

Science, Technology and Telecommunications Committee





July 10, 2017



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Company Overview

Core Competencies

Origination & Development

- Greenfield / Acquisition
- Meteorology and analytics
- Community support
- Utility and supplier relationships
- Transmission / Interconnection planning

Finance & Permitting

- Contract negotiation
- Project finance
- Permits / Real estate finalization
- Insurance
- Third party verification
- Hedging
- Community Relations

Construction

- Engineering
- Construction management
- Project administration
- Site Biological and Archeological monitoring and mitigation
- Environmental, Health and Safety management





Corporate Administration & Support





Community & Environmental Commitments



- We support the communities in our project areas
 - Ensure our projects succeed by ensuring the project area communities succeed
 - Strive to build strong relationships with landowners, local officials, and community members
 - Earn trust through communication and collaboration and work to structure our projects so benefits spread to the local communities
- We respect the land and the environment
 - Consider it our responsibility to produce and transport clean, renewable energy to consumers with the least amount of natural impact
 - Aim to exceed industry standards and be a leader in the advancement of best practices for the identification, assessment, and mitigation of our environmental impacts





Ownership in Pattern Energy Group Inc.



(1) Represents shares held by the public shareholders as well as certain directors and members of management



Pattern Development and Pattern Energy Portfolios







Owner

Pattern Energy



Meteorological Team

Project Mapping and Visualizations



 Meteorological team is well versed in GIS mapping and atmospheric modeling





• Visualizing each project provides another level of analysis for not only the meteorological team, but also for developers and community relations





Transmission Enabled Wind

SunZia Southwest Transmission Project





120*00*W 115*00*W 110'00'W 105*00*W Oregon Idaho Nebra Wyoming п 40 TUCH Salt Lake City + Reno Kansaş Nevada Utal Colorado rancisco San Jose Fresno Oklahoma California PACIFIC OCEAN Las Veg 35 TUTN LIDIND 3000°N Man Chas Albuquerque 0 Vent Speed of Res -----New Mexico -----Los Angeles .000 O Arizona 43-7.0 0.0 10-44 Phoenix Mesa A1-63 D 41-30 San Diego - 30 Constitution Regio GIS ANDE SE Tucsan-0 Shell WindEnergy Inc COD ROLE AT 8 1 YET BA 140 1227 UTH Zone 123 Protocia: Terrestre Handler 146 25 Hys. Gold 16200007 146 24 Hys. Classifier 146 25 Hys. Classifier 146 25 Hys. Classifier 146 25 Hys. Classifier 146 25 Hys. Classifier 147 25 Hys. Classifier SOUTHWESTERN US AREA Baja California Norbe WIND SPEED AT 80 m Chihqahqa 60 120 Son ora: MEXICO GCB Koth Anetican 1921 Islam: 5 Koth Anetican 1927 Falsariery 9, 2005 Miles Saudride address of C. Street, Topolog, 1142 Street 120*00*W 115'00"W 110*0/0*W 105*0/0*W



Corona Area Land (Inset with State and Federal land)



SNZ Project Status



- 1,500 MW of Land Control
- 200,000+ acres under option
- ~ 900 MW PTC qualification via "Start of Construction"
 - Initial foundations for 30 turbines
 - ~ 42,000 ft. of access roads
- Purchased turbines to allow for full PTC qualification of 1,500 MW of wind projects at SNZ project sites
- Over 5 years of wind data collected
- Installed and/or upgraded instruments on 30 met tower masts







Broadview Wind

Curry County, New Mexico Deaf Smith County, Texas



- Clean, renewable energy for 140,000 American homes
- \$92M investment in regional economy through property taxes, counties, school districts, landowner royalties, and local causes
- Overall economic impact to NM expected to be \$979.8M
- 17 to 18 permanent jobs



Key Project Information



- Total Project nameplate capacity 544 MW
 - BEJN: 181.7 MW (79 turbines planned) Q1 2017
 - BEKW: 142.6 MW (62 turbines planned) Q1 2017
 - GWEC 220 MW (96 turbines planned) Q2 2018
- Siemens 2.3 MW turbines with 108 m rotor
- Connecting with Western Interconnect LLC (formerly Tres Amigas "Phase Zero" transmission line) at 345kV to Blackwater Substation with delivery into California Market (CAISO)
- Transmission service through the Public Service New Mexico (PNM) and Arizona Public Service (APS) transmission system
- Executed two 20 year power sale agreements with Southern California Edison (SCE) for BEJN and BEKW
- Executed one 25 year power purchase agreement with Sacramento Municipal Utilitity District (SMUD)





BROADVIEW ENERGY PROJECTs



Broadview Energy: Curry County, New Mexico and Deaf Smith County, Texas





















































New Mexico Transmission Projects







Clean Line Independent Transmission Projects



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