GE VERNOVA

2026 ONSHORE WIND PRODUCT CATALOG

The Energy to Change the World

gevernova.com

A MESSAGE FROM VIC ABATE

Reliability. Execution. Partnership.

At GE Vernova Wind, our focus is clear: deliver reliable, carbon-free power at scale — safely, predictably, and with disciplined execution. As global electricity demand accelerates wind is no longer optional capacity; it is essential grid infrastructure. And infrastructure must perform. Turbines must run reliably, deploy safely, and deliver value over decades.

That is the standard we hold ourselves to.

Our onshore portfolio reflects a deliberate workhorse strategy — standardized, industrialized machines engineered for repeatable execution and long-term reliability. With more than 59,000 turbines operating globally, our experience informs every product we design, manufacture, and deploy.

Our 2.8 MW-127m, 3.8 MW-154m, 6.1 MW-158m, and 6.0 MW-164m workhorse turbines are designed to meet diverse grid and site requirements while maintaining disciplined manufacturing and installation processes. For customers, this means greater schedule certainty, lower execution risk, and predictable performance over the life of the asset.

Safety, quality, and repeatability are built into how we operate. Through advanced analytics, digital fleet insights, and innovations such as our digital blade certificate, we provide a level of traceability and quality assurance that strengthens reliability and raises the bar for the industry.

Markets will evolve. Demand will grow. Our approach remains disciplined — building resilient products and strong partnerships that support customers through every cycle. We are not building for short-term momentum. Together, we are building infrastructure designed to perform for decades.

