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Goldwind at a glance

- **15 Years**: Over 15 years of experience in the wind industry.
- **16 GW**: Over 16GW of power installed worldwide as of 2012.
- **13,300 Turbines**: Over 13,300 wind turbines installed worldwide as of H12013.
- **2 IPOs**: Two public stock exchange listings (Shenzhen and Hong Kong).
- **3 Awards**: Recognized (2010 - 2012) by MIT as one of the 50 most innovative companies.
- **1st China**: The largest WTG OEM in China since 2011.
Our Business Model: A provider of integrated solutions

Goldwind offers a comprehensive turnkey menu of services including R&D, project development, turbine manufacturing, project management and after-sale service.
Our Organization: Well positioned to achieve our goals

We can offer diversified solutions through globalization, expansion of our existing business segments and development of new business lines.

Goldwind

R&D
- Experienced and global R&D setting to improve and maintain technological leadership.

Wind Turbines
- Manufacturing excellence to achieve highest economies of scale and scope.

Components
- Integrated supply of electrical control systems to counter bottlenecks and expand into new industry segments.

Service
- Full-Cycle service offerings to diversify profits, improve feedback and secure strong customer relations.

Investment
- Financing, development and operations of wind farms for profit diversification and WTG sales support.

International
- Interface to align and manage international business operations to establish Goldwind as a multinational company.

Providing Integrated Wind Energy Solutions Globally.
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PMDD provides essential technological benefits

The simplicity of the Permanent Magnet Direct Drive technology improves reliability, enhances power output and minimizes maintenance cost.

**Gearbox DFIG – The Incumbent Technology**

- Gearbox
- DFIG
- Power Converter (30% of full-rating)

**PMDD Technology – The Future Technology**

- PMDD Generator
- Full Power Converter (100% of full-rating)

<table>
<thead>
<tr>
<th>Direct Drive</th>
<th>Permanent Magnet Generator</th>
<th>Full Power Converter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eliminates failure of gearboxes</td>
<td>Better fault ride through/zero power requirement to energize</td>
<td>Grid friendly</td>
</tr>
<tr>
<td>Eliminates gearbox energy losses</td>
<td>Eliminate secondary winding losses</td>
<td>More control and operational flexibility</td>
</tr>
<tr>
<td>Reduces number of parts required</td>
<td>Eliminate slip rings &amp; associated maintenance</td>
<td>Meet Future Grid Codes and Requirements</td>
</tr>
</tbody>
</table>

DFIG = Double-Fed Induction Generator; PM = Permanent Magnet; PMDD = Permanent Magnet Direct Drive
PMDD: The superior generator for strong wind energy economics

Goldwind has optimized its direct-drive permanent magnet design and enhanced its essential benefits to ultimately lower cost of energy for the customer.

Superior Grid Compliance
Superior Efficiency
Superior Reliability

Higher Power Output
Higher Top-Line & Lower Bottom-Line
Lower Maintenance Cost

Source: Morgan Stanley, IHS EER.
Partnered for Success: Goldwind and Vensys lead the industry

Partnership provides mutual benefits to both parties so that success is maximized. With Vensys, Goldwind possess over 20 years of PMDD R&D expertise.
Our Products: Development that satisfies our customers needs

Progressive evolution in developing a highly competitive portfolio of WTGs with a systematic approach to achieve the best combination with blade, tower and foundation.
Focus on Innovation: Product specialization drives our sales success

Specialized products designed for challenging environments drive China sales and give Goldwind a competitive advantage in the global market.

For the 3rd time in a row Goldwind was selected as one of MIT Technology Review’s 50 Most Innovative Companies

<table>
<thead>
<tr>
<th>Environment</th>
<th>China Installations</th>
<th>Global Installations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low temperature</td>
<td>Heilongjiang, Liaoning, Jilin, Inner Mongolia, Xinjiang, Hebei, Gansu, Ningxia</td>
<td>USA</td>
</tr>
<tr>
<td>High temperature</td>
<td>Jiangxi, Hainan</td>
<td>Ethiopia, Pakistan</td>
</tr>
<tr>
<td>High altitude</td>
<td>Yunnan, Guangxi, Guizhou, Qinghai</td>
<td>Ecuador, Chile</td>
</tr>
<tr>
<td>Low wind speed</td>
<td>Beijing, Hebei, Shanxi</td>
<td>Cyprus</td>
</tr>
<tr>
<td>Coastal/intertidal</td>
<td>Jiangsu, Jiangxi, Shandong</td>
<td></td>
</tr>
<tr>
<td>Offshore</td>
<td>Jiangsu, Liaoning</td>
<td></td>
</tr>
</tbody>
</table>

Source: Company filings.
Global R&D: Leveraging international synergies and knowledge

Goldwind employs over 800 R&D and Service engineers based in 3 R&D centers and holds strong partnerships with leading universities around the world.

