Core expertise in technology

MERSEN INVESTOR DAY

DECEMBER 4TH, 2014



PROGRAM

9:00 – 9:20	Strategic Vision	Luc Themelin
9:20 – 9:40	Financial Business Model	Thomas Baumgartner
	Break	
10:00 - 10:40	The Electrical Segment	Laurent Marcenac
	Break	
11:15 – 12:30	3 Case Studies Surge Windpower Power Protection solutions converters	Gabriel Ledru Marc Charlebois Emmanuel Carmier



STRATEGIC VISION

LUC THEMELIN CHAIRMAN OF THE MANAGEMENT BOARD



MERSEN'S MEDIUM-TERM STRATEGIC VISION



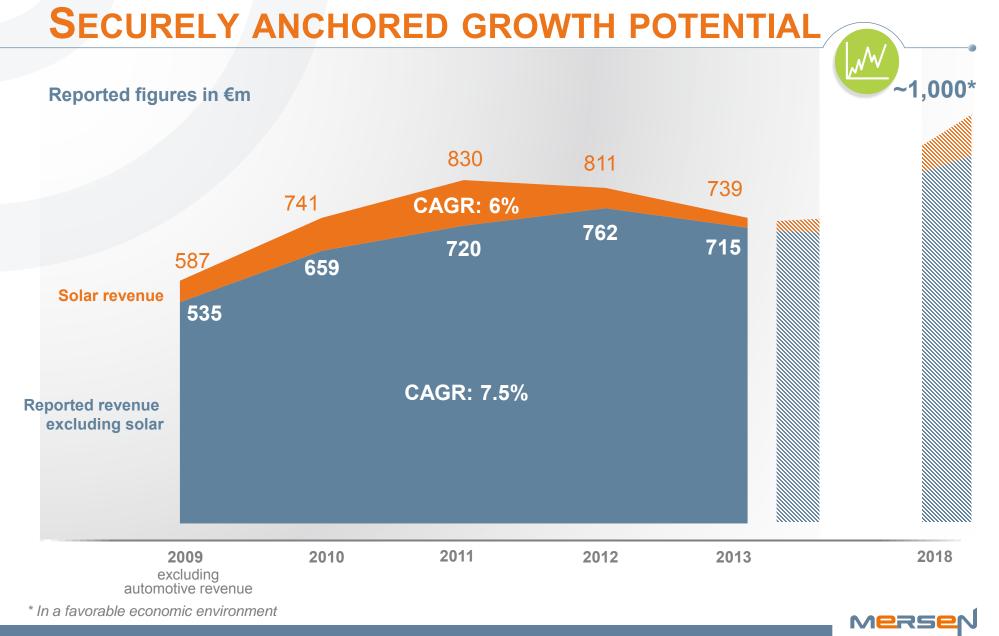
Maximize growth potential in our markets



Optimize our manufacturing facilities







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COMPETITIVE STRENGTHS TO DRIVE GROWTH



THREE DYNAMICS TO SUSTAIN GROWTH

A more powerful innovation drive

A deeper local presence



In a favorable

economic environment

A major contribution coming from the new product pipeline

~€100 million in 2018



To capture growth, especially in Asia

> ~30% of 2018 revenue from Asia



acquisitions drive

Acquired revenue stream

€50-100 million by 2018



OPTIMIZING MANUFACTURING FACILITIES

The Transform plan

- Comprehensive, worldwide plan
- To streamline the manufacturing base, mainly in Europe
- To optimize facilities dedicated to the chemicals market

Objectives

Mers

- Make our centers of excellence more efficient
- Streamline operations and enhance flexibility
- Reduce dependence on cyclical chemicals markets
- Improve competitiveness while maintaining local sales teams close to customers
- Improve the supply chain

RESULTS

- Full-year benefits expected in 2016: an additional 150 bps of recurring operating margin compared with 2013
- Provisions for restructuring costs and impairment recognized in 2014: €30 million

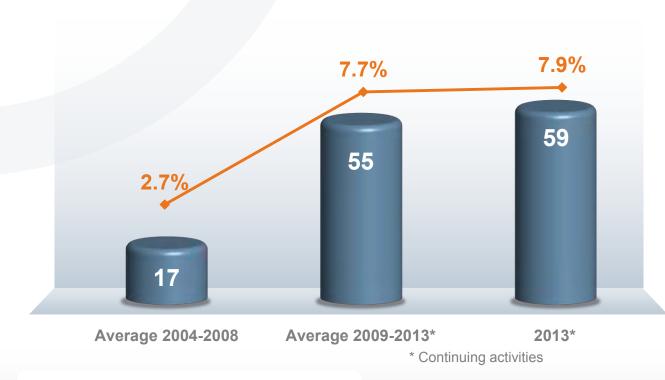
THE TRANSFORM PLAN



- **Closure** of 6 plants in Europe and the United States and **resizing** of 1 plant in Europe >
- **Discontinuation** of the carbon steel equipment business in China >
- **Operational deployment** in H2 2014 and in 2015 >



AN IMPROVING CASH FLOW PROFILE



FCF yield: Free cash flow/revenue

Free cash flow: Operating cash flow - capex (€m)

ACTION PLANS

- 2009-2013: cash initiative plan (centralize inventory, reduce number of SKUs, S&OP methods, incentives, capabilities)
- Beginning in 2014: continuous improvement, lean manufacturing processes in each plant, limited capex



USES OF CASH FLOW



Sustained, targeted acquisitions, mainly in the Electrical Segment

Average valuation: 7 to 9 times EBITDA

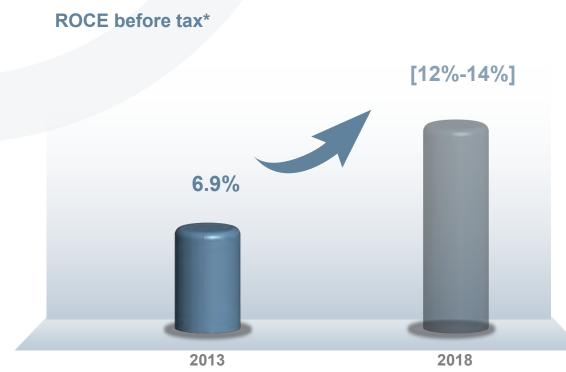
Dividend payments

[30%-40%] payout before non-recurring items

While maintaining debt at an average of [1.5-2.5] times EBITDA



CREATING SHAREHOLDER VALUE OVER THE MEDIUM TERM



- Assuming a favorable economic environment
- Revenue of around €1 billion in 2018
- Recurring operating margin of >12%,
 i.e. recurring operating profit of around €120m (vs. €60m in 2013)