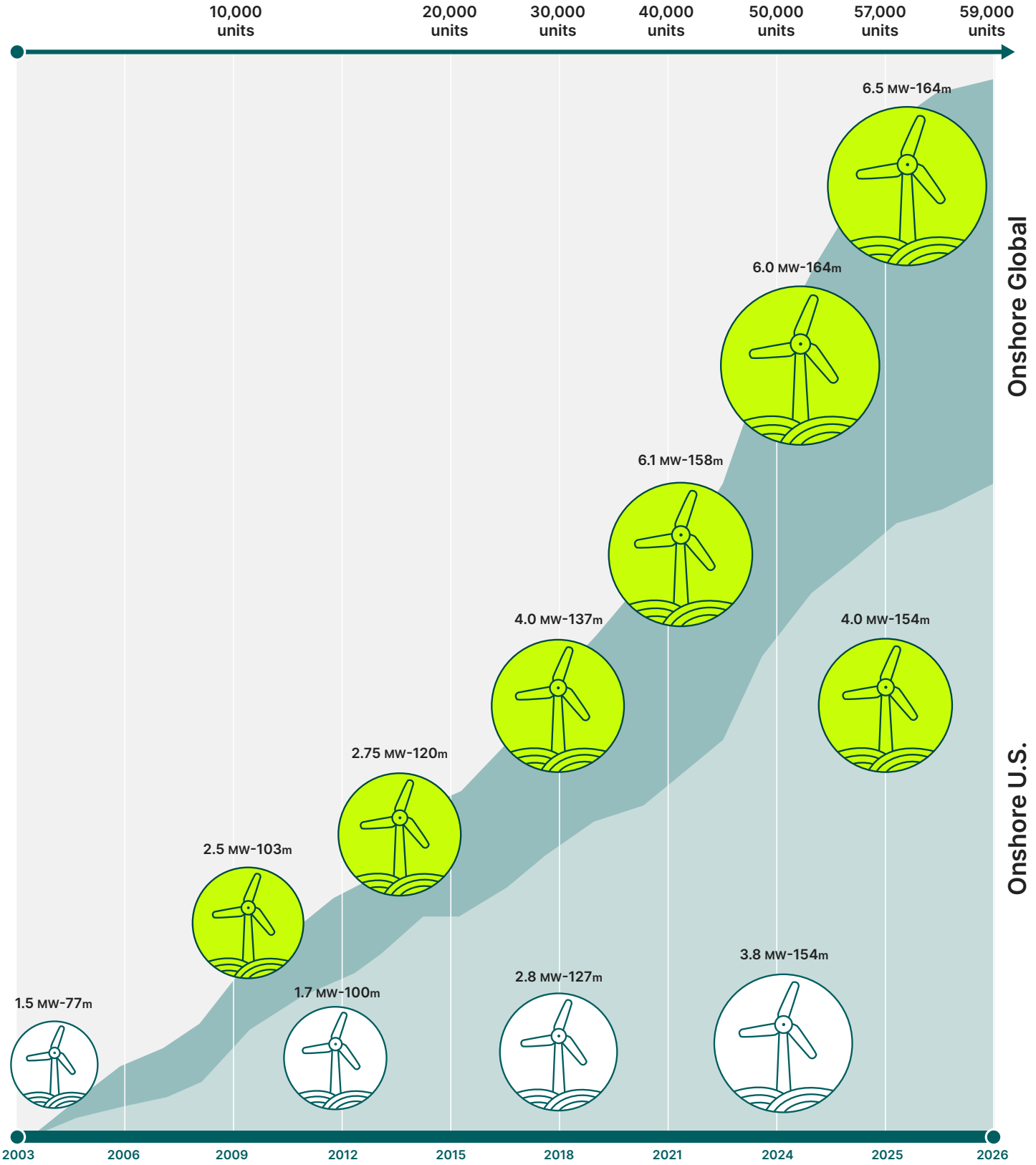
Our Commitment

We will work alongside you to deliver safe, dependable energy solutions — helping to meet the accelerating need for reliable, carbon-free power while shaping a more sustainable energy future for generations to come.

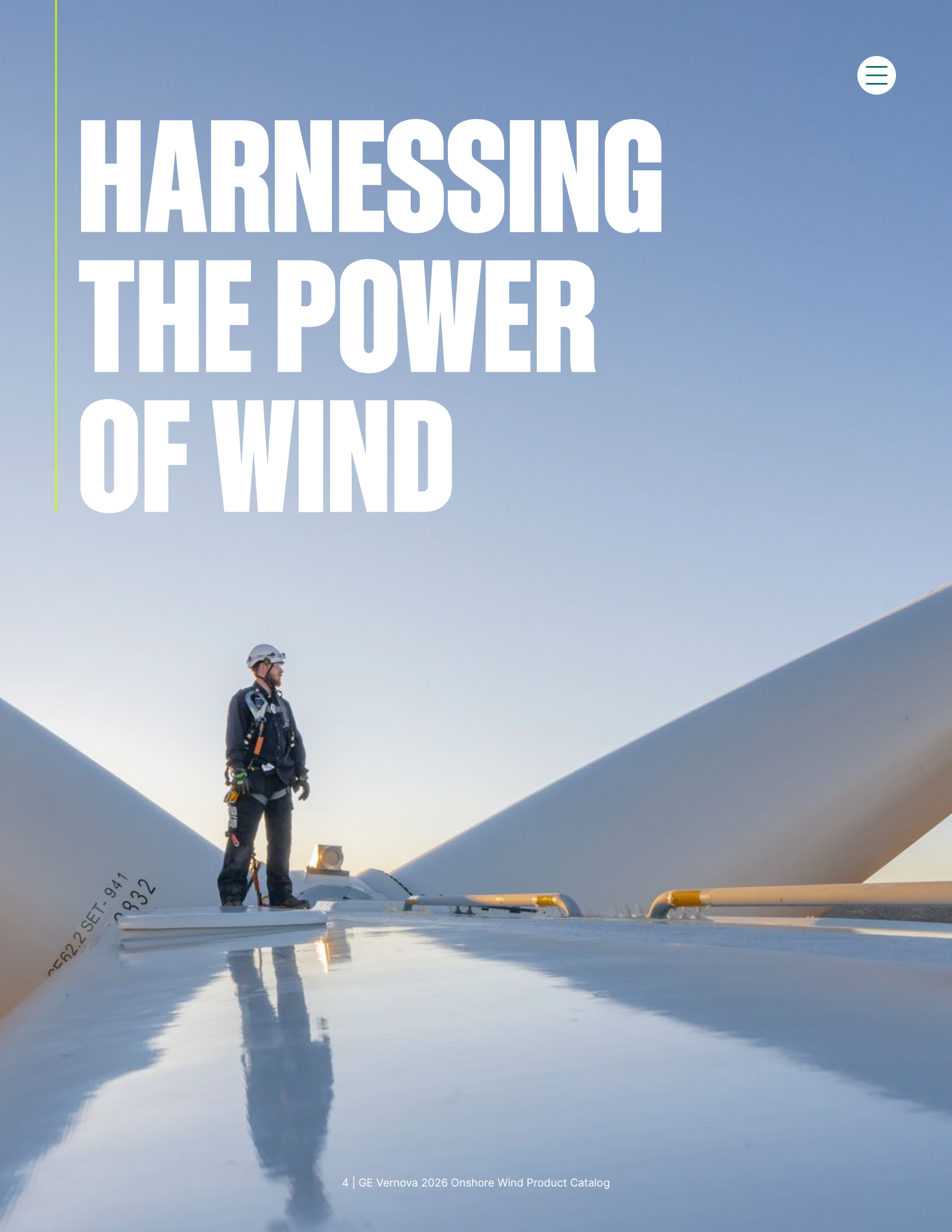
Vic Abate

CEO, GE Vernova Wind

HISTORY OF WIND AT GE VERNOVA



HARNESSING THE POWER OF WIND



WORKHORSE PRODUCT PORTFOLIO

Driving reliable output, repeatable execution, and lifecycle value at scale across diverse grid and site requirements, with infrastructure built for decades.

