## Appendix E-4

Public Outreach



## **Two Rivers Wind Energy Project**

Carbon & Albany Counties, Wyoming September 10, 2018



## **Two Rivers Wind Energy Project**

## **Project Location**

- Approximately 19,547 acres
- Privately owned ranches with interspersed federal and state parcels
- Unincorporated Carbon and Albany
  Counties
- Near the Towns of Medicine Bow and Rock
  River
- Accessed by Highway 30



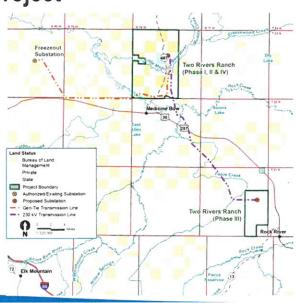
## BluEarth

## **Two Rivers Wind Energy Project**

## **Proposed Wind Energy Development**

- •Up to 336 megawatts (MW) of generation capacity
- Up to 80 wind turbine generators, assuming a 4.2 MW model
- Ancillary facilities include:
  - A 34.5 kilovolt (kV) collection system
  - Two maintenance and storage buildings
  - Two substations
  - Access roads
  - A 230 kV overhead transmission line connecting the two project substations
  - A 230 or 345 kV overheard Gen-Tie transmission line connecting to the existing Freezeout substation

BluEarth





## **Two Rivers Wind Energy Project**

## **Project Development Summary**

Permitting and Approvals:	2018 - 2019
Construction:	2019 - 2020
Commercial Operations:	4Q 2020
Estimated cost of construction:	\$364 million
Estimated Local & State Sales Taxes:	\$15 million
Estimated Project lifetime Property Tax:	\$30 million
Estimated Average No. of Jobs:	169 construction
	10 operations and maintenance

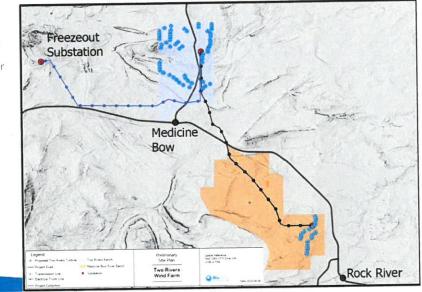
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## **Two Rivers Wind Energy Project**

## Site Plan

- 58 WTG on Two Rivers Ranch
- 19 WTG on Medicine Bow River Ranch
- 2 x Project substations
- 230-345kV transmission lines
- Point-of-Interconnection at Freezeout substation
- Project Electrical Collector System and roads (not shown)

## BluEarth



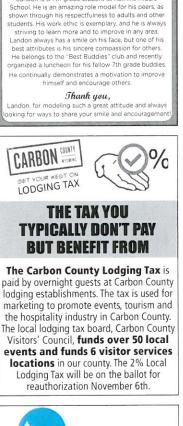
RAWLINSTIMES.COM

Please help us celebrate Landon Thompson **October Unsung** Hero of the Month. Landon is a 7th grade student at Rawlins Middle

## Meet your neighbor: Pat Taylor



Build-Rite Do It Center Assistant Manager Pat Taylor has worked with the company 28 years. Taylor started as a cashier and now oversees employees and manages inventory. Native of Cheyenne, Taylor grew up in Pine Bluffs and moved to Rawlins with her former husband in 1978. Taylor has remained in Rawlins, where her brother, father, two sons and grandchildren also live. Outside of work, Taylor enjoys fixing ip a cabin at the Seminoe Boat Club with her longtime boyfriend Floyd Archuleta, fishing, and spending time with family. Make sure to say hi the next time you see Pat Taylor





## **Two Rivers & Lucky Star Wind Projects** Public Meeting

Two Rivers Wind LLC and Lucky Star Wind LLC, both wholly owned subsidiaries of BluEarth Renewables US LLC, are planning to develop two wind projects across three private ranches in Carbon and Albany Counties, Wyoming. The Two Rivers Wind Project is proposed to consist of four wind energy generation facilities totaling 280 MW. Two Rivers is located north of Highway 30 and Medicine Bow. The Lucky Star Wind Project is proposed to be a 500 MW wind energy generation facility, located north of Medicine Bow con the south side of Highway 30. located south of Medicine Bow on the south side of Highway 30.

