

DRIVING OUR
RENEWABLE FUTURE





Each one of us is pursuing a more beautiful life, and the power to create it is with each of us. Our focus on transforming the world with renewable energy is the key to realizing this beautiful existence.

— Wu Gang, Chairman of Goldwind

01

Overview

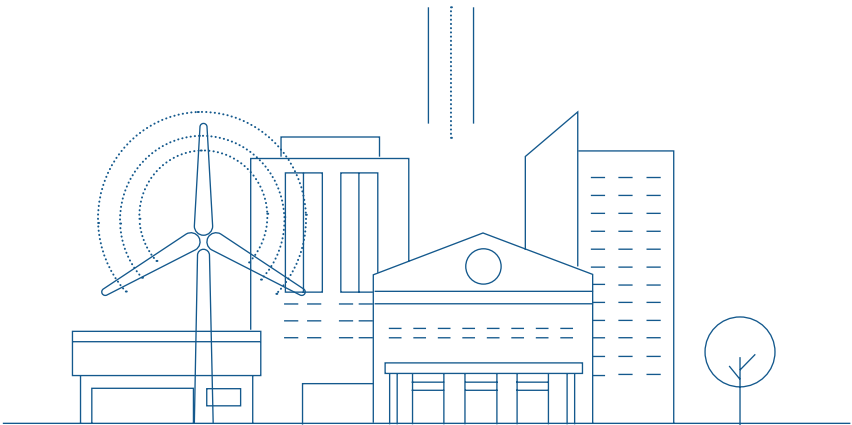


For almost a quarter century, Goldwind has been a leader in sustainable development-committed to driving the renewable transformation of the energy system by providing affordable, reliable and clean energy.

Goldwind is the pioneer and witness in the growth and development of wind power industry in China.

Today, with operations in strategic global markets, we are dedicated to leading clean energy development, energy conservation and environmental protection.

Goldwind has been honored on several occasions as one of the “Climate Leader Plants”, “Most Honored Company in Asia”, “Best Investor Relations Company”, and has been named as the “Top 50 Most Innovative Companies in the World”, “Carbon Clean 200 List”, “Global Top 500 New Energy Enterprises”, “New Fortune Best Listed Companies”, and “Fortune China 500”.



