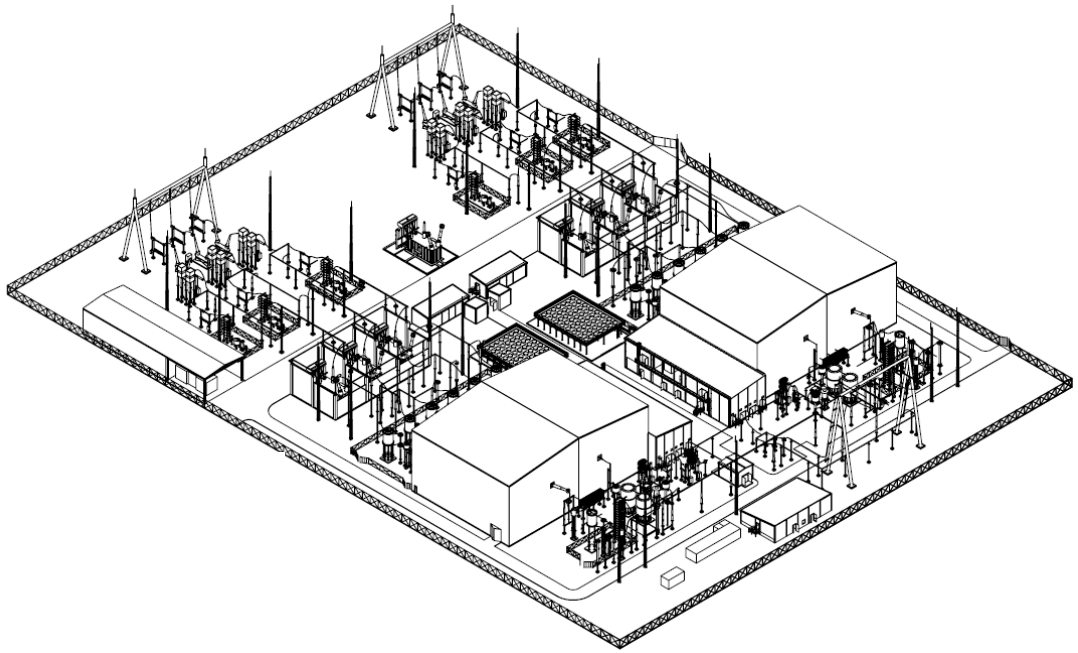
Project Diagram



SunZia East HVDC Converter Station, Pete Heinrich AC Switchyard, and SunZia Wind South Laydown yard



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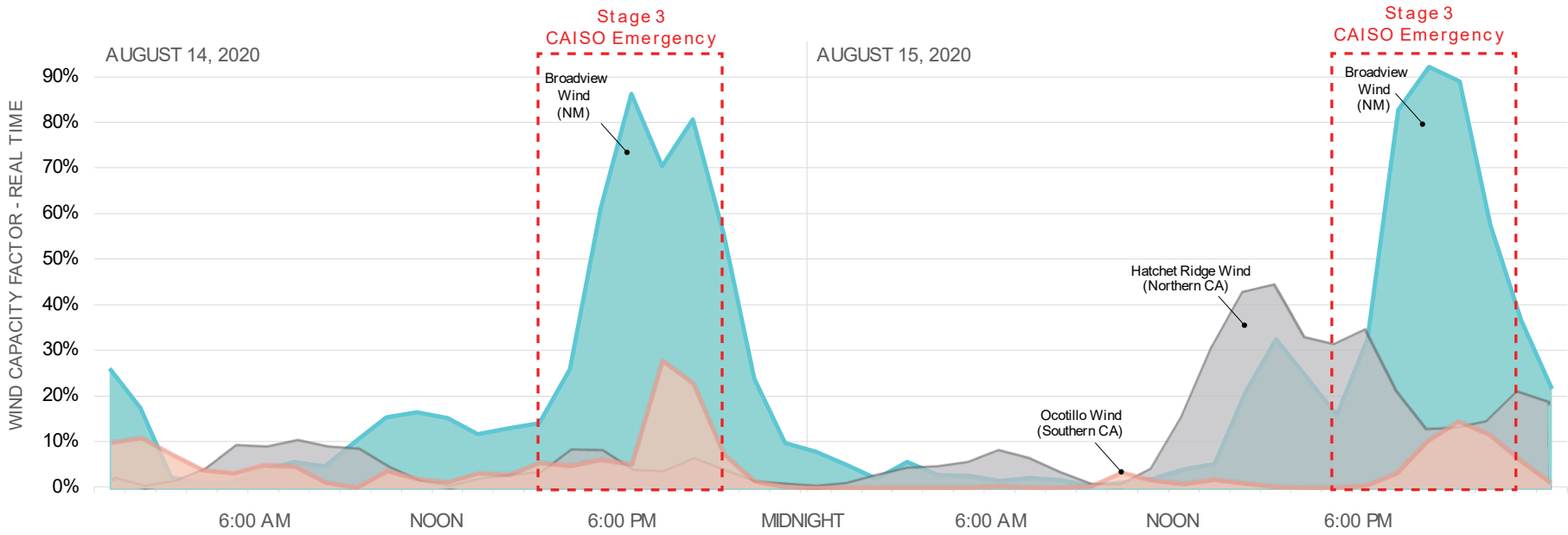
Regional Diversity Means Reliability

- Regional transmission connects critical ramping wind to displace fossil fuels in a solar-rich system. A reliable, resilient 100% clean grid powered by the weather needs to be bigger than the weather.
- In 2020, Pattern's 540 MW of operating New Mexico wind serving California out-performed its local California wind facilities during the August 2020 blackouts. With Western Spirit now online and SunZia Wind in development, Pattern will enhance that resilience at ten times the scale, with 5,000 MW that ramps up when the market needs it most.



Pattern Energy Real Time Capacity Factors: California vs. New Mexico Wind Farms
As Delivered to the CAISO System During August 2020 Rolling Blackouts

SunZia in the News

Audubon Southwest

Our Work | Birds | News | About Us | Get Involved

Conservation

Why We Support Sunzia

Our hope in elevating Sunzia as a case study is to encourage the adoption of the best practices employed in this project in future projects and to let the industry know that we are willing and able to negotiate with them in good faith and get to “yes” should they develop projects that don’t sacrifice the habitat birds need to achieve the climate birds need. This project will bring 3.5 gigawatts of renewable energy onto the western grid and because of our involvement will do so with minimal impact to local bird life. We consider this a “win” and hope to see other projects follow the same example.

ALBUQUERQUE JOURNAL

Going with the wind: Tiny Corona hangs its hopes on huge clean-energy projects

OLLIE REED JR. / JOURNAL STAFF WRITER Sep 3, 2023 Updated Sep 11, 2023

"And little places like this don't have a lot of resources," she said. "Also, the people involved in the (wind energy) projects are just gracious. They are very aware of the impact of their project on our community. They are very aware of people."

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SunZia

Construction Process

Underground Collection System

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SunZia Transmission Line Mobilization

Construction Process

Reclamation

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Construction Process

Reclamation

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Thank you!

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