

# MANAGEMENT REPRESENTATIVES

4

Leadership team with profound and long-lasting experience

### **Management Board**



**Dr. Karl Schäcke** CEO, ASTA

>32 years of industry experience Experienced entrepreneur & manager, track record of growth, operational excellence & restructuring



Daniela Klauser CFO, ASTA

>23 years of industry experience Finance expert with expertise in company scaling – with ASTA for 16+ years





**Dr. Michael Pistauer**Co-CEO & CFO, Montana Aerospace
Chairman of the Supervisory Board<sup>(1)</sup>, ASTA

>20 years of experience in listed companies & SMEs Proven equity capital market expertise in diverse industries



Mag. Renate Krenn Head of Legal & Compliance, Montana Aerospace Member of the Supervisory Board<sup>(1)</sup>, ASTA

>17 years of experience as inhouse lawyer and at renowned law firms Legal lead in numerous complex projects, e.g. Montana Aerospace IPO & several international M&A projects

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Leadership team with profound and long-lasting experience





Thomas Trimmel
Head of Sales & Marketing, ASTA





Marc Vesely recte Riha, MSc Head of M&A and Investor Relations, Montana Aerospace<sup>(1)</sup>

>7 years of industry experience

Project lead in Montana Aerospace
IPO, strong capital markets network



**Dr. Thomas Vogl**Managing Director Austria, ASTA

>12 years of industry experience

Operations and R&D expert with
proven technical competencies



# **AGENDA**

- 1. Introduction & Elevator Pitch
- 2. Markets & Competitive Positioning
- 3. Products
- 4. Business Model
- 5. Platform Positioning & Corporate Governance
- 6. Growth Strategy
- 7. Financials



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# BUILDING A BILLION-EURO SUSTAINABILITY CHAMPION

4

ASTA's vision & mission

OUR VISION:

EUR 1 BILLION<sup>(1)</sup> OUR MISSION:

Powering the energy transition globally

Note: (1) ASTA net sales ambition by 2030E

6

# ACCELERATING SUSTAINABLE VALUE CREATION



Fine-tuned global market positioning, strengthened balance sheet & diversified product portfolio among achievements

### HOW ASTA HAS BENEFITED SINCE MONTANA TAKE-OVER IN 2012



IMPROVED
MANUFACTURING
PROCESSES



INCREASED R&D BUDGET AND RESOURCES



DIVERSIFIED PRODUCT AND CUSTOMER PORTFOLIOS



EXPANDING GEOGRAPHICAL SHARE GLOBALLY



IMPROVED GLOBAL
MARKET SHARE
THROUGH ORGANIC
GROWTH AND M & A



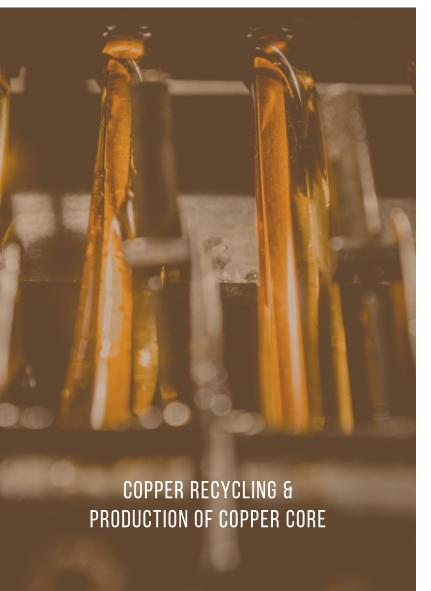
STRENGTHENED
BALANCE SHEET AND
FINANCIAL
FLEXIBILITY

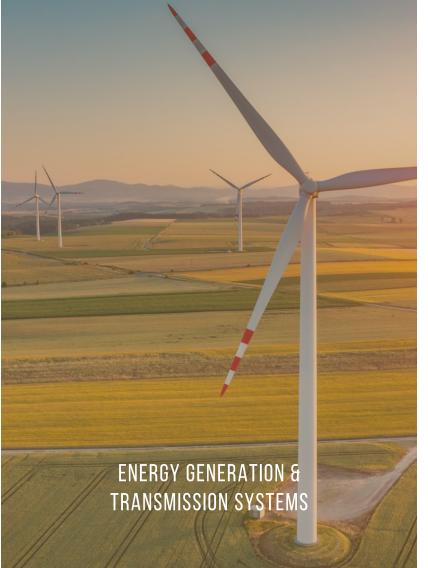
AND NOW IT'S TIME TO OPEN A NEW CHAPTER



# OUR MISSION: POWERING THE ENERGY TRANSITION GLOBALLY







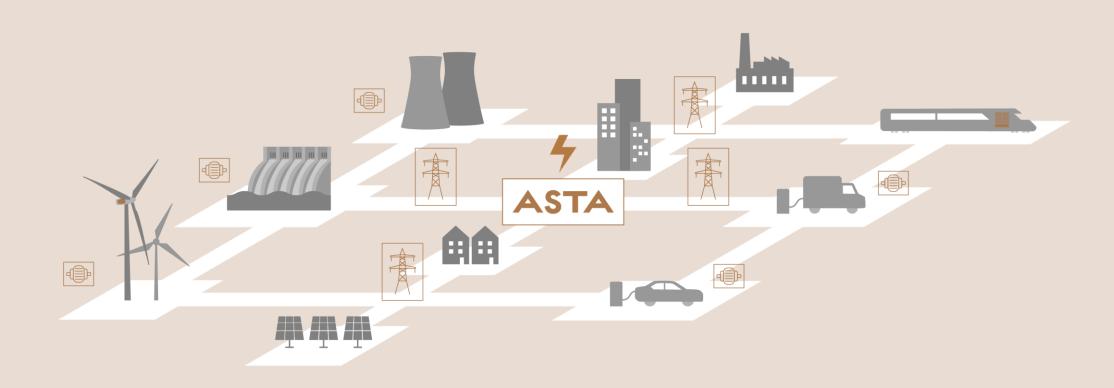




# ASTA IS AT THE HEART OF THE GREEN ENERGY TRANSITION



Copper-based products are mission-critical to generate electricity, operate power grids and foster (electric) mobility



0.1

Copper is the key raw material for components in energy generation sites, power grids & (e-)mobility applications

02

**Energy transition** to a digital, decentralized & green power system **requires reliable products** and offers **exceptional growth opportunities** 

**n**:

Demand for green copper<sup>(1)</sup> products to rise strongly<sup>(2)</sup> — boosting manufacturers' pricing power and net sales development

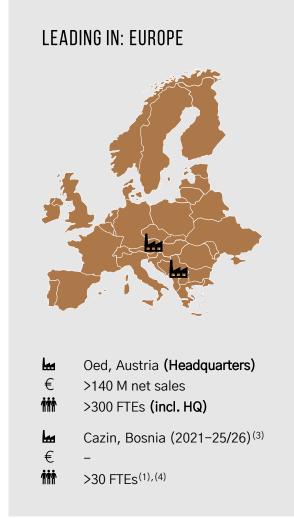
# COPPER EXCELLENCE ACROSS THE GLOBE

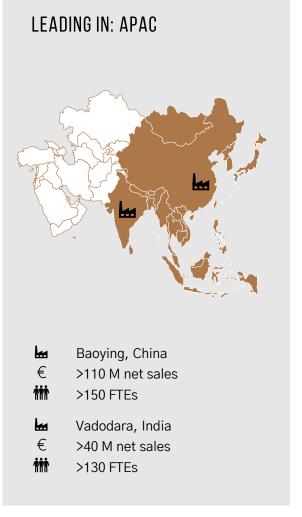


ASTA is a leading provider worldwide - our local-to-local approach enables close proximity to blue-chip customers