* Before non-recurring items



Powerful market drivers

Solid industrial fundamentals

Robust finances

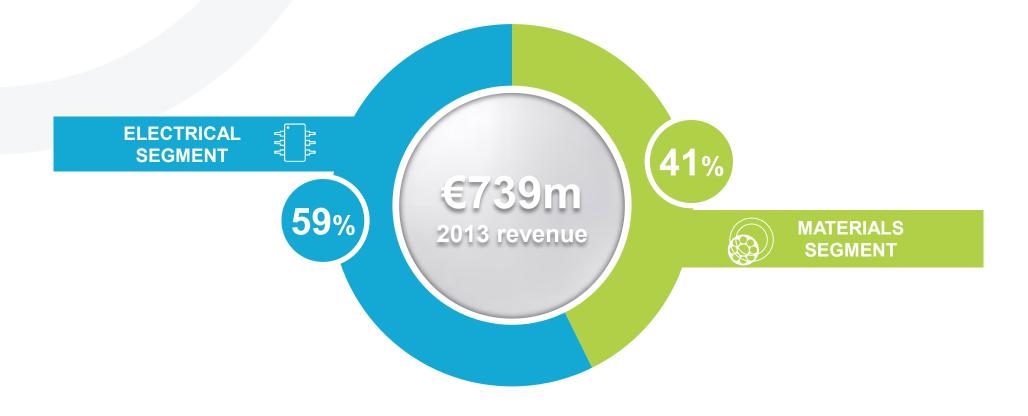


FINANCIAL BUSINESS MODEL

THOMAS BAUMGARTNER CHIEF FINANCIAL OFFICER

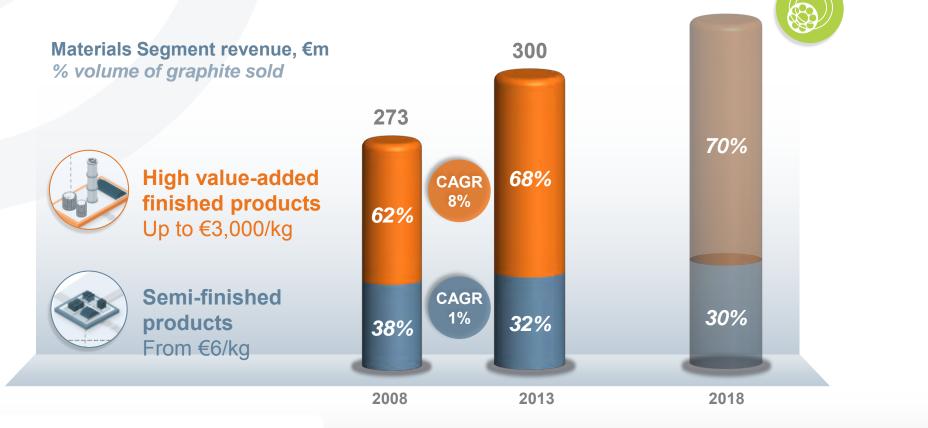


2 STRATEGICALLY RELATED SEGMENTS





MATERIALS SEGMENT: RAISING BARRIERS TO ENTRY AND INCREASING VALUE-ADDED

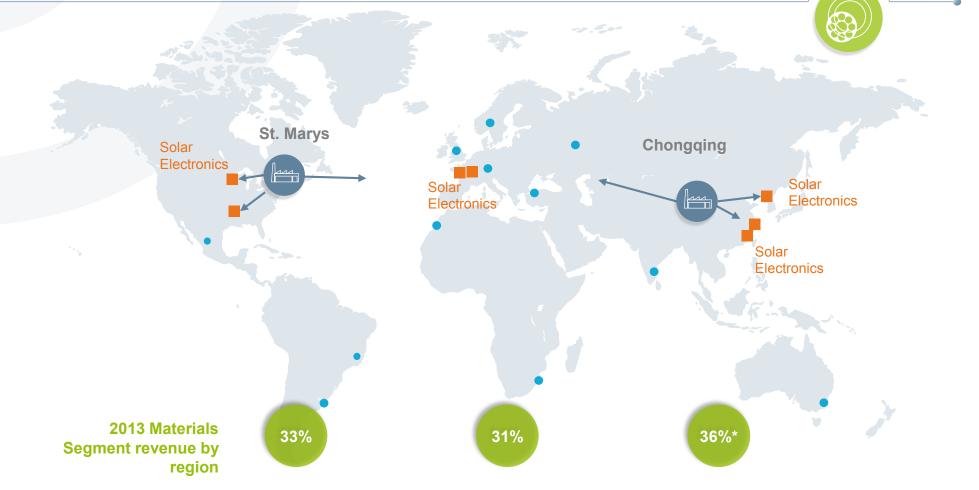


BARRIERS TO ENTRY

- Upstream: Full control over the material (integrated model)
- Downstream: In-depth application capabilities (model similar to the Electrical Segment's)



