

# **Clearway Overview**

Clearway is a leading integrated renewable energy company with the 5<sup>th</sup> largest renewable operating fleet in the U.S. and a proven development platform



#### **2022 Operating Footprint:**



3.7 GW Wind



1.7 GW Solar



341 MW Distributed & Community Solar



80+ MW Energy Storage



Natural Gas

5.7 GW
Renewable Energy

In Operation

30 GW

Renewable Energy In Development & Construction \$11.8 BN

Capital Raised for Project Financings

10+ M

Metric Tons of CO<sub>2</sub> avoided annually for our customers

~750

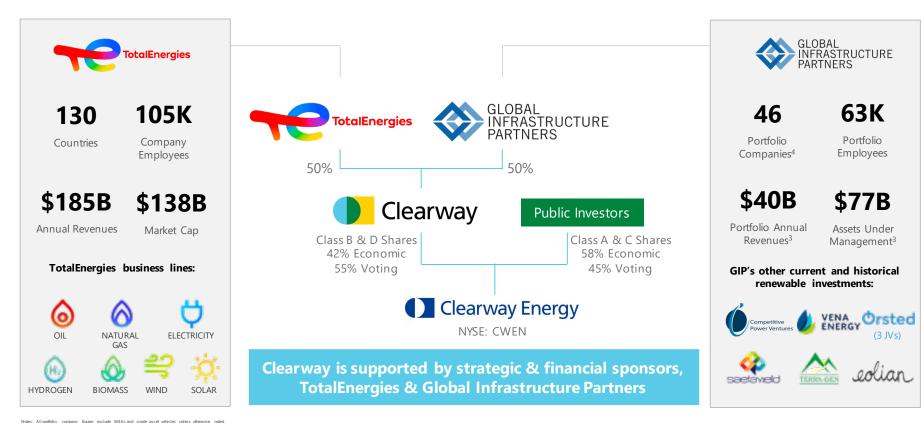
Employees

1. Energy Storage MW in construction and to be completed in 2022

2 Confidential and Proprietary



# **Ownership Structure**





## **How Clearway is Different**



Clearway controls all stages of the value chain.



Development

Project Development



Engineering &

Procurement

**+** 

Construction

Management



Project Finance



Commercial Operations



Clearway operates a nationwide platform.





Clearway has built long-standing relationships.

25+
inancing Partners

500+
Land Owners

30+ Supplier Partners

100+ Utility Relationships



Clearway has proven our ability to execute.

350+

Projects in Operation

\$11.8 BN

Capital Raised

100+

**PPA Customers** 

20k+

Community Solar Subscribers



## **Who We Work With to Develop Our Projects**

Clearway partners with top renewable energy buyers, financial institutions, EPC firms, and manufacturers.









**Equipment Manufacturers** 



# **Industry Ranking**

Clearway is the 6<sup>th</sup> largest owner of operating wind and solar energy in the United States based on a 2022 Bloomberg New Energy Finance report.



Source: BNEF League Tables, January 2022



# **Clearway's West Virginia Fleet**



Clearway is the largest owner and operator of wind energy plants in West Virginia. With 433 MW of wind energy sites in operation, Clearway has demonstrated its commitment to investing in the Mountain State's workforce and economy.

**SNAPSHOT:** Clearway completed in early 2022 the **115 MW Black Rock Wind farm**, which **increased West Virginia's wind generating capacity by 15%.** In 2021, Clearway completed repower construction of our **54 MW Pinnacle Wind** and acquired the nearby **264 MW Mt. Storm** wind farm. We are also developing an expansive pipeline of future opportunities across the state.

clearwayenergygroup.com

#### 433 MW

Total Wind Generation

\$400,000

200 +

Jobs Created

During 2021

**\$70,000**Annual Community Donations

in Community
Donations Since 2011

70+

Community Organizations Supported Since 2011 \$2.0 Million

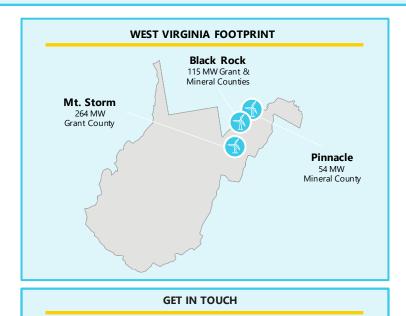
State and County Taxes Paid Annually

35+

Permanent Operations & Maintenance Jobs Created 210,000

Homes Powered Annually

Serving Grant and Mineral Counties



@ClearwayEnergy



#### **ABOUT CLEARWAY**

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 convertional 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.