GE Vernova's workhorse turbine approach is simple: deliver proven wind technology that is easy to deploy, easy to support, and designed to perform at scale. Our workhorse products are configured to be deployed in large fleets with fewer variants, helping to reduce complexity and improve reliability.

Built on long-cycle validation, efficient and sustainable supply chains, and more repeatable operations, these turbines deliver value through:

- **Focused Design** ... reliability through streamlined platforms, fewer variants, larger fleets
- **Innovative Technology** ... higher capacity factors and greater efficiency delivered through incremental tech improvements and digital platforms leveraging AI
- **Efficient Supply Base** ... increased productivity and asset sustainability with fewer changes delivered through interchangeable systems, hardware, and software
- **Repeatable Execution** ... improved installation through standard configurations and designs
- **Scaled Reliability** ... consistent, dependable turbine performance backed by a global installed base of more than 59,000 turbines
- **Customer Support** ... tailored operations and maintenance support to fit customer and fleet needs

4 MW

2.8 MW-127m
3.4 MW-140m
4.0 MW-154m

Launched in 2018
10,000 units

Megawatt Constrained
Leading efficiency, BOP simplicity, and bankable performance at transmission-constrained sites.

6 MW

6.5 MW-164m
6.1 MW-158m
4.2 MW-117m

Launched in 2020
1,800 units

Land Constrained
Reliable, high-power output for logistics-constrained sites.

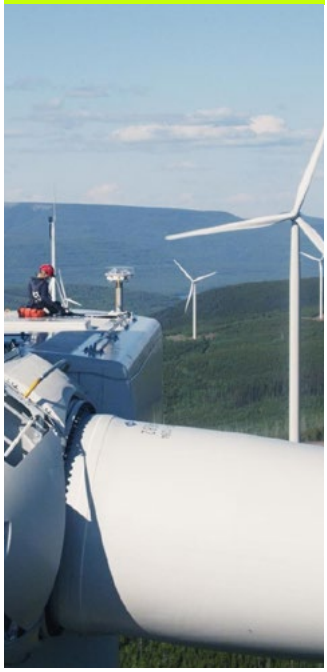
Repower

1.6 MW-97m
1.9 MW-127m
Drive Train Repower

Launched in 2016
1,265 units

Extended Life Value
Increase AEP and maximize fleet value with a suite of life-extending options.

Onshore Services



[1] Low wind speed application
[2] Units in operation at the start of 2026

4 MW

Photo credit: Ørsted A/S

2.8 MW-127m

Most installed turbine in the U.S. for six consecutive years, boasting installation simplicity and bankable performance.

Setting the Pace in the U.S.

With an installed capacity of more than 23 GW† and six straight years (2020-2025) as the turbine of choice in the U.S., GE Vernova's 2.8 MW-127m has set the pace for what's possible in delivering, installing, and operating a workhorse machine at scale.

High Capacity Factor

Delivering a gross capacity factor of ~55% (89mHH 8.0m/s), the elevated total energy output of the 2.8 MW-127m reduces the levelized cost of electricity (LCOE) for transmission-constrained applications.

An Industry Benchmark for Simplicity

Recognized for installation efficiency and serviceability, GE Vernova's 2.8 MW-127m sets the standard for simplicity in wind technology. This turbine is a proven example of streamlined logistics, installation, and reliable operation at scale.

Bankable, Workhorse Quality

Verified by independent engineers, the 2.8 MW-127m delivers 100%+ power performance, as verified by independent engineers.

Key Technology Improvements

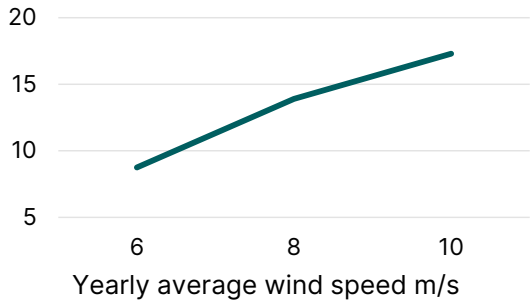
Quality improvements to major components—including blades, main bearings, and pitch bearings—have been underwritten based on lessons learned from the operating fleet. These improvements reduce failures and the time and scale of repairs, helping to improve turbine availability and limit downtime.

Commercial Status	
Certification	DECS, Type Cert
Available to Ship	Yes
Target Market	U.S.