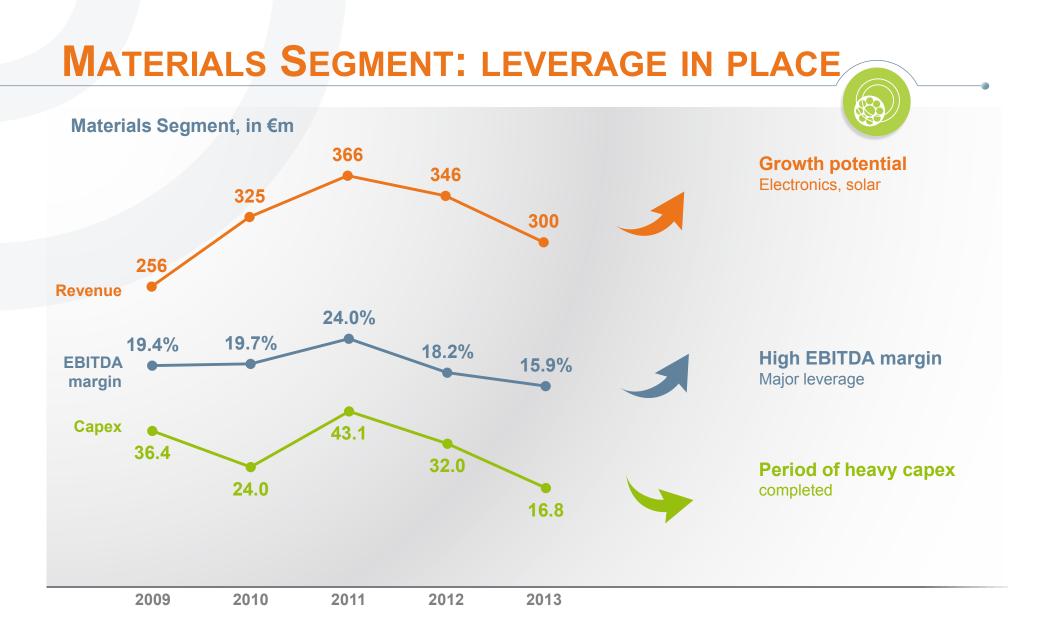
GLOBAL MARKET COVERAGE TO ENSURE A COMPETITIVE LOCAL PRESENCE



- 2 highly competitive graphite semi-finished product fabrication plants (upstream)
 - High-tech finished product plants (downstream) providing access to every major market
- Manufacturing or sales facilities covering every geography

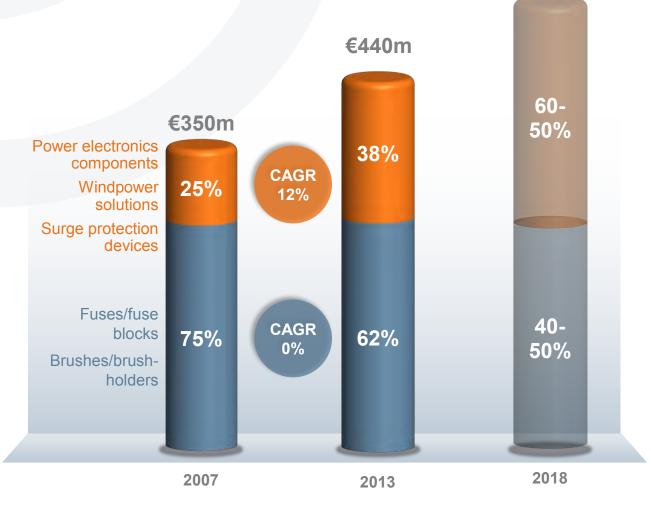
* Including Sabic

Mersen





ELECTRICAL SEGMENT: SHIFTING THE PORTFOLIO TO FASTER GROWING PRODUCTS



Expand GROWTH PRODUCTS

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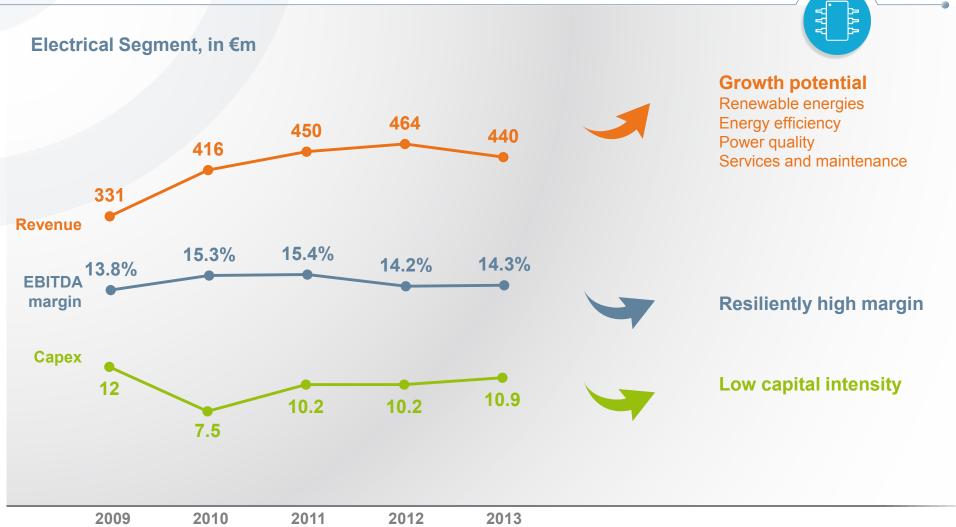
- Renewable energies
- Energy efficiency
- Power quality
- > Services and maintenance

Maximize MATURE PRODUCTS

- ➤ Historic Western leaders who are maintaining their market share → replacement business
- High standards barrier limits the number of new entrants
- > Little need for new capex
- > Optimized manufacturing model



ELECTRICAL SEGMENT: HIGH CASH FLOW AND EBITDA





AN OPTIMIZED PROFILE FOR THE GROUP

ELECTRICAL

 High-potential segments: power electronics, power quality

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Low capital intensity

Stable, high operating margins

Global position Close to the customer Extensive expertise High market share Short-run BTO Identical marketing and end markets

- High value-added specialty materials market, with an unrivaled position in graphite for expanding technological markets
- > Capital programs completed

Major leverage to drive strong operating cash flow

FOR THE GROUP

High EBITDA and cash flow



QUESTIONS?