<table>
<thead>
<tr>
<th>R&amp;D Center</th>
<th>University Cooperation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Germany</td>
<td>Neunkirchen</td>
</tr>
<tr>
<td>China</td>
<td>Urumqi</td>
</tr>
<tr>
<td>China</td>
<td>Beijing</td>
</tr>
<tr>
<td>United States</td>
<td>Columbia University</td>
</tr>
<tr>
<td></td>
<td>Brown University</td>
</tr>
<tr>
<td>Europe</td>
<td>HS Saarbrücken</td>
</tr>
<tr>
<td></td>
<td>TU Delft</td>
</tr>
<tr>
<td></td>
<td>DTU Copenhagen</td>
</tr>
<tr>
<td></td>
<td>HEC Lausanne</td>
</tr>
<tr>
<td>Australia</td>
<td>UNSW</td>
</tr>
</tbody>
</table>

- Project-based R&D Collaborations
- Tailored Internship & Thesis Programs
Supply Chain Excellence: Creating a global supply footprint

We achieve to create global long-term partnerships with the leading suppliers in the industry and demonstrate our commitments to local suppliers.
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Globalization through localization

Globalization through localization leads to tailored solutions as well as quantifiable, long-term returns and benefits for local communities, and sets Goldwind apart as a global leader.

- **International Technology**
  Vensys partnership for cutting-edge PMDD technology.

- **International Talent**
  Tapping high level talent with global exposure.

- **International Management**
  Leveraging international management strengths.

- **International Supply Chain**
  Building a global supply chain with local advantages.

- **Continuous Improvement**

- **International Capital**
  Deploying international capital through local transaction expertise.
The Goldwind Group has a growing international track record of 372MW. With over 366 MW delivered and a backlog of 439 MW outside of China, Goldwind is successfully developing a broad international footprint.

Backlog (as of Q4 2012)
- 215.8 MW Asia & Oceania
- 158.5 MW Americas
- 65.0 MW Others

Legend (as of Q4 2012)
- MW delivered
- Head Office
- Sales Office

Note: International deliveries includes internal sales to international projects and sales by majority-owned subsidiary Vensys.
North American Case Study: US Shady Oaks project
Goldwind's largest foreign wind project demonstrates its strong international EPC and O&M capabilities.

**Factsheet**

<table>
<thead>
<tr>
<th>Capacity</th>
<th>109.5 MW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Developer</td>
<td>Goldwind</td>
</tr>
<tr>
<td>Owner</td>
<td>Algonquin Power</td>
</tr>
<tr>
<td>Financing</td>
<td>CDB</td>
</tr>
<tr>
<td>Unit Type</td>
<td>68 units of GW82/1.5MW, 3 units of GW100/2.5MW</td>
</tr>
<tr>
<td>O&amp;M</td>
<td>Goldwind</td>
</tr>
</tbody>
</table>
Africa Case Study: Ethiopia Adama project

Adama Wind Farm awarded African Wind Project of the Year at Terrapinn’s 2011 Africa Energy Awards.

| Capacity | 51.0 MW |
| Developer | Hydro China |
| Owner | Ethiopia Electric |
| Financing | China Ex-Im Bank |
| Unit Type | GW77/ 1.5 MW |
| O&M | Goldwind |
South America Case Study: Chile Ckani Project
The Ckani project is developed through a Joint Venture between Goldwind and Mainstream.