## **Public Meetings**

BluEarth welcomes the public to attend free open house informational meetings to learn more about these two projects.

## Monday November 5, 2018

City of Rawlins The Depot Center Room 400 W. Front Street Rawlins, WY 82301 4 p.m. to 6 p.m. (drop-in)

## Wednesday November 7, 2018

Town of Rock River Town Hall 321 Ave. D Rock River, WY 82083

Town of Medicine Bow Community Hall 221 Pine Street Medicine Bow, WY 82329 2 p.m. to 4 p.m. (drop-in) 5 p.m. to 7 p.m. (drop-in)

## Thursday November 8, 2018 City of Laramie

Laramie Recreation Center 920 Boulder Drive Laramie, WY 82070 4 p.m. to 6 p.m. (drop-in)



BACKYARD **Year End Clearance Sale** 

All In-Stock

Barns

October 26 & 27, 2018

815 N Higley Blvd 307-320-3007

Two Rivers & Lucky Star Wind Projects **Public Meeting** 

Two Rivers Wind LLC and Lucky Star Wind LLC, both wholly owned subsidiaries of BluEarth Renewables US LLC, are planning to develop two wind projects across three private ranches in Carbon and Albany Counties, Wyoming. The Two Rivers Wind Project is proposed to consist of four wind energy generation facilities totaling 280 MW. Two Rivers is located north of Highway 30 and Medicine Bow. The Lucky Star Wind Project is proposed to be a 500 MW wind energy generation facility. located south of Medicine Bow on the south side of Highway 30.

## Public Meetings

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Town of Medicine Bow

221 Pine Street Medicine Bow, WY 82329

Community Hall

## Monday November 5, 2018

**City of Rawlins** 

The Depot Center Room 400 W. Front Street Rawlins, WY 82301 4 p.m. to 6 p.m. (drop-in)

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## Thursday November 8, 2018

City of Laramie Laramie Recreation Center 920 Boulder Drive Laramie, WY 82070 4 p.m. to 6 p.m. (drop-in)



## Postmaster

Continued from page 12

is a junior, and York, son of Mr. and Mrs. Jim York of the Friday at 10 a.m. at the pos Silver Spur Ranch, is a se-office by Al Lujan, manager nior in agricultural business. The awards they received go annually to students who do not participate in major col-lege athletic, but contribute to its success at UW.

## 25 Years Ago November 3, 1993

## Encampment postmas-ter picked for Saratoga

position Encampment Postmaster Rebecca Perkins has been named postmaster at Saratoga.

Perkins will be installed office by Al Lujan, manager of post office operations.

Other post office officials attending include Wayne Wienke, Rawlins postmaster; Joseph Jussila, Baggs post-master; and Nancy Trautman, Wamsutter postmaster. Sonna Swanson has been officer in charge at Saratoga singe the resignation of Gail Norwood at the end of April

At the Encampment Post Office, Ruth Banzhaf, postmaster reliefs, has been sworn in as officer in charge until the appointment of a new postmaster there.



## 🚵 Valley News Vote, then bleed

Your election day donation at St. Ann's can help up to four patients

## Staff Report

The Saratoga Council of Catholic Women is spon-Catholic Women is spon-soring a community blood drive on Tuesday, Nov. 6 from noon until 5:30 p.m. at St. Ann's Parish Hall. According to Vitalant

would donate if only they is required for anyone 16 knew the importance of or 17 years of age. Donors knew the importance of or 17 years of age. Donors blood. Doctors use blood must bring with them only for one reason: to sustain life. And, there is no substitute for blood. It one of the following: date cannot be manufactured. of birth, social security

separated into different components: red blood cells, used by surgical to donate. patients; plasma, given The mai to those who have suf-fered burns or trauma; because no platelets, often needed by

- million Americans depend on blood transfublood for these patients in area hospitals are volunteer blood donors.
- One out of every 3 people will need blood during their lives, but only one in 20 people regularly give blood.
- The human body aver-ages 8-11 pints of blood;
- Blood can only be stored on hospital shelves for seconds someone needs blood transfusion.
  To make an appoint. www.titalant.org (spon-sor code is "Toga") or call Larscheid at 326-8603 or coll 865. • The area blood centers 321-8865.