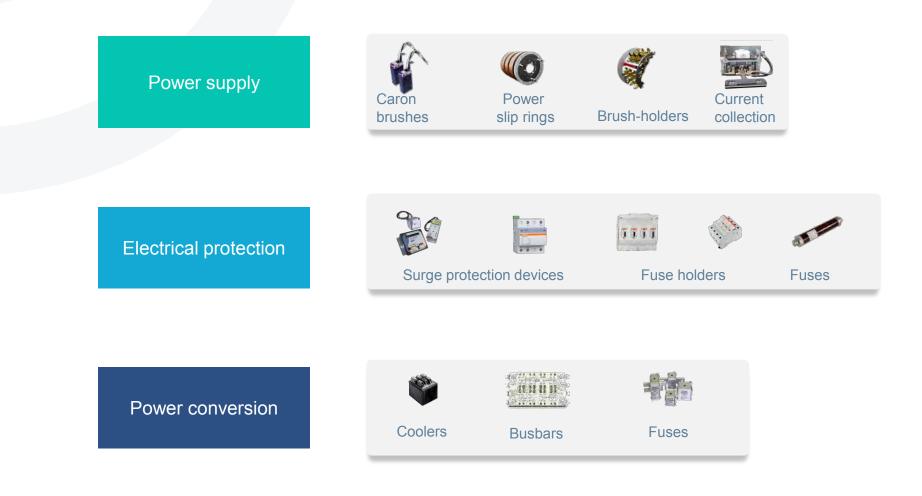


ELECTRICAL SEGMENT

LAURENT MARCENAC VICE PRESIDENT, GLOBAL SALES FOR THE ELECTRICAL SEGMENT

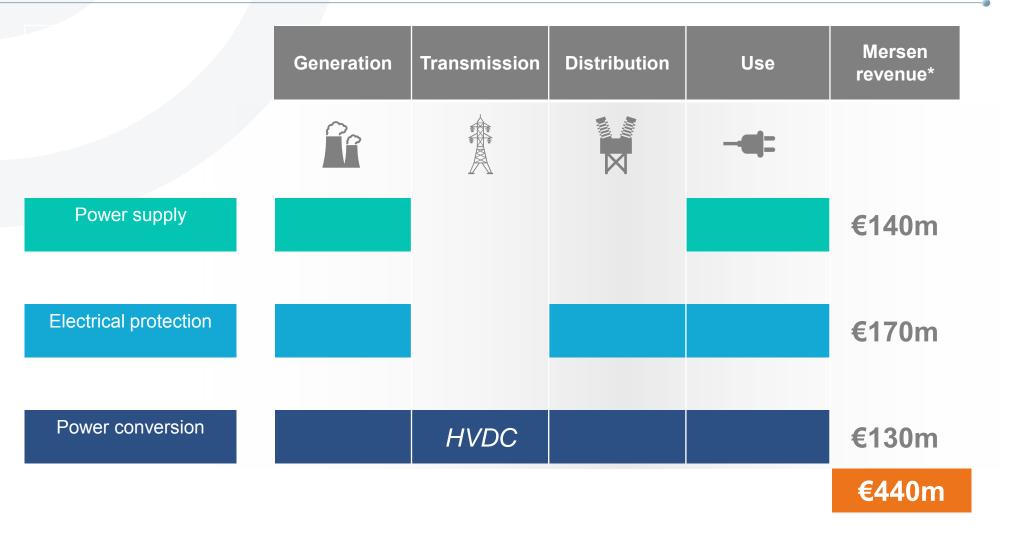


MERSEN: EXPERTISE IN THREE KEY FUNCTIONS





A PRESENCE ACROSS THE ELECTRICITY VALUE CHAIN

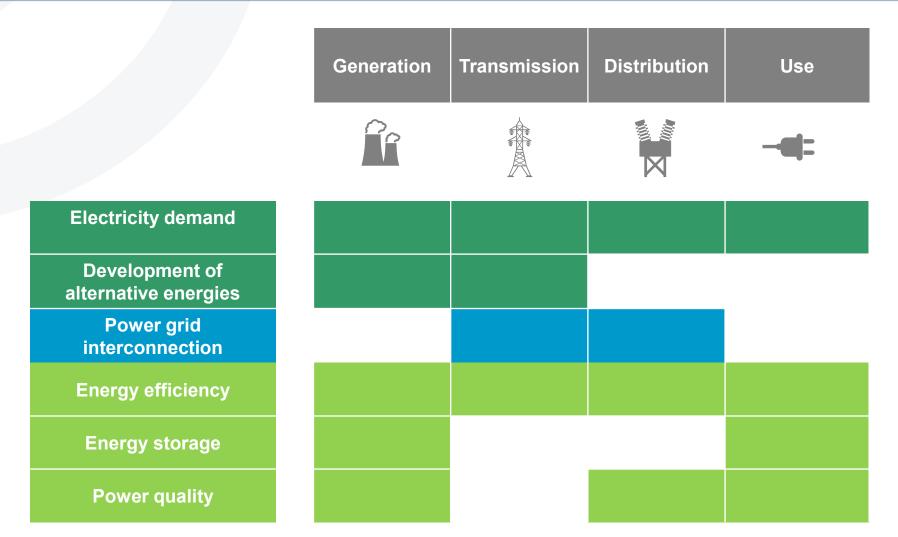


Mersen

* Based on 2013 revenue

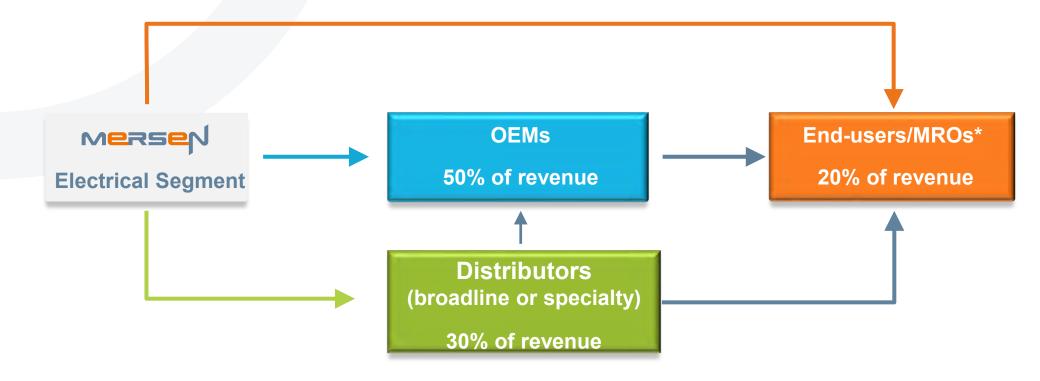


A MARKET WITH MANY DRIVERS





PROFICIENCY IN EVERY SALES CHANNEL, OFFERING THE RIGHT SOLUTION FOR EACH TYPE OF CUSTOMER



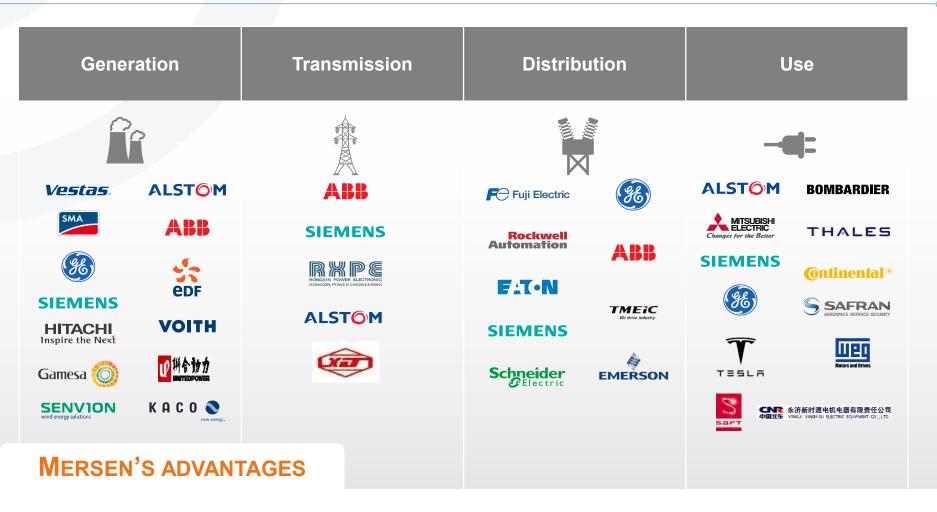
A strong key relationship with OEMs, specifiers and partners

