

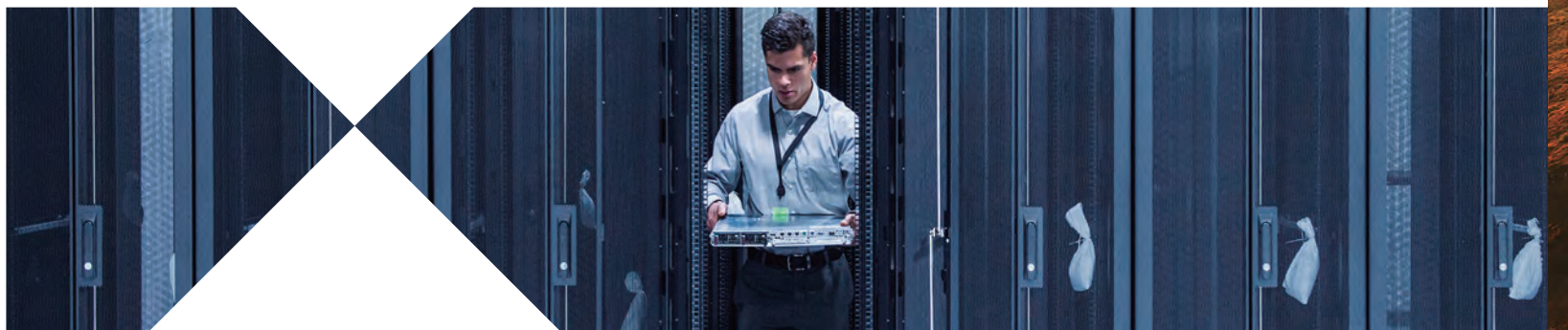


VERTIVTM



Renewable Energy Business

Power Supply Uninterrupted,
Eternal theme





Vertiv focuses on key energy businesses and owns over 40 years successful experience of design, manufacture and Maintenance in the following fields:

Power supply solution for telecommunication

Comprehensive solution for power supply and energy saving in the data center

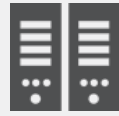
Industrial Electrical Solution

Renewable Energy and Microgrid Solution

WHO WE ARE



SALES
4 Billion



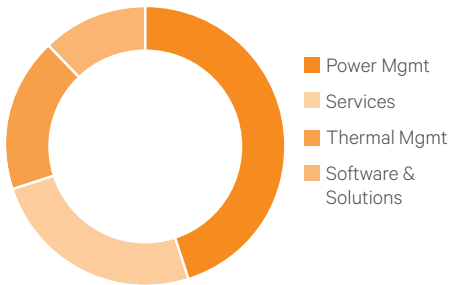
CUSTOMERS INCLUDE
America Movil, Apple, AT&T,
China Mobile, China Tower, Ericsson,
Facebook, Microsoft, Reliance,
Verizon, Walmart, Baidu
State Grid Corporation of China
China Datang, China Huaneng
China Huadian



EMPLOYEES
18000

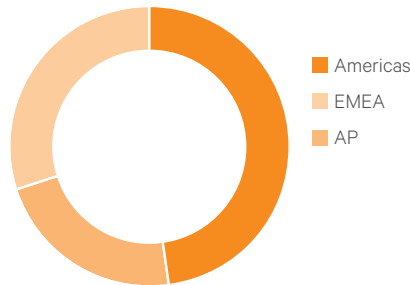
MANUFACTURING SITES: 20
ENGINEERING CENTERS: 15
OPERATIONS: 50 COUNTRIES

Product



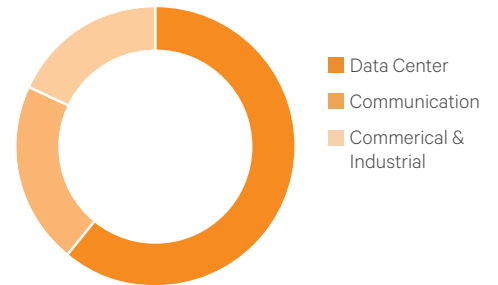
Broad range of power, thermal, and infrastructure management portfolio

Distribution



Worldwide business and supply chain network.

