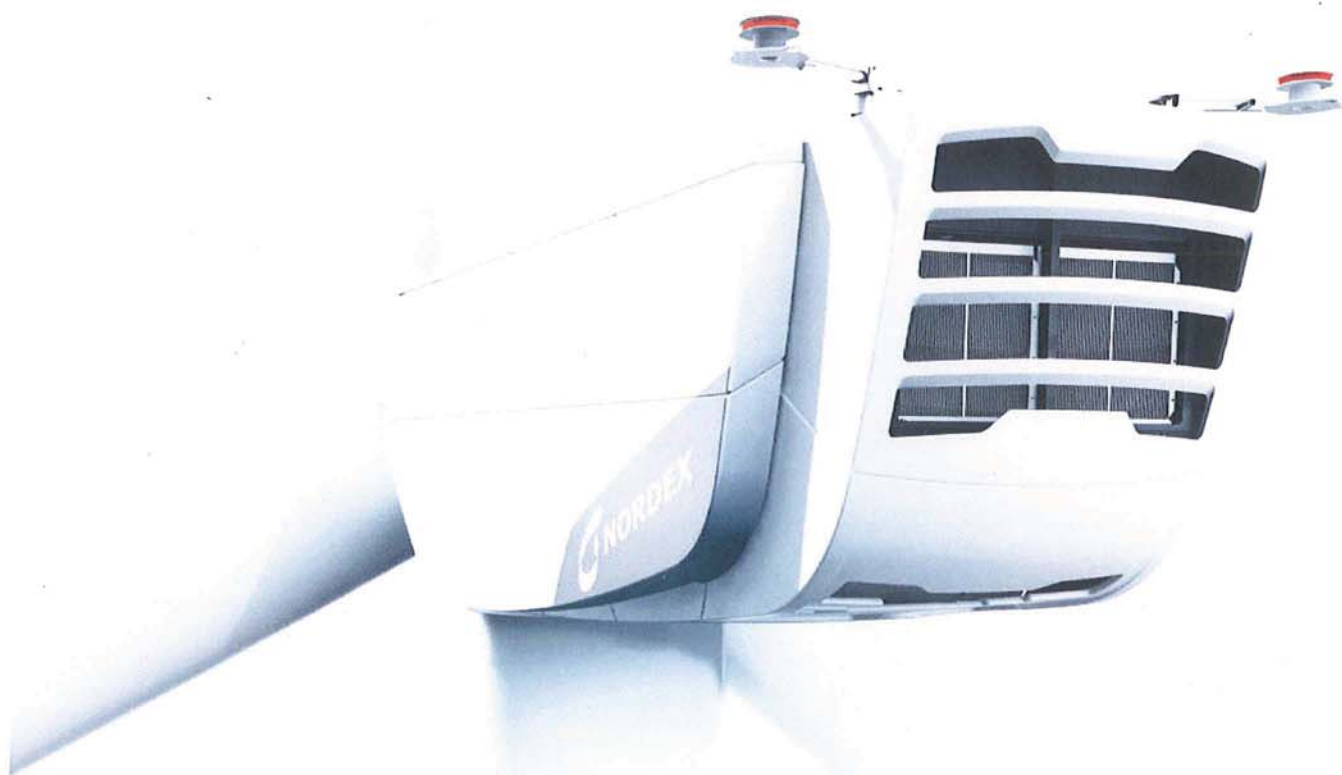


Exhibit 03-1

Nordex N100 Turbine Data



DESIGNED TO PERFORM.

**GAMMA GENERATION –
THE NORDEX EFFICIENCY CLASS.**



N80/2500
N90/2500
N100/2500
N117/2400

 **NORDEX**
We've got the power.

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NORDEX – A PROFILE

Dependable power plants for a clean environment.

Economic prosperity, progress and environmental protection – for Nordex these go hand in hand. Since 1985, we have been developing increasingly effective wind turbines that help meet the growing global demand for energy while reducing the impact on the environment.

As an internationally expanding company, Nordex has a footprint in all the core markets. Our factories in Germany, China and the United States serve the markets in the core regions of Europe, Asia and the Americas. We can provide our customers with tailor-made all-round solutions – from planning a wind farm, through turnkey installation down to service. The “Nordex Academy” provides a high level of training to all our staff, guaranteeing superior know-how as a supplier of sophisticated products and services.

