

Clearway Energy

Clearway

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Acknowledgments/

Contributors

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## **Message**From Our CEOs



**Craig Cornelius**Chief Executive Officer
Clearway Energy Group



**Christopher Sotos** Chief Executive Officer Clearway Energy, Inc.

In 2023, we celebrated Clearway's fifth year operating as a standalone business. It was a challenging year for our industry, but one that also saw significant steps toward a cleaner energy future, and one in which we further advanced the sustainability of our operations.

A key step we took in this regard was joining the <u>UN</u> <u>Global Compact</u> as well as the <u>UN Global Compact</u> <u>Network USA</u>, the largest corporate sustainability initiative in the world. Our ongoing commitment to our stakeholders is that we will operate responsibly in alignment with sustainability principles, support the communities in which we operate and society at large, and be transparent about our efforts.

We are keenly aware of the vital role played by the communities that host our clean energy projects. Throughout 2023, our site teams engaged in scores of community activities ranging from county fairs to food drives to career days at local schools, while contributing \$525,000 in charitable donations to the communities where we live and operate, in addition to \$52 million in property taxes and \$13 million in landowner payments.

We're also doing our part to ensure that the energy transition is just and inclusive. To this end, Clearway Community Solar works proactively to broaden the availability of our offerings among low- to moderate-income customers in the states where we have community solar projects, a key step toward increasing the diversity of Americans who have access to clean energy.

Taking action to mitigate and offset the impacts of our clean energy projects is another priority, and in 2023 we committed to investing \$19.2 million to conserve nearly 4,000 acres of habitat in perpetuity for sensitive species in California. Other examples include ongoing work to help conserve the California condor and supporting important legislation such as the Western Joshua Tree Conservation Act.

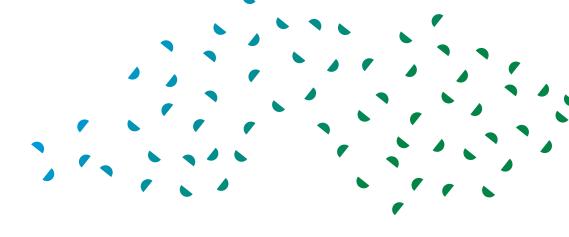
Arguably, Clearway's most significant contribution is helping to decarbonize the nation's economy. In 2023 we brought nearly a gigawatt of clean power online, and today our net operating portfolio produces enough carbon-free electricity to power more than two million American homes.

It is inspiring to think that America enters 2024 poised to achieve a major milestone. This year, clean resources – wind, solar, energy storage and hydropower – are projected to become the second largest source of US electricity for the first time in history. And renewables will once again be the largest source of new generation capacity in our country, cementing their critical role in powering the nation affordably and reliably while benefiting the environment.

We're proud of what our team and our industry have accomplished over the years in creating an industry that's reached this important milestone, and we look forward to continuing to expand the role that clean energy resources play for America in the years ahead.

We hope you enjoy our 2023 ESG report. In closing, we invite you to watch this short video of <u>selected</u>
Clearway highlights from 2023.

## Message From Our ESG Program Leads





**Ray Kelly**Senior Director, Environmental



**Noelle Chantarasap**Manager, ESG & Sustainability

On behalf of Clearway's Sustainability-ESG Committee, we are pleased to present our fifth annual ESG report. In 2023, our company continued to grow, as did our ESG program and practices. A notable change regarding our reporting is that we've expanded the <a href="ESG content">ESG content</a> on our website, enabling us to focus on selected highlights in this report.

Over the past year, we've continued to formalize our ESG program in preparation for compliance with mandatory disclosures related to climate change and climate-related risks as required by the US Securities and Exchange Commission and the California Air Resources Board.

The critical nexus between renewables and climate was underscored at the 28th annual United Nations Conference of Parties on climate change (COP28), in which more than 200 countries convened to discuss policies to limit global temperature rises and prepare

for future climate change-related impacts. Among the significant commitments made, 116 countries – including the United States – pledged to triple their renewable energy capacity by 2030.

In support of these efforts, Clearway's Sustainability-ESG Committee is developing a five-year climate roadmap. The roadmap will include company-wide guidelines, policies, strategies, and targets to reduce our GHG emissions and increase the resiliency and adaptive capacity of our operations in the face of future climate risks, all of which will help us reach our 2050 goals.

Throughout 2024, we will engage our employees in ongoing training and education around the roadmap and our climate goals to raise awareness and help each team member understand how they can contribute to our shared success. We look forward to sharing the results of this initiative with you in our next report.

# **About**This Report

This report describes the environmental, social, and governance aspects of the activities of Clearway Energy Group LLC and our public affiliate Clearway Energy, Inc. (collectively, "Clearway") for fiscal year 2023 (January 1 – December 31, 2023) and does not differ materially from our 2022 report. Topics related to Clearway's portfolio are primarily focused on the renewable energy assets we own and operate. Where specified, selected information pertains solely to either Clearway Energy Group LLC or to Clearway Energy, Inc.

