



# Transitioning the World to Renewable Energy

Water and Natural Resources Committee

September 7, 2021



# Agenda

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Pattern Energy

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Western Spirit Transmission & Wind  
Construction Update

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Future Development



A leader  
in developing  
assets in  
dynamic global  
energy markets



Pattern Energy is a leader in developing renewable energy and transmission assets. From a global headquarters in San Francisco to an operations control center in Houston, we work on projects that range from the earliest stages of development to the repowering of older facilities.

Our team has a wealth of experience in identifying potential sites, engaging with communities, and expertly navigating the processes of permitting, environmental mitigation, meteorological assessment, risk management, and finance to build great projects. Using the industry's most advanced technologies, we provide our customers with renewable energy that is affordable and reliable.

Pattern Energy has offices in San Francisco, San Diego, Houston, New York and New Mexico in the US; Toronto, Canada; Mexico City, Mexico; Santiago, Chile; and Tokyo, Japan.

## Global Portfolio & Company Values



### Environment

We aim to exceed industry standards in mitigating environmental impacts and advancing best practices.



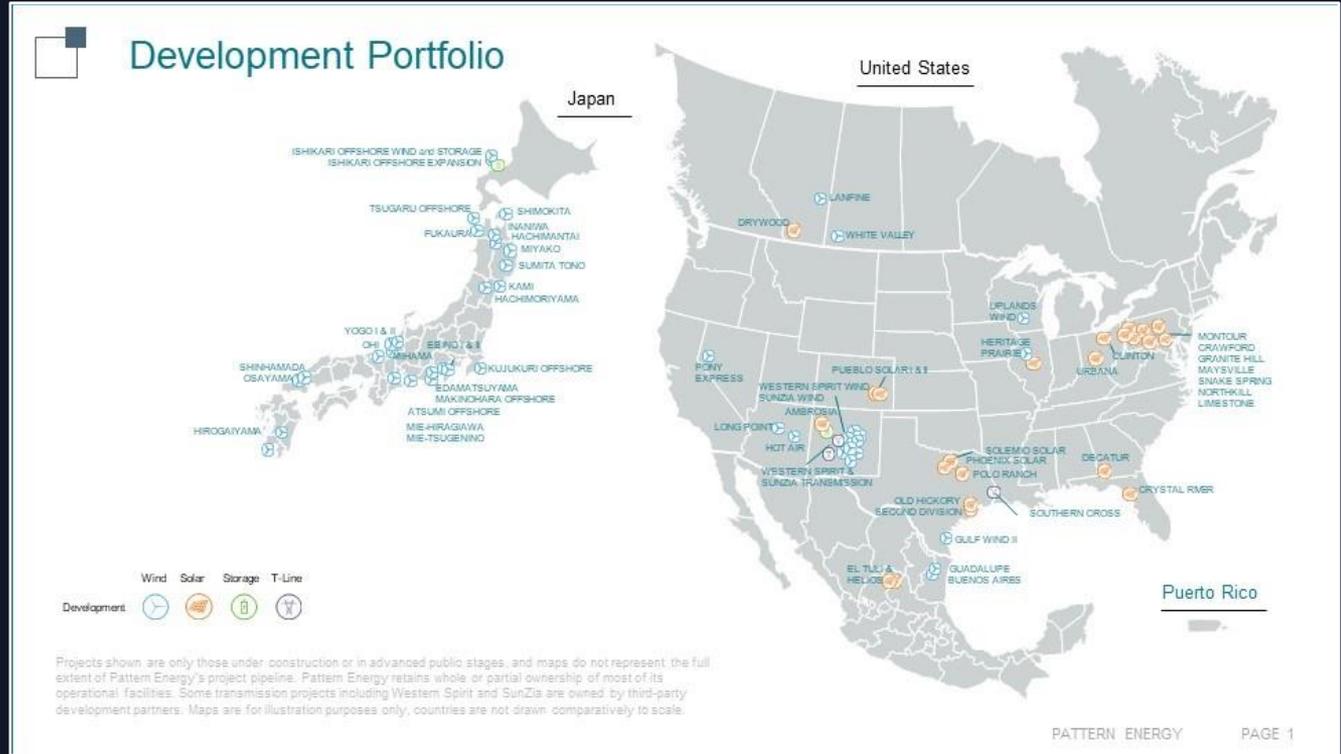
### Community

We participate in and contribute to our local project communities.