† American Clean Power Association reports

2.8 megawatts (MW) of power generated by rotor blades that measure 127 meters in diameter	
Hub Heights	89m, 114m
Frequency	60 Hz
Normal Operating Temperature	-15°C to +40°C (Standard Weather Package)
Noise Level	108.5 dBA (with serrations)
Blades	62.2m fiberglass
Drivetrain	Single main bearing with 3-point suspension
Electrical System	Doubly-fed induction generator; downtower electrical Compatible with: IEEE 2800-2022, PRC-029-1, PRC-028-1
Wind Class (IEC)	S
Design Standard	IEC 61400-1, Ed. 3
Cut In / Cut Out Wind Speeds	3m/s to 30m/s

AEP (GWh)



Assumptions:
1 wind turbine, 100% avilability, 0% losses, k factor = 2.4, air density = 1.15, wind speed at hub height

3.4 MW-140m

High efficiency turbine offering ease of configuration and streamlined installation. Ideal for projects with challenging regulatory environments.

No Re-Permitting Required

The 81m tower enables faster qualification with the Federal Aviation Administration where a 500’ tip height limit is in place.

A U.S. State of Mind

Designed specifically for U.S. wind conditions and supported by a strong domestic supply chain footprint, including domestically manufactured machine head and tower.

Proven Operation

The 3.4 MW-140m features the latest drivetrain and blade enhancements, with the warranty fleet achieving 98% operational availability.

Ease of Logistics and Balance of Plant

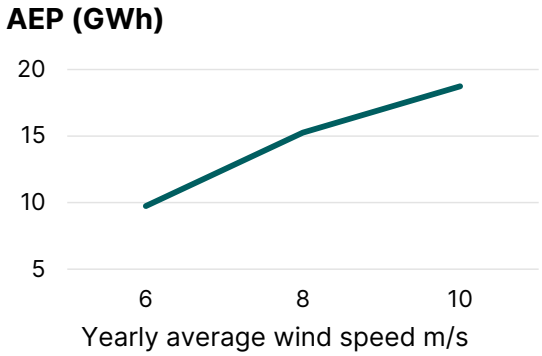
Designed for execution simplicity, the 3.4 MW-140m features single-piece downtower assembly, a rail-shippable machine head, two-piece blade, and installation with a 600-ton crane.

2026 Updates

The 3.4 MW-140m is adding the Onyx CMS System to provide improved condition-monitoring insights, a simplified three-stage journal-bearing gearbox designed for better operation in cold climates, and electrical enhancements that improve generator efficiency and insulation for stronger overall performance and reliability.

Commercial Status	
Certification	DECS, Type Cert
Available to Ship	Yes
Target Market	U.S.

3.4 megawatts (MW) of power generated by rotor blades that measure 140 meters in diameter	
Hub Heights	81m, 98m, 117m
Frequency	60 Hz
Normal Operating Temperature	-15°C to +40°C (Standard Weather Package)
Noise Level	106.8 dBA (with serrations)
Blades	68.7m glass and carbon fiber reinforced 2-piece blade
Drivetrain	Single main bearing with 3-point suspension
Electrical System	Doubly-fed induction generator; downtower electrical w/ pad-mounted transformer Compatible with: IEEE 2800-2022, PRC-029-1, PRC-028-1
Wind Class (IEC)	S
Design Standard	IEC 61400-1, Ed. 3
Cut In / Cut Out Wind Speeds	3m/s to 26m/s



Assumptions:
1 wind turbine, 100% avilability, 0% losses, k factor = 2.4, air density = 1.15, wind speed at hub height

4.0 MW-154m

A new workhorse turbine for transmission-constrained sites. Offers leading efficiency, balance of plant simplicity, and bankable performance.

High Capacity Factor

Delivering a gross capacity factor of 60% (98mHH 8.0m/s), the elevated total energy output of the 4.0 MW-154m reduces the levelized cost of electricity (LCOE) for transmission-constrained applications. Compared to the 3.4 MW-140m, the 4.0 MW-154m delivers a 14% increase in annual energy production (AEP) per wind turbine.

Workhorse Quality, Built to Scale

The 3.8 MW-154m, transitioning to the 4.0 MW-154m, is the most extensively tested and validated wind turbine in GE Vernova's history. Its design is centered on delivering repeatable and reliable workhorse performance at scale. Major components are engineered with fleet-leading service factors, and blades are produced using the industry's first-ever digital blade certificate.

Secure, Domestic Supply Chain

A strong U.S. & India supply chain helps de-risk project execution, supports local content requirements and domestic content credits, and simplifies fulfillment to reduce exposure to global uncertainty.

Balance of Plant Simplicity

The 4.0 MW-154m features single-piece downtower assembly, a rail-shippable machine head, and installation with a 600-ton crane.

Learning-Based Controls

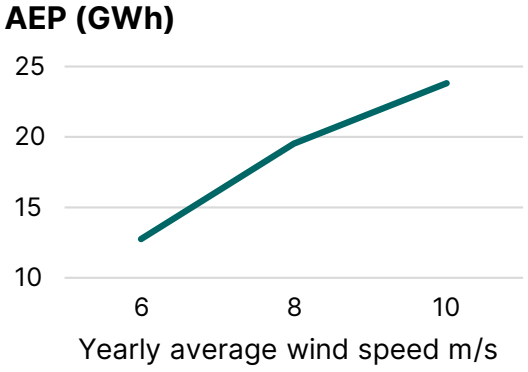
The new EDGE controls platform is designed for fast, cloud-based implementation of software updates that improve performance and reduce maintenance costs.