are in need of all blood types, but especially O-, B- and A-. Donors with these blood types are encouraged to donate during this drive.

trom noon until 5:30 p.m. during this drive. at St. Ann's Parish Hall. Blood donors must be According to Vitalant at least 16 years of age (formerly United Blood and weigh at least 110 Services), more people pounds. Parental consent would donate if each them is required for anyone 16 identification containing their legal name and us substitute for blood. It one of the following: date cannot be manufactured. of birth, social security It is the 'gift of life' that only human beings can Services assigned donor give to one another. "Blood donors save lives," organizer Val Lar-scheid said. "Several of that they are currently them, in fact, because taking. It is very helpful each donation can be taking. It is very helpful for donors to drink plenty of water and eat well the 24 hours before they come

The main reason peo-ple don't donate blood is because no one has asked them. Please consider platelets, often needed by them. Please consider patients with cancer; and this a personal invitation cryoprecipitate, a special to donate at the Saratoga blood clotting factor used to help people with hemo-it's simple, there is little, philia. Your one donation if any, pain and it is one can help as many as four patients." Here are some other sionate acts of service a statistics and facts: person can do.

Here are some other stotate acts of service a statistics and facts: • Five hundred people a week are needed to do-nate blood to serve the ry questionnaire on the 47 area hospitals in this day of their donation, region. which can reduce the · Each year, more than 4 in-person interview to only a few essential fol-low-up questions. Simple sions. The only source of instructions can be found via the "Health History Questionnaire" link on the United Blood Services website www.vitalant org. Donors who schedule their appointment online will receive a link to the questionnaire in their appointment reminder email before the blood drive.

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Lucky Star and Two River Wind Projects      City of Rawlins 11/5/18    Town of Rock River 11/7/18    Town of Medicine Bow 11/7/18      Gity of Family    Town of Rock River 11/7/18    Town of Medicine Bow 11/7/18      4 - 6 p.m.    5 - 7 p.m.    4 - 1      Thank you for attending our open house to discuss the Lucky Star and Two Rivers Wind Projects. Please sign in below	Name Organization CLIF SMIH Im Ipuesducke Alth Blair Bullon ACHPB	Var plus Kleen Hewron City Grucip

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City of Laramie 11/8/18 4 - 6 p.m.

Thank you for attending our open house to discuss the Lucky Star and Two Rivers Wind Projects. Please sign in below

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City of Laramie 11/8/18 4 – 6 p.m.

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Thank you for attending our open house to discuss the Lucky Star and Two Rivers Wind Projects. Please sign in below

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**Blu**Earth<sup>®</sup> Renewables-us

## Two Rivers Wind Proje C Sign-In Sheet

# Thank you for attending our open house to discuss the Two Rivers Wind Project. Please sign in below.

Please note that photos or videos may be taken at this event, and by signing in below you consent to BluEarth's use of any photos or videos.

Name	Address	Phone	Email
Leis Johansson	BIIN 4 TS SI.	307-321-3966	307-321-3966 Townhall & SinkeinWyercom
JDICK OSTER	JDICK OSTER P. D. BOX 2805 207-634-112	3307-634-112	N
Rick Stricklin	Polley 47 rechling uy Bail 300 460-844/ N wate D. R. wet M. R. P.	30- 460-844/	N water D. R. w. M. W. W. T
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Summer Haley	P.O. BUK 115 Ruch River, Wy 307-710 898 3540161201009mail.com	307-710 -8189	32forley2010@qmail.com
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Paul Trione	P.U. Box 25 Rock Runn, WY 307 331-5138	W 307331-5138	daugening@hotmail.cu
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## Two Rivers Wind Proje Sign-In Sheet

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## Welcome to the Two Rivers Open House

Please sign in at the front desk and provide your contact information if you would like to receive Project updates.

We invite you to walk around and look at the displays. If you have questions or comments, please ask one of our representatives.

Thank you for attending!