# SUMMARY OF KEY INVESTMENT HIGHLIGHTS

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ASTA as a clean energy champion and enabler of the energy transition globally



Highly-attractive addressable markets driven by powerful global megatrends



Technology leader in green copper-based<sup>(1)</sup> components for power generation, transmission and (e-)mobility



Superior
vertically-integrated
and circular business
model with
'right to grow'



Robust
manufacturing
platforms backed by
global roll-out and
impeccable track
record with Tier-1
customers



Highly-visible long-term growth path with meaningfu margin and FCF accretion





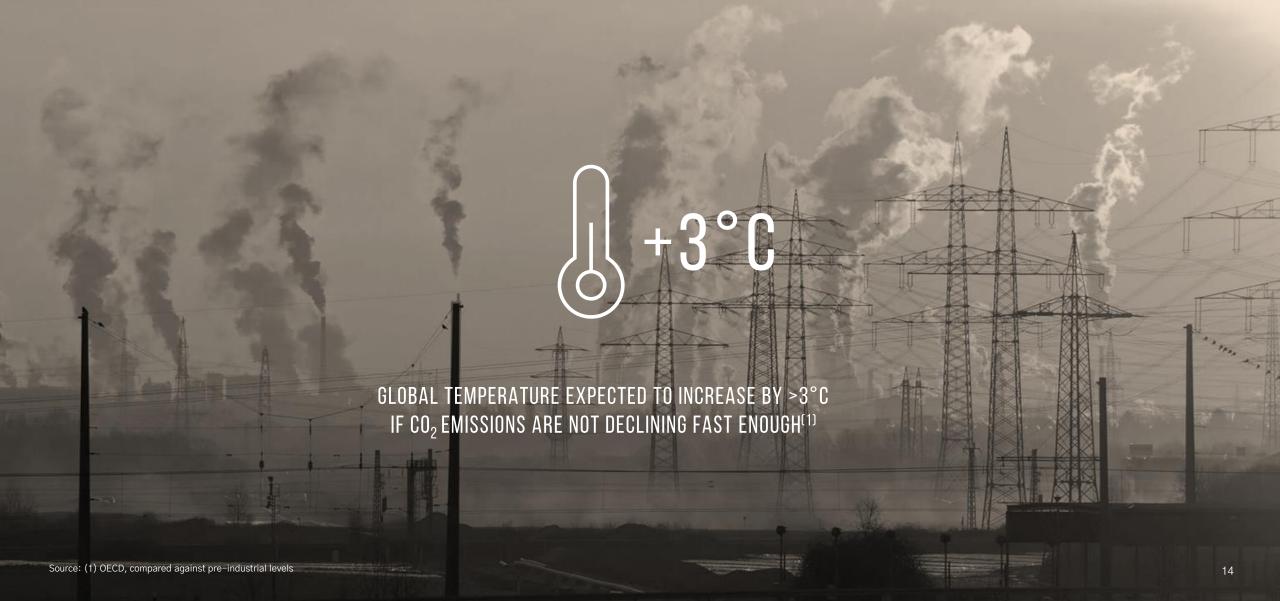
Highly-experienced & well-connected management team with proven capital markets know-how

Note: (1) Approx. 40% of copper used in production stems from copper scrap

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# THE PROBLEM: OUR WORLD IS WARMING FASTER THAN EXPECTED

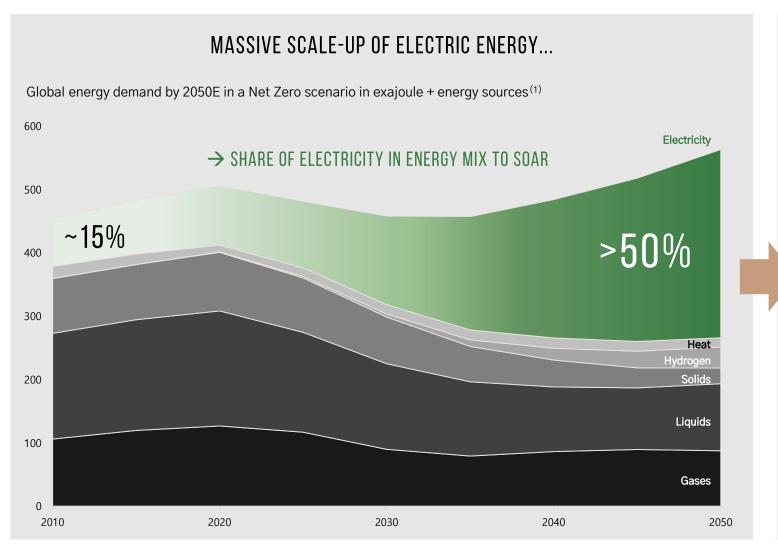
Massive challenge ahead to decarbonize our global energy ecosystem



# THE SOLUTION: BUILDING A GREEN ENERGY ECOSYSTEM



Climate crisis calls for a paradigm shift — electrification will play a key role





# THE OUTLOOK: DEMAND FOR COPPER PRODUCTS TO RISE STRONGLY



Copper is an essential metal for power generation, power grids, and (e-)mobility



### The Guardian

"We don't need miracle technology to fix the climate.

We have the tools now(1)"



"Inaction over climate change is shameful" (2)

- Martin Wolf, FT Chief Economics Commentator

# ELECTRICITY RAMP-UP > 500/0 Share of electricity in global energy mix by 2050(5)

### RISING GLOBAL ENERGY DEMAND



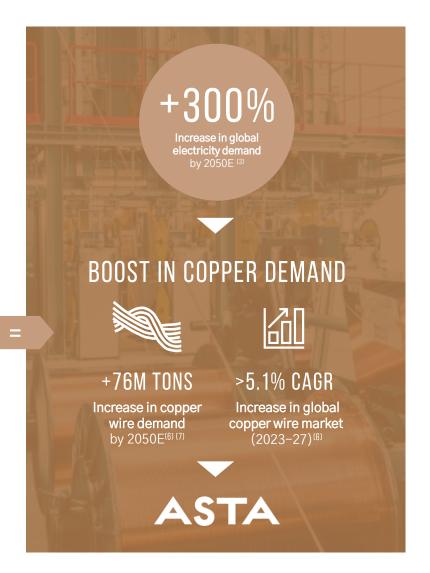
+1.7 BILLION

Population surge until 2050E [4]