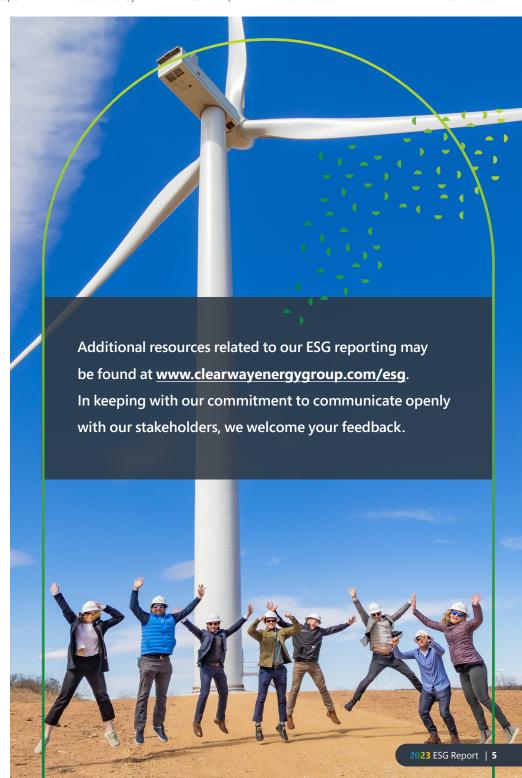
This is our fifth annual report, and while it references <u>GRI disclosures</u>, it is not in accordance with the GRI reporting standards. We are also reporting on selected <u>SASB disclosures</u>, as well as our alignment with the ten principles of the United Nations Global Compact. We have no restatements to disclose, and no external assurance has been sought specifically for this report.

## Please send your comments to:

## Zadie Oleksiw

Senior Director, Communications

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# 2023 Performance Highlights



## **ESG Snapshot**

In 2023, we continued to deliver on our vision to create a world powered by clean energy by providing affordable, reliable power from wind, solar, and battery storage. Highlights from the past year include:



Employing more than **800 people** in clean energy jobs in **34 states** and creating another **2,171 construction jobs** in **six states** 



With help from our employees, contributing \$525,000 in charitable donations to the communities where we live and operate, in addition to \$52 million in property taxes and \$13 million in landowner payments



Joining the **UN Global Compact** in March 2023



Securing **\$821.5 million** in corporate sustainability-linked credit facilities



Becoming finalists for two
prestigious 2023 S&P Global Platts
Global Energy Awards



Winning HRO Today's DEI Program of the Year - Medium Market Award



Achieving one of our most favorable safety performance years in recent history with a Days Away/Restricted Duty or Transfer (DART) rate of 0.38 for sites where we perform operations and maintenance, which was below our 2023 target



Deepening our commitment to creating a culture of safety by expanding our human performance initiatives to include a focus "CAVE" culture

## Clearway







## 5th Largest Owner of Renewable Energy in the US



>350 clean energy assets in operation across 34 states



**30 GW of renewable energy** under development

## 10.4 GW Operating Portfolio\*



~8 GW Renewables



**2.5 GW** Conventional

## 8.5 GW Ownership Portfolio\*\*



**6.1 GW** Renewables



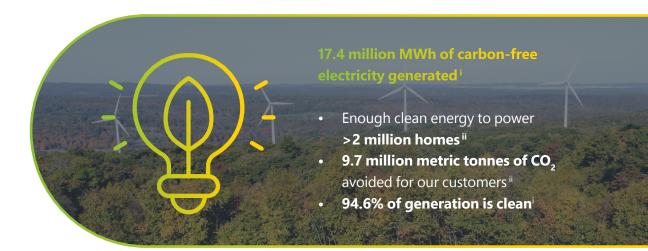
2.4 GW Conventional



Power purchase agreements with 100+ customers



\$15 billion raised for project financings



 $<sup>^{*}</sup>$  Gross assets refers to the 10.4 GW in operation, which includes both our renewable energy fleet (7.9 GW) and conventional assets (2.5 GW).

<sup>\*\*</sup> Net assets refers to the 8.46 GW we own, which includes both our renewable energy fleet (6.1 GW) and conventional assets (2.4 GW).

Lased on our net owned capacity of 6.1 GW. The net MWh figure in this report includes generation from projects owned by both Clearway Energy Group LLC and Clearway Energy, Inc. (CWEN), and differs from the figure presented in CWEN filings and earning materials as the figures in this report were calculated using an equity control approach that includes the company's equity method investments and estimated MWh related to economic curtailment.

Estimates based on 12 months of net generated electricity; figures are approximate and are not used in our formal emission inventories. Calculated using the CO2 emission rates from the US EPA AVoided GeneRation Tool (AVERT) except for Hawaii which uses the eGRID CO2 emission rates.

Report

## **ESG Goal Dashboard**

Goals help us identify and focus on priorities, track our progress, and hold ourselves accountable, and are therefore a key part of our ESG strategy. The table below outlines our progress on our ESG goals:

ТОРІС	SUB- TOPIC	GOAL	STATUS
Environment	Emissions	By 2035, <b>95%</b> of the electricity we generate will be carbon-free, and by 2050, Clearway will achieve net-zero Scope 1 and 2 GHG emissions.	On track
Environment	Portfolio	By 2030, Clearway will own <b>10 GW</b> of renewable assets.	On track
Social	Supply Chain	In 2023, we will direct a minimum of <b>5%</b> of our expenditures as described above to local, environmentally aware, diverse, and small businesses.	Complete
Social	DEI	By 2023, we will have delivered DEI training to all Clearway employees and increased diverse representation within our organization.	Complete
Social	Community	By 2025, <b>100%</b> of our renewable energy sites that are more than 50 MW in size will have community engagement plans and participate in our Adopt-a-School program.	On track
Governance	Executive Leadership	The boards of Clearway Energy Group LLC and Clearway Energy, Inc. are committed to active oversight of our ESG-related matters, including reviewing the status and performance of our ESG initiatives at least semi-annually.	Ongoing

## **2023 ESG Goal Highlights:**



94.6% of the electricity we generated (17.4 million MWh) was carbon-free.