End Market



Serve vital applications in data centers, communication networks, and commercial/industrial environments

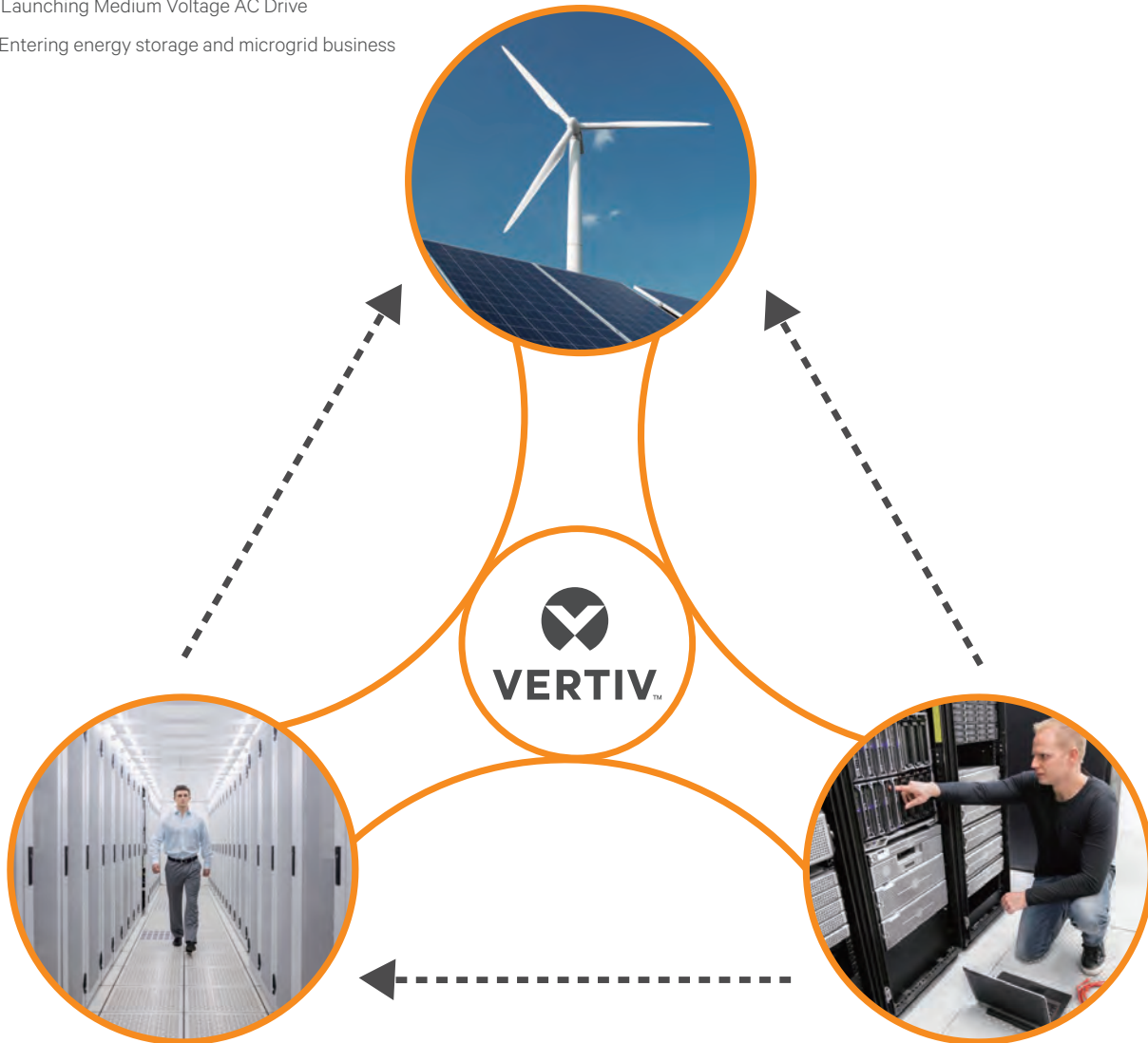
NOTE: FY '17E revenue excluding ASCO

Renewable Energy/Industrial Energy Saving

2007: Launching wind power converter

2007: Launching Medium Voltage AC Drive

2016: Entering energy storage and microgrid business



Power Management Solution for Data center

2004: ENP acquires Marconi outside plant and power system – expanding telecom industry solutions

2009: ENP acquires Avocent – provider of service processor and data center management software and KVM solutions

2010: ENP acquires Chloride® – customized power solutions for industrial applications