As a pioneer in China wind power industry, Goldwind has 22 years of experience

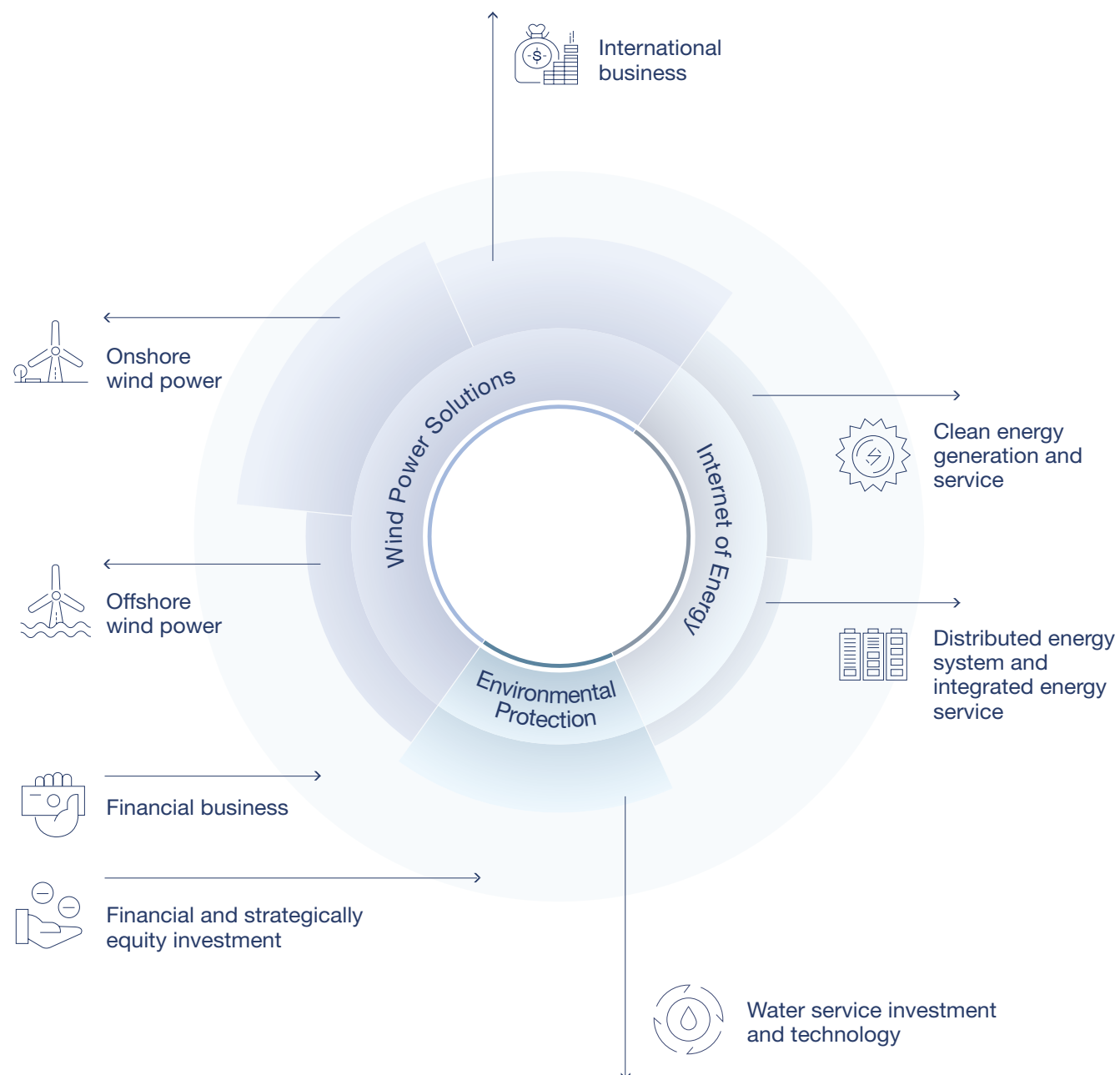
As of year-end 2019, Goldwind has more than 60GW of installed capacity of wind power, with more than 35,000 wind turbines operating worldwide, over 31,000 of which are Goldwind’s signature permanent magnet direct-drive machines

Goldwind operates on six continents, in 27 countries, with close to 9,000 employees globally. Around 3,000 of them are R&D engineers and technicians

Dual-listed in Shenzhen (A-share code: 002202) and Hong Kong (H-share code: 2208), Goldwind has got investment grade credit ratings from both S&P and Moody’s, and we are the first enterprise in China who issued green bonds both in domestic and international markets

 <div>22 Years of Experience</div>	 <div>60GW⁺ Global Installed Wind Power Capacity</div>
 <div>35,000⁺ Wind Turbine Generators</div>	 <div>8,000⁺ Employees</div>
 <div>2 IPOs Shenzhen A-share: 002202 Hong Kong H-share: 2208</div>	 <div>2,000⁺ Engineers</div>

Goldwind's core business resides in three areas with eight brand units – wind power solutions, internet of energy, and environmental protection.



Our global footprint also includes:

- ◇ 7 R&D centers, leveraging knowledge from around the world
- ◇ Cooperation with globally renowned institutes and universities to explore future energy trends
- ◇ Collaboration with more than 500 suppliers, focusing on global green supply chain
- ◇ Over 4,500 recognized patents, making contribution to industry innovation
- ◇ Co-construction of 9 national and local laboratories and engineering centers to enhance our R&D capabilities
- ◇ More than 40 national key research projects and implementation of our mission of energy transformation on a global scale

