

January 22, 2021

Steven Morgan PSAP Administrator PO Box C Laramie, WY 82073 Phone: (307) 721-5376 Email: <u>smorgan@cityoflaramie.org</u>

Subject: Notice to Emergency Communication Providers Regarding the Proposed Rail Tie Wind Project

Dear Provider,

ConnectGen Albany County LLC (ConnectGen) is preparing to submit a permit application to the Albany County Planning Office for a Wind Energy Conversion System (WECS) Project Permit to construct and operate the up to 504-megawatt Rail Tie Wind Project (Project). The Project is a utility-scale WECS located in southeastern Albany County, Wyoming, and encompasses approximately 26,000 acres of ranchland on private and Wyoming State Lands near Tie Siding, Wyoming. The proposed Project layout includes 120 wind turbine generators, each approximately 4.2 megawatts in size, for a maximum nameplate capacity of 504 MW (Attachment I). No federally managed lands are located within the Project Area. The Project proposes to interconnect to the existing transmission system of the Western Area Power Administration via the Ault-Craig 345-kilovolt transmission line, which runs through the Project Area.

As required in Chapter 5, Section 12 [H.2 (a)] of the Albany County Zoning Resolution (amended 2020), ConnectGen seeks to provide all emergency service providers (911 operators) identified within the Project Area copies of the Project summary (Attachment 2) and a Site Plan (Attachment 3) in order to coordinate regarding any potential interference with emergency communications.

As an emergency service provider (911 operator) identified in the Project Area, please take this opportunity to review the provided attachments for the proposed Project. Your review and findings of any potential communication interference should be submitted by email to Amanda MacDonald, Project Manager at <u>amacdonald@connectgenllc.com</u>.

Attachment I – Project Location Map Attachment 2 – Project Summary Attachment 3 – Site Plan



Attachment 1 – Project Location Map





Attachment 2 – Project Summary



ConnectGen Albany County LLC (ConnectGen) is proposing to construct and operate the up to 504-megawatt (MW) Rail Tie Wind Project (Project). The Project is a utility-scale wind energy conversion system located in southeastern Albany County, Wyoming, and encompasses approximately 26,000 acres of ranchland on private and Wyoming State Lands near Tie Siding, Wyoming (Project Area). The proposed Project layout includes I20 wind turbine generators, each approximately 4.2 MW in size, for a maximum nameplate capacity of 504 MW. No federally managed lands are located within the Project Area. The Project proposes to interconnect to the existing transmission system of the Western Area Power Administration via the Ault-Craig 345-kilovolt transmission line, which runs through the Project Area.

The operation of the Project would include the following components:

- 120 wind turbines and related equipment
- Up to 52 miles of new permanent access roads
- Up to 73 miles of underground electrical collection and communication lines
- Supervisory Control and Data Acquisition system (installed with the collector lines)
- A single Operation and Maintenance (O&M) Facility
- Two Project substation facilities
- Approximately 4.4 miles of overhead generation tie (gen-tie) lines
- Up to three permanent meteorological towers (MET towers)

ConnectGen has considered several turbine models with capacities between 3 MW and 6 MW each. The turbine model currently being considered is the Vestas V150 4.2 MW. The total number of wind turbines would depend on the turbine model selected and final design, but is currently proposed at 120 turbines. Each turbine, with associated foundations and equipment, would have a permanent physical footprint of approximately 0.1 acre. The turbine specifications for this model is provided in Table 1.

Feature	Vestas VI50 4.2 MW	
Nameplate capacity	Up to 4,200 kW	
Hub height ¹	105 m	
Rotor Diameter	150 m	
Total height ²	180 m	
Swept Area	17,671 m ²	
Cut-in wind speed ³	3 m/s	
Cut-out wind speed ⁴	22.5 m/s	
Tower	Multi-coated, conical tubular steel	
	with safety ladder to the nacelle	
Turbine foundation	68 ft wide octagonal foundation, 10 ft deep	

Table 1: Project Turbine Characteristics

Notes:

kW—kilowatts; m—meter; m/s—meters per second

- I Hub height = the turbine height from the ground to the top of the nacelle.
- 2 Total height = the total turbine height from the ground to the tip of the blade in an upright position.
- 3 Cut-in wind speed = wind speed at which turbine begins operation
- 4 Cut-out wind speed = wind speed above which turbine shuts down operation



A Project Site Plan is included as Attachment 3. The Project Site Plan is representative of the Project layout, but remains preliminary because Project final engineering and micro-siting has not yet been completed. Final turbine numbers, layout, configuration, and turbine type are subject to change based on turbine availability, final engineering, and other economic and environmental considerations.



Attachment 3 – Site Plan





January 22, 2021

ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS

Subject: Notice to Microwave Transmission Providers Regarding the Proposed Rail Tie Wind Project

Dear Provider,

ConnectGen Albany County LLC (ConnectGen) is preparing to submit a permit application to the Albany County Planning Office for a Wind Energy Conversion System (WECS) Project Permit to construct and operate the up to 504-megawatt Rail Tie Wind Project (Project). The Project is a utility-scale WECS located in southeastern Albany County, Wyoming, and encompasses approximately 26,000 acres of ranchland on private and Wyoming State Lands near Tie Siding, Wyoming. The proposed Project layout includes 120 wind turbine generators, each approximately 4.2 megawatts in size, for a maximum nameplate capacity of 504 MW (Attachment I). No federally managed lands are located within the Project Area. The Project proposes to interconnect to the existing transmission system of the Western Area Power Administration via the Ault-Craig 345-kilovolt transmission line, which runs through the Project Area.

