



Energy Innovation  
for the  
**NEXT GENERATION**





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# Our Mission

Delivering renewable **solutions** to lead the transition to a **sustainable energy** future

**For over 35 years, EDF Renewables has been providing clean energy solutions throughout North America.**

EDF Renewables North America is a market-leading, independent power producer and service provider, delivering:

**grid-scale power:** large commercial wind (onshore and offshore), solar and storage projects for corporates and utilities

**distribution-scale power:** solar and storage customized for utilities, co-ops, landowners, communities, and institutions

**onsite solutions:** behind-the-meter solar, storage, smart EV charging, microgrids, and energy management systems for corporate and industrials

**asset optimization:** technical, operational and commercial skills to maximize performance of generating projects

EDF Renewables' North American portfolio consists of 18 gigawatts (GW) of developed projects and 14.6 GW of operating assets under service contracts.

EDF Renewables North America is a subsidiary of EDF Renouvelables, the dedicated renewable energy affiliate of the EDF Group.



Origination



Development



Transaction



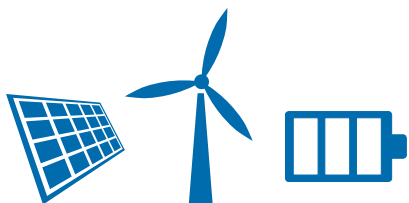
Construction



Optimization







## GRID-SCALE POWER

**Big projects. Bigger impact.**

EDF Renewables' Grid-Scale Power team provides origination, development, transaction and construction services for large-scale wind (onshore and offshore), solar power generation, and storage projects across North America.

Our team of leaders can solve energy challenges facing corporations and communities no matter the size or complexity.

# 35+ years

We've been on the forefront of the burgeoning wind industry in California as a service provider beginning in 1985.

# 16 GW

We expanded into project development in 2000 and have developed 14 GW of grid-scale solar, wind and storage projects across North America.

# \$24.6 billion

Since 2010, we have paid over \$24.6 billion to vendors, including lease payments made to landowners.

# 78,000

On-site jobs created over the lifetime of our Grid-Scale Power projects.

*Based on an employment factor of 5 jobs per MW*

*IRENA Annual Review 2022*









## DISTRIBUTION-SCALE POWER

**Experienced. Reliable. Integrated.**

The Distribution-Scale Power team provides industry-leading, cost-effective development, engineering, construction, and operations of solar and storage projects.

Solutions are customized for utilities, co-ops, communities, and institutions. The team specializes in community solar and environmentally sensitive sites.

# 20+ years

We started our distributed business in 1998, which consisted of residential and small commercial solar projects.

# 468 MW

We have experience designing, developing, and constructing solar and storage projects on all types of sites, including landfills, brownfields, and wastewater treatment plants.

# 1,509 MW

The Distribution-Scale Power team has installed over 1,509 MW of solar photovoltaic and storage projects across the United States.

# 20-100

Temporary construction jobs created per project during construction.

# 27

States with O&M jobs for the life of projects.









## ONSITE SOLUTIONS

**Multiple solutions. One point of contact.**

PowerFlex is a clean technology solutions company making the transition to carbon-free energy possible through a combination of green offerings including solar, storage, EV charging, and the intelligent energy management platform PowerFlex X™. Our ultimate goal is to usher in the age of the Virtual Power Plant where commercial and industrial customers realize cost savings, emissions reductions, energy security, and more by generating, storing, and utilizing clean energy right where it's needed.



# 500 MW solar installed

We're commercial solar experts. With rooftop, ground and carport projects across the United States, we've worked across industries to create projects personalized for our customers.