2026 Updates

The 4.0 MW-154m is adding an Enhanced EPC Installation Package with a simplified hub design and higher wind-limit capability, supporting installation rates of up to 14 MW per week on 98m towers, along with a configuration uprate to 4.0 MW operation and noise reduction through Gen 2 leading edge protection.

Commercial Status	
Certification	DECS, Type Cert
Available to Ship	Yes
Target Market	U.S. & India

4.0 megawatts (MW) of power generated by rotor blades that measure 154 meters in diameter (transitioning from 3.8 MW and shipping in 2H 2027)	
Hub Heights	50 Hz: 135m 60 Hz: 98m, 116m 60 Hz 116m hurricane zone tower (MRI 700-year wind speeds up to 64m/s)
Frequencies	50 Hz & 60 Hz
Normal Operating Temperature	50 Hz: -15°C to +48°C 60 Hz: -15°C to +40°C
Noise Level	109 dBA (with serrations)
Blades	75.7m glass and carbon fiber, reinforced with epoxy and balsa
Drivetrain	Single main bearing with 3-point suspension drivetrain; upgraded main bearing (3.1x service factor) Double row hub to mainshaft joint (1.7x life) 82.5mm 4pt pitch bearing (2.0x life) AC ultracap pitch system
Electrical System	Doubly-fed induction generator; downtower electrical with pad-mounted transformer Compatible with: IEEE 2800-2022, PRC- 29-1, PRC-028-1
Wind Class (IEC)	S
Design Standard	IEC 61400-1, Ed. 3
Cut In / Cut Out Wind Speeds	3m/s to 25m/s



Assumptions:
1 wind turbine, 100% avilability, 0% losses, k factor = 2.4, air density = 1.15, wind speed at 80m

6 MW

6.5 MW-164m

A continued progression of the GE Vernova 6 MW platform, leveraging learnings and best practices from a fleet of more than 1,800.

Versatile and High Performing

The 6.5 MW-164m builds on the proven architecture of the 6.0 MW-164m and 6.1 MW-158m turbines, with higher service factors and increased power output. It delivers up to 5% more energy production than the 6.0 MW-164m, serving broad applications across both the 50 Hz and 60 Hz markets.

Enhanced Grid Integration

GE Vernova's doubly-fed induction generator (DFIG) enables turbine operation over a range of wind speeds more effectively than fixed-speed designs, helping to improve energy capture. The DFIG delivers exceptional grid performance and has been rigorously tested across the world's most demanding grid codes.

Workhorse Quality

The 6.5 MW-164m builds on the proven quality of GE Vernova's 6 MW platform, combining rigorous testing and validation with trusted workhorse simplicity. Informed by learning and best practices from a fleet of more than 1,800 turbines, it is engineering to install and operate at scale with exceptional confidence in reliability and performance.

Extreme Environment Package

The 6.5 MW-164m delivers dependable performance across a broad range of demanding environments. Industry-leading ice mitigation technology, yaw power backup through grid interruptions, a seismic-resistant tower configuration, and advanced lightning protection system expands the turbine's operating envelope while strengthening resilience and reliability.

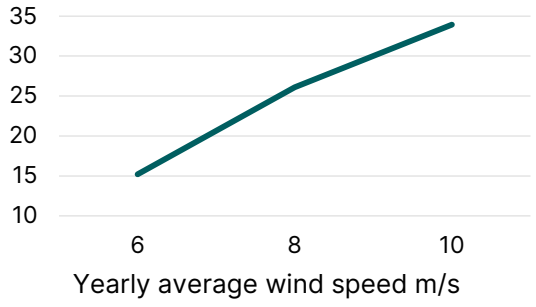
2026 Updates

The 6.5 MW-164m is adding adaptive controls to optimize turbine performance in real time based on operating conditions, SF6-free medium-voltage switchgear to improve safety and support sustainability goals, and blade-integrated carbon heating mats through the IMS to help reduce ice buildup and support reliable operation in cold-weather environments.

Commercial Status	
Certification	DECS, Type Cert, DiBT, NK
Available to Ship	Yes
Target Market	Global

Up to 6.5 megawatts (MW) of power generated by rotor blades that measure 164 meters in diameter	
Hub Heights	50 Hz: 118m, 128m, 138m, 148m, 166m, 167m 60 Hz: 112m, 128m, 138m 50 Hz/60 Hz (seismic): 115m
Frequencies	50 Hz & 60 Hz
Normal Operating Temperature	-15°C to +40°C
Noise Level	From 107 dB to 98 dB
Blades	80.4m, E-glass and carbon fiber, reinforced with epoxy; split and single piece blade
Drivetrain	Single main bearing with 3-point suspension
Electrical System	Doubly-fed induction generator; uptower electrical system Compatible with: IEEE 2800-2022, PRC-029-1, PRC-028-1
Wind Class (IEC)	IIIS
Cut In / Cut Out Wind Speeds	3m/s to 25m/s

AEP (GWh)



Assumptions:
1 wind turbine, 100% avilability, 0% losses, k factor = 2.4, air density = 1.15, wind speed at hub height

6.1 MW-158m

A global workhorse turbine, designed for a wide range of applications and backed by more than 9.6 GW in operation.

