

Science, Technology and Telecommunications Committee

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EDF Renewables - North America

September 16 2021



A Global Leader in Low-Carbon Energy

EDF Group

70+ years experience

\$19.6 B

164,727 employees

37.6 M clients worldwide

EDF Renewables

\$1B

22 operating countries

3,947
employees

23.4 TWh green electricity

EDF Renewables North America

20 GW developed

13 GW O&M contract

34 GW pipeline

35+ years experience

1,374 employees



as of 12/31/20



EDF Renewables North America



Bigger Projects. Bigger Impact.

- 20 GW developed of wind, solar and storage
- \$18+ billion to vendors, including lease payments made to landowners. (since 2010)
- Created and continually creating thousands of jobs



Distribution-Scale Power

Experience. Reliable. Integrated.

- 1200+ MW of solar installed
- 2500+ installations
- 20 states with O&M jobs for the life of projects.
- Specialize in environmentally sensitives sites and community solar



Onsite Solutions

Multiple Solutions. One Point of Contact.

- 400+ MW commercial solar installed
- 40 MWh onsite storage contracted
- 6,000+ EV charging stations installed
- Bundled or stand-alone systems with microgrid option



Asset Optimization

Accelerate Optional Excellence. Drive Profit

- 13 GW operations & maintenance
- 11.7 GW under OCC monitoring
- 7.8 GW assets under management
- 400+ asset optimization experts



Investments in the Community

These principles reflect our promise to our host communities, landowners, and other stakeholders:

- Honesty and transparency in all our development activities
- Engaging with all stakeholders and remaining open to taking input that will improve projects and mitigate impacts
- Being present and available in the community to ensure all voices are heard
- Treating landowners, host communities, and stakeholders fairly and equitably



Educational Commitments



Village of Canaseraga information



Edna Elsenheimer Brewster ▶ Village of ... Canaseraga information

July 21 at 2:43 PM · 🚱

I got to meet this wonderful lady today. This is Haley from EDF. EDF gave us a \$3,000.00 donation to help us with our softball field.. Thank you so much, I can not wait to get started on the field.



⊓^ Like





All Comments ▼



EDF Renewables and the **Blood Tribe of Alberta**

- EDFR has developed a long-lasting and mutually beneficial relationship with the Blood Tribe (Kainai Nation), in Alberta.
- Since 2017, we have worked in partnership, to develop the 250MW Cypress Wind Project located near Medicine Hat, AB.
- The project is starting construction this summer and the parties have worked closely to develop an opportunities agreement, to ensure training and long-term job opportunities for Blood Tribe members.
- The opportunities agreement, will result in over 220 Blood Tribe Members trained in; construction, wind turbine maintenance and solar installation.
- On the back of the success at Cypress, we have gone on to develop a second partnership, to develop the **Pe Na Koam** 200MW wind project, which will be located on the Blood Tribe's reserve (the largest reserve in Canada).
- The EDFR development team is working closely with key tribe members, to ensure siting is sensitive to both on-going agricultural practices, but also to ensure minimum impacts on traditional plants, medicines and wildlife.







EDF Renewables in New Mexico

Operational Projects

- Roosevelt Wind
 - 250MW
 - Portales, NM
 - Owner: EDF Renewables
- Milo Wind
 - 49MW
 - Portales NM
 - Owner: EDF Renewables
- Oso Grande Wind
 - 250MW
 - Chaves & Lea Counties, NM

Direct Economic Impact

~\$150 million local vendor spend

\$7+ million in lease payments to landowners

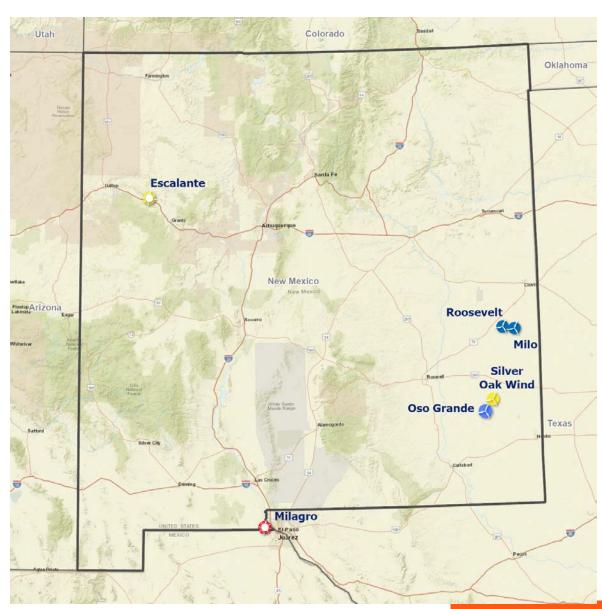
Milo/Roosevelt use an IRB and make payments in lieu of taxes

Oso Grande has no IRB and pays full property tax rate to county, municipality, schools & hospital districts

Owner: Tucson Electric Power (TEP)

*Oso Grande required significant stakeholder input from other Permian Basin operators and stakeholders.