The core competence of Nordex focuses on wind turbines in the power range up to 2.5 MW. In the Gamma Generation, the Efficiency Class, we offer different types of machines on the basis of a common technical platform. This means that Nordex customers can rely on having the ideal product for every location.

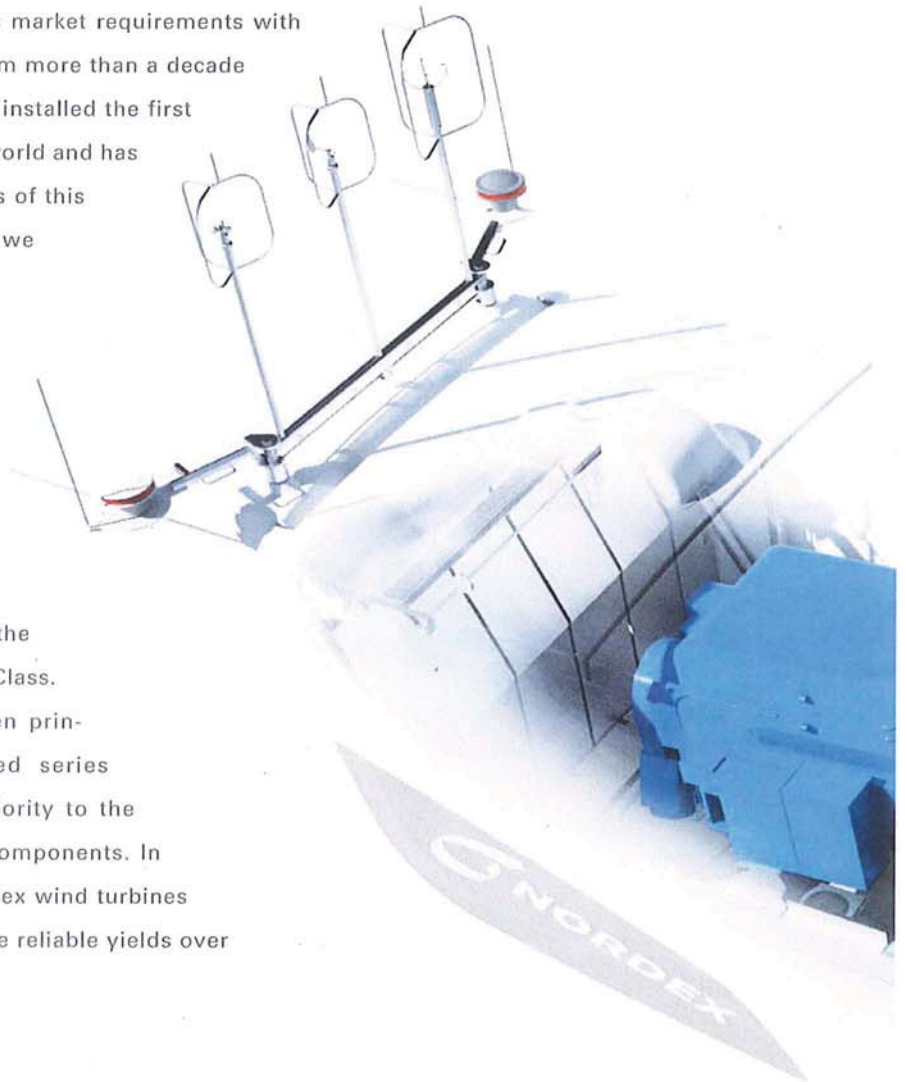


THE EFFICIENCY CLASS

Experience puts us one step ahead.

The Efficiency Class combines the latest findings from research and development and today's market requirements with know-how and experience from more than a decade of operation. In 2000, Nordex installed the first 2.5 MW series turbine in the world and has put more than 1,500 machines of this type on grid since then. So we know what we're talking about when we say that our turbines offer high quality, mature technology and dependable performance even in extreme locations.

Nordex continuously adds to the development of the Efficiency Class. Yet we remain true to proven principles, use tried and tested series engineering and give top priority to the dependability of all system components. In this way, we ensure that Nordex wind turbines are capital goods that generate reliable yields over a period of at least 20 years.