~45%

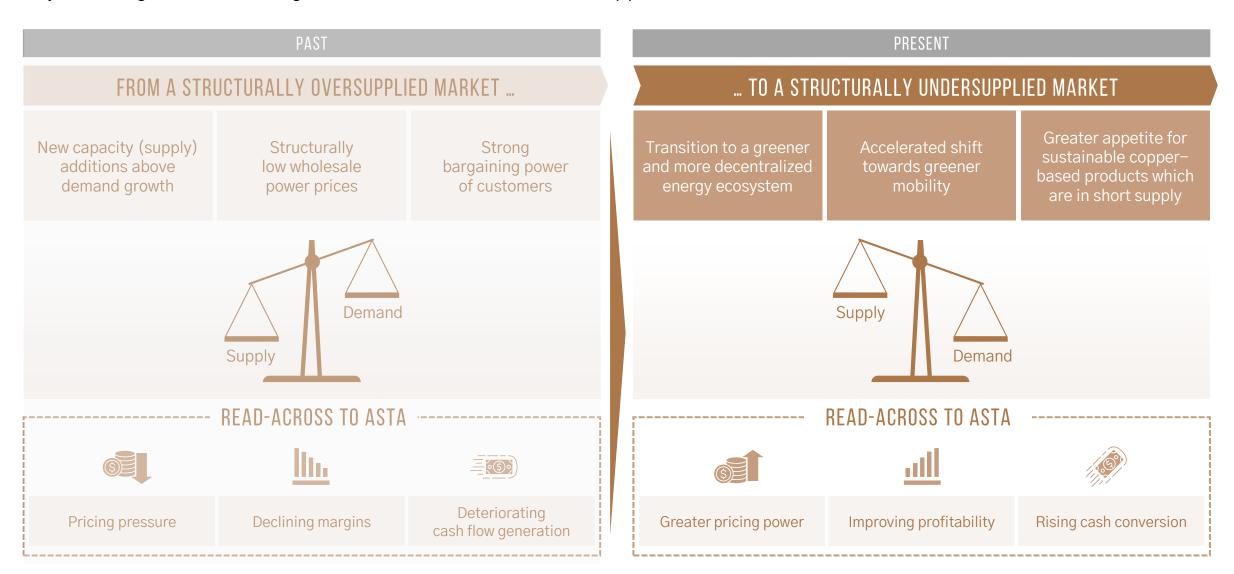
Increase in share of global middle class by 2030E<sup>(5)</sup>



# ASTA TO PROFIT FROM AN EMERGING PULL MARKET STRUCTURE



Skyrocketing demand driving structural shift towards undersupplied market



# OPERATIONAL EXCELLENCE

4

Vertical integration with high recycling capability & circular approach are core USPs of ASTA

### UPCASTING/RECYCLING

### BARE WIRE MANUFACTURING

### **ENAMEL INSULATION**

### TRANSPOSING

### OTHER INSULATION SYSTEMS



Upcasting machines recycle used copper rods (1) without any loss of quality



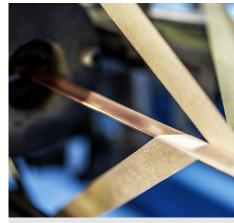
High-quality copper continuous cast wire rod is the beginning of the manufacturing process for round and flat wires<sup>(2)</sup>



Insulation of the copper wire is a core process, significantly influencing the service life of the final product



Compactness, dimensional accuracy and easy winding of the bundle of conductors are the most important criteria in the production of CTCs



Offering sophisticated insulation solutions for the greatest variety of applications

4

Green copper: usage of recycled rods reduces CO<sub>2</sub>-emissions & lessens dependency on primary sourcing

4

Copper wire can be specially treated in accordance with customer requirements 4

Enamel insulation is continuously improved by ASTA together with its suppliers

4

Expertise in extreme dimensions and short transposing lengths

4

Insulation feasible with special paper, films, continuous glass yarn or combinations

# VERTICALLY-INTEGRATED AND CIRCULAR VALUE CHAIN



Clean energy champion with increasing in-house recycling capabilities









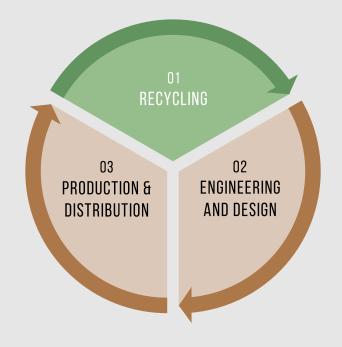












### 01 RECYCLING

- Growing in-house upcasting capabilities & know-how sharing
- (E-)Mobility: customers paying up to ~30% premium for recycled copper<sup>(1)</sup>
- Strict internal ESG standards minimizing
   Scope 1, 2 and 3 emissions

# 02 ENGINEERING AND DESIGN

- Industry-leading conductivity
- Large-scale
   manufacturing with lot
   size 1 → flexible
   customization
- Outstanding processdesign capacities

# O3 PRODUCTION & DISTRIBUTION

- Micrometer-level precision
- Best-in-class insulation technique
- Outstanding robustness
- 40+ patents



WE ARE SPECIALISTS FOR GREEN AND HIGH-PERFORMANCE NEXT-GENERATION COPPER COMPONENTS

Source: (1) Based on management estimate + customer feedback



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# NEWSPAPER REVIEW — ENERGY TRANSITION ACCELERATES



We are in the midst of an unseen, massive and rapid global shift towards green & renewable energy sources

Handelsblatt, 25.04.2023

"North Sea to turn into the 'largest power plant of the world"

# Handelsblatt

"(...) 120 GW<sup>(1)</sup> of wind power to be installed until 2030 by Belgium, the Netherlands, Luxembourg, France, Ireland, Denmark, Norway, UK & Germany"

"(...) 300 GW<sup>(1)</sup> until 2050, equalizing the performance of 300 nuclear power plants (···)"

Frankfurter Rundschau, 05.05.2023

"Power grid too weak: Vonovia cannot put heat pumps into operation"

## **FrankfurterRundschau**

"(...) Due to a lack of power grid extension, Germany's largest real estate company cannot commission heat pumps (...)."

"(...) before the ministry enacts heat pumps, the grid must be able to handle their connection."

Financial Times, 26.04.2023

"One in five cars sold in 2023 will be electric, says International Energy Agency"



"(...) electric vehicles will account for 18% of global car sales compared with just 4% in 2020"

"They are no longer marginal or niche at all "

Note: (1) GW = Gigawatt

# ASTA'S ADDRESSABLE MARKETS PROMISE TREMENDOUS GROWTH



Rapidly-growing, global multi-billion markets to be seized

### I. ENERGY GENERATION & TRANSMISSION



### II. (E-)MOBILITY: RAILWAY & ELECTRIC VEHICLES





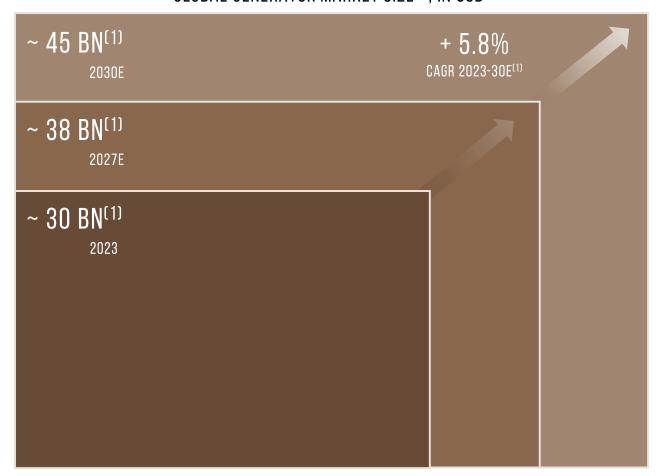
WITH A STRONG POSITION IN POWER GENERATION & TRANSMISSION, ASTA STRIVES TO GAIN MOMENTUM IN (E-)MOBILITY

