Siemens Power Transmission and Distribution

Intelligent Solutions for a Powerful Future

High Voltage
# Corporate Structure

## Managing Board

## Operations

### Information and Communications
- Information and Communication Networks (ICN)
- Information and Communication Mobile (ICM)
- Siemens Business Services GmbH & Co. OHG (SBS)

### Automation and Control
- Automation and Drives (A&D)
- Industrial Solutions and Services (I&S)
- Siemens Dematic AG (SD)
- Siemens Building Technologies AG (SBT)

### Medical
- Medical Solutions (Med)
- Lighting
- Osram GmbH

### Corporate Departments
- Corporate Finance (CF)
- Corporate Personnel (CP)
- Corporate Technology (CT)
- Corporate Development (CD)

### Power
- Power Generation (PG)
- Power Transmission and Distribution (PTD)

### Financing and Real Estate
- Siemens Financial Services GmbH (SFS)
- Siemens Real Estate (SRE)

### Transportation
- Transportation Systems (TS)
- Siemens VDO Automotive AG (SV)

### Regional Organization
- Regional Offices, Regional Companies, Representative Offices, Agencies
## Organizational Structure

### Managing Board

**Dr. Niehage**

<table>
<thead>
<tr>
<th>High Voltage</th>
<th>PTD H</th>
<th>Power Automation</th>
<th>PTD PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rohde</td>
<td>Scholz</td>
<td>Matthé</td>
<td>Trumpp</td>
</tr>
</tbody>
</table>

**Common Tasks:**
- Corporate Communications
- Business Excellence
- E-Business
- Privacy and Information Security
- Engineering & Construction Board
- Export Control and Customs
- Interdivisional Business Administration
- Quality Management
- Technology and Innovation
- Human Resources
- Internal Auditing
- Currency Risk Management

**Dr. Schloß**

<table>
<thead>
<tr>
<th>Medium Voltage</th>
<th>PTD M</th>
<th>Energy Management and Information Systems</th>
<th>PTD EM</th>
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</thead>
<tbody>
<tr>
<td>de Sousa</td>
<td>Reinhard</td>
<td>Dr. Bruck</td>
<td>Lübke</td>
</tr>
</tbody>
</table>

**Business Administration**

| PTD BA | Pfann |

<table>
<thead>
<tr>
<th>Transformers</th>
<th>PTD T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blos</td>
<td>Blos*</td>
</tr>
</tbody>
</table>

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Regional organization and manufacturing plants worldwide

* acting
## High Voltage Division
### At a Glance

<table>
<thead>
<tr>
<th>Category</th>
<th>FY 2003</th>
</tr>
</thead>
<tbody>
<tr>
<td>New orders (worldwide) thereof international business</td>
<td>1.5 bn € 95 %</td>
</tr>
<tr>
<td>Net sales (worldwide) thereof international business</td>
<td>1.4 bn € 96 %</td>
</tr>
<tr>
<td>Employees worldwide</td>
<td>3280</td>
</tr>
<tr>
<td>Germany</td>
<td>1980</td>
</tr>
<tr>
<td>Investments in % of net sales</td>
<td>0.9 %</td>
</tr>
<tr>
<td>R&amp;D in % of net sales</td>
<td>0.8 %</td>
</tr>
<tr>
<td>Factories in Germany</td>
<td>2</td>
</tr>
<tr>
<td>Factories in Europe and overseas</td>
<td>6</td>
</tr>
<tr>
<td>Licensees</td>
<td>8</td>
</tr>
</tbody>
</table>
PTD H - Business Volume
Orders - Regional Structure, FY 2003

New Orders (worldwide): 1.5 bn €

- Asia/Australia: 37%
- Africa/MEA: 25%
- Europe: 20%
- America: 18%
At a Glance

- Power Transmission Projects
- Systems, Products and Components for 52 up to 800 kV
- Turnkey Substations for AC/DC Power Switching and Transmission
- Services from Consulting and Engineering up to Training and After Sales Service
Turnkey Substations

- Conventional Air-Insulated Switching Stations (AIS)
- Gas-Insulated Switching Stations (GIS) also available as mobile switchgear
- Hybride Switching Stations
- Installations for Reactive Power Compensation
- Installations for HVDC transmission:
  - long distance transmission
  - back-to-back ties
Products

High Voltage

- Circuit-breakers 72.5 up to 800 kV
- Disconnectors and Earthing Switches
- Arresters and Limiters for High, Medium and Low Voltage
DC Solutions

High Voltage

HVDC

Back-to-Back Station

up to 800 MW

AC

50 Hz

AC

60 Hz

HVDC PLUS

Long Submarine Transmission

up to 800 MW

AC

DC cable

AC

bis 250 MW

HVDC PLUS

Long Distance Transmission

up to 3000 MW

AC

DC line

AC

bis 250 MW

Light Triggered Thyristor

IGBT

Our Offering 05/03 10