500+ Suppliers

7 R&D Centers around the Globe

4,500+ Domestically Recognized Patents

40+ National Key Research Projects

9 Laboratories and Engineering Centers

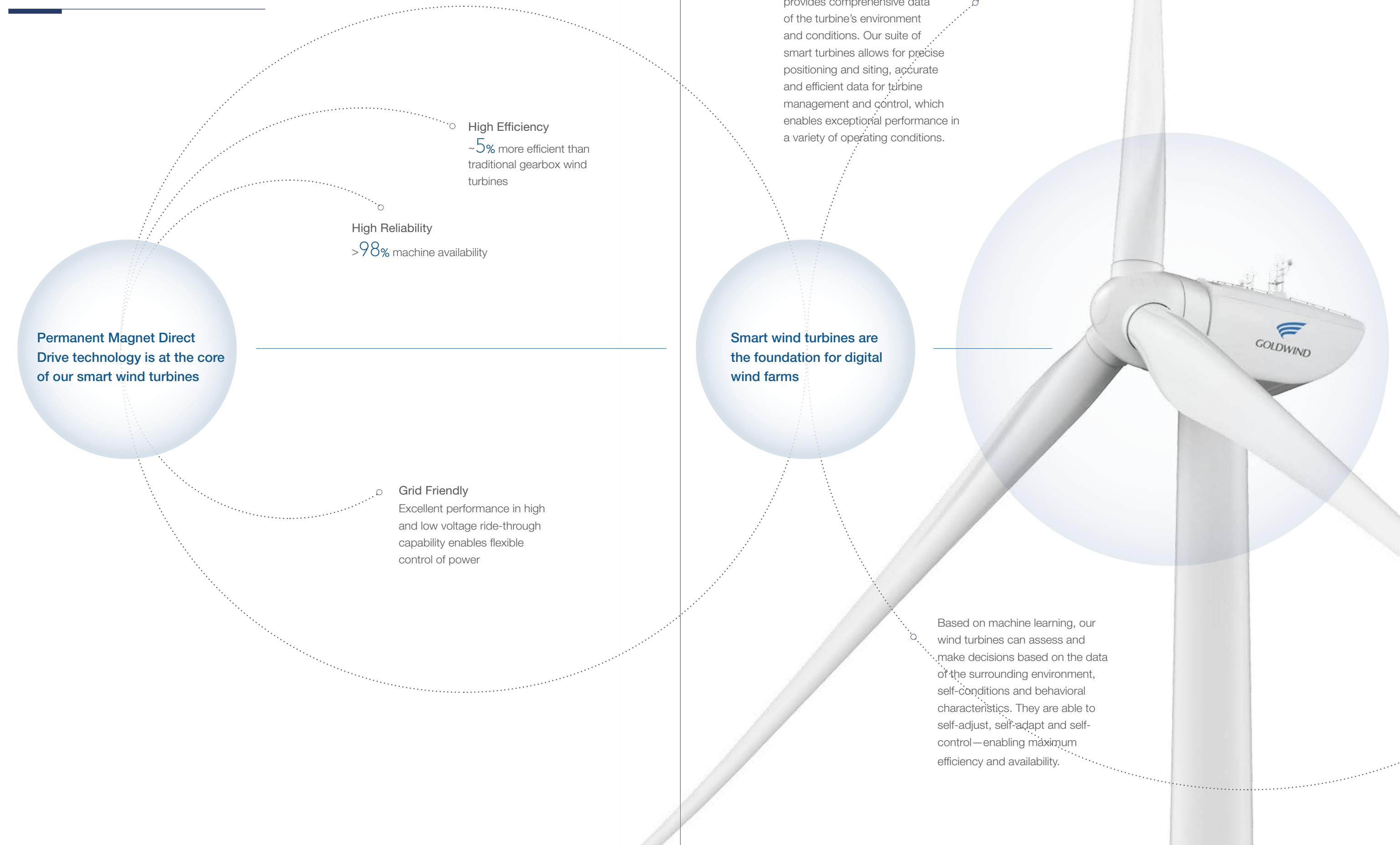


02

Wind Power Business and Digital Transformation

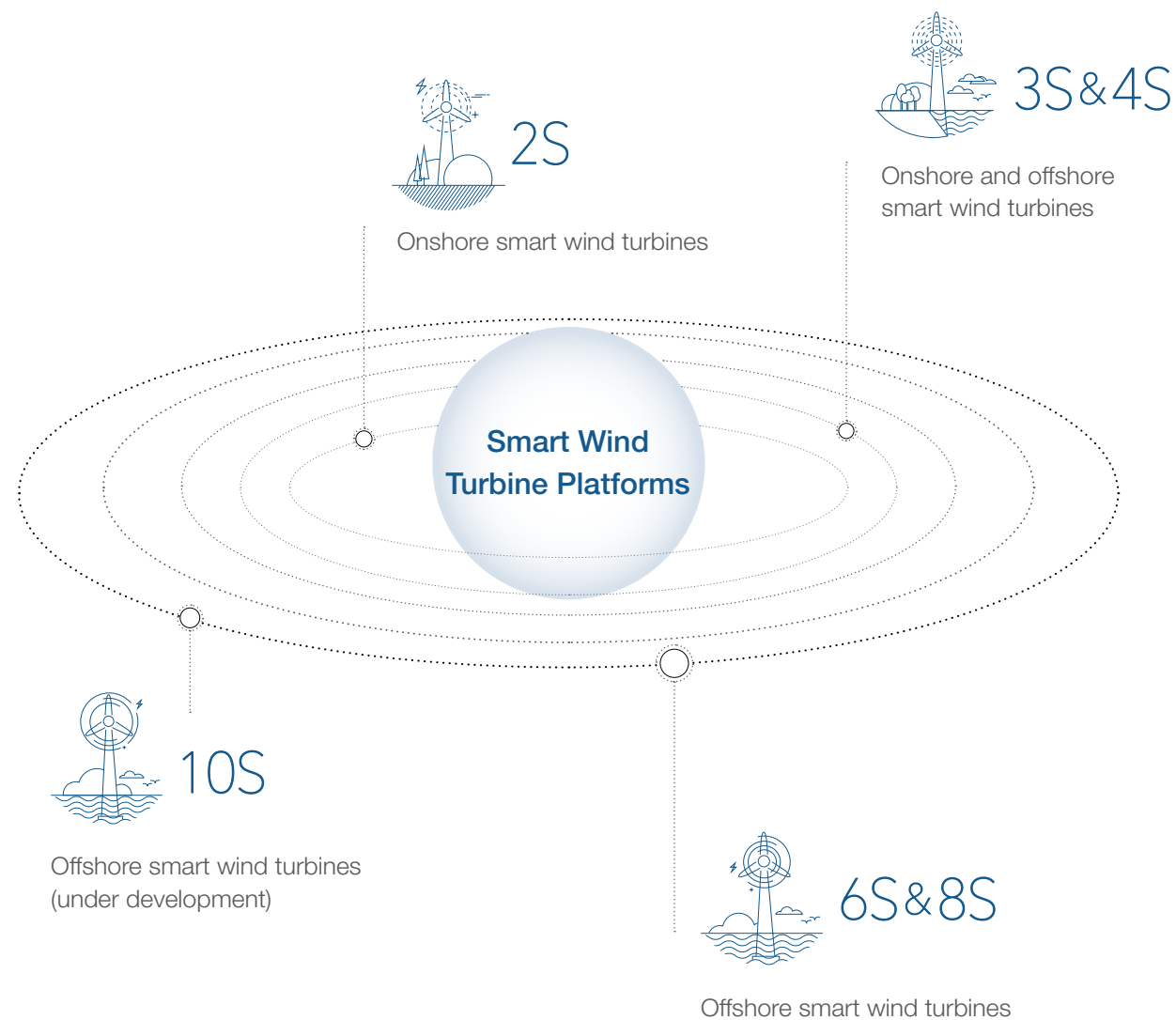


Goldwind Smart Wind Turbines



With a good command of breakthrough technology trends and development road maps, we strive to cover wider application scenarios.

All of our product platforms hold type-certifications issued by leading certification bodies, including TÜV NORD, Intertek, DNV.GL and China General Certification.



We go where our customers go. Goldwind's wind turbines are suitable for a wide range of operating environments and designed to provide business case certainty for our customers. Our value-added services focus on four key points: maximum resource utilization, highest turbine efficiency, the lowest LCoE, and full-life-cycle asset management.