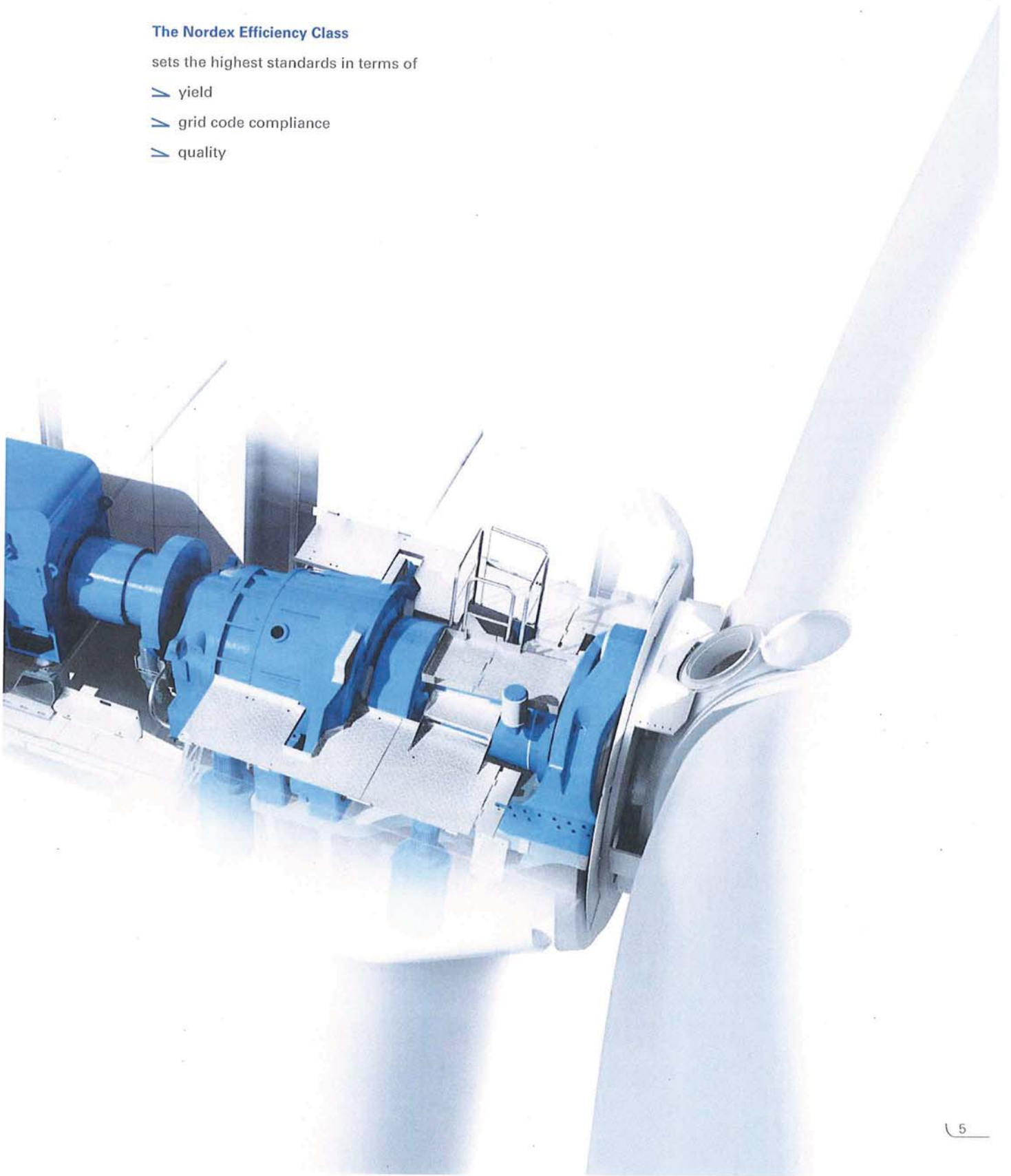


➤ The Efficiency Class combines proven, reliable technology with enhanced details.

The Nordex Efficiency Class

sets the highest standards in terms of

- yield
- grid code compliance
- quality



YIELD

Maximum wind yield at any location.

Today, ongoing technical developments make it more worthwhile than ever to invest in a wind turbine of the Efficiency Class.

Efficiency packages for higher power curves

Intelligent operations management is essential for a maximum wind yield. For this reason the interactive Nordex Control™ system controls, regulates and monitors the turbines in the Efficiency Class. Modern automation and information technologies are merged to form a powerful turbine control system. In order to increase the yield further, our product experts and engineers have developed and implemented efficiency packages. So Nordex customers benefit from a higher power curve for greater profitability in their project.