* MRO : Maintenance, Repair, Operations



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COMPETITIVE STRENGTHS TO MEET THE NEEDS OF THE MOST DEMANDING OEMS



Global network

- Technical expertise, specifier capabilities
- Product portfolio



WORLDWIDE MARKET COVERAGE, TO SUPPORT OEMS AS THEY EXPAND IN THE GLOBAL MARKETPLACE

• Mersen's Design, Manufacturing and Commercial Capabilities Examples of OEM Centers of Expertise Worldwide





LEVERAGING DISTRIBUTORS TO CAPTURE THE VALUE OF OUR BROAD PRODUCT PORTFOLIO



MERSEN'S ADVANTAGES

- Catalogue covering every application
- Global logistics
 (Distribution hub on each continent, fulfillment rate)
- Brand recognition



ACCESS TO A STABLE, PROFITABLE REPLACEMENT MARKET AT END-USERS



MERSEN'S ADVANTAGES

Global network

Application expertise
 Locally based capabilities

Services portfolio



A THREE-PRIORITY STRATEGY

Sustain the growth dynamic

in all regions

Maintain our strong, profitable position

in mature products

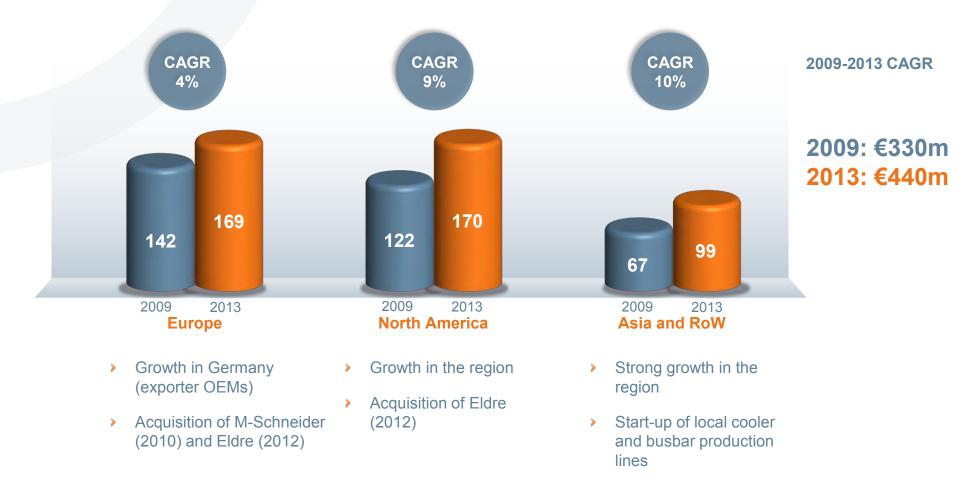
Drive faster expansion

in growth products



SUSTAIN THE GROWTH DYNAMIC IN ALL REGIONS

Electrical Segment revenue, in €m



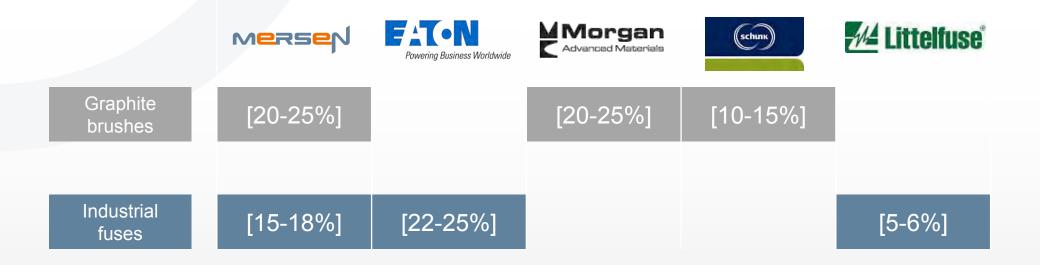


A DIFFERENTIATED STRATEGY ACCORDING TO THE PRODUCTS POSITION ON THE LIFE CYCLE





MAINTAINING OUR STRONG COMPETITIVE POSITION IN MATURE PRODUCTS

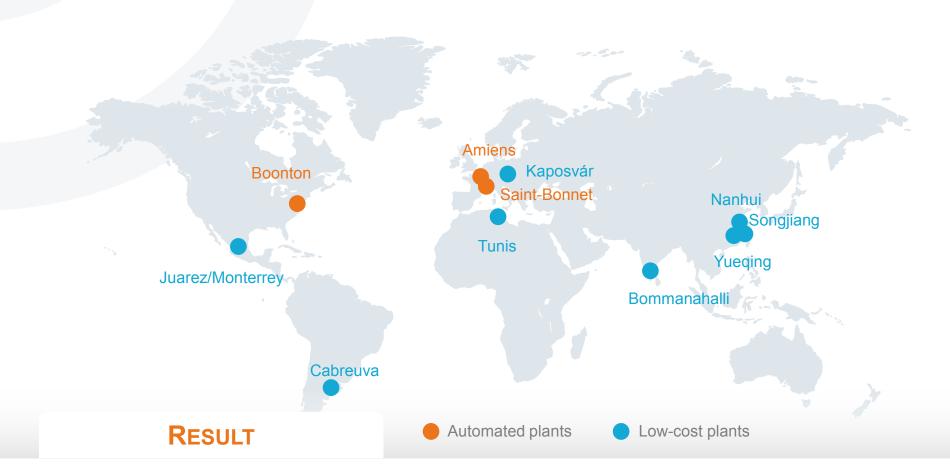


BARRIERS TO ENTRY:

- > Power supply: formulation, specifiers, regulatory approval
- > Electrical protection: ability to interact with distributors, importance of standards



OPTIMIZING THE PRODUCTION BASE TO MAINTAIN A PROFITABLE POSITION IN MATURE PRODUCTS



- Nearly 40% of revenue derived from products made in low-cost countries
- Automated plants: centers of excellence and R&D



OPPORTUNISTIC ACQUISITIONS TO CONSOLIDATE OUR POSITIONS IN MATURE PRODUCTS



2013 ROCE* on acquisitions: 15%

* Excluding exceptional items



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DRIVING EXPANSION IN GROWTH PRODUCTS

Positioned in high valueadded products

- **BTO**, short run products
- Key capabilities
- High market share
- Innovation capacity

Effective market drivers

 Energy efficiency, Power quality, Energy storage, Alternative energies

Asia deployment

Pursue accretive acquisitions

 Technological input in unique capabilities

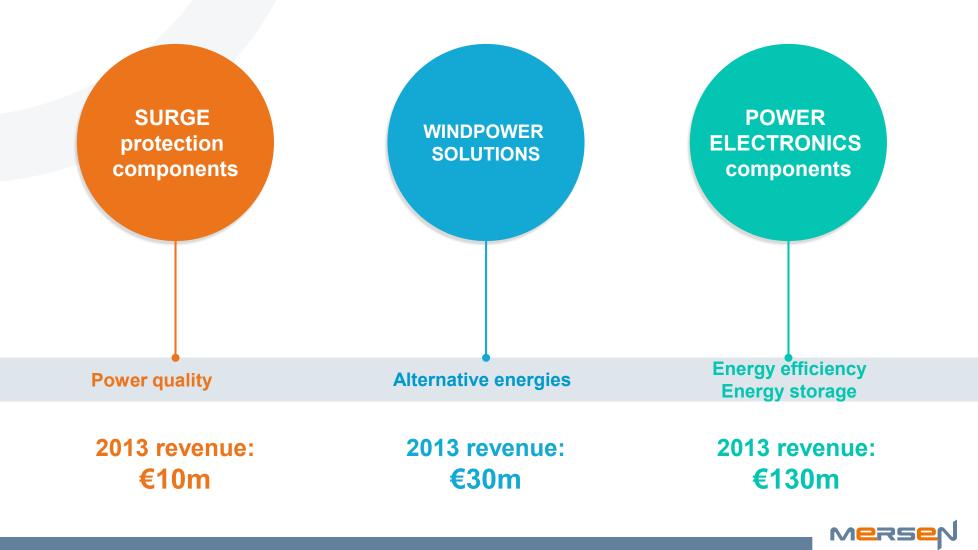
> Synergies with the Mersen network

2018 revenue: €250-290m 2013-2018 CAGR: 8-11% (excluding acquisitions)

2013 revenue: €170m



3 EXAMPLES OF GROWTH PRODUCTS



QUESTIONS?



SURGE PROTECTION

GABRIEL LEDRU VICE PRESIDENT, SURGE PROTECTION DEVICES









Radiati

VOLTAGE SPIKES

Causes

- Lightning
- Switching between transformer stations
- Disconnecting electric motors

Impact

(e.g.: Spain 2012*)

12 million tonnes of electronic waste

▶ €60m in electrical damage repairs

* Source: Cirprotec



THE BENEFITS OF SURGE PROTECTION





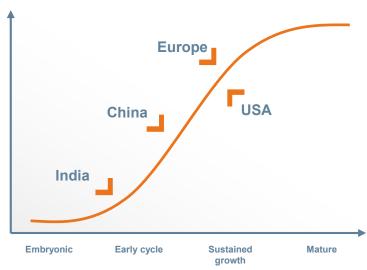
*Surge Protection Devices

A FAST GROWING MARKET

> Expanding by around 8% a year

- Growing amount of electronic equipment to permand protect (data centers, solar, windpower, etc.)
- Faster standardization (process industries, etc.)

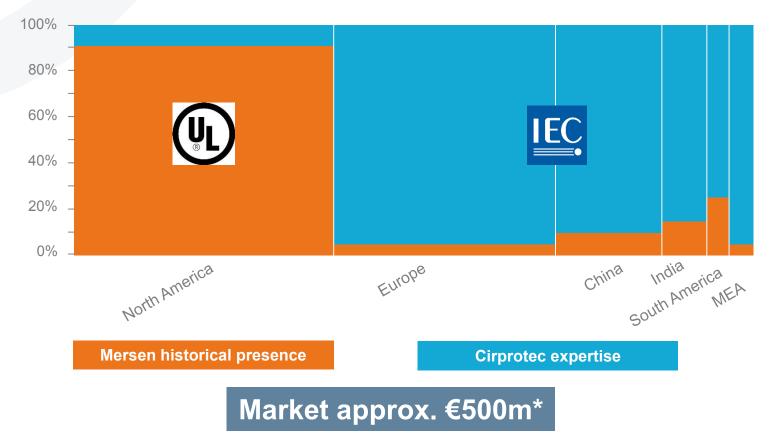
Stage of SPD Market Development By Region



Current market growth is being led by Europe and the United States China and India will be future drivers



A MARKET STRUCTURED BY STANDARDS



* Source: Mersen

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Mersen

STILL A HIGHLY FRAGMENTED MARKET: OPPORTUNITIES FOR CONSOLIDATION

The two market leaders (Dehn, Phoenix Contact)

Cumulated market share: 20-25%

Primarily present in the IEC segment

Mersen in the top 10

Market share: <5%

Many local players

Mainly in the IEC segment

Market share: 1-3%

Consolidation is coming, especially in the IEC segment



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THE ALLIANCE WITH CIRPROTEC

Cirprotec

- World's leading independent manufacturer of IEC SPDs
- Mainly in the Spanish market (50% of revenue)

Acquisition rationale

- Strengthen the Electrical Segment's presence in an expanding market segment
 - Access the IEC market (Europe and Asia)
 - Access testing and innovation capabilities
- Generate synergies by using our network in Asia and Europe
- Majority stake acquired in early 2014
 - Valued at 7 times EBITDA