The implementation of our Clearway LEADS supplier diversity policy, as a contractual requirement for projects contracted in 2023 and starting construction in 2024, has enabled us to begin gathering ESGrelated information for our direct suppliers and setting goals for sustainability in our supply chain.



We achieved 72% participation among qualifying sites in our Adopt-a-School program and made progress on qualifying sites with community engagement plans, increasing this to 94%.



We instituted a more objective framework for interviewing job candidates, leading to a substantial increase in the percentage of underrepresented demographic identities in our employee base; 60% of our new hires were diverse.



## **Advancing Our Pipeline** with Clean Energy Financing

In August, Clearway Energy Group announced that it had secured \$821.5 million in sustainability-linked senior secured credit facilities. The financing will help advance our development pipeline of more than 30 gigawatts of solar, wind, and battery storage projects.

The sustainability-linked credit facilities consist of a \$300 million revolving credit facility, a \$171.5 million green term loan, and a \$350 million letter of credit facility.

The credit facilities are aligned with the **Sustainability Linked Loan Principles** and will be subject to annual review by our external sustainability auditor.



## **Supporting the Integration of Renewables**

A reliable electrical grid is essential to almost every aspect of modern life, from our economy and national security to healthcare, transportation, education, food safety, and dozens of other constants we depend on as we go about our daily activities. We flip the switch and the lights come on – but behind the scenes the grid operator must orchestrate available resources to ensure that instantaneous demand is continuously matched by generation.

As our nation and the world transition to cleaner sources of electricity such as wind and solar power, natural gas has an essential role to play in ensuring the resiliency and reliability of our energy supply. The grid must be able to withstand or quickly recover from unexpected outages as well as abnormal and disruptive events such as natural disasters, cyberattacks, or other unforeseen emergencies.

In 2023, the Clearway enterprise owned a net capacity of 2.47 GW of natural gas generation assets, including 2,282 MW of efficient, quick-start natural gas peaker plants in California. During peak load conditions, the output of these plants can be continuously adjusted to maintain the delicate balance between electrical supply and demand.

When offline, these assets provide non-spinning reserve, which means they can be started and reach full production quickly if the grid operator needs to immediately rebalance the system in response to an unexpected disturbance. Some of these units also

provide what's known as "black start" capability, which is essential to restore electric service if an extraordinary event causes widespread outages.

By ensuring that California can safely and reliably transition to using increasing levels of intermittent renewable sources, our natural gas assets are helping to significantly reduce carbon emissions from the electric sector in the Golden State. The balance of our net owned portfolio consists of 6.1 GW of wind, solar, and energy storage assets.

As a result, 94.6% of the electricity the Clearway enterprise generated was carbon-free,\* giving Clearway one of the lowest carbon intensities in the US power sector. Indeed, for 2023 our Scope 1 and Scope 2 emissions from our conventional assets were 0.54 million and 0.0054 million tonnes respectively.

We have set a goal that by 2035, 95% of the electricity we generate will be carbon-free, and by 2050, Clearway will achieve net-zero Scope 1 and 2 GHG emissions. Clearway Energy, Inc.'s (CWEN) parent company and primary development partner Clearway Energy Group has a ~30 GW development pipeline that is expected to continue to add renewable assets to CWEN's portfolio over time, thereby further reducing its carbon intensity.

\* Estimates based on 12 months of net generated electricity; figures are approximate and are not used in our formal emission inventories. Calculated using the CO2 emission rates from the US EPA AVoided GeneRation Tool (AVERT) except for Hawaii which uses the eGRID CO2 emission rates.

## **Awards and Recognition**

In 2023, we were honored that two of our projects were **named as finalists** for two prestigious 2023 S&P Global Platts Global Energy Awards:



Infrastructure Project of the Year: Mililani Solar + Storage

Financial Deal of the Year: Rosamond Central Battery Energy Storage System (BESS)

## Clearway Named HRO Today's DEI Program of the Year – Medium Market Award







HRO Today Magazine, an international human capital management publication, selected Clearway as having the best mid-market DEI Program of the Year.

## **Clearway Recognized as "Best for Vets"**



We're proud to announce that Clearway made the Military Times' 2023 **Best for Vets: Employers** list. The survey captures the areas of greatest importance to transitioning service members, veterans, and their families when looking

for an employer. Recruitment and employment practices, as well as retention and support programs, were given the most weight and importance in scoring and final rankings.





## **Our Projects** & Customers



## A Billion-Dollar Clean **Energy Investment in a California Energy Transition Community**

In October 2023, we were proud to announce commercial operation of the Daggett Solar + Storage project in San Bernadino County, California. Combining 482 MW of solar with 280 MW of energy storage, the project is one of the largest hybrid facilities in the country.

