

#### **SUZLON ENERGY**

#### "Emerging Multinationals Conference"

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- 1. Market Overview
- 2. Suzlon Group Overview
- 3. Motives to go abroad
- 4. Q&A

# 1. Compelling growth dynamics

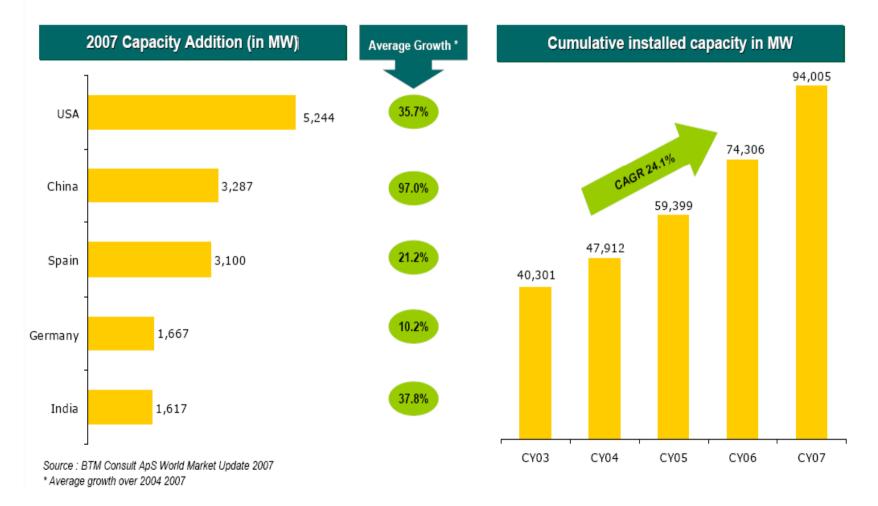


Concern	Demand	Catalysts	
Climate Change and Global Warming	Zero carbon solution	<ul> <li>Aggressive global targets</li> <li>Kyoto Protocol: CO2 emissions to reduce by 5.2% of 1990s levels by 2012</li> <li>EU declaration: 20% from RE by 2020</li> <li>US: 21 States with 10% to 20% RPS mandates</li> <li>China targets 100,000 MW from RE by 2020</li> <li>India: 10 States with 2% to 10% RPO mandates</li> </ul>	
Energy Security	Local availability	<ul> <li>Hedge against geopolitical risks - local and secured supply</li> <li>No risk of fuel price volatility</li> <li>Socially, ecologically and economically sustainable growth</li> </ul>	
Increased Electricity Demand	Abundant resource	<ul> <li>Energy - key to economic growth in developing countries (India, China etc. require all sources quickly to bridge gap).</li> <li>Wind's global electricity generation contribution expected to increase from 0.82% in 2006 to 3.4% in 2030</li> </ul>	
Cost competitiveness and hedging	Zero fuel cost	<ul> <li>Improvement in yields (cost/ kWh)</li> <li>Cost / kWh of generation: US\$ 0.03 - 0.06</li> <li>Wind Energy directly competing with conventional power</li> <li>Frozen lifecycle power cost for utilities</li> </ul>	

# 2. Strong historical growth



- Installations in 2007 : 19,791 MW (32% YoY growth)
- Cumulative installations: 94,005 MW in Dec '07



