



saes
group

making **innovation happen**, together

RESEARCH FACILITIES &
SEMICONDUCTORS
MANUFACTURING

SAES® Group
focuses its business
on the development and
production of components
and systems realized with
active advanced materials,
patented by SAES and
used in many industrial
and scientific
applications.

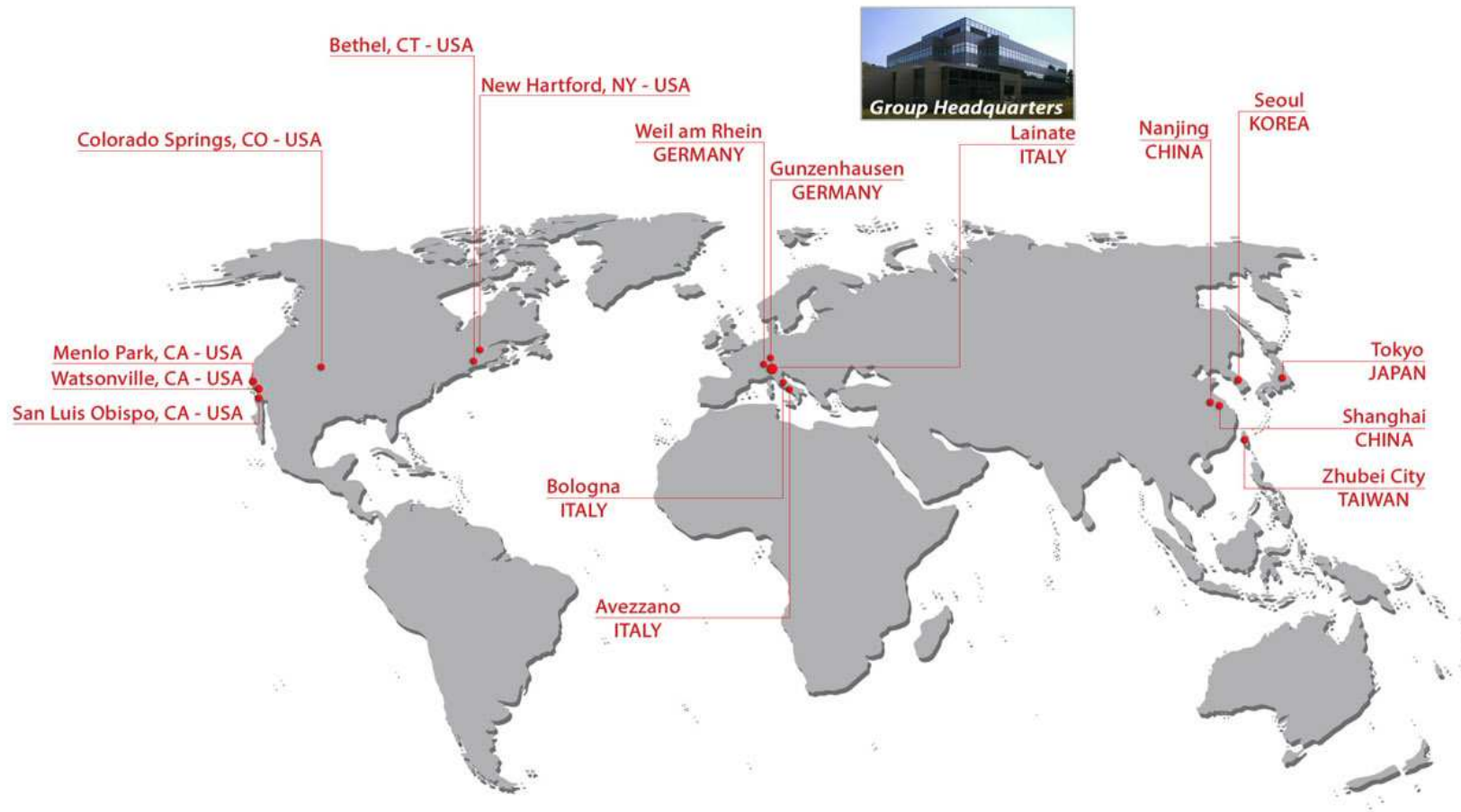
MEDICAL
DEVICES

INDUSTRIAL
APPLICATIONS

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Global Presence



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Research & Innovation

a knowledge-intensive
approach to innovation
is the mission for
SAES people

- ▶ About 11% of net sales allocated to R&I
- ▶ 150 people engaged in R&I activities
- ▶ Over 300 inventions in 70 years