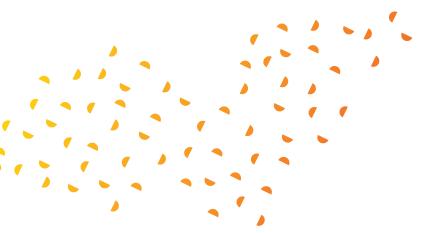
Located adjacent to the decommissioned Coolwater gas-fired power plant, Daggett Solar + Storage is repurposing old fossil fuel infrastructure to bring clean, reliable, and low-cost power to California homes and businesses for years to come.

The project's clean power is being purchased by six load serving entities, including Clean Power Alliance, Constellation, Ava Community Energy, MCE, Pacific Gas and Electric Company (PG&E), and Southern California Public Power Authority (SCPPA).

Daggett Solar + Storage will generate enough electricity to power more than 181,000 homes and will be able to store and deploy clean power during periods of peak demand to support grid reliability. Construction of the project was completed in partnership with I.B.E.W. Local 477, creating over 500 union jobs.

Operation of Daggett Solar + Storage will generate up to \$18.5 million in local tax revenue and \$5 million in spending annually in addition to sustaining more than a dozen onsite full-time jobs. The project will continue to support local institutions such as the Silver Valley High School and Alternative Education Center, the Silver Valley Fire Alliance, and local chambers of commerce.

The Daggett complex is being built in three stages, the first two of which are complete. The final 113.5 MW of battery storage, which is separately contracted with an investment-grade utility offtaker, is slated to reach commercial operations in 2025, bringing the full energy storage capacity of the complex to 394 MW.

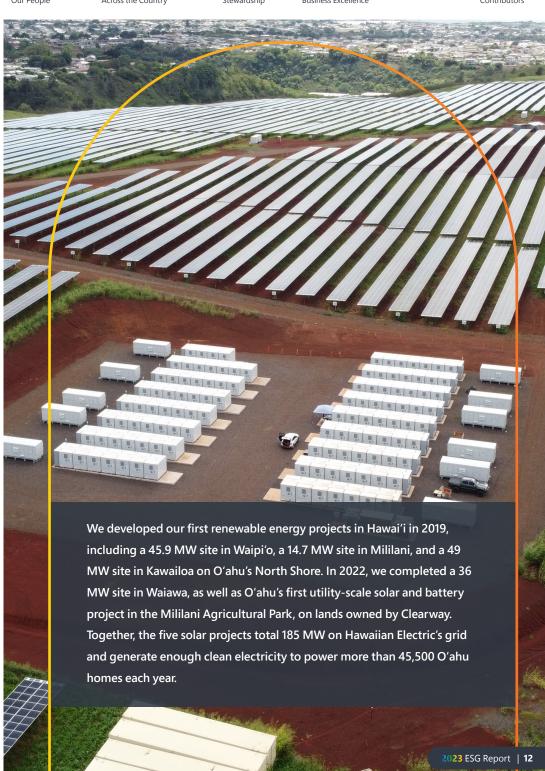


## **Clean Power for the Aloha State**

In January 2023, the Waiawa Solar + Storage project achieved commercial operation on the island of O'ahu. Located on Kamehameha Schools' lands, the 36 MW facility features 144 MWh (four hours) of energy storage capacity and will generate enough clean electricity to power more than 7,600 homes each year.

This is the second utility-scale solar and battery project we've developed on Kamehameha Schools' lands and that Hawaiian Electric has successfully brought online, and the fifth utility-scale solar project we've developed and constructed on O'ahu.

Waiawa Solar + Storage represents a \$150 million investment and is located on approximately 180 acres of land leased from Kamehameha Schools. The project generates clean electricity at about half the cost of fossil fuels and feeds the entire O'ahu grid, benefiting all island ratepayers. The battery system adds the flexibility to deliver clean electricity after the sun sets and demand for power peaks.



## **Health & Safety** At Clearway

In our unwavering commitment to sustainable and responsible business practices, safety stands as the cornerstone of our corporate values. At Clearway, we recognize that the health and well-being of our employees, stakeholders, and the communities we serve is paramount.



## **Building "Capacity"**

In 2023, we introduced the element of "capacity" to our Safety Management System. In this context, "capacity" refers to taking a more thorough and calculated approach to safety by planning and executing work with the expectation that failure will occur. Proactively identifying high-energy, high-risk hazards prior to the start of work and implementing robust controls to address those hazards represents a focused approach to "failing safe" – meaning that when failure does occur, the consequences are significantly minimized. To help our teams integrate safety and capacity into their day-today work, we created a series of instructional videos to reinforce key principles and promote ongoing focus on and awareness of these concepts.

## **Contractor Safety**

## Management

Effectively managing contractor safety is integral to ensuring a comprehensive and robust safety program. In 2023 we implemented the ISN Contractor Management System. This system provides us with a standardized and centralized system for evaluating and monitoring the safety performance of contractors, offering a transparent and data-driven approach to assess their adherence to safety protocols and regulatory standards.

## **Managing @ Clearway**

As part of our ongoing commitment to talent development, in 2023 we expanded the course formerly known as Frontline Leadership Training 1.0 and re-launched it as Managing @ Clearway, a two-day live-learning course for people managers that gives participants an opportunity to acquire and hone critical skills.

The course features cross-functional connections, insightful presentations, and collaborative breakout discussions on topics such as active listening, managing performance, delegating and setting expectations, giving effective feedback, and understanding and leveraging one's leadership style.

