

# Spearheading infinitely sustainable energy

At EDP Renewables North America (EDPR NA), **we believe the energy we produce must not only be renewable, but infinitely sustainable.** To achieve that goal, we launched the Close the Loop program, an industry-leading initiative based on circular economy principles to minimize waste and maximize resource recovery and reuse.

## About the program

Our Close the Loop program is integral to our goal to reach net zero carbon emissions by 2040. **The program is the largest recycling partnership program in the industry**, with more than 20 partners — and still growing strong.

Globally, **EDP Renewables has set a target to recover and reuse 85% of all waste by 2026.** This includes waste at every stage of a project's lifecycle, from construction through decommissioning. Our ambition is to reach 90% waste recovery by 2030.

## Close the Loop by the numbers



Recovered

**72%**

of total waste generated from global operations in 2023



Recycled

**7.1 million lbs**

of renewable energy project materials in 2023



Targeted

**90%**

of waste recovery from all renewable energy assets by 2030



Partnered with

**20+**

recycling leaders to achieve the reality of a circular economy

## Better together: Creating a more sustainable supply chain

To build a truly sustainable supply chain, collaboration is crucial. We rely on the expertise of our partners to handle materials in the most responsible manner, and to continuously evolve according to industry best practices.

By demonstrating the power of collaboration, we can inspire others in our industry to do the same. Renewable energy developers, asset owners and operators must work together with waste recyclers to achieve the reality of a circular economy. This approach not only enhances recycling efficiency but also drives innovation, reduces environmental impact, and promotes economic growth.

“ We're looking forward to our continued collaboration with EDP Renewables North America on the launch of their Close the Loop Program in supporting a truly circular economy focused on recycling. As an innovative leader in the sector, we're proud of their strides in the North American market and in their pushing the envelope to ensure **high sustainability measures extend beyond construction to include the full project lifecycle** of their solar, wind, and storage projects.”

Janette Freeman, *Director of Business Development, Fabtech Solar Solutions*

## The EDPR Difference

The Close the Loop program shows the benefits of working with a developer with both global and regional experience. EDPR NA, whose parent company is EDP, a vertically integrated utility, has investment-grade financial backing that allows for the development of long-term environment-first initiatives that “future proof” our projects and benefit local communities.



## A 360-degree program

Close the Loop is an end-to-end, 360-degree program that touches every aspect of our project lifecycle. Every employee at EDPR NA is empowered to “close the loop” – from simple recycling efforts to full-scale reuse initiatives. No idea is too big or too small.

While solar panels and wind turbines are the most obvious components, every renewable energy project includes other materials that can also be recycled, such as solvents and oils, rare-earth minerals, as well as cables, concrete and steel. As the need for battery storage systems increases, battery recycling will become critical to minimize the mining of virgin materials and to decrease battery materials in landfills. Responsible materials management becomes increasingly important as the number of repowering and decommissioning projects grow.

Today, **80 to 94% of a wind turbine (by mass) is made up of readily recyclable materials**, including steel, iron, copper and aluminum.<sup>1</sup> Up to 95% of the value in a solar module can be recycled, extracted and reused.<sup>2</sup>

<sup>1</sup>The American Clean Power Association, August 2022. Wind turbine disposal and recycling strategies. <https://cleanpower.org/resources/wind-turbine-disposal-and-recycling-strategies>

<sup>2</sup>SolarCycle: <https://www.solarcycle.us/>

## Why work with EDPR NA

EDPR NA is leading the development of a circular economy powered by secondary markets such as recycling. The company aims to partner with leading experts in all geographies to help in setting global standards on materials production and waste management. This effort underscores our unified mission to building a sustainable energy future for all.

By partnering with EDPR NA, you’re embarking on an all-encompassing sustainability journey with a net-zero future in sight.

## Contact us for more information on the Close the Loop program.



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## About EDP Renewables North America

EDP Renewables North America LLC (EDPR NA), its affiliates, and its subsidiaries develop, construct, own, and operate wind farms, solar parks, and energy storage systems throughout North America. Headquartered in Houston, Texas, with 61 wind farms, 18 solar parks, and eight regional offices across North America, EDPR NA has developed more than 11,200 megawatts (MW) and operates more than 10,200 MW of onshore utility-scale renewable energy projects. With more than 1,000 employees, EDPR NA’s highly qualified team has a proven capacity to execute projects across the continent.

EDPR NA is a wholly owned subsidiary of EDP Renewables (Euronext: EDPR), a global leader in the renewable energy sector. EDPR is the world’s fourth-largest producer of wind and solar energy and is present in 28 markets in Europe, North America, South America, and Asia-Pacific. With headquarters in Madrid and leading regional offices in Houston, São Paulo, and Singapore, EDPR has a sound development portfolio of top-level assets and market-leading operating capacity in renewable energies. Particularly worthy of note are onshore wind, distributed and utility-scale solar, offshore wind (OW – through a 50/50 joint venture), and technologies to complement renewables such as storage and green hydrogen.

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At the Blue Canyon II Repower Project, EDPR partnered with Mortensen and Vestas to repower more than 200 blades, keeping 6000 metric tons of material out of the landfill while extending the project’s life another 20 to 30 years.