# 78.5 MWh storage installed

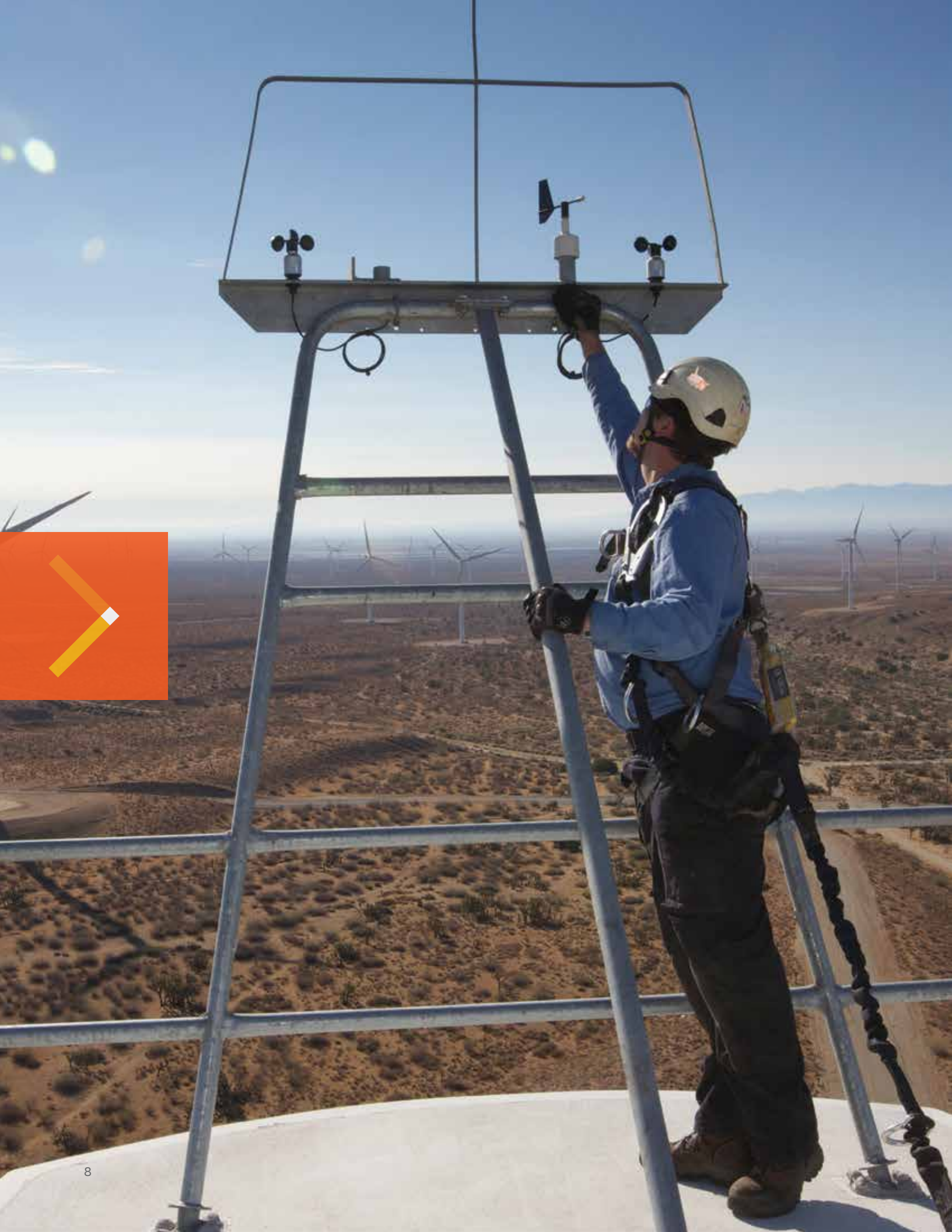
Our storage projects help give our customers more control over their energy use while increasing reliability.

# 14,076 EVs installed

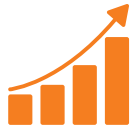
Our Adaptive Load Management software algorithm optimizes power consumption across a large network of EV charging stations helping customers make the most out of their EV chargers.

# 200+ employees

With employees across departments covering both coasts, PowerFlex has the national market cornered.







## ASSET OPTIMIZATION

**Maximize power production, efficiency and your investment.**

The Asset Optimization team offers a full range of services for all phases of renewable energy projects – operations, management, procurement, routine and emergency maintenance, retrofits and upgrades.

Our experienced team of over 600 full-time technicians, supervisors, managers and support staff means EDF Renewables is fully equipped to manage the balance of plant and day-to-day operations of your wind or solar project.

**14.6 GW**  
operations & maintenance

- On-site Preventative and Corrective Maintenance
- Balance of Plant (BOP) Management
- Major Component Repair / Replacement
- Engineering Support

**11.3 GW**  
under OCC monitoring

- 24/7/365 Remote Monitoring
- Performance Reporting
- Fault Reset / Notification Curtailment
- SCADA / NERC Compliance Support

**8.6 GW**  
assets under management

- Manage Cash / Debt Equity
- Ensure Contractual Compliance
- Monitor / Limit Market Risk
- Identify / Remedy Underperforming Assets
- Manage Power Purchase Agreements (PPA)

**600+**  
asset  
optimization  
experts

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# ONSHORE WIND

Wind power is a limitless, non-polluting resource that consumes virtually no water, and the power it generates is even more affordable than ever, with a 47% reduction in cost over the last 10 years.



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## Generating reliable energy, jobs and revenue.

When we operate our wind facilities, we provide long-term pricing in an environment where prices are constantly increasing, while also reducing CO<sub>2</sub> emissions, the most abundant greenhouse gas in the atmosphere.