# GLOBAL GENERATOR MARKET TO GROW SUBSTANTIALLY



+50% cumulative expansion<sup>(1)</sup> expected in the next seven years – driven by skyrocketing electricity demand<sup>(2)</sup>

### GLOBAL GENERATOR MARKET SIZE<sup>(1)</sup>, IN USD





### INCREASING ENERGY DEMAND GLOBALLY

+ 10% cumulative until 2030E(3)



### SOARING ELECTRICITY ENERGY MIX SHARE

> 50% of energy = electricity by 2050E<sup>(4)</sup>



### GREATER AFFORDABILITY OF CLEAN POWER

Wind power cost -35% by  $2035E^{(5)}$ 

# DEEP DIVE — THREE GORGES DAM (ENERGY GENERATION)



Copper core components power the world's largest power station in terms of capacity<sup>(1)</sup>

### WORLD'S LARGEST POWER STATION IN TERMS OF CAPACITY<sup>(1)</sup>...





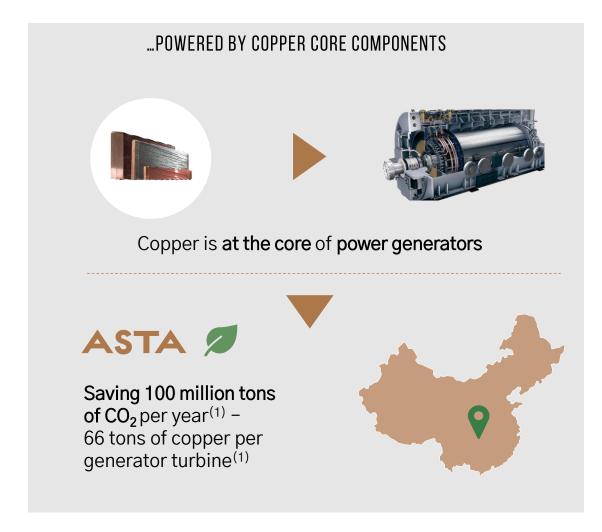
32 generator turbines<sup>(2)</sup>



**22,500 MW**<sup>(3)</sup> total installed generation capacity<sup>(2)</sup>



**2.3 km** long, 185m high<sup>(2)</sup>



# GLOBAL POWER TRANSFORMER MARKETS TO GROW STEADILY



Demand for electricity transformers to rise by ~38%<sup>(1)</sup> until end of decade

### GLOBAL TRANSMISSION SYSTEM TRANSFORMER MARKET SIZE [1], IN USD





### **ELECTRICITY GRID EXPANSION**

GER: € 100 bn investment until 2045E required<sup>(2)</sup>



### **ELECTRICITY GRID UPGRADES**

Protection from blackouts – 1/5<sup>th</sup> of existing grids to be replaced<sup>(3)</sup>



### DECENTRALIZED POWER TRANSMISSION

Microgeneration needs transmission<sup>(4)</sup>

# DEEP DIVE - COPPER IN WORLD'S LARGEST OFFSHORE WIND FARM



Connecting Dogger Bank to the grid - powering up to 6 million British homes







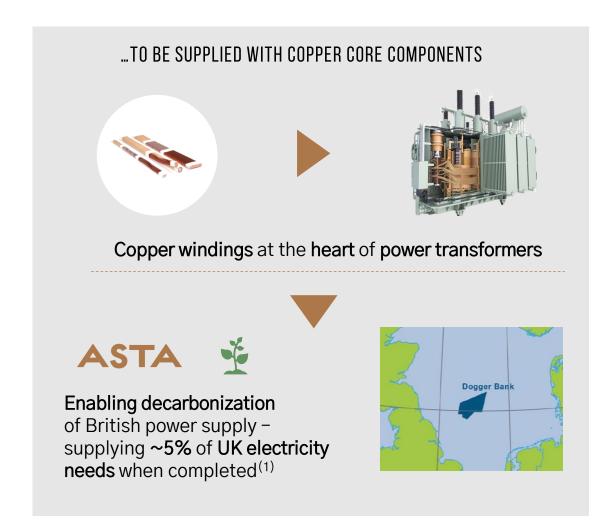
World's largest offshore wind farm to-be(1)



Capable of powering up to 6 million British homes with total capacity of 3.6 GW<sup>(2)</sup>



Three parks (A, B & C) 130 km off England's coast<sup>(2)</sup>



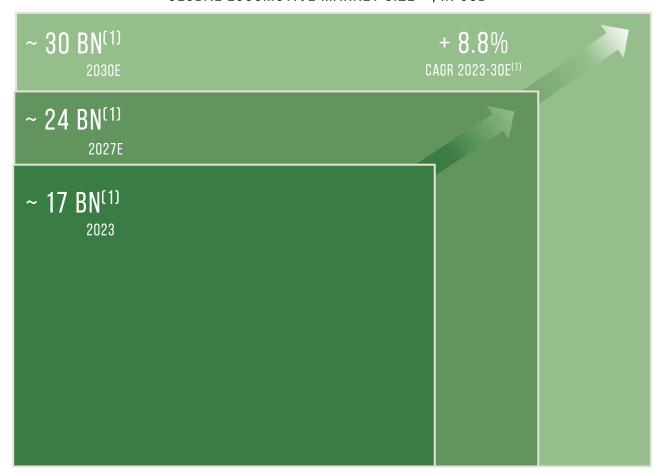
Sources: (1) Jan de Nul Group 2023; (2) doggerbank.com 2023

# LOCOMOTIVE MARKET INCLUDING TRANSFORMERS TO SOAR



Major investment and innovation in railway mobility to be realized in the years to come

### GLOBAL LOCOMOTIVE MARKET SIZE (1), IN USD





### INVESTMENTS INTO RAIL INFRASTRUCTURE

Major cities to be connected<sup>(2)</sup>



### CONSUMER SUSTAINABILITY MEGATREND

Enhanced low-emission mobility demand(3)



### INVESTMENTS INTO LOCOMOTIVE INNOVATION

Autonomous locomotive roll-out(2)

# DEEP DIVE — COPPER PRODUCTS ENABLING RAILWAY INTEGRATION



Siemens Vectron locomotive platform eliminating barriers to railway network interoperability

### NEXT-GENERATION VECTRON LOCOMOTIVE PLATFORM(1)...





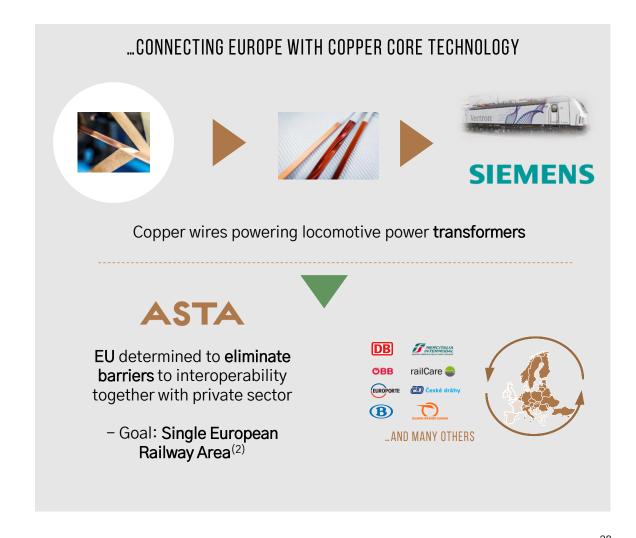
Locomotive platform **adaptable** to **20+** European railway **systems** & electric voltages<sup>(1)</sup>