The perfect machine for every type of wind

The Efficiency Class now gets even more out of every location: Nordex has raised the wind class suitability of the N90/2500 and the N100/2500. This was possible because our engineers have aligned the core components with each other even more closely. For strong-wind locations Nordex now offers the N90/2500 in addition to the N80/2500. For regions with medium winds we supply the N100/2500, which can also be used in areas with light wind. The N117/2400, with its giant blades, has been specifically designed for this type of site.

➤ The Nordex Efficiency Class also includes a 140-metre hybrid tower.



Robust technology for cold regions

Many good wind locations can be found in regions with extremely low temperatures. This is why there is also a cold-climate version of the turbines in the Efficiency Class. Should the customer require it, in future an innovative rotor-blade anti-icing system, developed in-house, can be included in the cold-climate package.

Service – simple, fast and safe

Thanks to the service-friendly design of the turbines, Nordex has reduced maintenance time to the minimum. Service can be carried out under a closed roof regardless of the weather conditions. All the components are directly accessible as they are located on uninterrupted working levels and can be easily, safely and inexpensively maintained with the aid of the internal crane. In addition, reliable turbine operation is supported by low-maintenance and maintenance-free components.

Round-the-clock performance checks

To ensure maximum availability, Nordex keeps a permanent eye on its customers' wind turbines. In the event of divergence from normal operation, Nordex Remote Monitoring immediately intervenes. In addition to this, the optional Condition Monitoring System checks the state of wear-critical components, thereby supporting preventive maintenance.

High in the sky for a better yield

Wind conditions differ from region to region. At inland locations in particular, the wind quality improves in line with altitude. However, some locations are subject to height restrictions. This is why Nordex offers the machines in the Efficiency Class on modular tubular steel or hybrid towers with heights ranging from 60 to 140 metres.



GRID CODE COMPLIANCE

Active support for every grid.

The turbines in the Efficiency Class are characterised by excellent control capabilities for maintaining the voltage and stabilising the frequency of the public grid. They meet all the requirements for the German system service bonus (known as the SDL-Bonus).^{*} Their fault-ride-through capability enables them to bridge any dips in voltage effortlessly. The Nordex wind farm management system also makes it possible for the grid operator to directly control the rated and reactive power of the wind farm in the grid.

With these features, the turbines are certified for the grids of the most demanding international markets. They can also be flexibly adapted to new and complex connection requirements. This makes for a seamless integration into the local grid.

Always striving to progress

Our aim is to offer the highest electricity quality on the market. Nordex has this in mind when the grid connection technology is intensively tested and further developed both in the field and on the test bench. This is why our wind turbines have long been recognised for an electricity quality and a dependability of supply that equal that of conventional power plants.

➤ Nordex makes sure that the machines in the Efficiency Class always comply with the latest grid requirements.

^{*} The requirements for the SDL bonus are regulated in Germany in the System Service Ordinance (SDLWindV). They number among the strictest grid guidelines in Europe.



QUALITY

Top-quality engineering – simply routine for us.

Thanks to their sophisticated design, the wind turbines in the Efficiency Class are certified quality products. In the early development phase the Nordex Engineering department checks the strains on materials and components using computer-aided calculation routines, such as the finite element method. These are followed by extensive tests in the Nordex Test Centre and in the field.

Extreme tests for hardware and software

In the Nordex Test Centre our engineers inspect the components and systems of the prototypes under simulated wind and weather conditions. By subjecting them to strains in excess of the usual specification, among other things by means of long-term, extreme climate and vibration tests, Nordex ensures that they meet all quality criteria and thus that a high-quality and technically mature product goes into series production.

Quality-assured rotor blades

Nordex sets especially high standards when it comes to the materials used for our rotor blades, which can be up to 58 metres in length.

Automated production processes and the monitoring of the entire production process using the latest measuring and testing methods ensure that each rotor blade works reliably.

➤ *An eye for detail: in the laboratory Nordex checks the materials for the rotor blade.*

Highest industry standards

Nordex manufactures the nacelle and hub module in line.

This means that the company not only sets the highest industrial standards, but focuses on optimum product quality. Many steps in the assembly process are performed in the protected production hall - a key prerequisite also for the efficient installation of the turbines at the wind farm.