<table>
<thead>
<tr>
<th>Factsheet</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>70.5 MW</td>
</tr>
<tr>
<td>Developer</td>
<td>GW &amp; Mainstream</td>
</tr>
<tr>
<td>Owner</td>
<td>GW &amp; Mainstream</td>
</tr>
<tr>
<td>Financing</td>
<td>CDB</td>
</tr>
<tr>
<td>Unit Type</td>
<td>GW 87 / 1.5</td>
</tr>
<tr>
<td>O&amp;M</td>
<td>Goldwind</td>
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</tbody>
</table>
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Goldwind Installed Capacity

> 16 GW

Equivalent to

> 12 million tons coal saved per year,
> 29 million tons carbon emissions reduced per year,
> 21 million acres newly planted forest.
Equivalent to

Hong Kong

Total Annual Electricity Use
More than Sidney
Total Annual Electricity Use
From Corporate Social Responsibility to Proactive External Integration

Goldwind takes a comprehensive approach towards corporate responsibility to provide environmental, social and economic benefits.
Employee Development: Goldwind University (GWU)

In September 2011, Goldwind launched the first corporate training and recreation facility within China’s wind turbine manufacturing industry.
North American Case Study: US Shady Oaks project

From construction through operation, Shady Oaks generates significant economic and fiscal benefits in the United States and the community.

- Over 900 Construction Jobs + Project-related activities
- Over 20 Operation Jobs + Project-related activities
- Over $200 Million Economic & Fiscal Benefits

Economic Benefits

Fiscal Benefits

Property Taxes + Lease Payments

Over 20 Years

Over 20 Years
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Our Goal: A global company for the global green energy market

Goldwind is devoted to advance the global wind industry and transforms its portfolio of integrated wind power solutions into an enhanced set of offerings across renewables.
The Economic Community Of West African States (ECOWAS) includes 15 countries, of which 14 are located on the continent, with a population close to 300 million (based on 2009 estimation).

The West African Power Pool (WAPP) which is a specialized institution of ECOWAS constitutes the institutional framework of the regional electric system.

The strategic objective of the WAPP is based on a dynamic vision of the integration of the operation of the national electricity networks in a unified regional market, with cross borders network and regional generation projects.

Currently, the electric sector of the WAPP countries supplies only 30% of the population. The peak load of the region has exceeded 6500MW for a total consumption of almost 40000GWh.
### ECOWAS: Wind resources of best identified sites

<table>
<thead>
<tr>
<th>Country</th>
<th>Average wind speed (m/s)</th>
<th>Generation (MWh/y/MW)</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Senegal</td>
<td>6</td>
<td>2588</td>
<td></td>
</tr>
<tr>
<td>Gambia</td>
<td>6</td>
<td>2588</td>
<td></td>
</tr>
<tr>
<td>Guinea-Bissau</td>
<td>5</td>
<td>1717</td>
<td>Low for investment</td>
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<tr>
<td>Guinea</td>
<td>8</td>
<td>4051</td>
<td></td>
</tr>
<tr>
<td>Sierra Leone</td>
<td>Too low</td>
<td>X</td>
<td>No feasible wind project</td>
</tr>
<tr>
<td>Liberia</td>
<td>Too low</td>
<td>X</td>
<td>No feasible wind project</td>
</tr>
<tr>
<td>Mali</td>
<td>7.2</td>
<td>3531</td>
<td></td>
</tr>
<tr>
<td>Ivory Coast</td>
<td>4.8</td>
<td>1565</td>
<td>Low for investment</td>
</tr>
<tr>
<td>Ghana</td>
<td>6</td>
<td>2588</td>
<td></td>
</tr>
<tr>
<td>Burkina Faso</td>
<td>6.5</td>
<td>2999</td>
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<td>Togo</td>
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<td>Benin</td>
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<td>Nigeria</td>
<td>7.8</td>
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<td></td>
</tr>
<tr>
<td>Niger</td>
<td>8</td>
<td>4051</td>
<td></td>
</tr>
</tbody>
</table>
Our Commitment to the West and North African Countries

Goldwind plans to establish its Office in ECOWAS region, which will cover the wind project in the whole area and also in North African countries.
Our Commitment to the West and North African Countries

Proven track record and strong backlog

- **Ethiopia**: ~150MW
- **Senegal**: ~200MW
- **Togo**: ~35MW
- **Ghana**: ~150MW
- **Cape Verde**: Micro grid project
- **Kenya**: ~50MW
- **Namibia**: ~65MW
- **Sudan**: ~100MW
- **Tunisia**: ~100MW
- **Morocco**: ~100MW

Goldwind ECOWAS / North Africa Regional Office in near future

Goldwind Africa Pty Ltd

Goldwind’s Licensee – AOI, Egypt
Contact
info@goldwind.com.cn