Catering to **55+** European railway **operators**<sup>(1)</sup>



Highly energy-efficient + used in passenger & freight transport(1)

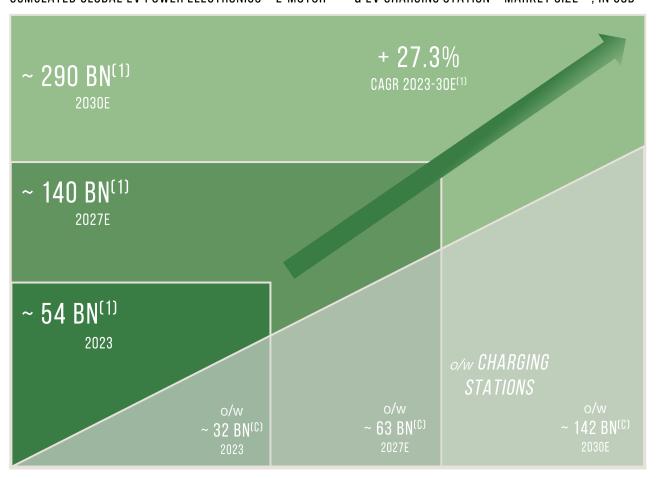


# ELECTRIC VEHICLE MARKET TO MORE THAN QUADRUPLE UNTIL 2030E



One of the fastest-growing global markets promises astonishing development and opportunities

### CUMULATED GLOBAL EV POWER ELECTRONICS + E-MOTOR(A),(B) & EV CHARGING STATION(C) MARKET SIZE (1), IN USD





### STRINGENT EMISSION REGULATIONS

EU to restrict combustion engines 2035<sup>(2)</sup>



### CONSUMER SUSTAINABILITY MEGATREND

Necessity for low-emission mobility<sup>(3)</sup>



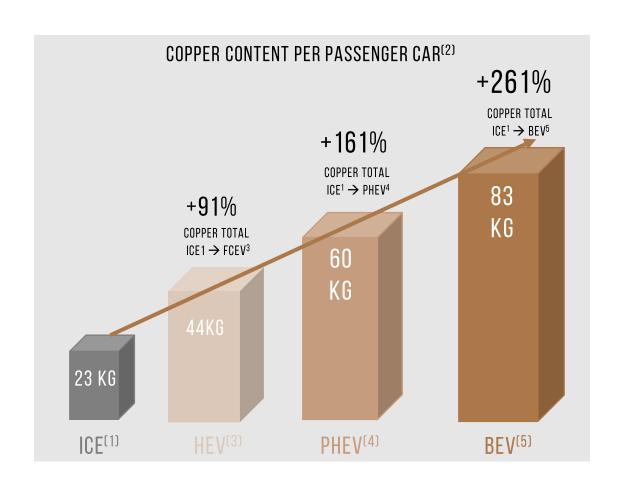
### PUBLIC & PRIVATE INVESTMENTS INTO EV TECH

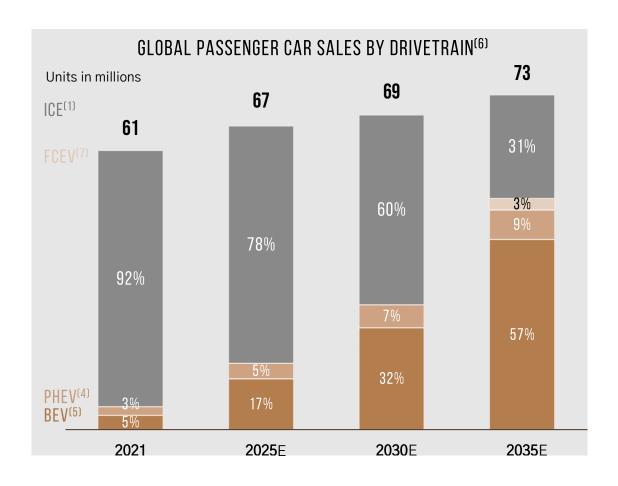
Large-scale CAPEX<sup>(4)</sup> and subsidies<sup>(5)</sup>

# DEEP DIVE — COPPER CONTENT OF ELECTRIC VEHICLES



Copper content to triple from ICE<sup>(1)</sup> to battery EVs



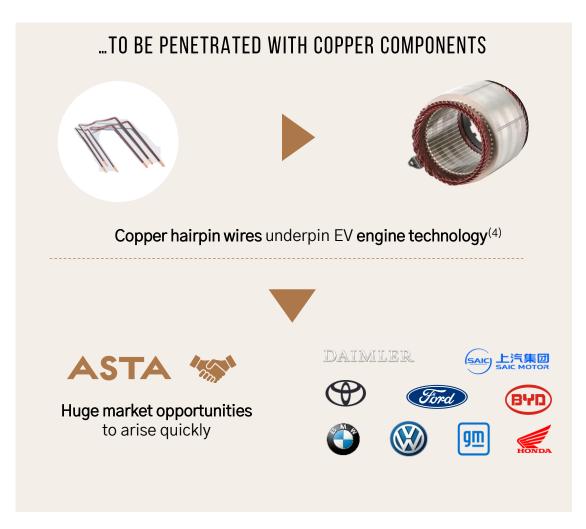


# DEEP DIVE — VAST CHINESE ELECTRIC VEHICLE MARKET



China is the largest market for electric vehicles globally - and will remain so





# ASTA'S STRENGTHS SET IT APART IN THE ENERGY LANDSCAPE



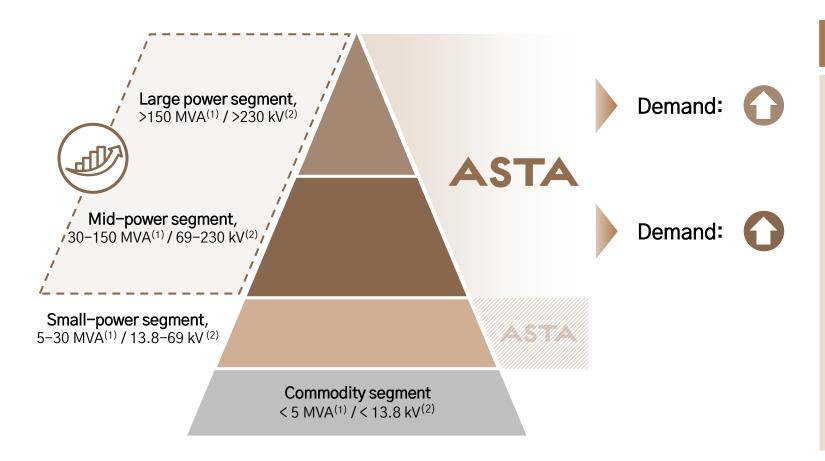
Side-by-side comparison of ASTA to selected value chain peers