Power Management Solution for Telecom

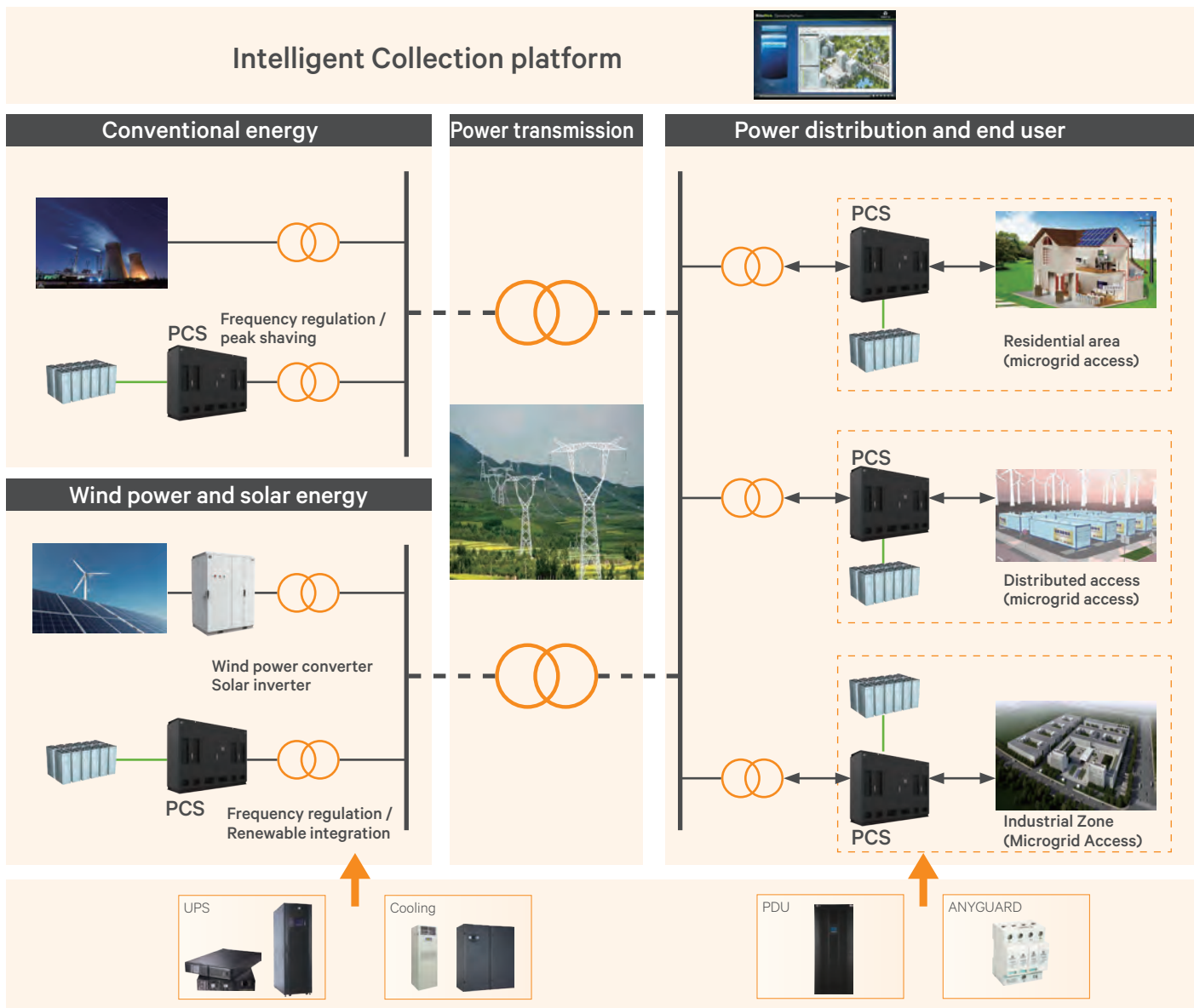
1987: Emerson acquires Libert

2000: Emerson forms Network Power (ENP) business – integrates critical infrastructure technologies under single brand (Emerson)

2001: ENP increases presence in Asia – purchase of Avansys and forms ENP India

Renewable Energy and Microgrid

Renewable energy and microgrid integrated delivery solution



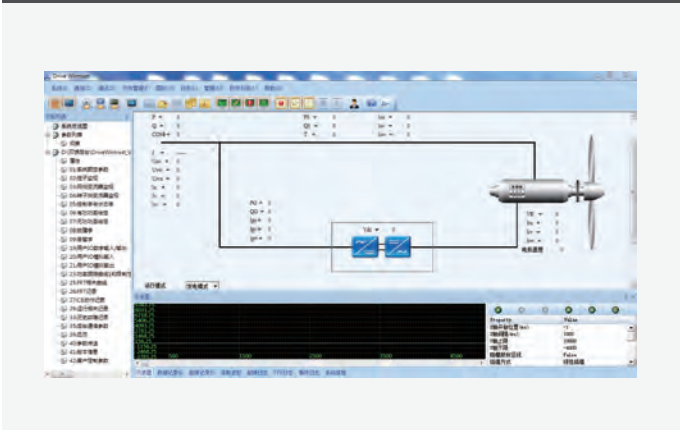
- 40 years of experience in power electronic converter and communication / data center technology applications
- Wind power converter have been perfectly connected to grids all across the world
- Provide microgrid customized design and services to ensure full life cycle economic operation and service upgrades
- Own power system and key component model simulation capabilities to assist customers with grid fault and provide solutions

Wintrust™ Wind Power Converter (1.5-8MW)