## **Deepening Our Safety Culture**

In the realm of world-class safety programs, the relationship between human performance and organizational learning is a key element of continuous improvement. By cultivating a culture that prioritizes human factors, we empower our workforce to not only comply with safety protocols but to actively engage in risk mitigation and hazard prevention.

In 2023 we expanded our human performance initiatives to include a focus on "CAVE Culture." The acronym represents the principles of:



The objective of cultivating a "CAVE Culture" is to go beyond the policies, processes and procedures that form an organization's safety program and embed a deeper understanding and appreciation of the program's underlying purpose and goals – protecting employees, contractors, and the areas in which we operate.

This is done through creating an environment that focuses on learning from incidents rather than seeking blame, seeks employee input in identifying best practices and areas for improvement, and improved safety training. To learn more about our health and safety practices, please visit our **website** and review our **2023 safety metrics**.

## **Our 2023 Safety Targets**



## **TARGET**

Implement safety roadmap and limit Days
Away/Restricted Duty or Transfer (DART) rate
to 0.50 for operations.



## **RESULT**

Achieved. We implemented our safety roadmap, and our 2023 DART rate for operations was below target at 0.38.



## **Proud** of Our People

## **2023 Clearway Voices**



**Survey Response Rate** 



"I am proud to work for Clearway"



"I would recommend Clearway as a great place to work"

## **Growing Green Jobs**

GROW Fest is an event dedicated to connecting youth to "green" jobs and educating BIPOC communities about sustainable resources and opportunities with leading companies. Clearway Community Solar **teamed up** with our Black Inclusion Group (BIG) and Allies group to sponsor and support the 2023 GROW Fest in Houston.



## **Supporting Our Troops**

Through our VETRN employee inclusion group (EIG), Clearway has partnered with Hiring Our Heroes (HOH), a Department of Defense program that provides fellowships to US military members transitioning to civilian life. HOH Fellows participate in a 12-week experience funded by the Department of Defense, then have the opportunity to transition to full time employment in the hosting company. Our VETERN EIG has been instrumental in promoting this program throughout Clearway, which has resulted in several new hires. Veteran hiring reached 6% within Clearway in 2023, putting the organization level with US population representation.



## **Engaging Employees**

We strive to be an industry leader in employee engagement, and our 2023 Clearway Voices employee survey returned strong results. Overall, 82% of employees who responded to the survey had a favorable opinion of our diversity, equity and inclusion efforts and programs.

For more on employee engagement and benefits at Clearway, visit our careers page.

## **Recruiting and Growing Top Talent**

Clearway strives to attract and retain the best talent in the industry, and in 2023 we launched a new careers page on our website to support this initiative. It's powered by a dedicated recruiting platform that improves our ability to find and hire the best candidates, giving us a strategic advantage in today's competitive market.

In addition, we continue to focus on the growth and development of new and existing employees by expanding opportunities within the talent pathway programs.



## Onboarding, Training, and Development at Clearway in 2023



## **New Employees**

## Launch

Quarterly onboarding program sessions that help new hires integrate into the company and set them up for success

Attendance rate: 85-90%



## **Managers and Above**

## Managing @Clearway

Twice annual in-person class that introduces rising talent to management principles and leadership skills and competencies

**Graduates: 85** 

## **Leadership Impact Cohorts**

Monthly inclusive leadership development for Directors and above

**Participants: 131** 



## **All Employees**

## Clearway U

Monthly company learning sessions on various industry topics with speakers from across the company

**Average attendance: 200** 

## **Evolve Mentorship Program**

A nine-month mentorship program that pairs individuals in the company based on desired skill development and role

**Participants: 120** 

## **Allyship Training**

Required training, launched with support from our Allies Inclusion Group.

**Graduates: 100% of employees were** required to complete this training.

## **Reaching LMI Customers** with Community Solar

At Clearway, we work to ensure everyone can enjoy the benefits of clean energy by proactively addressing DEI issues within our community solar customer base. One of the ways we do this is by facilitating access among low- to moderateincome (LMI) customers.

We work with community solar fund investors to negotiate more flexible financing terms that will enable the product development necessary to broaden and diversify our customer base. In addition, our external affairs team works to advocate for policy changes at the state level that will further enable the financing of LMI community solar customers.

In 2023, we increased the number of LMI customers subscribed to community solar programs in New York, Massachusetts, and Colorado.



## **Our DEI Goals**

At Clearway, we strive to lead our industry in workplace DEI, and to cultivate an environment where dedicated, mission-driven people can thrive. In 2023, we achieved several goals related to DEI, laying the groundwork for further advances in this area in 2024:

## Goal

Increase demographic representation among all employees

## Result

60% of our new hires were from historically underrepresented groups.

## Goal

Increase representation among managers and above

## Result

Manager+ levels experienced a 7% increase in representation of women and a 4% increase in representation of people of color

## Goal

Support talent development for all employees

## Result

Clearway began its first live onboarding program to support talent development for all our employees; and 20% of the company participated in our second annual mentorship program.

## Goal

Implement and meet the goals of our supplier diversity policy (LEADS)

## Result

In 2023, we papered our first tranche of contracts partnering with engineering, procurement, and construction contractors to report on local, environmentally aware, diverse, and small businesses to push forward our supplier diversity goals.