SOLUTIONS FOR STRONG WIND

Dependable yield in a rough climate.

Wind locations with a rough climate require mature, robust technology. The IEC-1-certified N80/2500 and N90/2500 have been specifically designed for these regions. Particularly in coastal areas and open highlands, they are the first choice in terms of their price/performance ratio.

The N80/2500 is the perfect machine for locations with strong winds and height restrictions: its rotor diameter is a little smaller than the N90/2500 and Nordex offers it on a 60-metre tower. The N90/2500 provides the highest yield in strong winds. Nordex has already connected this machine to the grid several hundred times in Europe, Asia and North America.

➤ *The N90/2500 is the most frequently installed turbine in the Efficiency Class and has proved itself around the globe.*



FACTS AND FIGURES

	N80/2500 IEC I	N90/2500 IEC I
Operating data		
Rated power	2,500 kW	2,500 kW
Cut-in wind speed	3 m/s	3 m/s
Cut-out wind speed	25 m/s	25 m/s
Rotor		
Diameter	80 m	90 m
Swept area	5,026 m ²	6,362 m ²
Speed	10.8 - 18.9 rpm	10.3 - 18.1 rpm
Tip speed	80 m/s	75 m/s
Speed control	Variable via microprocessor	Variable via microprocessor
Overspeed control	Pitch angle	Pitch angle
Gearbox		
Construction	Combined spur/planetary gear or differential gearbox	Combined spur/planetary gear or differential gearbox
Generator		
Construction	Double-fed asynchronous generator	Double-fed asynchronous generator
Cooling system	Liquid/air cooling	Liquid/air cooling
Voltage	660 V	660 V
Grid frequency	50/60 Hz	50/60 Hz
Control		
Control center	PLC controlled	PLC controlled
Grid connection	Via IGBT converter	Via IGBT converter
Distance control	Remote controlled surveillance system	Remote controlled surveillance system
Brake system		
Main brake	Pitch angle	Pitch angle
Secondary brake	Disk brake	Disk brake
Lightning protection		
	Fully compliant with EN 62305	Fully compliant with EN 62305
Tower		
Construction	Tubular steel tower	Tubular steel tower
Rotor hub height/Certification	60 m/IEC 1a	65 m/IEC 1a 80 m/IEC 1a

Please see the Nordex website at www.nordex-online.com for the latest technical data.





SOLUTIONS FOR MEDIUM WIND

Profitable at varied locations.

For projects with moderate wind speeds Nordex offers the N100/2500 turbine. The N100/2500 is one of the machines with the highest yield at IEC 2 locations. For even more efficiency Nordex has raised the cut-out wind speed from 20 to 25 m/s.

Thanks to its robust technology, the N100/2500 is ideal for wind farms in the widely different climatic conditions prevailing around the world.

➤ The N100/2500 is one of the machines with the highest yield at IEC 2 locations.



FACTS AND FIGURES

N100/2500 IEC II	
Operating data	
Rated power	2,500 kW
Cut-in wind speed	3 m/s
Cut-out wind speed	25 m/s
Rotor	
Diameter	99.8 m
Swept area	7,823 m ²
Speed	9.6 - 14.8 rpm
Tip speed	77 m/s
Speed control	Variable via microprocessor
Overspeed control	Pitch angle
Gearbox	
Construction	Combined spur/planetary gear or differential gearbox
Generator	
Construction	Double-fed asynchronous generator
Cooling system	Liquid/air cooling
Voltage	660 V
Grid frequency	50/60 Hz
Control	
Control center	PLC controlled
Grid connection	Via IGBT converter
Distance control	Remote controlled surveillance system
Brake system	
Main brake	Pitch angle
Secondary brake	Disk brake
Lightning protection	
Fully compliant with EN 62305	
Tower	
Construction	Tubular steel tower
Rotor hub height/Certification	75 m/IEC 2a
	80 m/IEC 2a
	100 m/IEC 2a

Please see the Nordex website at www.nordex-online.com for the latest technical data.





SOLUTIONS FOR LIGHT WIND

Maximum economic efficiency.