### 3. Robust growth expectation

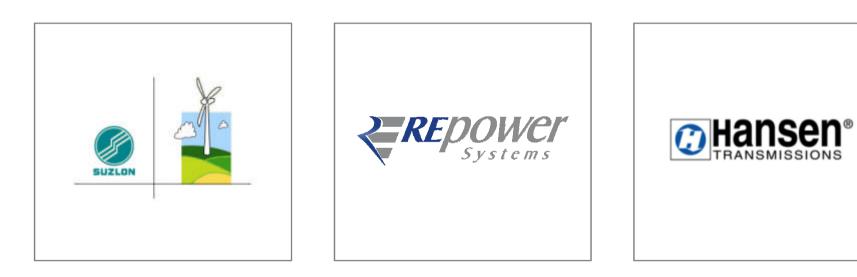




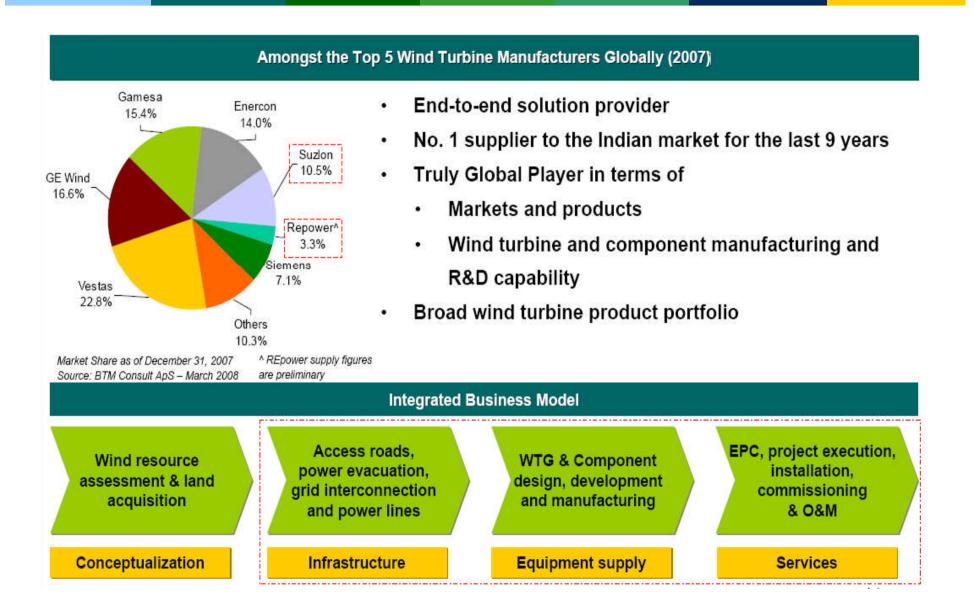




#### **Suzion Group**

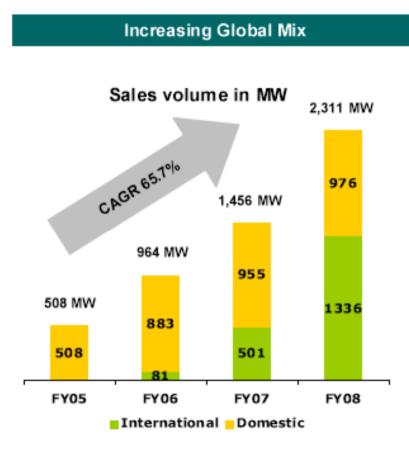






### 6. Company overview



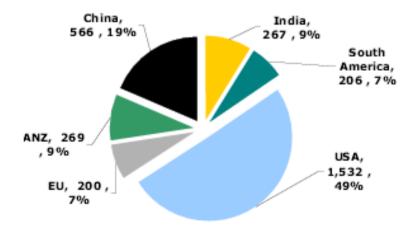


1 USD = INR 42.54 @ Does not infcude REpower and Hansen

#### Order Book - 28 July 2008

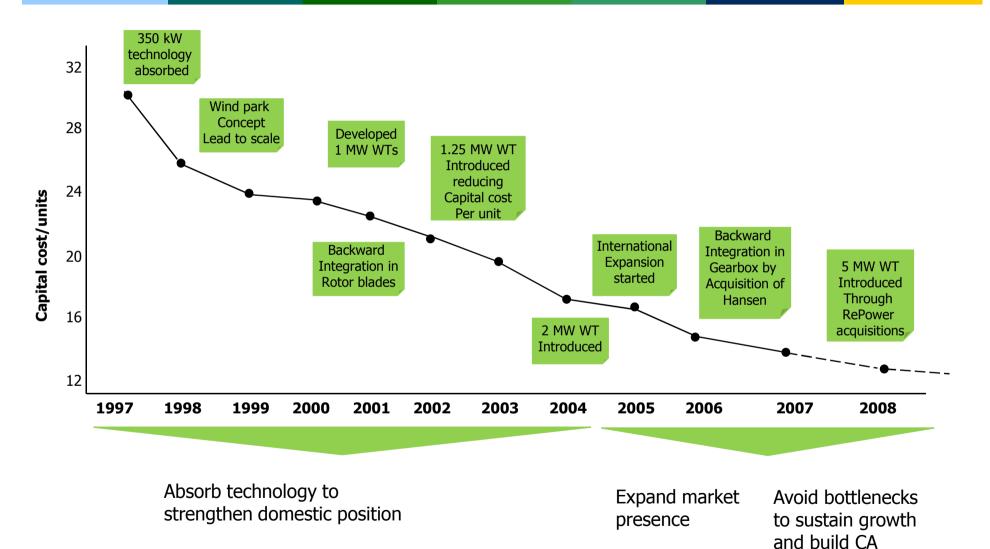
Orders	MW	Value (US\$ mn)
Domestic	267	341
International	2,772	3,536
Total	3,040	3,877