## Goal

Align with our customers' DEI goals

## Result

Our leadership is implementing DEI programming for our employees, and rollout of the Clearway LEADS policy aligns Clearway with the DEI commitments our customers expect of their partners.

## Goal

Increase access to community solar for low- to medium-income customers

## Result

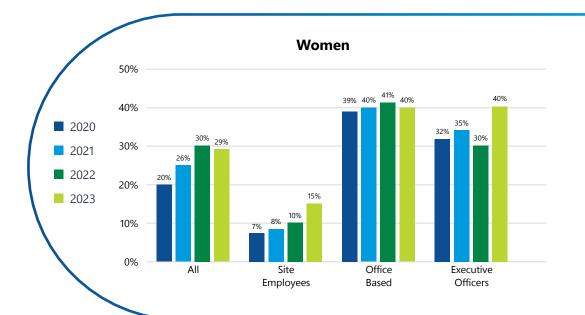
Clearway Community Solar includes several public housing authorities among its customers, and we continue to support advocacy and policy efforts in this area.

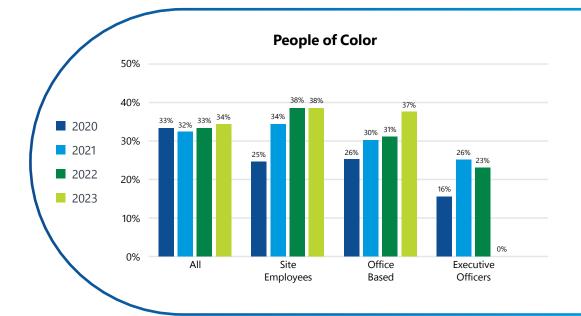
## **Our Diversity Metrics**

Diversity data is for Clearway Energy Group LLC and Clearway Energy, Inc., as of December 31, 2023.

Visit our website for more on our **DEI** initiatives and additional 2023 metrics.







Acknowledgments/

Contributors

Appendix

# Connecting ;; with Communities Across the Country

At Clearway, engaging with the communities that host our clean energy projects creates opportunities for us to give back. Here are just a few examples of how our site teams connected with local communities in 2023 and had fun in the process!

## **KidWind**

Clearway is an enthusiastic supporter of **KidWind**, which seeks to spark interest in renewable energy in schools and among educators, and funds training and scholarships to develop local community ambassadors. In partnership with our customer Toyota Motors North America, in 2023 we took this partnership to a new level in West Virginia.

Just before the start of the 2023-2024 school year, KidWind collaborated with the Grant County School District to create a teacher training option for professional development days. Those in attendance **competed against peers** to build turbines and were provided with free materials and curricula to help them integrate what they learned into their classroom activities.

In parallel with these activities, two young people who live near our Black Rock Wind Farm attended the KidWind Regional Challenge held at Shenandoah University in Winchester, Virginia.

The <u>KidWind-Toyota-Clearway partnership</u> will continue into 2024 with a focus on engaging not only educators, but students and their parents. Watch for a KidWind regional challenge in Grant or Mineral County in conjunction with West Virginia University Potomac State College and Eastern West Virginia Community & Technical College.



## Adopt-a-School

One of our ESG goals is that by 2025, **CWEN** LISTED **NYSE** 100% of our renewable energy sites that are more than 50 MW in size will have community engagement plans and participate in our Adopt-a-School program. As of 2023, 94% of our qualifying sites had community engagement plans, and 72% participated in Adopt-a-School. Here are some examples of our Adopt-a-School activities in 2023:



The operations and maintenance team at our solar projects in Southern California sponsored Palmdale High School's **Solar Car Challenge** team.

These future renewable energy leaders built a solarpowered car to race against other high school teams in a long-distance challenge.

Clearway team members visited the team during construction of the car and talked with them about renewable energy.



## Climbing to new heights

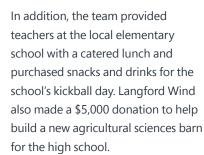
Third, fourth, and fifth graders from Taloga Elementary **visited** our Taloga Wind project in Dewey County, Oklahoma, and had a blast learning the ins and outs of an operating wind farm. Our site crew set up stations where the students could learn about personal protective equipment, tools, wind turbine parts, and cranes – the crane was clearly a highlight for all!





## **Langford Wind pitches in**

The site team at our Langford Wind project in Texas engages with the local community in multiple ways throughout the year. In 2023, local parents and other community members raised funds to build a new softball field. The Langford team "pitched in" by laying the sod, saving the community that expense.







Visit our website to learn more about how we engage with our communities!



## **Environmental** Stewardship

At Clearway, environmental stewardship includes reducing and eliminating our environmental and climate impacts while identifying opportunities to restore, revitalize and regenerate ecosystems wherever possible. This is supported by our commitment to minimize impacts to sensitive resources, and we implement environmentally conscious best management practices during project development, construction, and operations.

## **Conserving an Iconic Species**

The iconic western Joshua tree is native to the Mojave desert but has suffered declines in recent years due to habitat loss and climate change. Although it's estimated there are millions of western Joshua trees today, experts warn that without special protections more than 90% of the species' range could be lost by 2100.

Clean energy has an important role to play in slowing the impact of climate change, and California's deserts provide an excellent location for solar energy projects. In 2023, Governor Gavin Newsom signed the Western Joshua Tree Conservation Act, which creates a conservation plan for the tree while also enabling the state's transition away from fossil fuels.