	Key players	In-house recycling platform	Sustainable approach	Vertical integration	Loyal blue-chip customers	Innovation/ R&D capabilities	Global footprint	Premium offering
	ASTA							
Competitors	Sam Dong		9	0	0	9		9
	<b>ESSEX</b> : FURUKAWA.	9		0	9	9		0
	<b>长城科技</b> GRANDWALL TECH							
	H W			9		•		
Leading cable peers	<b>Prysmian</b> Group		9	9			9	
	<b>√</b> exans		•	•			•	
	HUBER+SUHNER					9	9	
	R€						•	
E-mobility accelerators	<b>V</b> ALFEN		9			•		
	<b>EARO</b>					•		
Customers/ OEMs	SIEMENS COCCGY	9		0				
				9		9		

# TARGETING PREMIUM SEGMENT OF HIGH-VOLTAGE INDUSTRY



Energy transition fueling demand for large- and mid-power voltage solutions



### **KEY TAKEAWAYS**

- Greater volatility of power supply and demand creates ever more complex needs and requirements on power infrastructure
- ✓ Energy transition requires massive investments in high-voltage sector, where ASTA holds ~1/3 of global market share
- ✓ Accelerating transition creates strong market pull for more premium, high-tech copper core products and solutions

ASTA IS WELL-POSITIONED TO CAPTURE BENEFITS OF AN ACCELERATING ENERGY TRANSITION WITH INCREASED PRODUCT COMPLEXITY REQUIREMENTS

Notes: (1) MVA = Megavolt-ampere; (2) kV = kilovolt



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# PROVEN TRACK RECORD IN DELIVERING HIGHEST-QUALITY, RELIABLE AND TAILOR-MADE SOLUTIONS TO BLUE-CHIPS AROUND THE GLOBE









### Flagship contract

- Long-term supplier of CTCs for Siemens Energy' HVDC transformers
- CTCs, Roebelbars



### Key win criteria

- Ultra Thin Enamel jointly developed with Siemens Energy
- Joint innovation, e.g. TG CTCs
- Exclusivity for 140°C enameling









### Flagship contract

- Large-scale power transformer in Sweden, including 104 tons of copper
- CTCs, Roebelbars



### Key win criteria

- Netting Tape CTC w/ Friction Tape
- Joint innovation project:
   'Spacerband'
- Global local-to-local proximity









### Flagship contract

- Supplying General Electric for the Sierra onshore wind platform
- Generators, Roebelbars



### Key win criteria

- Increased operating lifetime
- 24/7 technical support
- Competitive lead times









### Flagship contract

- Preferred supplier for Bosch Mobility Solutions in Brazil
- Round and rectangular wires, service motors for mobility applications



### Key win criteria

- Close R&D cooperation
- Breath and depth of offering
- Best-in-class product features

# PRODUCT CASE STUDY — CONTINUOUSLY TRANSPOSED CONDUCTORS<sup>[1]</sup>



### PRODUCT DETAILS

### PAPER INSULATION

Up to 32 layers in one step, increasing the overall insulation width down to +0.8mm, potentially infinite layers

### **NETTING TAPE**

Netting tape CTC for maximum cooling performance in the Low Voltage Transformer windings

### 'GIANT CTCs'

Giant CTC with up to 80 strands are best suited for ultra-high current windings



### **ASTA USPs**



### PRODUCTION DETAILS

### BARE WIRE FORMING

Proprietary cold rolling lines are forming rectangular wire with outstanding geometric tolerances

### **FNAMFILING**

Proprietary self-developed enameling application system allows very small tolerances

### **TRANSPOSING**

Proprietary transposing heads create most compact conductor shapes with very high winding flexibility

HIGHEST MECHANICAL STRESS RESISTANCE

MOST COMPACT WINDING EXPERIENCE

LOW-LOSS APPLICATIONS

IN-DEPTH CHEMICAL KNOW-HOW

Note: (1) Continuously transposed conductor = CTC

# CUSTOMER CASE STUDY — CONTINUOUSLY TRANSPOSED CONDUCTORS<sup>[1]</sup>







# PRODUCTS: TRANSFORMERS & GENERATORS



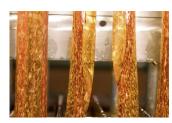
### PRODUCTION PROCESS







BARE WIRE MANUFACTURING



ENAMEL INSULATION



TRANSPOSING



OTHER INSULATION SYSTEMS

### CHALLENGE

- Size constraints
- Heat management
- Extreme levels of mechanical stress
- Rising power needs

### SOLUTION

- · More compact design, best winding space factor
- Multiple cooling solutions inside CTCs
- Greater copper wire winding stress tolerance
- · Thinner insulation layers allow for more copper

Comprehensive, cost-effective control procedures in place throughout all production steps

Note: (1) Continuously transposed conductor = CTC



# PRODUCT CASE STUDY — ROEBELBARS



### PRODUCT DETAILS

### HIGH THERMAL CLASS INSULATION

Epoxy resins to meet a wide range of thermal class requirements

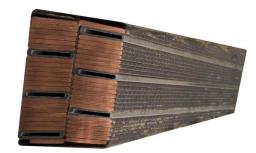
### HOLLOW CONDUCTOR COOLING

Built-in hollow conductors for highlydemanding use cases and applications

### CUSTOMIZABLE LENGTH

Ability to manufacture from < 500mm up to 12m single Roebelbar-length - supplier of choice for extremely tiny & very large projects







### PRODUCTION DETAILS

### BARE WIRE FORMING

Proprietary rolling machine to shape copper wires with excellent wire tolerance

### **GLASS-YARN PROTECTION**

Proprietary enamel-glass yarn protection permits more efficient production

### INDUSTRIAL MANUFACTURING

Ensuring very high quality and precision

**ASTA USPs** 

SERVING MOST DEMANDING APPLICATIONS

COST COMPETITIVENESS

✓ HIGH FLEXIBILITY

ONE-STOP-SHOP SOLUTION

# CUSTOMER CASE STUDY — ROEBELBARS







### PRODUCTS: GENERATORS



### PRODUCTION PROCESS







BARE WIRE
MANUFACTURING



INSULATION



ROEBELING



DISTRIBUTION

### CHALLENGE

- · Minimization of eddy currents
- Extreme heat levels
- Loss reduction
- Space constraints

### SOLUTION

- Proprietary roebeling of copper wires
- Multiple cooling solutions inside Roebelbars
- Variable Roebel-factor (360°, 540°, 720°, 1080°) or as per customer specification
- More compact design, outstanding winding space factor

Comprehensive, cost-effective control procedures in place throughout all production steps



# USPs — ENERGY BUSINESS



### **PRODUCT USP's**



### **COST COMPETITIVENESS**

Industrial excellence drives cost competitive product offering



### IN-DEPTH CHEMICAL KNOW-HOW

Full value chain offering from joint R&D programs to manufacturing and recycling



# HIGHEST MECHANICAL STRESS RESISTANCE

Superior epoxy enameling features & winding hardness – leading CTC<sup>(1)</sup> supplier for crucial energy projects

### **PRODUCTION USP's**



### HIGH FLEXIBILITY

ASTA can adjust its production processes to deliver customized products on short notice