Sichuan · China
High altitude area
3,800 - 4,000 meters



Heilongjiang · China
Extreme cold with
temperatures as low as
-30 °C



Guizhou · China
Extreme weather areas with
freezing rains



Hubei · China
Ultra-low wind speed regions
5.04 meters per second



Ecuador
Earthquake zones
8.0 magnitude



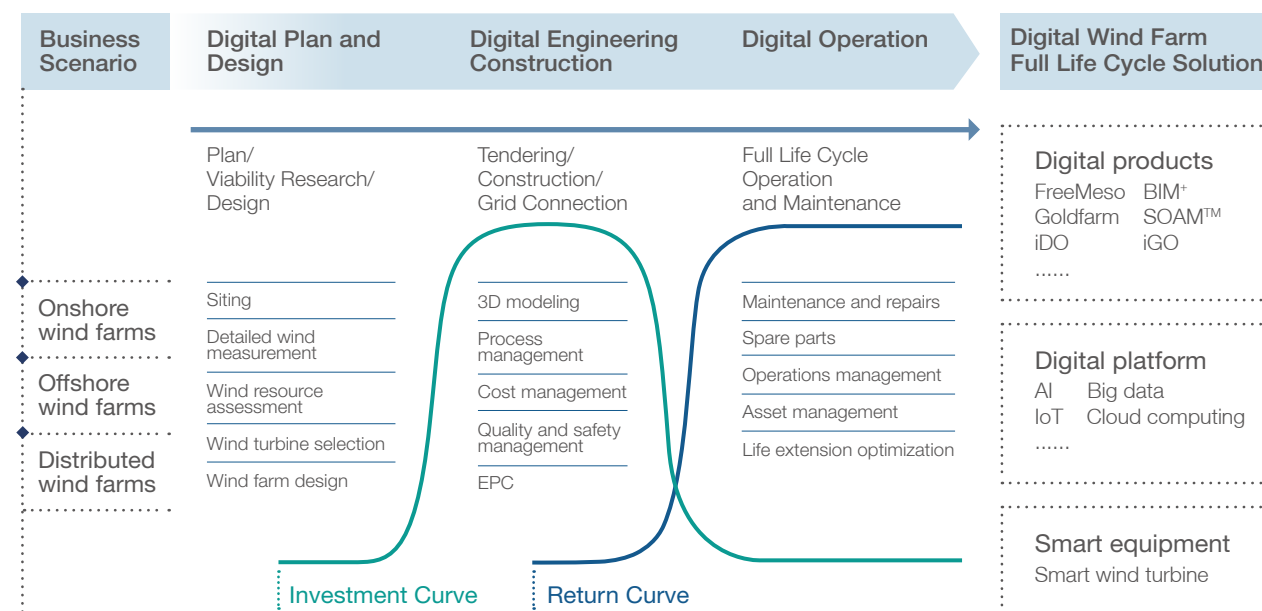
Pakistan
Extreme hot with
temperatures as high as
45 °C

Goldwind Digital Wind Farms

Our digital wind farms utilize Internet of Things and sensor technology, internet and communication technology, as well as information technology applications and big data analytics to achieve deeper insights, more comprehensive interfacing and more intelligent operations.

Value of digital wind farms yield growth ranging from
~1% to 3%

Power generation increase ~5%–15%
Construction period reduction ~5%–10%
Cost reduction ~5%–10%



Goldwind's New Wind Power Service

By harnessing the power of data, we have redefined wind power services. We conduct deep integration of online intelligent monitoring, offline highly efficient implementation, and service and material networks to upgrade the operation, maintenance, material management and efficiency improvement. We are reshaping the industrial ecosystem to create a new service model for wind power—safe intelligent and more efficient than ever before.

“New Service” for Wind Power

Online Smart Monitoring

Stabilize the Value and Improve the Efficiency to Realize Innovation and Value Addition

- ◆ With SOAM™ as its core smart operational system (online) and consulting services under intelligent operational system (offline), we help clients to realize the new model of intelligent operation.
- ◆ Online and offline resources and systems will be fully shared. With the one-stop new services, efficiency will be improved and new values created.
- ◆ Technological support, spare part storage and transportation, and human resources will be guaranteed in a timely manner, with the coverage of service and material network.