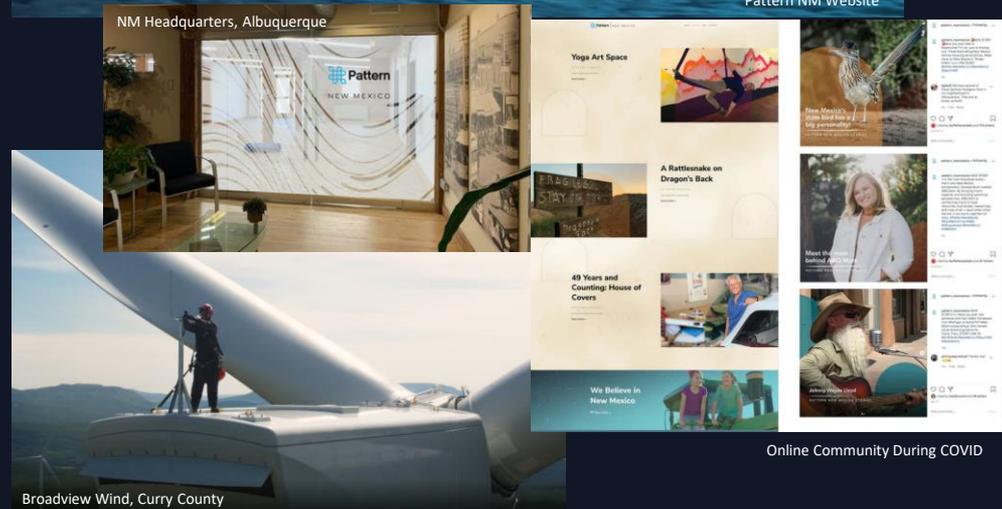
### Safety

Our top priority is protecting the safety of the public, our employees, and everyone who works with us.



## Pattern in New Mexico

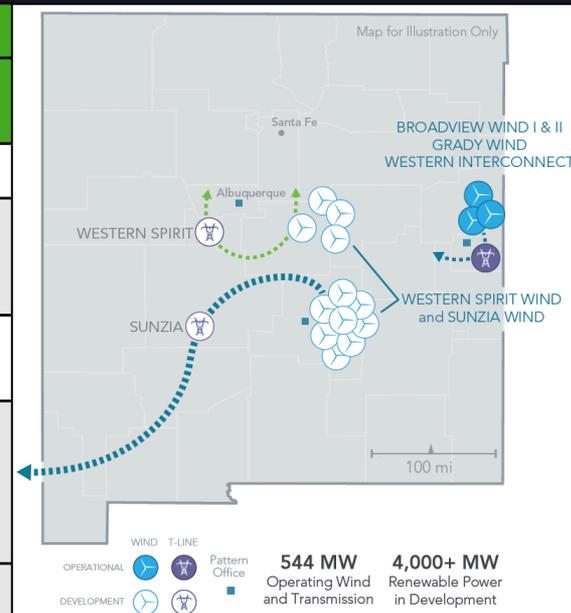
- Over \$3.5 Billion invested by the end of 2021
- New Mexico headquarters, Albuquerque
- Field offices in Curry County and Corona
- Responsible for over 30 permanent jobs in development and wind facility operation
- Additional 100 permanent jobs by end of 2021
- Thousands of construction jobs including:
  - 650+ jobs 2016-2019, Broadview & Grady Wind
  - 1,000+ jobs 2020-2021, Western Spirit Wind and Western Spirit Transmission
  - 3,300+ jobs expected before 2025, SunZia Wind and SunZia Transmission





Pattern Energy has successfully developed and financed ~1,600MW of wind and transmission projects in New Mexico.

	OPERATING		CONSTRUCTION	DEVELOPMENT
	Broadview Wind	Grady Wind	Western Spirit Wind	SunZia Wind
Size	324 MW	220 MW	1,050 MW	3,200+ MW
County	Curry, NM Deaf Smith, TX	Curry, NM	Guadalupe, Lincoln, and Torrance, NM	Guadalupe, Lincoln, and Torrance, NM
Status	COD 2017	COD 2019	Expected COD 2021	Expected full construction ramp in 2022, COD 2025
Inter connection	Western Interconnect; 35-mile 345kV Developed & constructed by Pattern, owned & operated by Pattern		Western Spirit Transmission; 155-mile 345kV Developed & constructed by Pattern, to be sold to PNM	SunZia Transmission Project; 500+-mile 500kV Developed by SWPG
Offtaker	SCE	SMUD	LADWP, SJCE	In process