### **ONE-STOP-SHOP SOLUTION**



From joint R&D programs, including metal forming & chemical developments of isolations, to tailor-made transposing systems

### **USE-CASE USP's**



# SERVING MOST DEMANDING APPLICATIONS

One of the world's leading Roebelbar suppliers for some of the highest-profile projects



### LOW LOSS APPLICATIONS

Proven ability to maximize efficiency through ultra-thin insulation techniques



# MOST COMPACT WINDING EXPERIENCE

Highest level of winding space factor allowing most efficient use of available space



# PRODUCT CASE STUDY — COPPER WIRES



### PRODUCT DETAILS

### **ROUND WIRES**

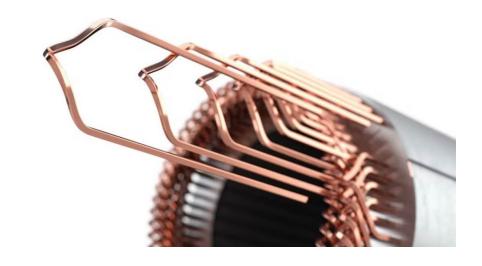
More standard format of wires, e.g. charging stations: used for regular and slow charging

### FLAT WIRES

Exhibit better energy efficiency, e.g. charging stations: necessary for ultra-rapid charging techniques

### INSULATION MATERIAL

Various insulation solutions available, best tailored to customer requirements



### PRODUCTION DETAILS

### COLD FORMING

ASTA able to produce round copper wires with a cross-section as small as 0.052mm<sup>2</sup>

### **WIRE TREATMENT**

Patented processes creating desired wire hardness for the customer

### **EXTRUSION**

Casted round wire is continuously extruded through special tools to achieve the required geometry or form factor

### **ASTA USPs**

- ✓ FULL CUSTOMIZATION CAPABILITIES
- ✓ SUPPORTING ALL THERMAL CLASSES



- ✓ EXCELLENT ENERGY EFFICIENCY
- CLOSE PARTNERSHIPS WITH CORE CUSTOMERS

# PRODUCT CASE STUDY — TRACTION TRANSFORMERS



### PRODUCT DETAILS

### **INSULATION**

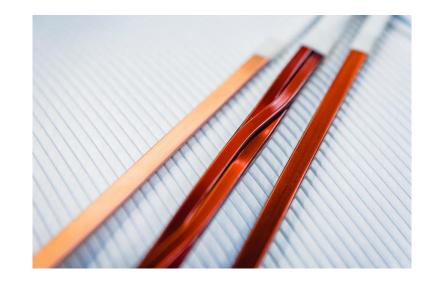
High-temperature insulation index to cope with higher average operating temperature

### WINDING DIMENSION TOLERANCE

Compact winding designs without "plus-tolerance" in dimensions

### **MINIATURIZATION**

Small, condensed CTC design – traction transformers have limitations in size and weight to fit on train



### PRODUCTION DETAILS

### TRANSPOSING

Proprietary transposing head allows for smallest possible transposing length

### WINDING

High precision conductors to be suitable for fully automatic user winding processes

### **INSULATION**

Unique expertise applying insulation on copper wires

### **ASTA USPs**

- ✓ VERY HIGH DEGREE OF CUSTOMIZATION
  - ✓ VERY SMALL SPACE FACTOR



- ✓ VERY BROAD PRODUCT OFFERING
- ✓ SUPPORTING ALL THERMAL CLASSES

# USPs — [E-]MOBILITY BUSINESS



### **PRODUCT USP's**



### FULL CUSTOMIZATION CAPABILITIES

Proven ability to deliver wide range of product features to clients through greater accuracy of varnish



### **VERY SMALL SPACE FACTOR**

ASTA's solutions accommodate for traction transformers' space constraints



### BROAD PRODUCT OFFERING

ASTA offers multiple declinations of its products to cope with customers' tailored requests

### **PRODUCTION USP's**



# CLOSE PARTNERSHIPS WITH CORE CUSTOMERS



ASTA's differentiated copper knowledge and product features are highly appreciated and valued by its customers

### **EXTENSIVE FLEXIBILITY**



ASTA able to accommodate for short-term customer delivery requests

### **USE-CASE USP's**



### **EXCELLENT ENERGY EFFICIENCY**



Continuous in-house & joint R&D with customers and research institutions ensure maximal energy efficiency and loss reduction

### SUPPORTING ALL THERMAL CLASSES



Proprietary PEEK<sup>(1)</sup> extrusion to increase thermal resistance to 240°C, and support transition to 800V EVs

Note: (1) PEEK = Polyether Ether Ketone

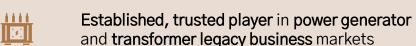
# EXECUTIVE SUMMARY — PRODUCTS



On track to become a global clean electricity champion advancing the energy and mobility transition

### FROM A POWER GRID CHAMPION...







Strong existing partnership network with premium customers & suppliers around the globe

### ...TO A DIVERSIFIED CLEAN ENERGY & E-MOBILITY ENABLER



Discussions and negotiations with potential e-mobility customers in China

Positioned to emerge as a **key e-mobility player** in China

Winning as diversified clean energy + mobility champion in highly attractive markets





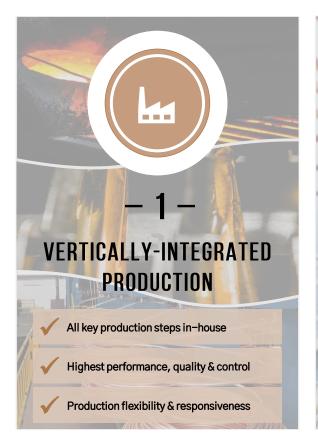


# **AGENDA**

- 1. Introduction & Elevator Pitch
- 2. Markets & Competitive Positioning
- 3. Products
- 4. Business Model
- 5. Platform Positioning & Corporate Governance
- 6. Growth Strategy
- 7. Financials

# BUSINESS MODEL - GLOBAL ECOSYSTEM OF OPERATIONAL EXCELLENCE DELIVERING HIGHEST QUALITY PRODUCTS & TOP PERFORMANCE









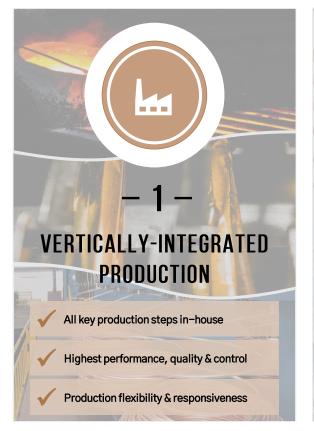


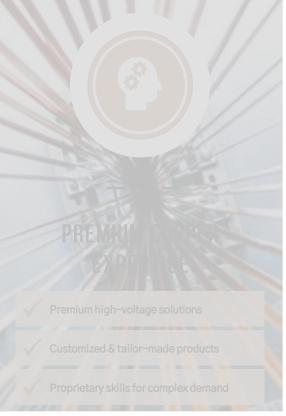


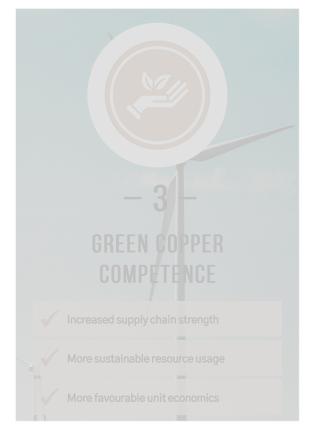


# BUSINESS MODEL - GLOBAL ECOSYSTEM OF OPERATIONAL EXCELLENCE DELIVERING HIGHEST QUALITY PRODUCTS & TOP PERFORMANCE















## OPERATIONAL EXCELLENCE

4

Vertical integration with high recycling capability & circular approach as core USP of ASTA