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Potential Future Development

Potential New Mexico Projects in Development

- Silver Oak Wind
 - ~500-750MW
 - Chaves and Lea County New Mexico
- Milagro Solar
 - 150MW PV + 75MW BESS
 - Dona Ana County New
- Escalante Solar
 - 150MW PV + 75MW
 - McKinley County New Mexico
- <u>Initial Evaluation Development</u>
 - Solar 1850MW
 - Wind 2000MW
 - BESS 1500MW
 - Hydrogen Long Duration Storage 750Mw-1000MW

Potential Offtake

EPE, TEP, SRP, LADWP, CAISO



TSGT, PNM

EPE, PNM, TEP, SRP, APS, LADWP, CAISO, NVE, PAC





Key Priorities for Renewable Energy Development in Today's Market

Interconnection and Transmission Availability

Locate and evaluate available transmission capacity from Point of Interconnection (POI) to Point of Receipt (POR) or Point of Delivery (POD)

- Exercise is to identify how many MWs can be put on the system without triggering system upgrades
- What is the most direct route of delivery to the offtakers POR.
 Upgrades are not always a limiting factor if they are reimbursable, but sometimes the overall schedule for these upgrades can impact project planning
- The more transmission system the electrons touch the higher the wheeling cost to move the power.
- Interconnection and transmission availability and location dictate offtake markets

Resource

The resource must be sufficient to make the project competitive in the market for output and availability

- How does this site compare to other Wind and Solar sites that are in your development pipeline
- Are there factors that can limit plant output through curtailment. As an example Cut in/Cut out speeds for Bats, Military operations solar production impacted by farming operations
- The resource must be robust enough to offset transmission wheeling costs to stay competitive in markets

Land

Is there sufficient land to optimize the plant size to meet market and CAPEX requirements

Land Evaluation:

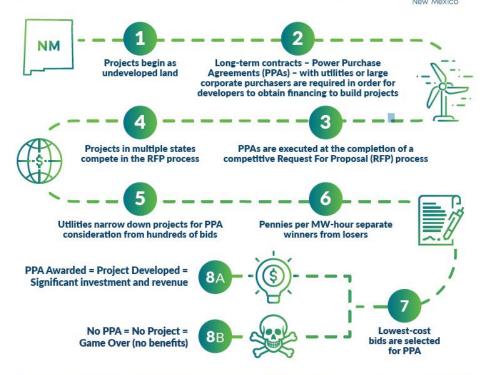
- (Private)How many landowners?
 What kind of easements will affect the amount of contiguous land?
- (State) What are lease terms? Are there fatal flaws or requirements that make alternatives better? Competitive rates?
- (Federal) Are there incentives for siting the project on Federal land?
 PTC/ITC extension? Competitive rates? Consistent process?

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^{*}Projects becoming operational depend on successful PPA.

How Renewable Energy Project Development Process Boosts New Mexico's Economy POWERING



State policy changes have potential to eliminate the viability of projects





Major WECC Transmission Projects



Project	Developer	Description
TransWest Express	Anschutz	WY wind to CA
Sunzia	MMR Group	NM wind to CA,AZ
Southline	Black Forest	NM wind to CA,AZ
Ten West Link	Starwood	AZ solar to CA
SWIP	LS Power	ID wind to NV,CA
Silverado Renewables Connection	GridLiance	NV solar to CA
Greenlink Nevada (West & North)	NV Energy	Increase renewable penetration
Cross-Tie Transmission Line	Transcanyon	WY,UT wind to NV,CA
Colstrip Upgrades	Multiple	MT wind to Pacific NW

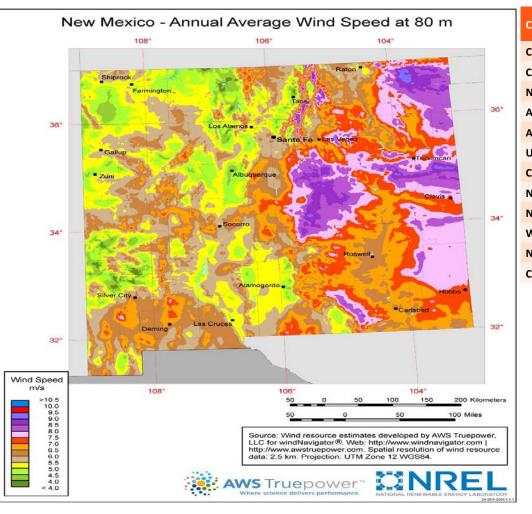


New Mexico Wind & Solar Resources

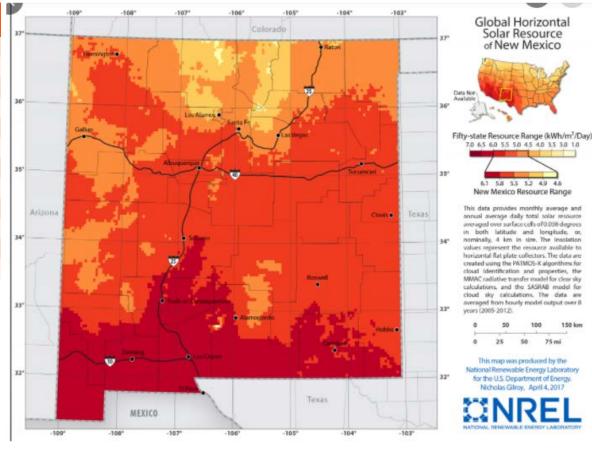
Wind Resource

Demand

Solar Resource



Category	Demand 2024-2030
CA Solar	8,900
CA Storage	7,000
NV Solar	4,150
AZ Solar	3,550
AZ Storage	2,367
UT Solar	2,150
CO Solar	2,007
NM Wind	1,901
NM Solar	1,785
WA Solar	1,550
NV Storage	1,298
CA Wind	1,208





Contact

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