Our wind projects support the local communities in which we work through landowner payments and tax revenues, while simultaneously creating jobs in construction and wind project operations. EDF Renewables' operating wind plants are among the top performers in the industry.

If you are a utility, municipality, cooperative or corporation, EDF Renewables can formulate a deal structure that meets your specific renewable energy goals.

We offer traditional Purchase Power Agreements (PPAs), Virtual Power Purchase Agreements (VPPAs), Design Build Sell (DBS) and a number of other offtake arrangements including hedges and renewable block products.



**11.6** <sup>GW</sup>  
developed

**85**  
projects

**3**  
countries



# OFFSHORE WIND

Offshore wind is a vast energy resource in the United States, with a national target of 30 GW by 2030.



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## New opportunities, new ventures in wind.

We are taking advantage of our many years of experience from onshore projects in order to guarantee an optimal level of operation for our offshore facilities.

Harnessing America's offshore wind resources presents an enormous opportunity to:



Create tens of thousands of highly skilled jobs



Revitalize coastal communities



Deliver large amounts of clean, reliable energy to the country's biggest population centers



OFFSHORE

3<sup>GW</sup>  
in development

## ATLANTIC SHORES offshore wind

In 2018, EDF Renewables North America and Shell New Energies formed a 50/50 joint venture, Atlantic Shores Offshore Wind, LLC, to co-develop a lease area with the potential of approximately 2,500 MW of offshore wind energy - enough to power close to one million homes. Both companies come with decades of experience developing onshore and offshore projects across the globe. Atlantic Shores Offshore Wind is composed of over 100 experts dedicated to delivering its 5+GW portfolio, strategically positioned to meet the growing demands of multiple East Coast Markets.

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# SOLAR

Solar energy is a sustainable, indefinite renewable resource for energy consumption, experiencing continued growth as solar PV prices have dropped 52% over the last 10 years.



## Producing sustainable energy to meet demands.

We design and build solar projects both on the distribution and grid-scale level. We contract with offtakers for long-term agreements or turnkey solutions — for customers who desire to own the asset.

EDF Renewables is also a leading developer of environmentally sensitive sites, revitalizing former landfills, brownfields and wastewater treatment plants into solar facilities.

Our tailor-made solutions meet the growing energy needs and demands of utilities, municipalities, cooperatives, universities and corporations.



**5.7** <sup>GW</sup>  
developed,  
constructed or  
contracted

**3**  
countries



### Clean and affordable energy, right where you need it

An onsite solar system is just as good for business as it is for the environment. Market data suggests that the average commercial property owner in the U.S. can slash overall energy costs by 75% by going solar. That's because producing your own electricity with solar at your facility means you'll greatly reduce your utility power consumption and the costly peak demand-based charges that come with it.

Since an onsite solar energy system is physically located at the point of use, it doesn't rely on the massive system of utility transmission and distribution lines that are increasingly vulnerable to extreme weather and other threats. Our PowerFlex brand offers customers onsite clean technology with flexible solutions.



# STORAGE

Storage systems help energy and facility managers to forecast, manage and reduce operational energy costs and hedge against rising costs as much as 5-10% annually.



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## Adding value, cost control and energy security.

Reducing operational cost is in higher demand than ever before. EDF Renewables strives to bring our business customers solutions that fit their specific requirements. Storage may be the right solution for your business as a standalone system or bundled with a solar package. In addition to lowering operational energy costs, storage can help control and forecast long-term energy budgets and increase energy reliability.

There are several options when it comes to adding storage—direct purchase, power purchase agreement, shared savings or power purchase agreement with shared savings. Each solution comes with a different set of factors. We can help you navigate these options and find the best solution for your business and bottom line.

EDF Renewables delivers storage on both the distributed and utility scale. It's not just commercial solar shoppers who benefit from installing energy storage. In fact, utility-scale battery storage is increasingly playing a major role in the operation of the electric grid, providing cost savings, environmental benefits and new flexibility for the grid. We specialize in providing the design, financing, installation, and operation of energy storage and solar solutions in order to help businesses and utilities reach their long-term goals.

We are at the forefront of this cutting-edge technology leveraging our global energy storage experience.



**220** MW  
operating  
storage projects



## EV CHARGING

The number of electric cars on US roads is projected to reach 26.4 million in 2030, with annual sales reaching nearly 5.6 million. Nearly 12.9 million charge ports will be needed to support this rapid acceleration.



## Electric vehicle smart-charging systems – large scale, cost effective, load managed.

Charging solutions must be implemented in the right places and quantities to sustain the growth of Electric Vehicle (EV) adoption.