In order to make IEC 3 locations economically viable, project operators need a turbine that can exploit even low winds to the maximum. In the Efficiency Class two machines meet these requirements: the N100/2500 and the N117/2400. With a rotor sweep of 10,715 square metres, the N117/2400 is the IEC 3 turbine with the highest yield in its category. The maximum acoustic power level is 105 decibels, which means that the machine can be installed nearer to residential areas and that a wind farm can be optimally laid out in the available space.

With a capacity factor of 40 percent, the N117/2400 is the most profitable solution for light wind sites.

➤ The rotor diameter of nearly 117 metres makes the N117/2400 the specialist for regions with lower winds.



FACTS AND FIGURES

	N100/2500 IEC III	N117/2400 IEC III
Operating data		
Rated power	2,500 kW	2,400 kW
Cut-in wind speed	3 m/s	3 m/s
Cut-out wind speed	20 m/s	20 m/s
Rotor		
Diameter	99.8 m	116.8 m
Swept area	7,823 m ²	10,715 m ²
Speed	9.6 - 14.8 rpm	7.5 - 13.2 rpm
Tip speed	77 m/s	72 m/s
Speed control	Variable via microprocessor	Variable via microprocessor
Overspeed control	Pitch angle	Pitch angle
Gearbox		
Construction	Combined spur/planetary gear or differential gearbox	Combined spur/planetary gear or differential gearbox
Generator		
Construction	Double-fed asynchronous generator	Double-fed asynchronous generator
Cooling system	Liquid/air cooling	Liquid/air cooling
Voltage	660 V	660 V
Grid frequency	50/60 Hz	50/60 Hz
Control		
Control center	PLC controlled	PLC controlled
Grid connection	Via IGBT converter	Via IGBT converter
Distance control	Remote controlled surveillance system	Remote controlled surveillance system
Brake system		
Main brake	Pitch angle	Pitch angle
Secondary brake	Disk brake	Disk brake
Lightning protection		
	Fully compliant with EN 62305	Fully compliant with EN 62305
Tower		
Construction	Tubular steel tower, hybrid tower (140 m)	Tubular steel tower, hybrid tower (140 m)
Rotor hub height/Certification	80 m/IEC 3a	91 m/IEC 3a, DIBt 2
	100 m/IEC 3a, DIBt 2	140 m/IEC 3a, DIBt 2
	140 m/IEC 3a, DIBt 2	

Please see the Nordex website at www.nordex-online.com for the latest technical data.



WE ARE REPRESENTED
with offices and subsidiaries worldwide.

Nordex SE

Langenhorner Chaussee 600
22419 Hamburg, Germany
Phone: +49 40 30030 1000
Fax: +49 40 30030 1101
E-mail: info@nordex-online.com

Service

Nordex Energy GmbH

Langenhorner Chaussee 600
22419 Hamburg, Germany
Phone: +49 40 30030 1209
Fax: +49 40 30030 1301
E-mail: info@nordex-online.com

Germany

Nordex Energy GmbH

Centraallee 263a, 46047 Oberhausen
Germany
Phone: +49 208 8241 120
Fax: +49 208 8241 105
E-mail: SalesGermany@nordex-online.com

Denmark, Norway, Baltic countries

Nordex Energy GmbH

Niels Bohrs Vej 12 B, 6000 Kolding, Denmark
Phone: +45 75 73 44 00
Fax: +45 75 73 41 47
E-mail: SalesDenmark@nordex-online.com

UK

Nordex UK Ltd.

Suite 4, Egerton House
The Towers Business Park, Wilmslow Road,
Didsbury M20 2DX, United Kingdom
Phone: +44 161 445 99 00
Fax: +44 161 445 99 88
E-mail: SalesUK@nordex-online.com

Ireland

Nordex Energy Ireland Ltd.

Clonmel House, Forster Way
Swords, Co. Dublin, Ireland
Phone: +353 1 897 0260
Fax: +353 1 897 0299
E-mail: SalesIreland@nordex-online.com

Austria, South-east Europe

Nordex Energy GmbH

Am Wassen 20, 4755 Zell an der Pram
Austria
Phone: +43 7764 69259
Fax: +43 7764 69259 20
E-mail: SalesAustria@nordex-online.com

Spain

Nordex Energy Ibérica S.A.