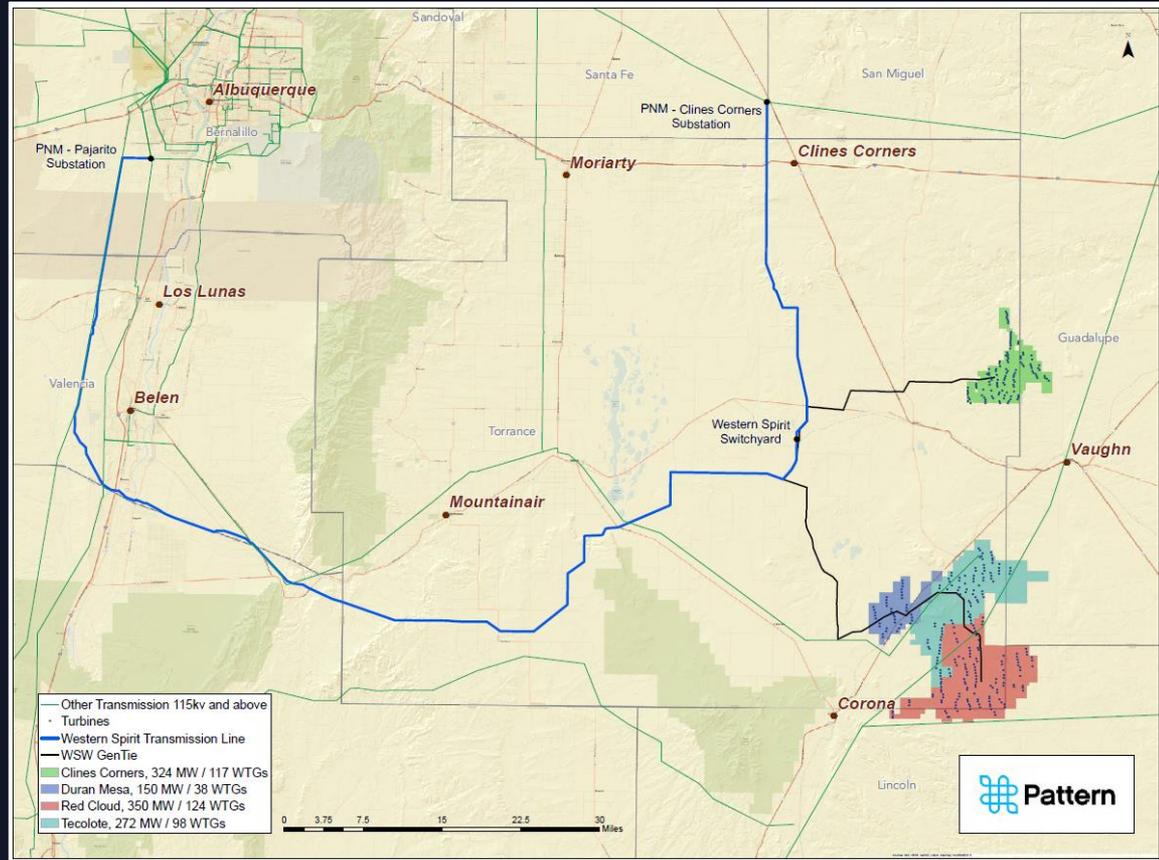


## Western Spirit Transmission

- First of its kind public-private partnership
- Owned by RETA & jointly developed with Pattern Energy
- 155-mile transmission line
- Santa Fe, Torrance, Socorro, Valencia, Bernalillo Counties
- Project will be sold to PNM once complete
- In-service Q4 2021

## Western Spirit Wind

- Development period – 2016 – 2019
- 1.76B financing on 12/31/2020
- Comprised of 4 wind farms totaling 1050 MW
  - Clines Corners – 324 MW
  - Duran Mesa – 150 MW
  - Red Cloud – 350 MW
  - Tecolote – 272 MW
- In-service Q4 2021





# Western Spirit Transmission

## Construction Update

Progress through August 29, 2021

### Western Spirit Transmission

- Access roads – 707 of 707 installed (100% complete)
- Foundations – 706 of 707 complete (99% complete)
- Structures set – 577 of 707 installed (82% complete)
- Conductor installed – 405 structures of 707 installed (57% complete)