Offline Highly Efficient Implementation

Service and Material Network

03

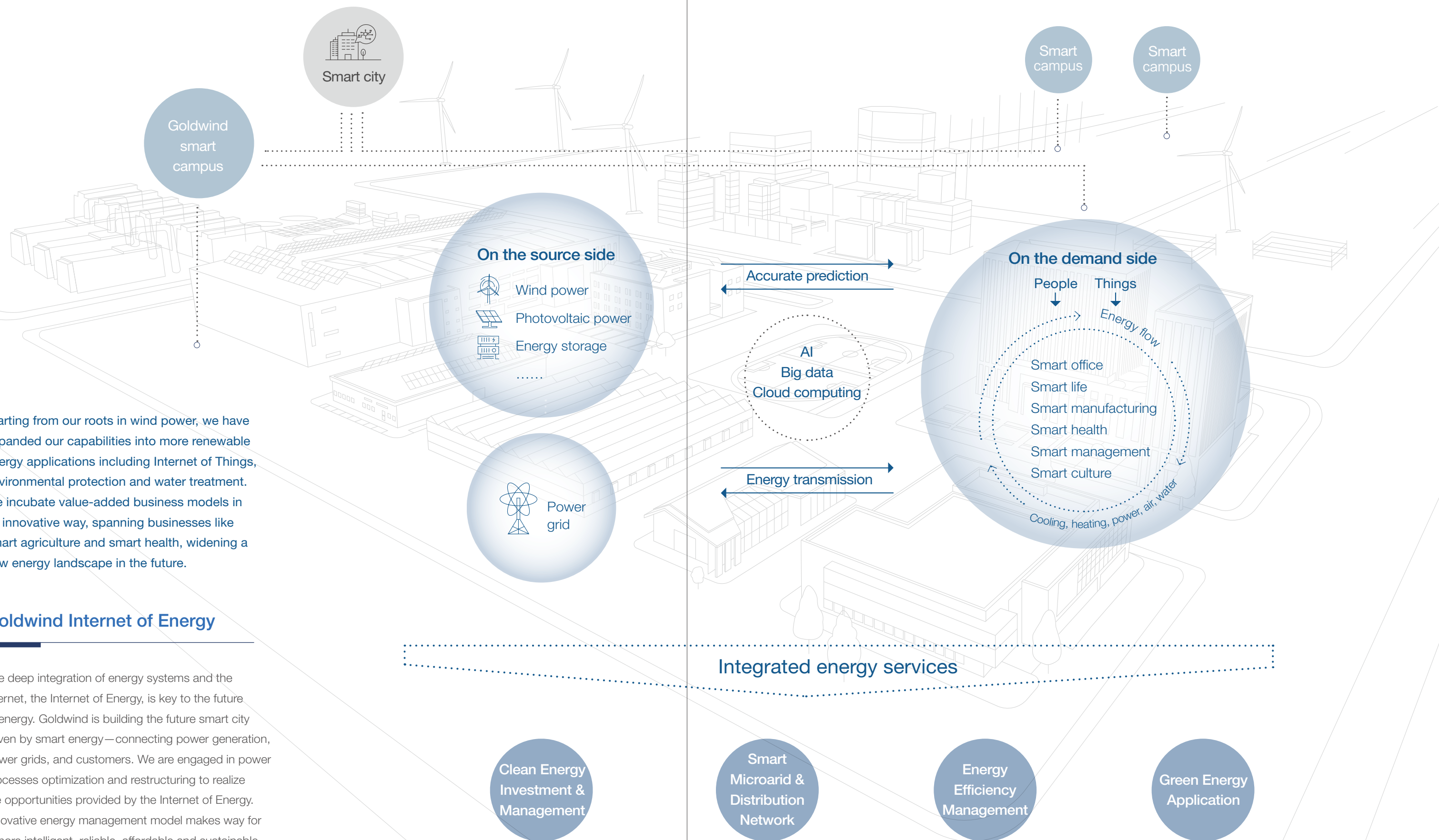
Business Innovation and Incubation



Starting from our roots in wind power, we have expanded our capabilities into more renewable energy applications including Internet of Things, environmental protection and water treatment. We incubate value-added business models in an innovative way, spanning businesses like smart agriculture and smart health, widening a new energy landscape in the future.

Goldwind Internet of Energy

The deep integration of energy systems and the internet, the Internet of Energy, is key to the future of energy. Goldwind is building the future smart city driven by smart energy—connecting power generation, power grids, and customers. We are engaged in power processes optimization and restructuring to realize the opportunities provided by the Internet of Energy. Innovative energy management model makes way for a more intelligent, reliable, affordable and sustainable energy system.