Pso. de la Castellana, 23 2^a-A
28046 Madrid, Spain
Phone: +34 91 7000356
Fax: +34 91 3199388
E-mail: SalesSpain@nordex-online.com

Sweden, Finland

Nordex Sverige AB

Kungsängsvägen 21, 75323 Uppsala, Sweden
Phone: +46 18 185 900
Fax: +46 18 185 927
E-mail: SalesSweden@nordex-online.com

Benelux

Nordex Energy GmbH Benelux

It Reidlän 79, 8502 CE Joure, Netherlands
Phone: +31 513 41 23 54
Fax: +31 513 41 85 88
E-mail: SalesBenelux@nordex-online.com

Italy

Nordex Italia S.r.l.

Viale Città d'Europa 679, 00144 Roma, Italy
Phone: +39 06 83 46 30 1
Fax: +39 06 83 46 30 60
E-mail: SalesItaly@nordex-online.com

Poland

Nordex Polska Sp. z o.o.

Ul. Puławska 182, 02-670 Warszawa, Poland
Phone: +48 22 20 30 140
Fax: +48 22 20 30 146
E-mail: SalesPoland@nordex-online.com

Turkey

Nordex enerji A.Ş.

Havaalanı Kavşağı EGS Business Park Blokları
B3 Blok Kat: 16 No: 462, Yeşilköy/İstanbul,
Turkey
Phone: +90 212 465 36 03
Fax: +90 212 465 36 04
E-mail: SalesTurkey@nordex-online.com

France

Nordex France S.A.S.

1, Rue de la Procession
93217 La Plaine Saint-Denis, France
Phone: +33 1 55 93 43 43
Fax: +33 1 55 93 43 40
E-mail: SalesFrance@nordex-online.com

Rest of the world

Nordex Energy GmbH

Langenhorner Chaussee 600
22419 Hamburg, Germany
Phone: +49 40 30030 1000
Fax: +49 40 30030 1491
E-mail: info@nordex-online.com

USA, North America

Nordex USA, Inc.

300 South Wacker Drive, Suite 1500
Chicago, Illinois 60606, USA
Phone: +1 312 386 4100
Fax: +1 312 386 4101
E-mail: SalesUSA@nordex-online.com

Asia

Nordex China

Room 808, First Shanghai Center, No. 39
Liangmaqiao Road, Chaoyang District
Beijing 100125, P. R. China
Phone: +86 10 84 53 51 88
Fax: +86 10 84 53 51 58
E-mail: SalesChina@nordex-online.com

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As of: 06/2011



Exhibit 03-2

REpower MM100 Turbine Data

The REpower MM1003 is based on the well-established REpower MM series. As such, it incorporates all the experience derived from our 2,000 operational REpower MM70, MM82 and MM92 wind turbines.

50 Hz. With its longer blades the MM1003 produces high yields in low wind speed areas. The increased swept area of the rotor captures the wind more effectively and thus results in excellent returns over the entire service life.

60 Hz. With its high tip speed factor, the new variant has the potential to achieve rated power even at low wind speeds. This enables the wind farm to secure a constant power supply, making efficient use of the available grid capacity.

The REpower MM100 has a swept rotor area of 7,854 square meters and is available with a hub height from 80 m to 100 m. It has been specifically optimized for use in regions with low wind speeds and operates with an outstanding low sound power level of max. 104.8 dB(A).



We are constantly upgrading our services to meet the increasingly stringent requirements of monitoring, documenting and optimizing the operational behavior of wind farms. Our Reguard package offers a comprehensive modular windfarm management system that can be flexibly configured to suit local factors, ensuring efficient operation of your plant at all times.

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All information contained in this product brochure are subject to change at any time. Repower assumes no liability for any errors or omissions in the content of this product brochure. No guarantees are given. Any scope of services and supply shall be determined exclusively by a formal agreement.

Rated power	MMg2	MMg2	MM100 3A/V04	3A/V14	5M	6M
Rated power	2,050 W	2,050 W	3,370 W	3,370 W	5,075 W	6,150 W
Motor diameter	82.0 mm	82.5 mm	104.0 mm	114.0 mm	121.0 mm	126.0 mm

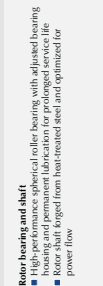
Rpower Systems SE · Headquarters · Überseering 10 · 2297 Hamburg · Germany
Phone: +49-40-5 55 90-0 · Fax: +49-40-5 55 90-39 99
E-mail: info@repower.de · www.repower.de