Versatility and Proven Performance

A leading global workhorse, GE Vernova's 6.1 MW-158m has more than 1,800 units installed across 20 countries. It has accumulated the highest total operating hours among similarly sized turbines outside China.

Enhanced Grid Integration

GE Vernova's doubly-fed induction generator (DFIG) enables turbine operation over a range of wind speeds more effectively than fixed-speed designs, helping to improve energy capture. The DFIG delivers exceptional grid performance and has been rigorously tested across the world's most demanding grid codes.

Logistics Simplicity

Leveraging GE Vernova's proven split-blade technology, the 158m rotor is available in both one- and two-piece configurations, allowing logistically challenging projects to unlock the advantages of a larger rotor and greater energy production.

Workhorse Quality

With more than 1,800 turbines deployed across a wide range of applications, GE Vernova's 6 MW products deliver versatility, dependability, and reliable lifetime performance. The platform also achieves 100%+ power performance, as verified by independent engineers.

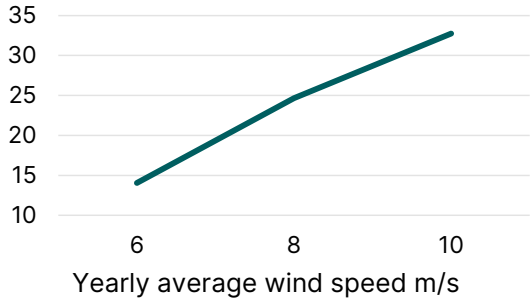
2026 Updates

The 6.1 MW-158m is adding adaptive controls to optimize turbine operation in real time based on changing conditions, alongside SF6-free medium-voltage switchgear to enhance both safety and sustainability.

Commercial Status	
Certification	IEC, DIBT
Available to Ship	Yes
Target Market	Global

6.1 megawatts (MW) of power generated by rotor blades that measure 158 meters in diameter	
Hub Heights	50 Hz: 96m, 101m, 121m, 150m, 161m 60 Hz: 101m, 117m
Frequencies	50 Hz & 60 Hz
Normal Operating Temperature	-15°C to +40°C
Noise Level	From 107.5 dB to 98 dB
Blades	77.4m, E-glass and carbon fiber, reinforced with polyester; split and single piece blade
Drivetrain	Single main bearing with 3-point suspension
Electrical System	Doubly-fed induction generator; uptower electrical system Compatible with: IEEE 2800-2022, PRC-029-1, PRC-028-1
Wind Class (IEC)	IIS / IIIS
Cut In / Cut Out Wind Speeds	3m/s to 25m/s

AEP (GWh)



Assumptions:
1 wind turbine, 100% avilability, 0% losses, k factor = 2.4, air density = 1.15, wind speed at hub height

4.2 MW-117m

Precisely configured to perform in the world's most challenging wind conditions.

Performance in Extreme Conditions

Originally conceived for the complex geography and wind conditions encountered in Japan, the 4.2 MW-117m is engineered to excel in environments with high reference and high average wind speeds.

Advanced Features and Technology

Innovative load management and controls help deliver reliable performance in demanding environments, giving customers confidence that the turbine can meet grid code and certification requirements.

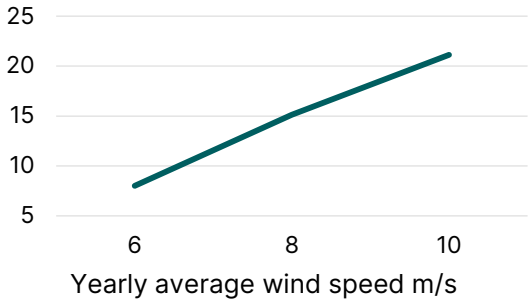
Workhorse Quality

Built on the robust architecture of GE Vernova's proven 4.0 MW-137m platform, the 4.2 MW-117m delivers reliable performance throughout its design life.