Goldwind Smart Environmental Protection and Water Service Business

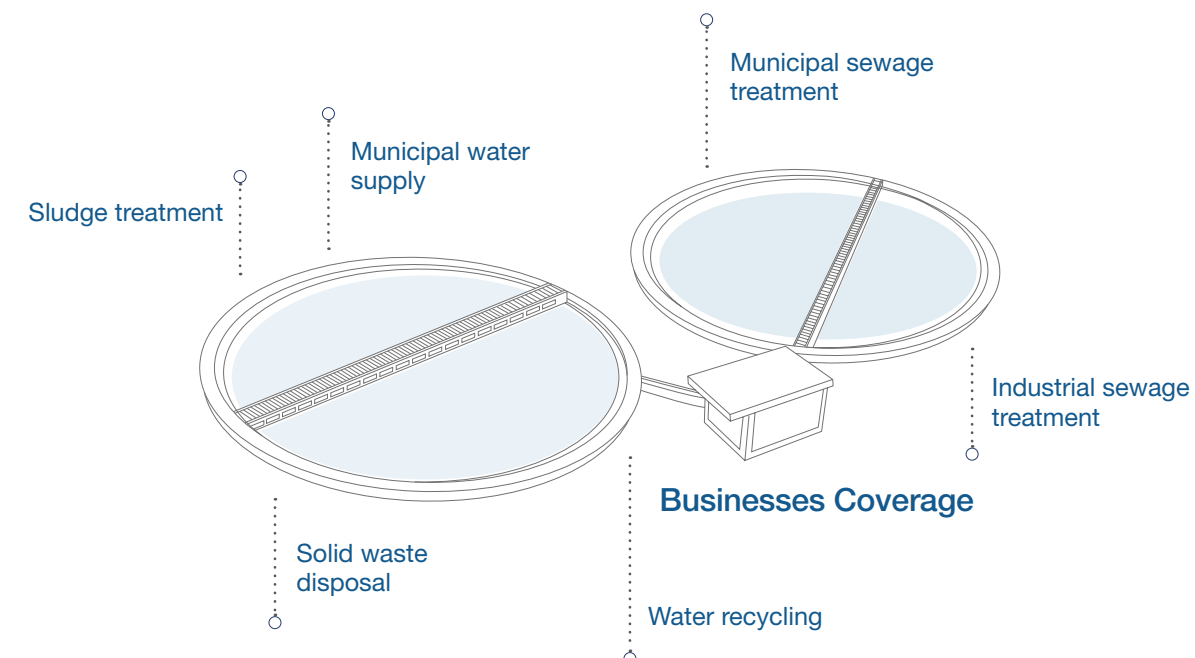
Goldwind's environmental protection and water treatment business focuses on investment and development, construction and operation, and technological innovation in the water treatment industry. We are committed to becoming an industry leader in smart water affairs and an advanced comprehensive solution provider in environment protection. Our businesses cover municipal water supply, municipal sewage treatment, industrial sewage treatment, and water recycling. We are also experienced in the areas of solid waste disposal and sludge treatment. As of the end of 2019, Goldwind had more than 50 water treatment projects, covering a population of 10 million spread in 13 provinces with daily water treatment capacities of over 3 million tons/day and a total asset scale over RMB 6 billion.

50⁺

Water Treatment Projects

3⁺ million tons

Daily Capacity of Water Treatment



04

Corporate Social Responsibility



In 2016, under the leadership of Chairman Wu Gang, Goldwind launched the Wind for Future CSR campaign to target five societal areas: poverty alleviation efforts for industries/communities, poverty alleviation through education/culture, employee and client care, and ecology and environment protection. Wind for Future projects have provided support to 10 ethnic minority groups in 20 Chinese provinces, municipalities and autonomous regions. We have supported over 780 teachers and 40,000 students from rural schools across China. Ultimately, our goal is to expand this program and its efforts on a global scale.



20 Provinces, Municipalities and Autonomous Regions



10⁺ Ethnic Minority Groups



780⁺ Rural Teachers



40,000⁺ Rural Students

Today, our wind turbines help reduce the emission of 122.83 million tons of carbon dioxide, offsetting the use of 37.42 million tons of standard coal. These numbers are the equivalent of reforesting of more than 67.12 million cubic meters. Goldwind turbines provide clean energy in 27 countries on six continents, facilitating the sustainable development of the economy, society and the environment.



67.12 million steres
Equivalent reforestation



122.83 million tons
Annual reduction of CO₂
emissions



37.42 million tons
Standard coal saving

Based on our strong research capabilities, we rely on an international strategy of integrating technology, human resources, market, capital and management. We help clients around the world to utilize renewable energy solutions that are affordable, reliable and sustainable.