As required in Chapter 5, Section 12 [H.2 (a)] of the Albany County Zoning Resolution (amended 2020), ConnectGen seeks to provide all microwave transmission identified within the Project Area copies of the Project summary (Attachment 2) and a Site Plan (Attachment 3). ConnectGen has conducted a microwave path analysis for the Project Area to identify microwave paths that could limit the placement of wind turbines. As a result of this analysis, ConnectGen applied 0.5 x rotor diameter buffers around the lateral boundaries of the Fresnel zones associated with paths low enough to potentially be impacted by the Project and sited wind turbines outside of these buffers in order to avoid the likelihood of signal blockage. To the extent that any wireless microwave transmission providers may still demonstrate a likelihood of interference with their communication systems, ConnectGen will take reasonable measures to mitigate such anticipated interference.

As a microwave transmission identified in the Project Area, please take this opportunity to review the provided attachments for the proposed Project. Your review and findings of any potential interference should be submitted by email to Amanda MacDonald, Project Manager at <u>amacdonald@connectgenllc.com</u>.

Attachment I – Project Location Map Attachment 2 – Project Summary Attachment 3 – Site Plan



Attachment 1 – Project Location Map





Attachment 2 – Project Summary



ConnectGen Albany County LLC (ConnectGen) is proposing to construct and operate the up to 504-megawatt (MW) Rail Tie Wind Project (Project). The Project is a utility-scale wind energy conversion system located in southeastern Albany County, Wyoming, and encompasses approximately 26,000 acres of ranchland on private and Wyoming State Lands near Tie Siding, Wyoming (Project Area). The proposed Project layout includes I20 wind turbine generators, each approximately 4.2 MW in size, for a maximum nameplate capacity of 504 MW. No federally managed lands are located within the Project Area. The Project proposes to interconnect to the existing transmission system of the Western Area Power Administration via the Ault-Craig 345-kilovolt transmission line, which runs through the Project Area.

The operation of the Project would include the following components:

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Hub height ¹	105 m	
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Cut-in wind speed ³	3 m/s	
Cut-out wind speed ⁴	22.5 m/s	
Tower	Multi-coated, conical tubular steel	
	with safety ladder to the nacelle	
Turbine foundation	68 ft wide octagonal foundation, 10 ft deep	

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Attachment 3 – Site Plan



Microwave Path Provider	Source via FCC Universal Licensing System	POC	Address
Colorado Interstate Gas	<u>ULS License - Microwave Industrial/Business Pool</u> License - WQV71 - Colorado Interstate Gas Company, L.L.C. (fcc.gov)	John L Sawtell P:(866)775-5785 E:fcc_regulatory@Kindermorgan.com	Colorado Interstate Gas Company, L.L.C. John L Sawtell 2 North Nevada Ave Colorado Springs, CO 80903 ATTN FCC Regulatory Group
Larimer County	ULS License - Microwave Public Safety Pool License WQEW974 - LARIMER COUNTY (fcc.gov)	- ATTN DAVE ROWE P:(970)498-5398 F:(970)498-9203 E:drowe@larimer.org	LARIMER COUNTY 2501 MIDPOINT DRIVE FT COLLINS, CO 80525 ATTN DAVE ROWE
New Cingular Wireless PCS, LLC	<u>ULS License - Common Carrier Fixed Point to Point</u> <u>Microwave License - WQHP971 - New Cingular</u> <u>Wireless PCS, LLC (fcc.gov)</u>	Cecil J Mathew P:(855)699-7073 F:(214)746-6410 E:FCCMW@att.com	AT&T Services, Inc. Cecil J Mathew 208 S Akard St., RM 1015 Dallas, TX 75202
State of Colorado	ULS License - Microwave Public Safety Pool License	ATTN OIT/Telecommunication Services P:(303)764-7700 F:(303)764-7764 E:OITCommservices@state.co.us	State of Colorado OIT Services 601 E. 18th Avenue, Suite 250 Denver, CO 80203 ATTN OIT/Telecommunication Services
Union Pacific Railroad Company	<u>ULS License - Microwave Industrial/Business Pool</u> License - KBA44 - UNION PACIFIC RAILROAD COMPANY (fcc.gov)	PROKARMA NANCY J CARY P:(402)522-5068 F:(402)346-6676 E:njcary@Pkglobal.com	PROKARMA NANCY J CARY 222 SO 15TH ST. SUITE 505N OMAHA, NE 68102
Union Telephone Company	<u>ULS License - Common Carrier Fixed Point to Point</u> <u>Microwave License - WQGL229 - Union Telephone</u> <u>Company (fcc.gov)</u>	ATTN Todd Slamowitz P:(703)584-8673 F:(703)584-8696 E:tslamowitz@fcclaw.com	Lukas, LaFuria, Gutierrez & Sachs, LLP Pamela L Gist Esq 8300 Greensboro Drive, Suite 1200 Tysons, VA 22102 ATTN Todd Slamowitz

Emergency Communications Provider	Jurisdiction	POC	Address
Laramie Police Department	Emergency 911 dispatching for all Albany County	ATTN Steven Morgan	Steven Morgan
	residents.	P: (307) 721-5376	PSAP Administrator
		E: smorgan@cityoflaramie.org	PO Box C
			Laramie, WY 82073