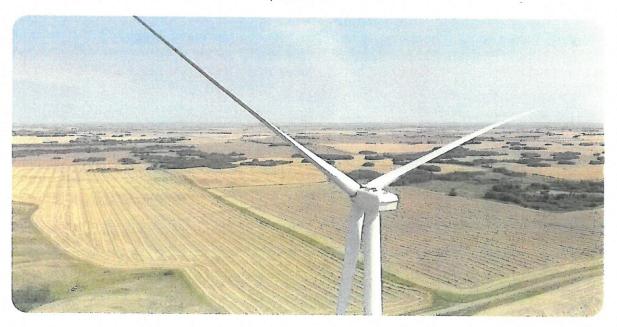


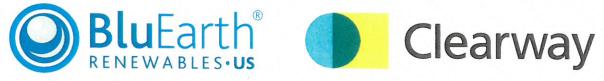
## **Project Background**

Development work has been underway on the Two Rivers Wind Project since 2017.

BluEarth Renewables first began outreach efforts on this Project in 2017, after acquiring the project. Over the last year, we have conducted pre-construction wildlife surveys that are consistent with the U.S. Fish and Wildlife Service Land-based Wind Energy Guidelines and Wyoming Game & Fish recommendations. We have also been meeting with the Wyoming Game and Fish Department and U.S. Fish and Wildlife Service to determine the level of baseline survey information needed. The Project is currently engaged in a NEPA Environmental Assessment with the U.S. Department of Interior Bureau of Land Management.

The project is being developed by Two Rivers Wind LLC ("Two Rivers"), which is a joint venture partnership between BluEarth Renewables US LLC and Clearway Energy Group ("Clearway"). Clearway will be the long-term operator of the Two Rivers Wind Project when the project reaches commercial operations.



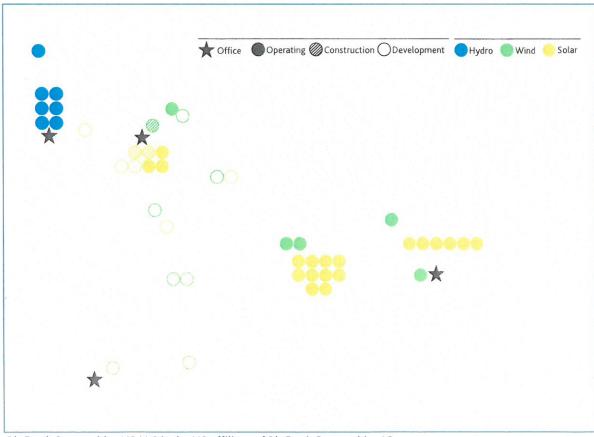




## About BluEarth Renewables

BluEarth Renewables brings together extraordinary people with the power to change the future™ by delivering renewable energy to the power grid every day. Headquartered in Calgary, Canada, we are a leading, independent, power producer that acquires, develops, builds, owns and operates wind, hydro and solar facilities across North America. Our portfolio includes 333 MW net (405 MW gross) of nameplate capacity in operation and under construction and over 1,000 MW under development.

For more information, visit bluearthrenewables.com



## **Our Portfolio**

BluEarth Renewables US LLC is the US affiliate of BluEarth Renewables LP.

Power to Change THE FUTURE™



## **About Clearway Energy Group**

Clearway Energy Group is leading the transition to a world powered by clean energy. Along with our public affiliate Clearway Energy, Inc., we own and operate over 7.5 gigawatts of renewable and conventional energy assets across the country. As we develop a nationwide pipeline of new renewable energy projects for the future, Clearway's 5 gigawatts of wind, solar, and energy storage assets offset the equivalent of nearly 8.8 million metric tons of carbon emissions for our customers today. Clearway Energy Group is headquartered in San Francisco, CA with offices in Carlsbad, CA; Scottsdale, AZ; Houston, TX; and Princeton, NJ. For more information, visit clearwayenergygroup.com.

NTD: Clearway - do you have an image or photo map you would like us to include here?

## **Project Description**

We are planning to submit local and state permit applications required to construct and operate the Two Rivers Wind Project across two private ranches in Carbon and Albany Counties, Wyoming. Permits required for the project include Conditional Use Permits from the counties as well as an Industrial Siting Council (ISC) Permit from the Wyoming Department of Environmental Quality.