To meet the scale required of the current adoption trends, businesses are confronted with substantial upgrades to their electrical systems, making EV charging installations financially burdensome and lengthy in time, if not completely infeasible.

PowerFlex created Adaptive Load Management (ALM), a software algorithm that optimizes power consumption across a large network of charging stations. ALM optimizes each station's output to meet user demand while only using a fraction of the aggregate power traditionally required.

This allows businesses to shave as much as 60% off the cost of electrical system upgrades and peak-demand charges, paving the way to larger and more affordable charging networks that ultimately meet or exceed the adoption pace of electric vehicles.



Workplaces  
Campuses  
Municipalities  
Fleets

**14,076**  
deployed



Design



Hardware



Software



Installation



Maintenance



# MICROGRID

Power outages are estimated to cost the U.S. economy \$150 billion annually. A microgrid is a zero-capital-cost energy solution that delivers energy resilience, reliability, lowers utility bills and achieves sustainability commitments.





## Clean Technology, Flexible Solutions

PowerFlex's customizable clean technology solutions allow organizations of all kinds to future-proof their business through carbon-free electrification.

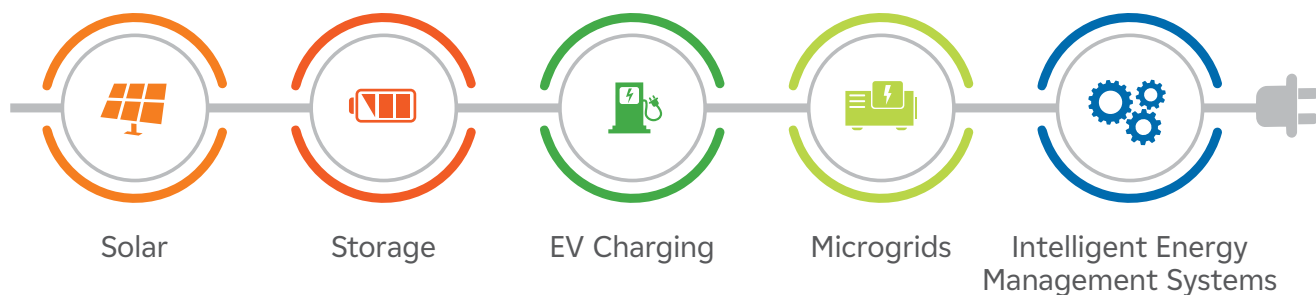
Leveraging zero-emissions energy, customers can limit operating costs, reduce reliance on utilities, and reach green goals — helping everyone from property developers to operations managers to sustainability officers do their jobs more easily and efficiently.

### Go Beyond the Grid

Our scalable offerings include onsite solar, battery storage, electric vehicle charging, microgrids, and intelligent energy management systems. Whether standalone or working in concert as a bundled system, these technologies bring clean, reliable, and affordable carbon-free power when and where it is needed, helping our clients reduce their long-term energy costs, increase resiliency, and achieve sustainability goals.

### Multiple solutions, one point of contact

When you work with PowerFlex, you have access to a full menu of renewable energy options that allows you to generate, store, and utilize zero-emissions electricity right on your own property. Our experts will design and build a dependable and long-lasting system that's not only tailor-made to your current needs but also has the ability to expand as those needs evolve. Best of all, you only need to interface with a single, reliable partner—PowerFlex.





## OUR AFFILIATES



Grid-Scale Power  
Distribution-Scale Power  
Asset Optimization  
Onsite Solutions



Building Energy Services



Solar for Corporates  
Storage  
EV Charging  
Microgrids  
Energy Management

# OUR OFFERINGS

## Partners in energy innovation.

EDF Renewables' and EDF affiliates' coordinated offerings allow our clients to meet their sustainability goals while saving them money.

Developing a clean energy roadmap with a full range of services to solve any energy challenge, no matter the complexity, is what we do best. The collaboration across our teams gives our customers access to an entire suite of options under one roof.



Solar Carport



Solar Rooftop



Solar  
Ground-mount



Electric Vehicle  
Charging



Operations &  
Maintenance



Energy Efficiency



Intelligent Energy  
Management Systems



Retail Energy  
Supply



Thermal  
Generation



Research &  
Development



LED



Storage



An aerial photograph of the EDF Renewables Corporate Headquarters in San Diego. The building is a modern, multi-story structure with a flat roof and large glass windows. It is surrounded by lush greenery, including palm trees and other tropical plants. In the foreground, there is a large parking lot with several cars parked. To the right of the building, there is a large solar panel array. The background shows a residential neighborhood with houses and trees, and in the distance, there are mountains under a clear blue sky.

# EDF RENEWABLES

CORPORATE HEADQUARTERS  
San Diego









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