#### Geographical Breakup of Order Book



### 7. Timeline & Select Milestones





### 8. Suzlon goes abroad



Three key drivers to go beyond India:

- 1. Access to technology
- 2. Access to people
- 3. Access to new markets/customers

PHASE I (1995 - 2004):

- Technical collaboration with Südwind (1995)  $\rightarrow$  internalizing R&D by 1997/8
- Formation of AE Rotors in the Netherlands
- Product and process engineering in India
- Alliances: e.g. joint venture with Elin Generators
- Maiden venture into the US market (2002/3)  $\rightarrow$  major barriers detected
- $\rightarrow$  European technology platform
- → Experienced European wind energy professionals (engineers, researchers, technicians) as the core to drive Suzlon's R&D
- → Compete in India

### 9. Suzlon goes abroad

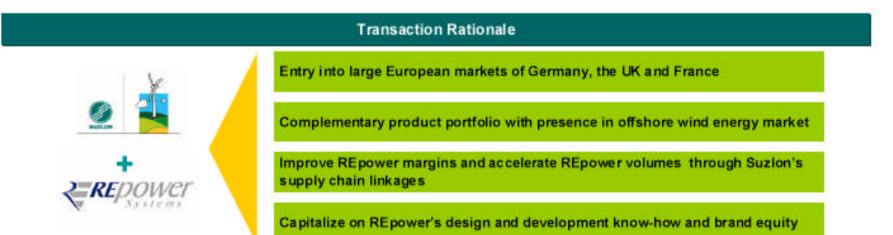


PHASE II (2004/5 -):

- Established International HQ in Århus, Denmark (2004/5)
  - Experienced professionals in e.g. international sales, project management, service management etc. with existing and tested relationships comprising the core team
- Follow the demand North America, Europe, Australia, China etc.
   Creation of Business Units (local organisations, local manufacturing etc.)
- Follow shift in customer trends (consolidating and becoming bigger more complex → higher demands for technology, services, Industrial plans etc.
- Acquisitions: Repower / Hansen Transmissions
- $\rightarrow$  enter new markets and access new customers
- $\rightarrow$  build up experienced and international (but localized) managerial/specialist base
- $\rightarrow$  local manufacturing to lower transportation costs
- $\rightarrow$  expand product portfolio
- $\rightarrow$  access state-of-the-art technology

### 10. Investment in Repower



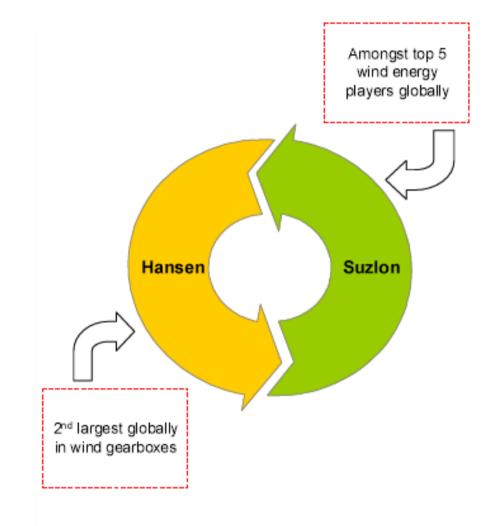


#### Transaction Overview

- · Suzion successfully concludes bid to acquired REpower
- Signed Share Purchase Agreement with Martifer for its approx. 22% stake; transaction to conclude by 15th Dec. '08
- · Controls or influences voting rights of approx. 90% through vote pooling agreement with Martifer
- · Deal financed by:
  - Loan repayable up to 7 years
  - Convertible bond issues totaling US\$500 mn
  - Follow-on equity offering proceeds (proposed utilization)