### **Pinnacle Wind Farm**

Located near Keyser, Mineral County, West Virginia



Installed capacity: 54.4 megawatts

Turbines: 23 SGRE SG 108 - 2.335MW machines

Total (tip) height: 136 m

Rotor swept area: 9,144 m<sup>2</sup>

Blade length: 52.6 m

Operational since 2012

Repowered in 2021, \$90M capital investment, more than 85% of previous equipment recycled or reused

Repower construction overseen by Joint Venture of Bechtel and Reed & Reed

Project Labor Agreement with West Virginia State Building & Construction Trades

Jobs created: 50

Customers: Maryland Department of General Services,

**University of Maryland System** 



### **Black Rock Wind Farm**

Located near Elk Garden, straddling the Grant & Mineral County line in West Virginia's Eastern Panhandle







"This investment, this innovation, this diversification for West Virginia is amazing. I want to thank Clearway for recognizing the potential in West Virginia and creating this wonderful investment in our people and our state. We are here to help you in every possible way."

— Governor Jim Justice



Black Rock Ground-breaking, Feb 2021

Installed capacity: 115 megawatts

Turbines: 23 SGRE SG 145 - 5.0 MW machines

Total (tip) height: 180 m

Rotor swept area: 16,513 m<sup>2</sup>

Blade length: 71 m

Construction completed in December 2021, \$200M capital

investment

**Commercial operations in February 2022** 

Construction overseen by Joint Venture of Bechtel and Reed & Reed

Project Labor Agreement with West Virginia State Building & Construction Trades

Jobs created: 200

Customers: Toyota North America Motors, AEP Energy

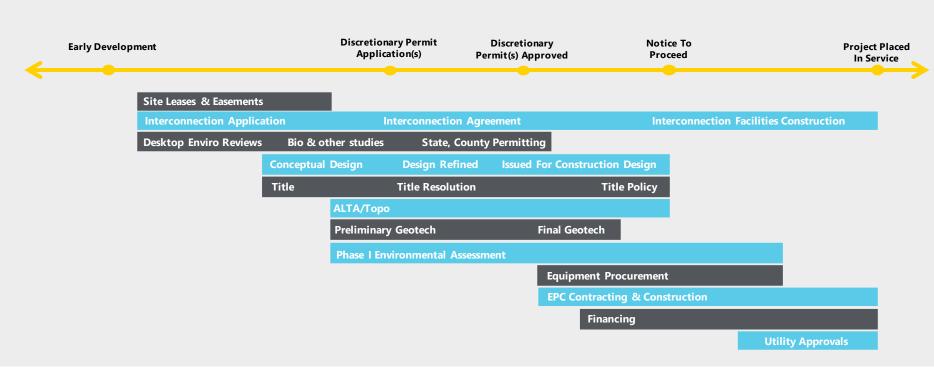
**Partners** 



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# **Project Lifecycle & Development Activities**

The Development team engages through the full project lifecycle (typically 4-6 years) from early-stage site reviews until Operations



### **Clearway Community Benefit Fund**

Clearway is proud to be a force for good in the communities where we work and build on our reputation as a responsible, committed, and invested longterm neighbor.

The Clearway Community Benefit Fund's primary purpose is to enhance the community by providing funding for projects related to education, historic preservation, public safety. economic development, public recreation, parks, playgrounds, athletic facilities, and other similar activities. At our Black Rock and Pinnacle Wind Farms, the Clearway Community Benefit Fund has donated more than \$400,000 so far.

A key feature of the Clearway Community Benefit Fund is local oversight. Committees of local residents – called allocation committees – meet each year and review the dozens of grant proposals received. This local involvement ensures that the Clearway Community Benefit Fund supports organizations and causes that are particularly important in the community.







#### PINNACLE WIND FARM

#### **Community Benefit Fund**

- \$20K awarded in 2022
- More than \$270K awarded since start of fund

#### **BLACK ROCK WIND FARM**

#### **Community Benefit Fund**

- \$131K awarded in 2022
- \$50K per year going forward

#### MOUNT STORM WIND FARM

#### **Adopt-A-School Program**

- Annual contributions to Maysville Elementary and Union Educational Complex
- Funding for STEM lab, educational resources, field trips



### What's Next in West Virginia



#### **New & Repowered Wind Projects**

- West Virginia's ridge-tops have some of the best onshore wind resources in the eastern US
- Modern wind turbines have been designed to excel in these areas, and, in instances of repower, a single new modern turbine can produce more output than multiple older turbines
- High generation to footprint ratio
- Experienced and skilled local labor pool

#### Solar Photovoltaic

- Generation profile aligns well with electrical load
- Prime productive use of brownfields, including former surface coal mines
- Similar to wind technology, solar technological improvements are increasingly generating more MWhs per panel area
- Levelized cost of energy among the lowest





#### **Energy Storage**

- When paired with wind and/or solar, can provide around-the-clock renewable energy to the grid or a behind-the-meter end-user
- Provide critical ancillary services for the electrical grid, including capacity, frequency regulation and voltage control
- Compact footprint requires little acreage

#### **Green Hydrogen Production**

- Emissions-free source of electricity to power electrolysis
- Supports arrival of in-state clean industrial infrastructure and businesses
- Levelized cost of hydrogen projected to decline materially
- Significant opportunity for American innovation leading to global leader





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