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Core Competences



A Global Quality Approach

Total Quality Management
is our key approach for
Innovative, safe and
environmentally friendly
products development



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Customer Satisfaction

for over 70 years
is an important
strategic goal
of our entire
business system



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Main Markets

Consumer Electronics



Medical Devices



Scientific & Research Systems



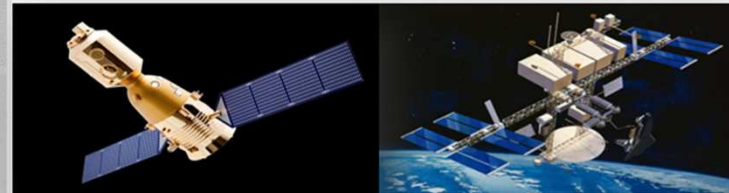
Automotive



Lighting



Telecommunications





Industrial Applications

- Getters & Dispensers
- Pure Gas Handling
- Vacuum Systems & Thermal Insulation

Shape Memory Alloys

- Medical
- Industrial



Business Development

- Organic Electronics
- Energy Storage

Business Organization

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GETTERS & DISPENSERS



ELECTRONIC & PHOTONIC DEVICES



Main applications

- ✓ X-Ray Tubes & Systems
- ✓ Image Intensifiers
- ✓ Vacuum Switches and Interrupters
- ✓ Travelling Wave Tubes
- ✓ Pressure Transducers
- ✓ Microwave Power Tubes
- ✓ Gas Lasers
- ✓ High Power Semiconductor Lasers

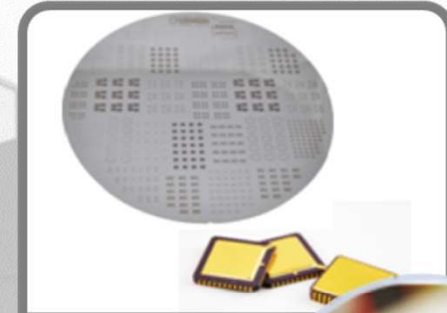


LIGHT SOURCES



Main applications

- ✓ Street Lighting
- ✓ Industrial and Domestic Lighting
- ✓ Commercial Lighting
- ✓ Special Lighting
- ✓ LEDs



SENSORS & DETECTORS



Main applications

- ✓ MEMS Inertial Sensors
- ✓ Thermal Imaging Systems
- ✓ MEMS Pressure Sensors
- ✓ RF Switches
- ✓ MEMS Atomic clock
- ✓ MOEMS and Optical Switches

VACUUM SYSTEMS & THERMAL INSULATION



**VACUUM
SYSTEMS**



**THERMAL
INSULATION**



Main applications

- ✓ Particle Accelerators and High Energy Labs
- ✓ Analytical Instrumentation
- ✓ Processing Tools for semiconductor manufacturing
- ✓ Vacuum Systems

Main applications

- ✓ Solar Collectors
- ✓ Vacuum Bottles and Dewars
- ✓ Vacuum Insulated Pipes and Panels
- ✓ Cryogenic Applications

PURE GAS HANDLING



BULK GAS PURIFIERS



POINT OF USE



AMC ANALYSIS



CUSTOMER SERVICE

Main applications

Large volume gas handling for industry:

- ✓ Silicon Semiconductor
- ✓ Flat Panel Displays
- ✓ LED
- ✓ Power Devices

Main applications

Gas handling next to the process chamber for:

- ✓ Chemical Vapor Deposition
- ✓ Epitaxial Growth
- ✓ Etching
- ✓ Metallization
- ✓ Photolithography
- ✓ Emerging Technology (Fuel Cells, Solar, Diamond Thin Films etc.)