Commercial Status	
Certification	IEC Type Cert, NK
Available to Ship	Yes
Target Market	Japan

4.2 megawatts (MW) of power generated by rotor blades that measure 117 meters in diameter	
Hub Heights	50 Hz: 95m, 110m 60 Hz: 85m, 110m
Frequencies	50 Hz & 60 Hz
Normal Operating Temperature	-15°C to +40°C
Noise Level	From 107 dB to 103 dB
Blades	Glass fiber reinforced polyester
Drivetrain	Dual main bearing with 4-point suspension
Electrical System	Doubly-fed induction generator
Wind Class (IEC)	Class S, based on 1A+T
Cut In / Cut Out Wind Speeds	3m/s to 25m/s

AEP (GWh)



Assumptions:
1 wind turbine, 100% avilability, 0% losses, k factor = 2.4, air density = 1.15, wind speed at hub height

REPOWER

1.6 MW-97M REPOWER

Breathing new life into GE Vernova's 1.5 MW-77m, 1.6 MW-82.5m, and 1.6 MW-87m turbines to extend life and improve availability.

Extending Life with the Latest Technology

A new, upgraded drivetrain and extended rotors enhance asset reliability and performance, supporting a certified design life extension of 20 years.

Increased Annual Energy Production (AEP)

Longer rotor blades capture more wind, delivering gross AEP uplift of 25% to 30% versus the 1.5 MW-77m baseline, depending on site conditions.

Built on a Legacy of Performance

The 1.6 MW-97m leverages the same proven drivetrain used in the 1.6 MW-87m and 1.6 MW-91m Repower turbines. With more than 750 of these highly reliable turbines operating across the U.S., its simple, repeatable upgrade scope enables retrofit at scale for existing wind farms.

Bankable Quality

Repowering helps owners capture greater value from existing wind farms with well-understood wind resources. Proven solutions enhance returns while lowering uncertainty.

Commercial Status	
Certification	A-DA
Available to Ship	Yes
Target Market	U.S.

Upgrade existing turbines to achieve 1.6 megawatts (MW) of output with blades that measure 97 meters in diameter	
Hub Heights	80m, 100m
Frequency	60 Hz
Normal Operating Temperature	-15°C to +40°C (Standard Weather Package)
Noise Level	108 dBA (106.5 with low noise trailing edge)
Blades	47m glass fiber reinforced polyester blade
Drivetrain	Single main bearing with 3-point suspension
Electrical System	Doubly-fed induction generator; downtower electrical with pad-mounted transformer
Design Standard	IEC 61400-1, Ed. 2
Wind Class (IEC)	S

1.9 MW-127m REPOWER

Repowering 1.6 MW-100m, 1.7 MW-100m, and 1.7 MW-103m turbines to increase AEP, achieving bankable performance for U.S. fleets.

Increased Energy production

A 61% increase in swept area captures more wind and yields greater annual energy Production (AEP). This Repower solution can provide a gross AEP uplift of 20% to 25%+ (1.7 MW-100m baseline), depending on site conditions.

Leveraging Proven Technology

By applying components from our 2.8 MW-127m, this Repower solution improves turbine performance and reliability. The lower duty cycle 1.9 MW also provides a more robust turbine with higher service factors.

Secure, Domestic Supply Chain

A strong U.S. supply chain helps de-risk project execution, supports local content requirements and domestic content credits, and simplifies fulfillment to reduce exposure to global uncertainty.

A Simple, Scalable Upgrade

Get more out of your existing assets with an upgrade that brings uniformity to legacy fleets with high variability.

Upgrade existing turbines to achieve 1.9 megawatts (MW) of output with blades that measure 127 meters in diameter	
Hub Height	83m
Frequency	60 Hz
Normal Operating Temperature	-15°C to +40°C (Standard Weather Package)
Noise Level	109 dB with LNTE
Blades	62.2m fiberglass
Drivetrain	Single main bearing with 3-point suspension
Electrical System	Doubly-fed induction generator; downtower electrical with pad-mounted transformer
Design Standard	IEC 61400-1, Ed. 3
Wind Class (IEC)	S

Commercial Status	
Certification	A-DA Available
Available to Ship	Available
Target Market	U.S.

DRIVETRAIN RETROFIT

Lower CapEx option to Repower 1.5 MW-77m, 1.6 MW-82.5m, and 1.6 MW-87m turbines to extend life while increasing annual energy production (AEP).

Extend Asset Life

A new, robust drivetrain and turbine components can deliver 10+ years in extended asset life with improved performance and reliability.

Increased Energy Production

This Repower solution can provide a gross AEP uplift of 2% to 6%+, depending on site conditions and power curve uplift technologies.

Lower CapEx Option

Achieve the benefits of Repower with less spend than a full rotor or tear down and rebuild solution.

Commercial Status	
Certification	No certification for life extension
Available to Ship	Yes
Target Market	U.S.

Upgrade existing turbines to extend asset life and increase annual energy production	
Hub Heights	Unchanged
Frequency	60 Hz
Blades	Unchanged
Drivetrain	Upgrade to latest technology
AEP Uplift Technologies	Uprate, WindBOOST, aero upgrades

ONSHORE SERVICES

Providing safe, predictable, and efficient maintenance to keep assets healthy and online.