TESTING AND INNOVATION CAPABILITIES

Test center



 Competitive advantage to capture market growth

Innovation capabilities

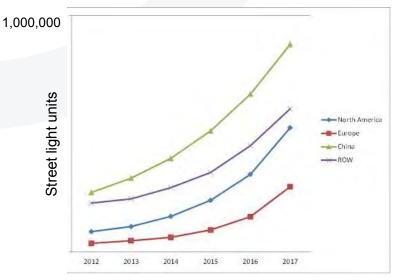


 Technological platform to drive faster growth in every geography



INNOVATION CAPABILITIES WILL ENABLE US TO CAPTURE NEW MARKETS

LED public lighting market*



^{*}Source: Strategies Unlimited

- 31% forecast CAGR through 2017 (in volume)
 - More energy efficient, for the same performance
 - Smaller carbon footprint
 - Less light pollution

Sensitive components like LEDs need extensive protection against voltage spikes

MERSEN POSITIONED IN HIGH VALUE-ADDED SEGMENTS

Development of a new generation of LED lighting



- Instant on
- Luminous efficacy
- Improved dimming
- > Easy luminous flux adjustment
- > Intelligent management

Critical components for special environments



- > Uninterrupted service is mission-critical
- > Safety
- Requirements of TV broadcasting

Surge protection is essential





Position ourselves as the **global specialist** by continuing to expand in both standards

Forge alliances in Asia

Step up innovation around competency centers

Develop a global manufacturing base



OBJECTIVE: OUTPERFORM THE MARKET





QUESTIONS?





MERSEN'S WINDPOWER SOLUTIONS

MARC CHARLEBOIS GENERAL MANAGER, NORTH AMERICA, ELECTRICAL SEGMENT



MERSEN IN THE WINDPOWER MARKET



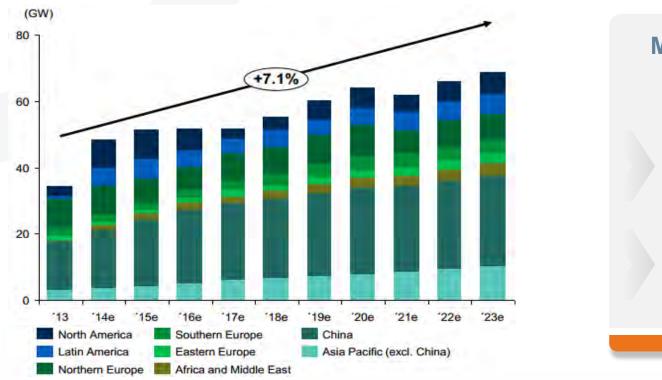


MERSEN'S WINDPOWER OFFERING: AN END-TO-END SOLUTION AROUND THE WORLD



OEM MARKET: ON-GRID WINDPOWER GROWING BY MORE THAN 7% A YEAR LONG-TERM

Worldwide forecast of on-grid windpower, 2013-2023e



Mersen's accessible market

Number of wind turbines growing by 5% a year

China: more limited access (national sourcing of certain components)

MERSEN'S ADVANTAGES

Source: MAKE

- A worldwide network of experts
- Comprehensive solutions and specification capabilities



THE REPLACEMENT MARKET: AN INSTALLED BASE OF 250,000 WIND TURBINES IN 2013



 Comprehensive solutions (including services and maintenance)



SIGNIFICANT MARKET SHARE FOR MERSEN, THANKS TO A POWERFUL MANUFACTURING BASE





THE PARTNERSHIP WITH ABB: AN EXAMPLE OF MERSEN EXPERTISE



ABB

 Development of a generator to equip the vast majority of wind turbine models in the world (1.5 to 3.2 MW unit capacity)



Mersey

- Experts in slip-ring design (sizes, materials, etc.)
- Experts in brush-holder design (configuration optimization, pressure, etc.)



THE PARTNERSHIP WITH ABB: AN EXAMPLE OF MERSEN EXPERTISE





<u>61</u>



Strengthen our position

in the growing OEM market

Consolidate the replacement market through grid managers

Develop our redesign solutions

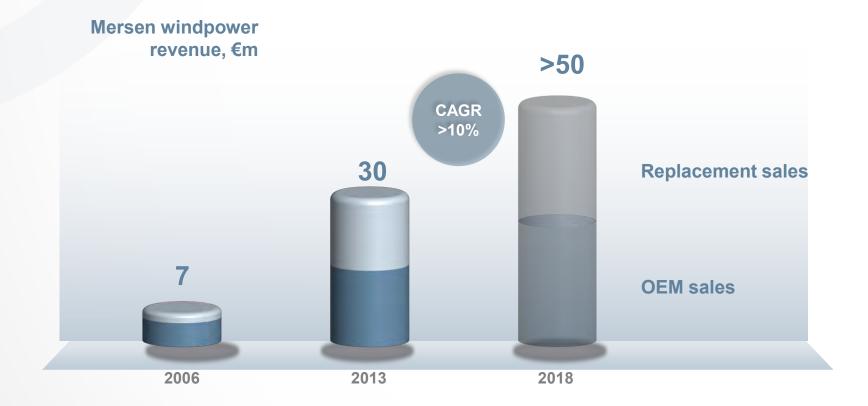
to offer operators compelling alternatives

Capture growth in the energy conversion market,

thanks to our range of key components available in the three major regions



OBJECTIVE: OUTPERFORM THE MARKET





QUESTIONS?