Main applications

- ✓ Pressurized Gases (N₂, CDA, etc.)
- ✓ Ambient Air/Cleanroom

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SHAPE MEMORY ALLOYS



MEDICAL



Main applications

Cardiovascular, Orthopedic, Endoscopic
Surgery supplying:

- ✓ Stents
- ✓ Spinal clips
- ✓ Cardiac valves
- ✓ Parts for guidewires



INDUSTRIAL



Main applications

- ✓ Consumer electronics
- ✓ Automotive
- ✓ Domestic
- ✓ White Goods

BUSINESS DEVELOPMENT



ORGANIC ELECTRONICS



Main applications

- ✓ OLED Displays
- ✓ OLED Lighting
- ✓ OLET Displays
- ✓ LCOS Displays
- ✓ EPD Displays
- ✓ Gas Barrier films
- ✓ Specialized food packaging
- ✓ Functional Polymer Composites for special applications



ENERGY STORAGE

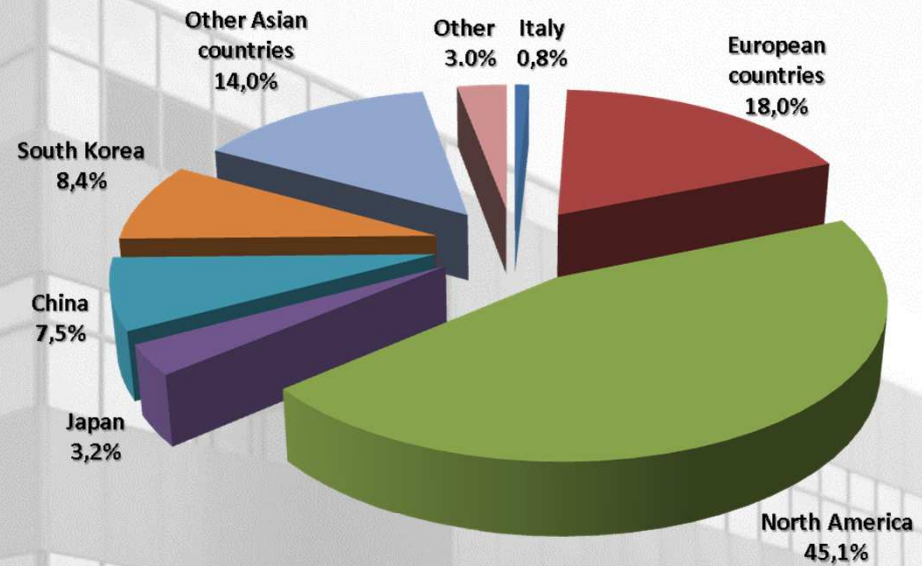


Main applications

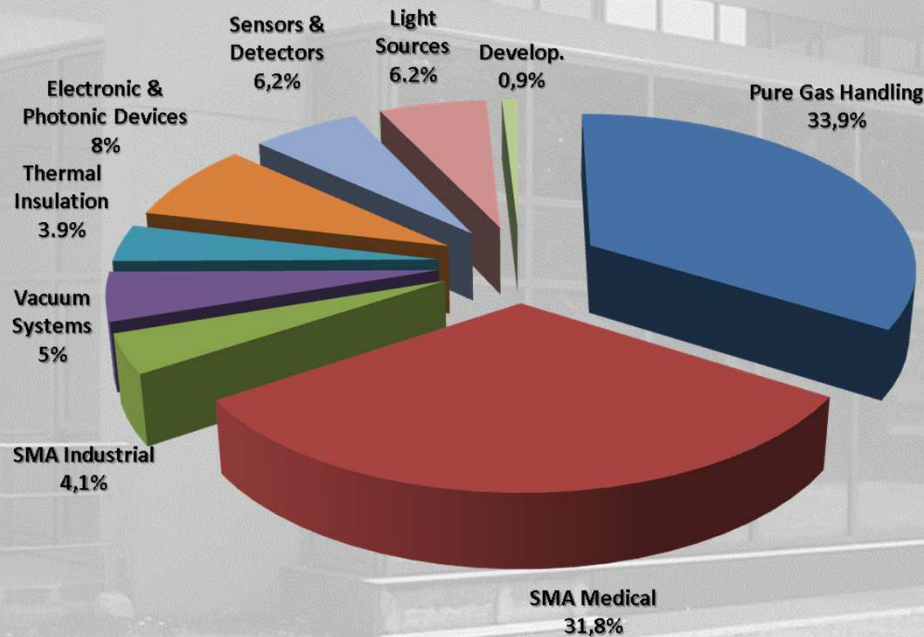
- ✓ Aluminum Capacitors
- ✓ Super-capacitors
- ✓ Lithium Batteries