Project Details	
Location	North of Highway 30 and Medicine Bow
Point of Interconnection	Freezeout substation
Project Area	19,500 acres
Expected Capacity	280 MW
Preliminary Site Plan	Up to 61 wind turbines on Two Rivers Ranch

\*Estimated



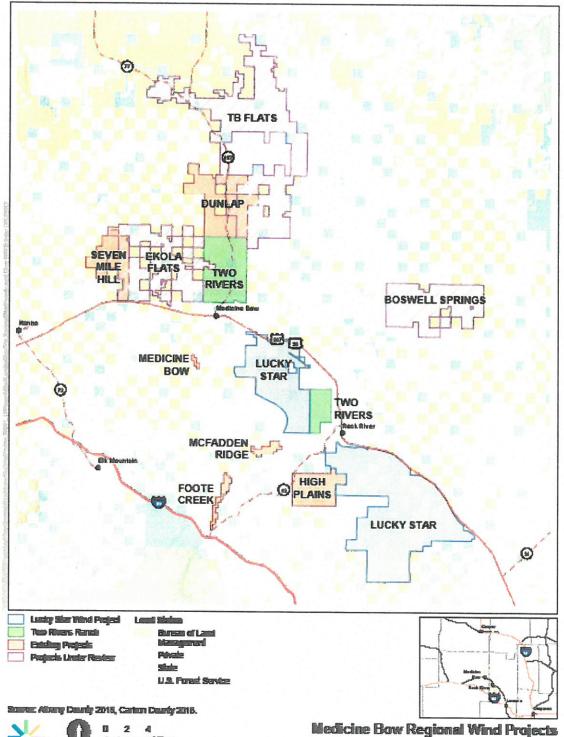




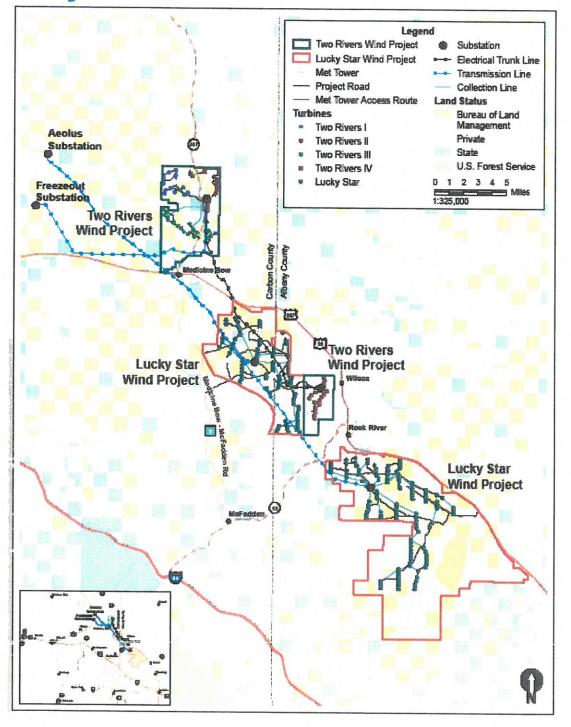
## **Regional Overview**

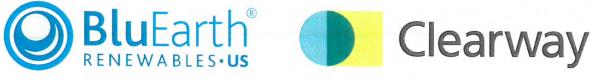
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An overview of existing and proposed wind energy projects in the region.



## **Project Plans**





## **Construction Schedule**

Construction would begin with road improvements, road construction, and geotechnical investigations and would be followed by construction of foundations, the electric collection systems, and installation of wind turbine generators. The preliminary site plan consists of two substations, electrical collector systems and roads, and a 230-345 kv transmission line to the point of interconnection.

	2021			2022				2023				2024				
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## **Community Benefits**

The Two Rivers Wind Project will benefit the local community through additional longterm tax revenue, employment during construction and operations, and boosts to the local economy with the procurements of goods and services.

**Two Rivers Wind Project** 

Fiscal Benefits & Tax Revenue	
Cost of Construction	\$540 million
Material Cost	\$305 million
Local & State Sales Taxes	\$16 million
Lifetime Property Tax	\$61 million
Wind Energy Production Tax	\$30 million over 30-year project life
Employment Benefits	
Construction Employment	Up to 170
Average Monthly Wage (Construction)	\$3,800 / worker
Operations Employment	Up to 10
Average Monthly Wage (Operations)	\$3,360 / worker



## **Permits & Coordination**

We are actively coordinating with local, state, and federal authorities to minimize any disturbance to the environment that may come as a result of construction and operation of the Projects, to obtain the appropriate environmental permits, and to develop species-specific survey and conservation plans, as necessary.