Our global footprint

Overseas subsidiaries and global sales offices

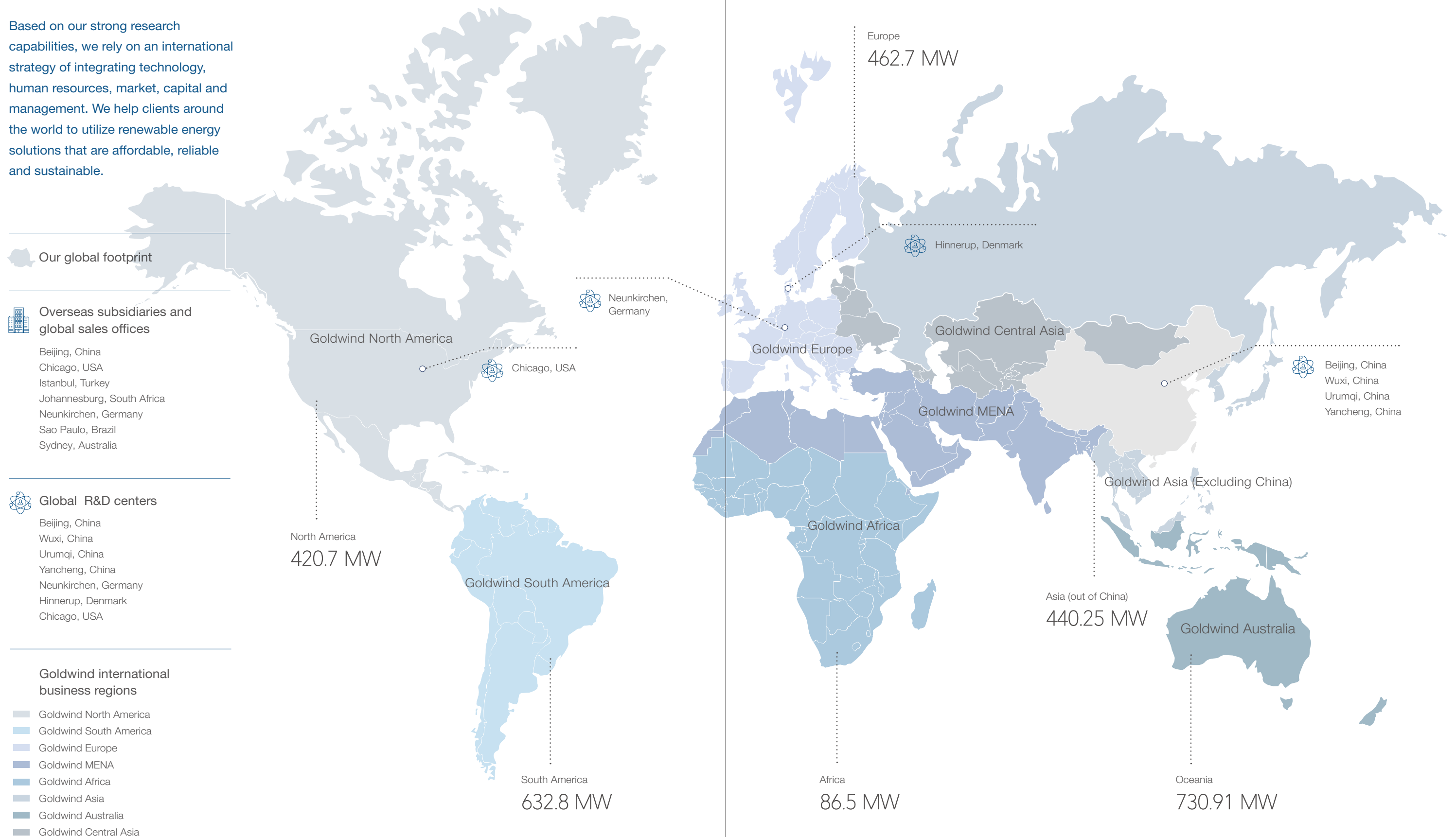
Beijing, China
Chicago, USA
Istanbul, Turkey
Johannesburg, South Africa
Neunkirchen, Germany
Sao Paulo, Brazil
Sydney, Australia

Global R&D centers

Beijing, China
Wuxi, China
Urumqi, China
Yancheng, China
Neunkirchen, Germany
Hinnerup, Denmark
Chicago, USA

Goldwind international business regions

- Goldwind North America
- Goldwind South America
- Goldwind Europe
- Goldwind MENA
- Goldwind Africa
- Goldwind Asia
- Goldwind Australia
- Goldwind Central Asia



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