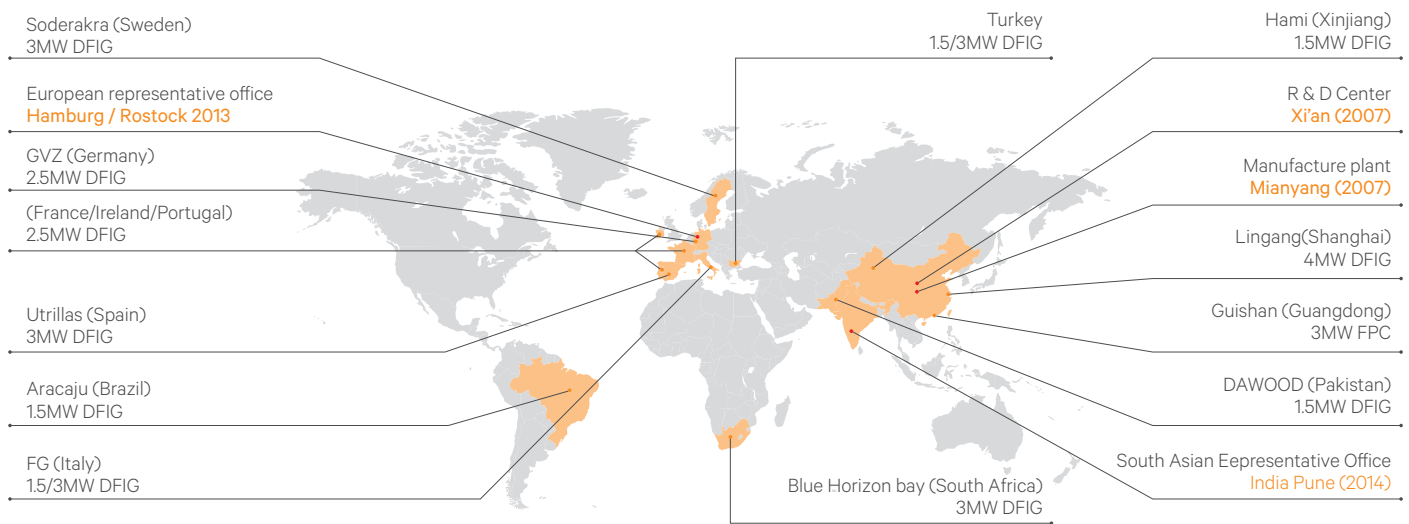
690V DFIG&FP Converter



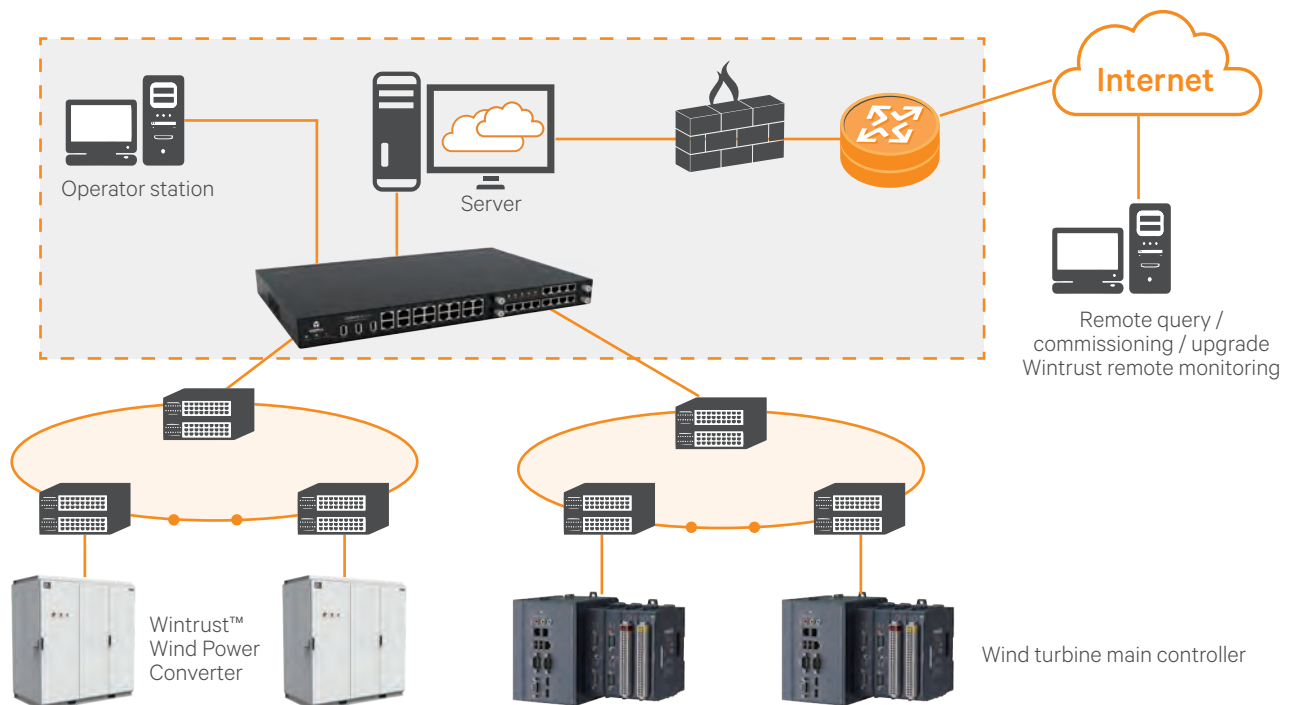
Wintrust Remote monitoring software



400+ wind farms in 18 countries, 15GW installed capacity totally



Wind Turbine Remote Monitoring System



Key features:

- Multi-core CPU control platform, high power density
- Designed for the harshest wind farm application environment (harsh environment / weak grid)
- All PCB three-layer conformal coating treatment
- Control system is supplied by high reliability UPS specially designed for wind power application
- Meet global grid code (GB/T19963-2011/E.ON2006/TSO-2009)
- Modular design for easy maintenance
- Support module and power cabinet paralleling design expansion (maximum 8MW)
- Normalized spare part design to reduce spare parts types and costs
- Environment monitoring technology (temperature / humidity)
- Comprehensive lightning protection design (grid side / motor side / power distribution / IO port)
- Converter redundant design, which can be used to increase the power generation according to the temperature
- Converter modeling simulation capabilities
- Full lifecycle maintenance, support for remote maintenance, remote code upgrades
- Can be customized on request



Enterprise and Product Qualification










Certification

Management Systems:

Quality Management System	ISO9001:2000
Environment Management System	ISO14001:2004
Management System for Energy	ANSI/MSE2000:2005
Occupational Health and Safety Assessment Series	OHSAS18001:2007
Information Security Management System	ISO27001:2005
Telecommunications industry quality management system	TL9000:4.0
Capability Maturity Model Integration	CMMI:L2
Electrostatic protection standards	ANSI/ESD S20.20-1999

Products:

CCC of China	
UL of US	
TÜV of Germany	
CE of Europe	
CEPRI (GB19963-2011)	
E.ON2003/2006	
Transmission Code 2007-SDL-2009	



Services Capabilities

A complete life-cycle approach to service, from project launch to ongoing maintenance and performance optimization

PROJECT	MAINTENANCE	PERFORMANCE
<p>When launching new facilities or powering up new equipment, you want to do it right – right from the start</p> <ul style="list-style-type: none"> • Plan • Design • Engineer • Integrate • Commission • Project Management 	<p>Services to ensure that your business-critical infrastructure operates reliably, safely and efficiently</p> <ul style="list-style-type: none"> • Preventive and corrective maintenance • Remote services and monitoring • Cap / Fan / Battery replacements • Repair • Spare parts 	<p>Full range of services designed to optimize infrastructure performance and reduce process complexity</p> <ul style="list-style-type: none"> • Assess • Audit • Model • Configure • Upgrade • Train

The Vertiv Difference

Services ensure that your vital applications stay up and running. We do this through our vast array of project, maintenance and performance capabilities, supporting you in making better decisions to operate more efficiently and reduce complexity.





About Vertiv

Vertiv designs, builds and services critical infrastructure that enables vital applications for data centres, communication networks and commercial and industrial facilities. Formerly Emerson Network Power, Vertiv supports today's growing mobile and cloud computing markets with a portfolio of power, thermal and infrastructure management solutions including the Chloride®, Liebert®, NetSure™ and *Trellis*™ brands..

For more information, visit VertivCo.com.

Vertiv Tech Co. Ltd.

Address: Block B2 Nanshan Park No.1001 Xueyuan
Road Nanshan Dist. Shenzhen, 518055 China
China Telephone: 86-755-86010808
Postcode: 518055

Telephone before sales:

400-887-6526

Telephone after sales:

400-887-6510

Vertiv and the Vertiv logo are trademarks and service marks of Vertiv Co. © Vertiv Co. 2018 All rights reserved.
E-X621****-0818