Some of the following items are required, and some are voluntary commitments worked on in coordination with federal, state, and local authorities:

- Wyoming Department of Environmental Quality, Industrial Siting Council Section 109 Permit
- Carbon and Albany County Conditional Use Permits for a Wind Energy Conversion System
- County Road Use Agreements
- Eagle Conservation Plan and Eagle Take Permit from U.S. Fish and Wildlife Service
- Bird and Bat Conservation Strategy
- Monitoring Plan for Wyoming Game and Fish Department
- US Army Corps of Engineers Clean Water Act Section 404 Permit
- Pre-Construction Permits (e.g. Wyoming Department of Environmental Quality Large Construction General Permit)





## **Environmental Studies**

Pre-construction wildlife surveys have been conducted consistent with the U.S. Fish and Wildlife Service Land-based Wind Energy Guidelines. We are coordinating extensively with state and federal environmental agencies to gather all necessary baseline data to permit the project. Meetings with the Wyoming Game and Fish Department and U.S. Fish and Wildlife Service have been initiated to determine the level of baseline survey information needed and coordination will continue.

The following environmental studies have been completed, are currently underway, or are planned to be completed for the Projects:

- Site Characterization Completed November 2018
- Avian Use/Eagle Point Count Surveys Completed 2020
- Raptor Nest Surveys Completed 2020
- Eagle Activity/Flight Path Completed 2020
- Sage Grouse Lek Surveys Completed 2020
- Bat Acoustic Monitoring Completed 2020
- White Tailed Prairie Dog Colony Mapping Completed 2019
- Big Game Fixed Routes Completed 2020
- Wetland/Waters of the U.S. Delineations Completed 2019
- Ecological Site Description Mapping Completed 2018
- Cultural Resource Surveys Completed 2019
- Erosion Potential Assessment anticipated completion 2022
- Sensitive Wildlife Species Surveys Completed 2019

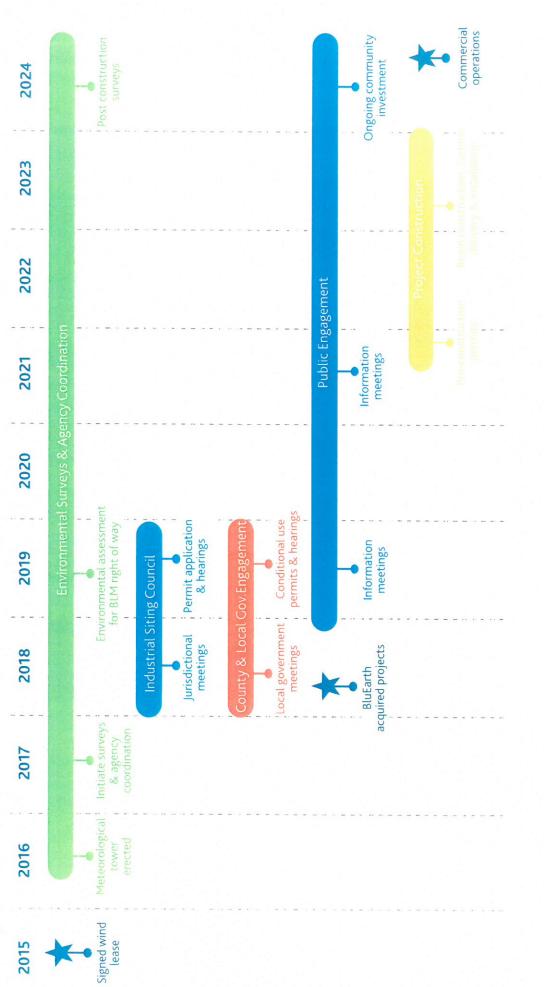








## **Project Timeline**



## Thank you for attending!

Please fill out a comment form and provide your feedback on the proposed projects.