The Act authorizes the California Department of Fish and Wildlife to issue permits for incidental take of western Joshua trees in connection with clean energy projects, as long as the impacts are adequately mitigated.

The Act makes it possible for us to proceed with our solar + storage projects in the region which will provide hundreds of millions of dollars in local investment and contribute to California's ambitious climate goals, which include achieving a 100% clean electric grid and economy-wide carbon neutrality by 2045.

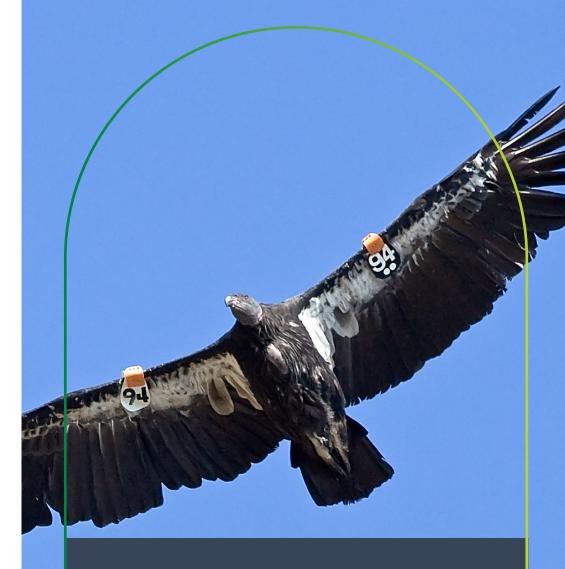
## **Soaring to New Heights**

Our 2022 ESG report introduced our participation in the Wind Energy Condor Action Team (**WECAT**), a group of wind energy project owners and operators within the Tehachapi Wind Resource Area (TWRA) seeking to proactively address the potential for conflicts between wind turbines and California condors.

To date, there is no record of a California condor being impacted by a wind turbine. However, with approximately 50 operating projects comprising nearly 3,500 turbines in the 200 square mile TWRA – more than 1,300 of which are operated by WECAT members, representing 2.3 GW of the total 3.3 GW of generation in the area – most observers expect that at some point a condor will be impacted by a turbine.

To help protect this iconic species, WECAT worked closely with the U.S. Fish and Wildlife Service (USFWS) and in June 2023 was successful in creating a **Condor Conservation Plan**.

WECAT anticipates spending a total of \$11.4 million on activities described in the conservation plan, including supporting **The Peregrine Fund** to breed, rear, and release into the wild 35 condors over the next 15 years, increasing efforts to detect condors that enter the TWRA, and providing training to staff so that attractants such as animal carcasses and trash are removed. In addition, other protective measures include reducing electrocution risks posed by power lines, annual reporting, and vehicle speed limits.



We're proud to have played a part in advancing WECAT's work with the USFWS to create this conservation plan, which represents the collective interests and partnership of the wind energy community to protect the California condor.



## **Mitigating Our Impacts**

All forms of energy generation have some environmental impact. If these impacts have the potential to affect sensitive species, developers often create mitigation plans to offset those impacts so the net effect on the species is neutralized, or better yet, results in additional positive outcomes.

In 2021 it was determined through consultation with the U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, and California Department of Fish and Wildlife that our Arica and Victory Pass solar + storage projects have the potential to impact the Mojave desert tortoise, which is listed as threatened by both the federal government and the state of California, and in the case of Arica, the Mojave fringe-toed lizard, which is a listed as a species of special concern in California.





In 2023 we worked with **Wildlands**, an organization that provides habitat mitigation solutions, to establish and implement plans to conserve habitat for these species at two private preserves in California which span the Mojave and Colorado deserts.

As a result, we have committed to conserving 2,245 acres of Mojave desert tortoise habitat within the McCoy Mountain Preserve, as well as 1,356 acres of Mojave fringetoed lizard habitat in the Mesa Verde Preserve, in perpetuity.

In 2023 we also worked with Wildlands to mitigate impacts from our Rosamond South solar + storage project, and in early 2024 we established the Tally Point Swainson's Hawk Preserve, which conserves 334 acres of habitat for that species in Kern County in perpetuity.

In total, these actions represent a **\$19.2 million** investment in our environmental stewardship program.

## Minimizing the Environmental Footprint of Our O&M

## **Activities**

Renewable energy projects may be powered by the wind and the sun, but they run on IT systems. Sophisticated computer systems manage a wide range of functions, from communicating with grid operators and monitoring equipment performance to optimizing clean energy production and identifying maintenance needs.

Since becoming a standalone company in 2018, improving efficiency and lowering costs has been a core focus of our operations and maintenance (O&M) activities. To this end, enhancing the ability of our IT personnel to provide services to our sites remotely significantly reduces or eliminates the expenses and emissions associated with travel, while also making it possible to address issues more quickly and minimize downtime. In 2023, this work included completing cybersecurity upgrades for our existing fleet, much of which was done remotely with support from our O&M team.