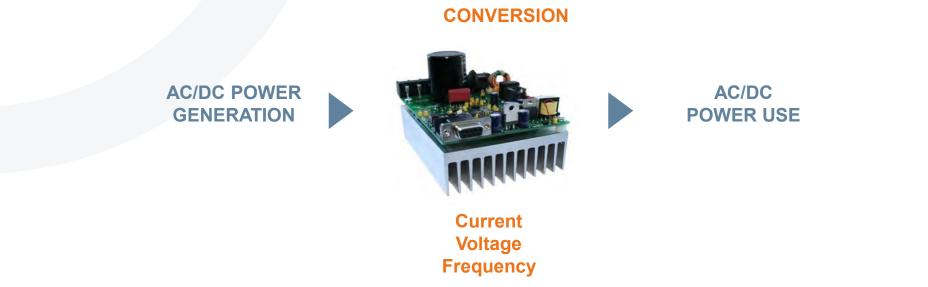


THE EFFICIENCY OF POWER CONVERTERS

EMMANUEL CARMIER VICE PRESIDENT, POWER ELECTRONICS



POWER ELECTRONICS: CONVERTING ELECTRICAL POWER



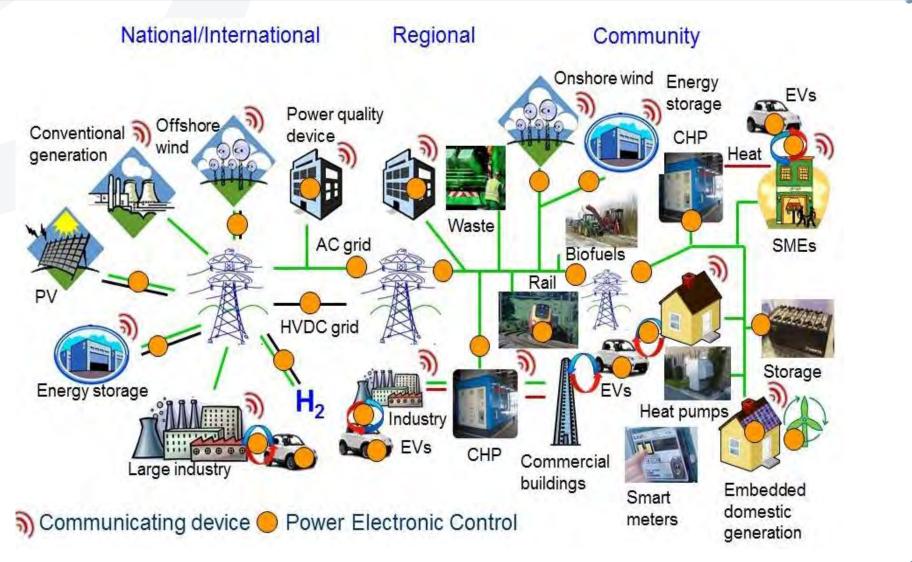
Basic function: to convert electrical power **as efficiently as possible** into a form suitable for a very wide variety of **applications and users**

MERSEN'S FOCUS

> High-power applications (excluding the consumer electronics and low power supply market)



A NEED ACROSS THE ENTIRE ELECTRIC POWER VALUE CHAIN





A MARKET GROWING BY MORE THAN 6% A YEAR...

The power semiconductor market (in \$bn)* Segments accessible to Mersen

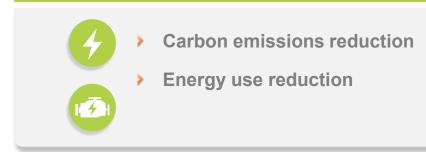


* Source: Yole 2013

... LED BY RENEWABLE ENERGIES, TRANSPORTATION AND THE NEED FOR ENERGY EFFICIENCY...



Energy efficiency





... IN WHICH MERSEN STANDS APART FOR ITS COMPREHENSIVE OFFERING

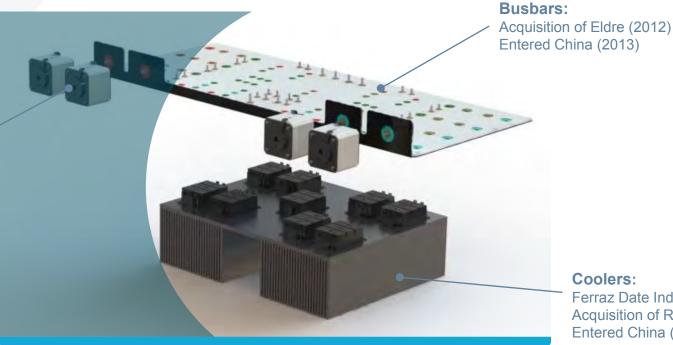
	SEMICONDUCTOR FUSES	BUSBARS	COOLING DEVICES
Mersen	•••		•
EATON	•••		
SIBA	•		
LYTRON			•
AAVID			•
ROGERS		••	
METHODE		••	

Market share [30% - 40%]
 [10% - 30%]

• <10%



MERSEN'S POWER ELECTRONICS PORTFOLIO: BUILDING AN UNIQUE SOLUTION



Traditional expertise

Semiconductor fuses:

Coolers: Ferraz Date Industries JV (1998) Acquisition of R-Theta (2008) Entered China (2009)

Strong interaction among these components



AN EFFICIENT MANUFACTURING AND SALES ORGANIZATION, LOCATED CLOSE TO OEM DESIGN CENTERS



GROWTH IN REVENUE DESPITE THE UNFAVORABLE ECONOMIC ENVIRONMENT





THE ELDRE ACQUISITION

> Eldre in 2011

- > Global leader in busbars
- Production facilities in Europe and the United States
- Mainly serving the process industry market in the United States and the transportation and windpower markets in Europe

Acquisition rationale

- Extend the product portfolio in a growth segment (power electronics)
- Access key expertise upstream from the design of power converters
- Develop the business in Asia

Acquisition completed in late 2011

Valued at 7.4 times EBITDA









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ELDRE TWO YEARS LATER: GROWING THE BUSINESS

- In Asia: busbar production facility near Shanghai (2013)
 - Gain market share in Asia: Rotem, Advanced Energy, Fuji Kobe
 - Seize opportunities with new entrants: Destin Power, RXPE, Tianxin

New customer entry points

- A wider array of addressed markets (power conversion systems for solar, data centers, defense)
- Customer synergies: Bombardier, Siemens Wind Power, Power One/ABB

2014 RESULTS

Revenue in Asia: €2m

Revenue from customer synergies: ~€4m (including all power electronics components)





ELDRE TWO YEARS LATER: NEW TECHNOLOGICAL DEVELOPMENTS

Circular busbars

- > Replace motor windings with a busbar
- > Efficient, reliable, quicker to assemble
- Applications: windpower, traction, industrial motors



2018 OBJECTIVES

Smart busbars

- Flexible design suited to battery specifications, with an additional monitoring capability (voltage and temperature control)
- Efficient, compact
- Applications: Li-ion batteries (energy storage)



> Potential revenue generated from these two examples: €5-10m



STRATEGY

Continue to expand the product portfolio > Be the PREFERRED RESOURCE for designers

Develop partnerships

with OEM customers and semiconductor manufacturers
> Be the SPECIALIST in optimizing components to improve
converter efficiency

Innovate in products and services

> Be the EXPERT source of new ideas and solutions thanks to our simulation software



OBJECTIVE: OUTPERFORM THE MARKET





QUESTIONS?