Financial Results

Sales by Geographic Area
H1 2015



Sales by Business
H1 2015

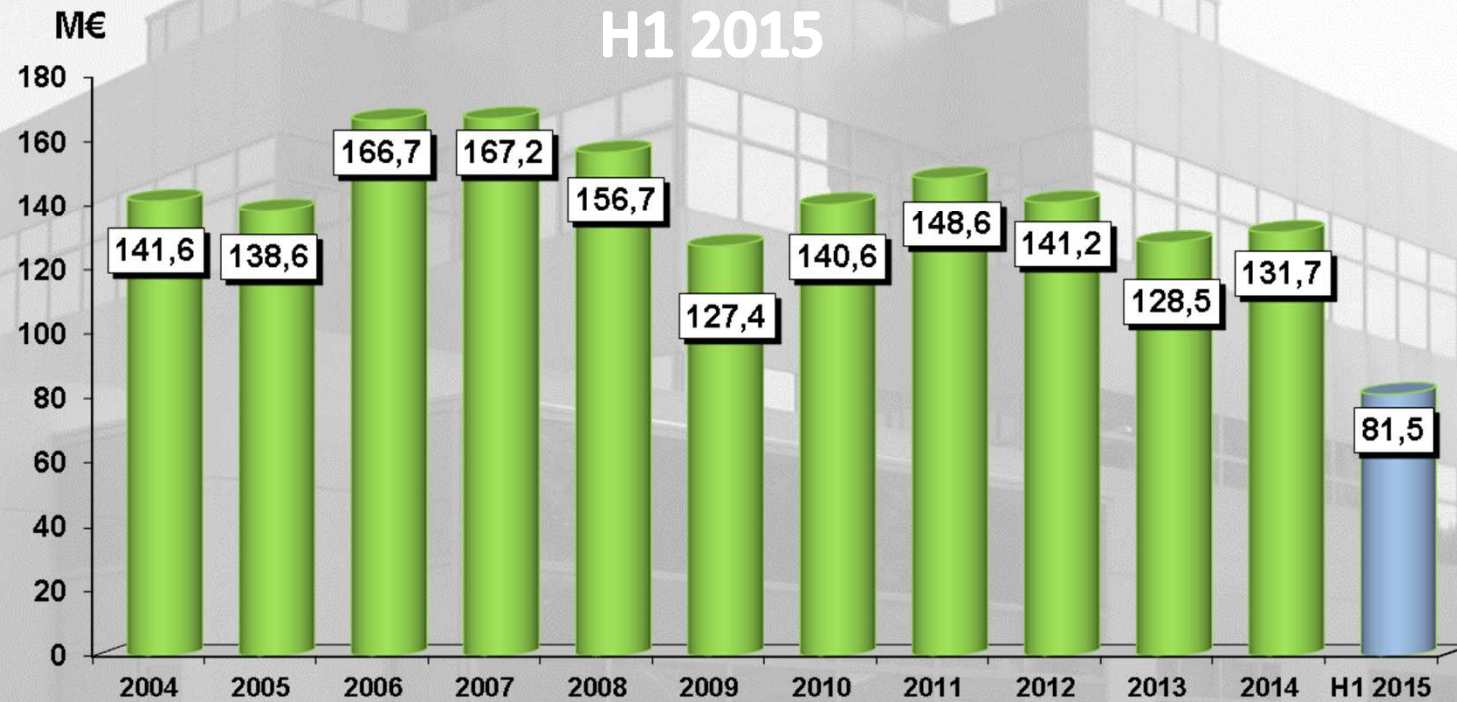


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Financial Results

Consolidated Sales H1 2015



data compliant to IFRS

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Thank you for your attention

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