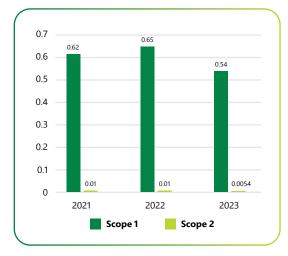
Clearway's industry-leading success in deploying IT resources at the site level is due in large part to the receptivity of our O&M teams to participating in the process. Thanks to our site teams' collaborative approach to problem solving, our IT staff have significantly reduced the environmental footprint of their interactions with projects, a benefit that extends to many of our third-party vendors and suppliers as well. In turn, site personnel have grown their skills and capabilities, and plant managers benefit from the ability to monitor facility performance remotely when needed

Please visit our website for additional 2023 metrics.

## **Our Environmental Metrics**

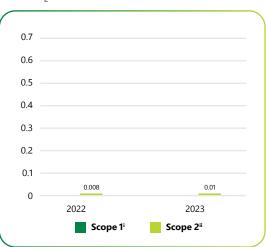
## **Conventional Assets**

CO<sub>2</sub> Emissions (millions of metric tonnes)



## **Renewable Assets**

CO<sub>2</sub> Emissions (millions of metric tonnes)



<sup>1</sup>Tracked at 89% of our renewable sites; includes fuel consumption from company vehicles only and staff travel to and from projects. ii Electricity consumption from renewable sites only.



## **Good Governance** & Business Excellence

Good governance and business excellence are central to who we are as a company. We work diligently to foster a strong culture of integrity, accountability, transparency, and good practices to sustain outstanding levels of organizational performance.





## **Increasing the Sustainability of Our Supply Chain**

In 2023, we **announced** a major volume commitment agreement with Nextracker, a leading supplier of enhanced tracker technology components for solar installations. The deal commits us to procuring 2 GW of Nextracker components between 2023 and 2026 for installation on projects that achieve commercial operation between 2024 and 2027.

The agreement stipulates a minimum percentage of domestically sourced content that will increase over time, which will drive investment in our nation's clean energy manufacturing sector while also reducing the environmental impacts associated with procuring components produced overseas.

Nextracker's solar tracker and software technology offer precise control over tracker row angles which helps maximize solar production and protect solar panels during extreme weather, including snow, hail, and high winds.

The US-made trackers will supply a portion of Clearway's solar development pipeline across 17 states, setting new standards of module protection and helping ensure the reliability and resilience of the solar industry.

## **Our Commitment to Panel Recycling**

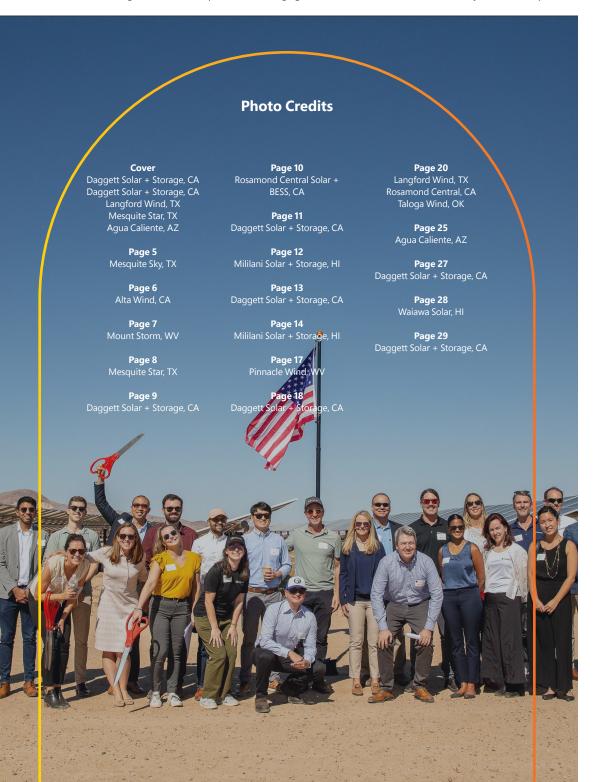
In 2023 we introduced a new requirement to our standard engineering, procurement and construction (EPC) contract template that obligates EPC providers to recycle any solar panels that sustain damage from shipping or during installation.

As a result, any damaged panels at projects that were constructed in 2023 – Waiawa, Daggett 2 & 3, Texas Solar Nova 1, Victory Pass, and Arica solar projects, as well as from Mililani I – were diverted from landfill and recycled.

Economically viable options for economic solar panel recycling are expected to grow significantly over the next few years. We're proud to have contracted with several module recyclers located near our projects that prioritize a sustainable and circular approach to recycling and reusing the critical materials recovered from panels, making it possible to divert damaged panels from disposal in landfills.









## **Appendix**

## **Forward Looking Statements**

## Safe Harbor

Clearway Energy Group LLC's and Clearway Energy, Inc.'s (collectively, "Clearway") 2023 ESG report contains forward-looking statements regarding the intentions, beliefs, expectations, or predictions for the future held by the companies' management. Such forward-looking statements are subject to certain risks, uncertainties, and assumptions, and typically can be identified by the use of words such as "will," "expect," "estimate," "anticipate," "forecast," "plan," "believe" and similar terms. Although Clearway believes that the expectations of its management are reasonable, it can give no assurance that these expectations will prove to have been correct, and actual results may vary materially. Clearway undertakes no obligation to update or revise any forward-looking statements, whether as a result of new information, future events, or otherwise.

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This effort wouldn't have been possible without the support of many helping hands. The following individuals played a role in providing information and data, developing, and shaping Clearway's 2023 ESG Report.



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