Safer Field Operations

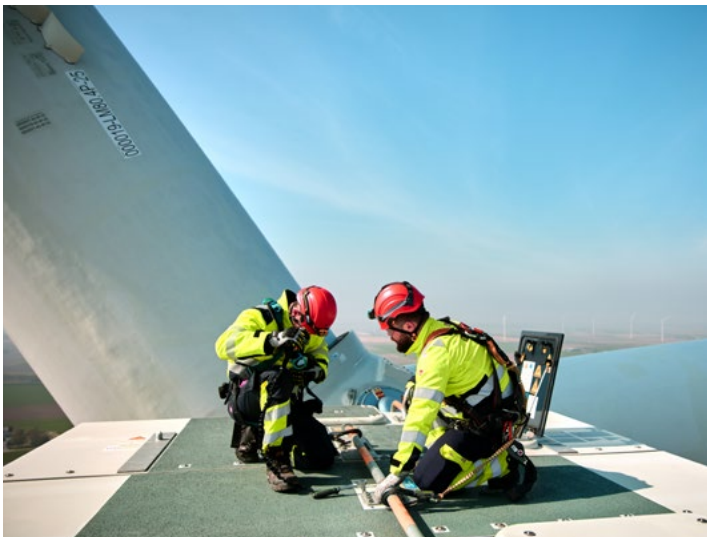
Remote inspection tools, AI-enhanced camera inspections, and robotic-assisted maintenance help reduce unnecessary climbs, limit manual work at heights, and support safer execution of high-risk tasks.

Shifting the Maintenance Mindset

AI-enabled troubleshooting, condition monitoring, and improved outage planning help identify issues earlier, support better planning, and shift more work from reactive repair to planned maintenance.

Faster Major Repairs

Craneless and robotic-assisted approaches for select work—including gearbox, main bearing, and blade related repairs—help reduce logistical complexity and improve response times.



TECHNOLOGY

AI-ENABLED DIAGNOSTICS

Increase AEP and improve lifecycle value of assets

PowerUp enhancements
- Aero
- Controls
- Uprate/boost
- Extended cut-out

Operability enhancements
- Environmental
- Reliability and service
- Availability

ROBOTIC-ASSISTED MAINTENANCE

Maintain grid stewardship and compliance

Enhance grid compatibility
- Voltage/VAR/PF control
- Line drop compensation
- Segmented curtailment
- Frequency droop control

Support eBOP integration
- Cap/React. bank control
- Statcom/SVC integration
- Multi plant coordination

SCADA & TURBINE CONTROL

Manage data infrastructure, security, and obsolescence

Hardware upgrades
- Controller and devices
- SCADA system upgrade

Software upgrades
- Turbine control software
- WindSCADA software

Data and security upgrades
- Cybersecurity compliance i.e. OS, Firewall, Network
- Data interfaces, authentication

ONSHORE SERVICES

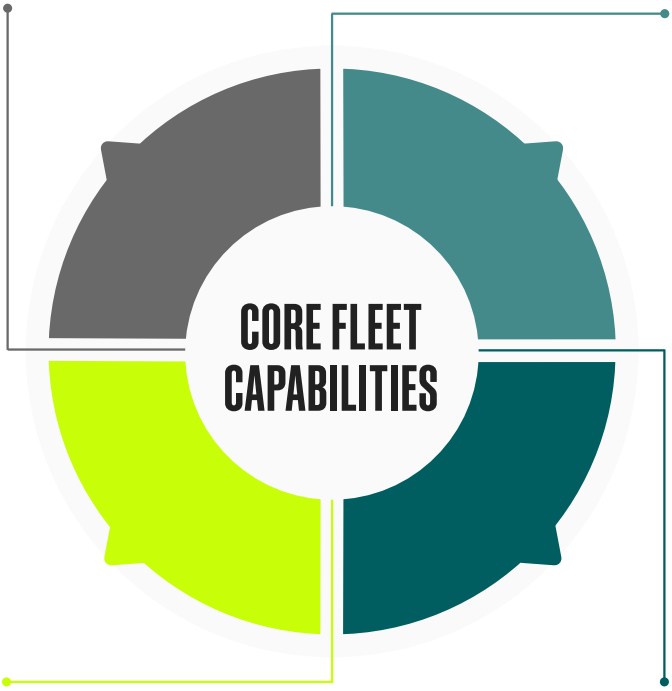
The right resources to drive fleet availability up to 98%.

Operations and Maintenance

Dispatched technicians supported by GE Vernova-managed maintenance teams

Major Component Upgrades

Highly trained crews installing new parts with safety, precision, and speed



Fleet Performance Management

Engineer-backed team with pulse on fleet operations

Parts

On time parts delivery facilitated through more precise parts inventory management

Advancing service execution with safer, more predictable, and higher efficiency support.

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