### Connection to PNM System

- Clines Corners connection complete
- Pajarito construction is scheduled to be complete in November

# Western Spirit Wind

## Construction Update

Progress through August 29, 2021

### Western Spirit Wind

- Wind Turbine Generator (WTG) Foundations – 357 of 377 – 95% complete
- WTG Deliveries – 349 of 377 – 93% complete
- WTG Install – 334 of 377 – 89% complete (922 MW's installed)
- Underground Collection from WTG's to substation – 220 miles of 263 mi installed (82% complete)
- Overhead Collection ("Gen-ties") – 68 of 68 miles of conductor installed (100% complete)
- 4 Substations and 4 O&M buildings are on schedule





# Pattern Investment in New Mexico

## Broadview/Grady

- \$732 million capital cost
- \$18.9 million in Payments in Lieu of Taxes
- \$2.2 billion in total direct, indirect & induced economic benefit

## Western Spirit Wind & Transmission

- \$2+ billion capital cost
- \$88.3 million in Payments in Lieu of Taxes
- \$5.03 billion in total direct, indirect & induced economic benefit

## SunZia Wind

- \$6+ billion estimated capital cost
- \$268 million estimated Payments in Lieu of Taxes
- Moss Adams currently conducting economic study of total direct, indirect & induced economic benefit

## SunZia Wind

- Pattern is the anchor tenant for the first 1,500 MW's
- Construction of the SunZia Wind Projects will coincide with start of construction for the line
- Development Period 2016 – 2025
- 3,000 + MW
- Comprised of 8 wind farms
- Roughly 750,000 acres
- In operation 2025

## Western Spirit Wind & SunZia Wind



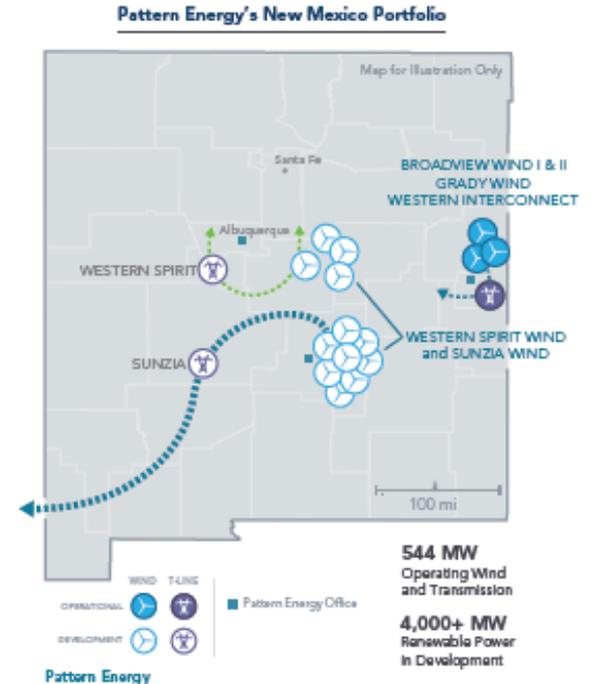
### WESTERN SPIRIT WIND

W1 CLINES CORNERS  
W2 DURAN MESA  
W3 TECOLOTE  
W4 RED CLOUD

### SUNZIA WIND

S1 EL CORAZON  
S2 PASTURA  
S3 DAHLIA  
S4 VIENTO LOCO

S5 COWBOY MESA  
S6 GALLINAS  
S7 MESA CANYONS  
S8 ANCHO WIND



### Pattern Energy

Pattern Energy is a leading renewable energy company with operating and development footprints in the United States, Canada, and Japan. Headquartered in the United States, our global operational portfolio includes more than 30 utility-scale renewable energy facilities. Founded in 2009 and led by a management team responsible for building more than 5 GW of renewable energy projects worldwide, our business is guided by a commitment to safety, serving our customers, protecting the environment, strengthening communities and creating value for our stakeholders. Western Spirit Transmission is owned by the state of New Mexico's Renewable Energy Transmission Authority (RETA). SunZia Transmission is owned by Southwestern Power Group. Wind project labels beginning with S1, W1, etc represent individual legal entities, and proposed transmission lines are separate and distinct stand-alone projects which are not dependent on any specific proposed generation.



# Construction Process

Transmission Line





# Construction Process

## Foundations





# Construction Process

Underground Collection System





# Construction Process

## Turbines



# Construction Process

## Reclamation





# Construction Process

## Reclamation





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