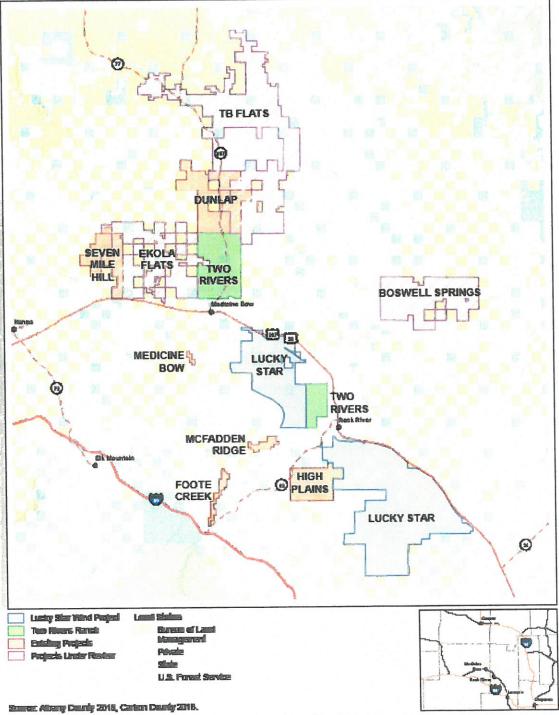
If you would like to receive updates, please provide us with your name and contact information.

bluearthrenewables.com/tworivers projects@bluearth.ca 1.844.214.2578



## **Regional Overview**

An overview of existing and proposed wind energy projects in the region.

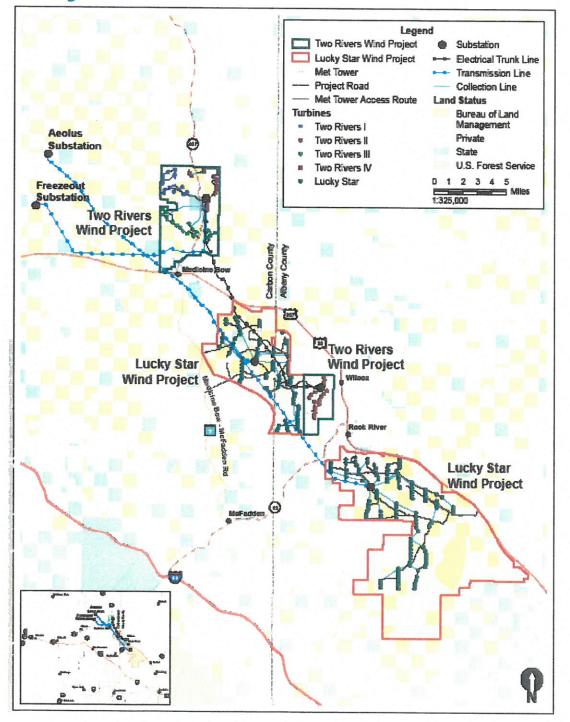




4

Medicine Bow Regional Wind Projects

## **Project Plans**





Clearway



## **Project Overview**

Two Rivers Wind LLC, is a joint venture partnership between BluEarth Renewables US LLC and Clearway Energy Group ("Clearway"). Clearway will be the long-term operator of the Two Rivers Wind Project when the project reaches commercial operations. The project will consist of wind turbines, a substation, electrical collector systems and roads, and 230-345 kv transmission lines to the point of interconnection.

Project Details				
Location	North of Highway 30 and Medicine Bow			
Point of Interconnection	Freezeout substation			
Project Area	19,500 acres			
Expected Capacity	280 MW			
Preliminary Site Plan	Up to 61 wind turbines on Two Rivers Ranch			
Timeline				
Permitting and Approvals	2018 - 2022			
Construction	2023			
Commercial Operations	Late 2024			
Economic Development & Com	munity Benefits			
Cost of Construction	\$540 million*			
Local & State Sales Taxes	\$16 million*			
Lifetime Wind Tax	\$61 million*			
Number of Jobs	170 during construction* 10 during operations and maintenance*			

\*Estimated

## but BluEarth

adEarth Renewables brings together extraordinary people with the power to change the future™ by delivering renewable energy to the power grid every day. We are a leading, independent, power producer that acquires, develops, builds, owns, and operates wind, hydro and solar facilities across North America. Our portfolio includes 658 MW (556 MW net) of nameplate capacity in operation, under construction and contracted pre-construction and over 2.5 GW under development.

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