Makes the most of low wind speeds

MIM100



Design data	1,800 kW (60 Hz) 2,000 kW (50 Hz)	3.0 m/s 10.5 m/s (50 Hz) 11.0 m/s (50 Hz)	22.0 m/s IEC S class (IEC IIIA annual wind) IEC IIA (extreme wind)
Rated power			
Cal'n speed			
Rated wind speed			
Cut-out speed			
Type class			
Rotor			
Diameter	100 m	7.654 m	
Rotor area			
Rated speed			
Rated torque			
Length			
Type			
Drive system			
Type			
Drive system			
Stabilisation			
Gear system			
Type			
Transmission ratio			
Electrical system			
Generator type			
Rated power			
Rated voltage			
Rated speed			
Generator protection class			
Converter type			
Power control			
Principle			
Tower			
Type			
Hub height			
Foundation			
Stiffness			
Service aspects			
■ Individually adjustable blades (electrically controlled) – fail-safe system			
■ Extensive redundant temperature and speed sensing system			
■ Redundant cable and power lines protecting people and machinery			
■ Shielded cables and power lines protecting people and machinery			
■ Rotor braking blade with soft-brake function			



- High-performance spherical roller bearing with adjusted bearing housing and permanent lubrication for prolonged service life
- Rotor shaft forged from heat-treated steel and optimized for power flow



Gear system

- Combined planetary/spur wheel gearbox
- Dimensioned according to Ripower gear regulations, meeting the most stringent requirements regarding service life and smooth running
- Integrated oil particle counter
- Optimized efficiency
- Elastomer bearing on torque multiplier for structure-borne sound insulation
- Low temperature level due to effective oil cooling system
- Excellent oil quality due to three-stage oil filter system



- Secure holding of rotor due to generously dimensioned disc brake
- Soft-brake function reducing stress to the gearbox



Lightning protection


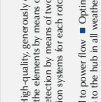
- Lightning protection concept conforming to EC regulations with internal and external lightning protection
- External lightning protection system with blade receptors and lightning rod at the weather mast
- Reliable protection of bearings due to defined lightning conduits
- GFC coupling for the galvanic insulation of the generator system from the gear system
- Over-voltage arrester protecting the electric system
- Reliable protection of the generator by means of insulated bearing bushings



- Externally geared four-point bearing, driven by generously dimensioned high-quality gear motors
- Holding brakes with fail-safe function implemented with hydraulic pressure accumulator release the drives in idle mode and stabilize the nacelle
- Minimal load on drives due to low friction at four-point bearing and release of brakes during tracking



- Yield-optimized variable
- Low conversion loss and to maximum 20 % of the
- Fully enclosed generator
- Optimized temperature

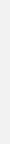


Risk system

- Transmission-free electronic system
- High-quality, generally dimensioned blade bearing with permanent lubrication
- Protected against the elements by means of integrated deflection in the spinner
- Maximum reliability via redundant blade angle detection by means of two separate measuring systems
- Full scale design with separate control and regulation systems for each rotor blade

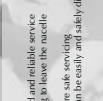
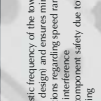
Rotor hub

- Low deformation due to computer design adjusted to power flow
- Optimized integration into pitch drive
- Generally dimensioned spinner allowing access to the hub in all weather



Environment

- No leakage of lubricants at hub or nacelle, due to:
 - layrath packing in spinner
 - casting edges in nacelle panneling and grease pan below azimuth gearing
- Closed central lubrication system for blade bearings
- Shielding of all relevant cables and use of power rails to protect workers and machine



Serviceability

- Ample space in nacelle for ergonomically optimized and reliable service
- Hfo easily accessible in all weathers without having to leave the nacelle
- Excellent accessibility of all components
- Guards mounted over all rotating components ensure safe servicing
- If necessary, virtually all components of the plant can be easily and safely dismantled

Exhibit 03-3

Nordex N100 Safety Manual*

*Filed under seal.

Exhibit 03-4

REpower MM100 Safety Manual*

* Filed under seal.

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

10/26/2011 5:04:41 PM

in

Case No(s). 11-5543-EL-BGA

Summary: Application Part 3 of the Application to Amend Certificate of Hog Creek Wind Farm
II electronically filed by M HOWARD PETRICOFF on behalf of Hog Creek Wind Farm, LLC