## 11. Acquisition of Hansen Transmission





- Strategic acquisition of 100% equity of world's leading gearbox and drive train manufacturer in May 2006
- Consideration of € 431 mn for acquisition of ~100% stake in Hansen Transmissions
- Hansen IPO successfully completed raising approx. € 440 mn for 27.1% dilution
- · Hansen stock [HSN] listed on London Stock Exchange
- Post IPO holding of Suzion 71.3%

- · Plugs a critical gap in Suzion's supply chain
  - Gearbox, one of the longest lead-time products in WTG value chain
- Develops a long-term growth driver in form of Wind and Industrial gearbox business of Hansen Transmissions

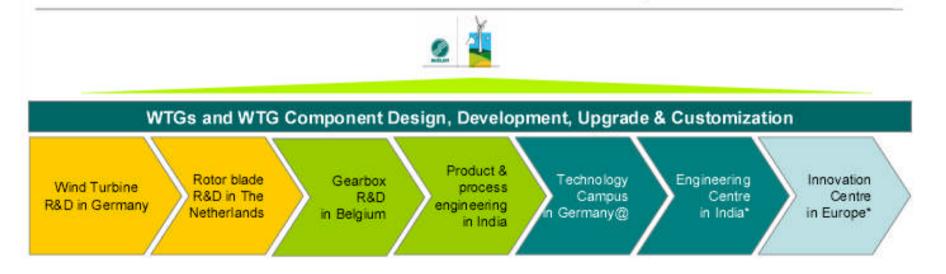
## 12. Integrated R&D capabilities



- Integrated product, component and system design under one organization
  - Global resource pool for quicker design, development and upgrade
- Developed own MW and multi-MW WTG models and rotor blades
- Potential high-capacity on shore and offshore WTGs expertise through REpower
- Recognized technological leadership in Gearboxes (Hansen)
- In-house development expertise in key components

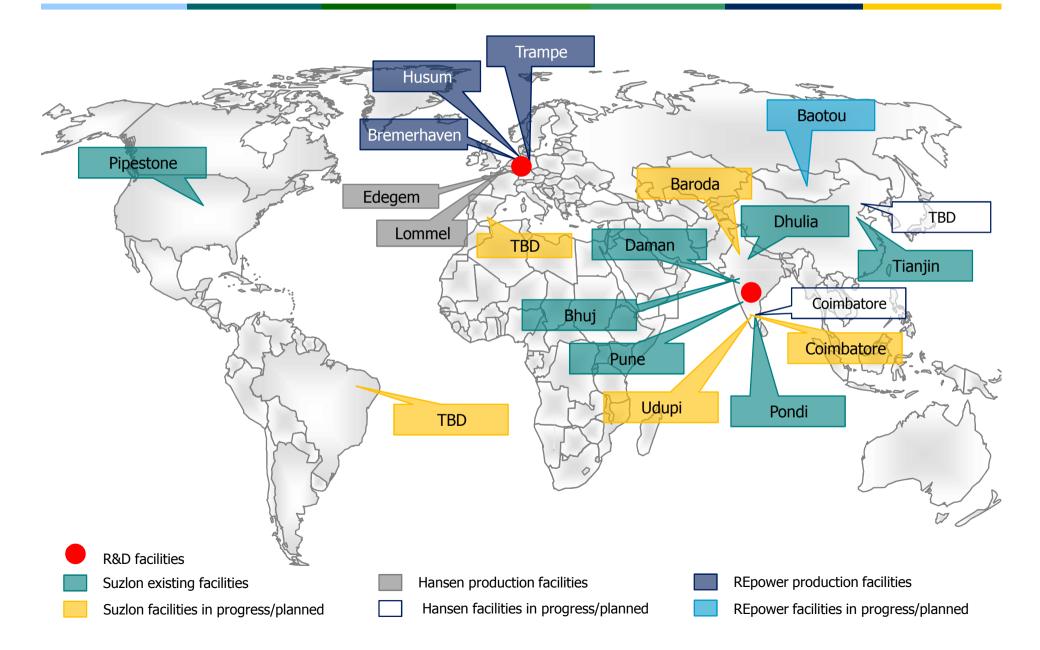
Results in high reliability and credibility among Customers

Plans to invest significant resources for R&D during the next 5 years



### 13. Suzlon group – global presence









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