### UPCASTING/RECYCLING

### BARE WIRE MANUFACTURING

### **ENAMEL INSULATION**

### TRANSPOSING

### OTHER INSULATION SYSTEMS



Upcasting machines recycle used copper rods (1) without any loss of quality



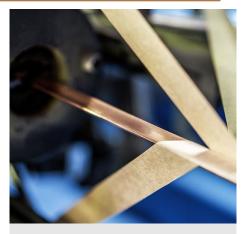
High-quality copper continuous cast wire rod is the beginning of the manufacturing process for round and flat wires<sup>(2)</sup>



Insulation of the copper wire is a core process, significantly influencing the service life of the final product



Compactness, dimensional accuracy and easy winding of the bundle of conductors are the most important criteria in the production of CTCs



Offering sophisticated insulation solutions for the greatest variety of applications

4

Green copper: usage of recycled rods reduces CO<sub>2</sub>-emissions & lessens dependency on primary sourcing

4

Copper wire can be specially treated in accordance with customer requirements 4

Enamel insulation is continuously improved by ASTA together with its suppliers

4

Expertise in extreme dimensions and short transposing lengths

4

Insulation feasible with special paper, films, continuous glass yarn or combinations

# SPOTLIGHT — ENAMEL INSULATION

4

Proven and high value-add insulation expertise setting ASTA apart

### **FULL VERTICAL INTEGRATION**













- ➤ Insulation is a key production step, providing copper with many desired properties such as abrasion resistance, oil resistance, temperature resistance and dielectric strength
- > Combination of above properties determines efficiency and service life of the final product to a great extent

- ✓ ASTA has **strong**, **proven expertise** with PVF enamel, primarily used for transformers and heat resistant **up to 140°C**
- ✓ Mastering geometry of die inside enameling machine for optimal enamel insulation cover of copper wires; furthermore, ASTA has proven expertise in horizontal enameling
- ✓ PEEK<sup>(1)</sup> insulation is heat resistant up to 240°C, and is specifically designed for motors and for the e-mobility sector





Note: (1) PEEK = Polyether Ether Ketone

# SPOTLIGHT - TRANSPOSING

4

Differentiated transposing know-how to address most complex customer requirements

### FULL VERTICAL INTEGRATION

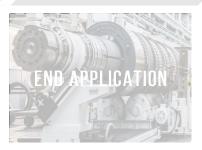












- > Transposing of conductors reduces eddy currents and therefore increases energy efficiency of the transformer winding
- > Compactness, dimensional accuracy and easy winding of the bundle of conductors are the most important criteria in the production of wound wire conductors

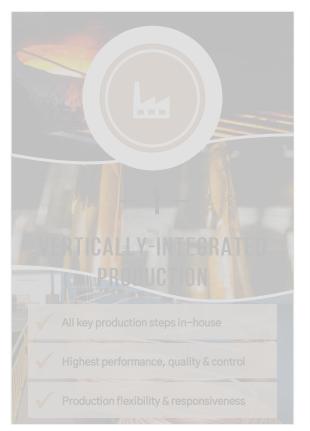
- ✓ Expertise in extreme dimensions and short transposing lengths allows ASTA to combine up to 80 strands in a single CTC (ASTA defines its own transposing head transposing settings)
- ✓ Quality control throughout manufacturing process, including during critical transposing phase, to minimize product defects and guarantee outstanding quality
- ✓ Greater level of compactness maximizes accuracy of transposed copper windings, and results in narrowest available tolerances





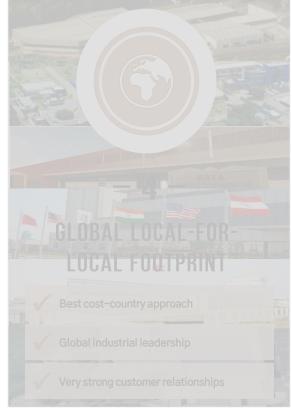
# BUSINESS MODEL - GLOBAL ECOSYSTEM OF OPERATIONAL EXCELLENCE DELIVERING HIGHEST QUALITY PRODUCTS & TOP PERFORMANCE

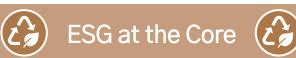








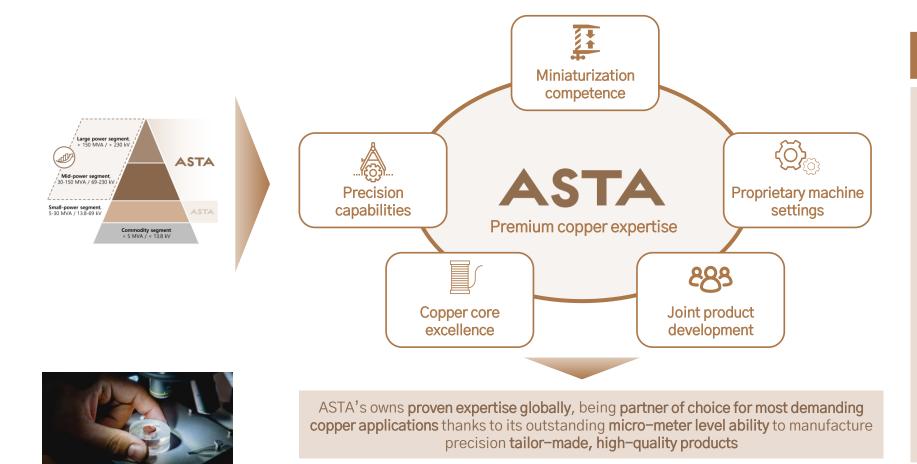




# POSITIONED TO EXCEL IN PREMIUM SEGMENT OF HIGH-VOLTAGE INDUSTRY 🗲



Complementary skillset to best address attractive market opportunities



### KEY TAKEAWAYS

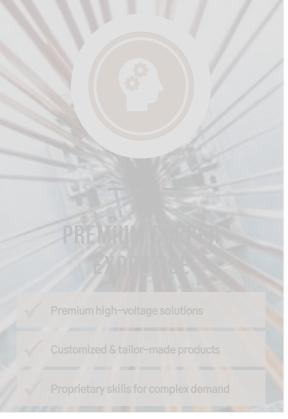
- ASTA excels in complex, highestrequirement design & manufacturing of premium, customized copper products and solutions for a wide range of highvoltage applications
- ASTA products best answer customers' increasingly complex needs in the large-and mid-power voltage segments

ASTA IS WELL-POSITIONED TO REAP OFF BENEFITS FROM INCREASINGLY COMPLEX MARKET DEVELOPMENTS

# BUSINESS MODEL - GLOBAL ECOSYSTEM OF OPERATIONAL EXCELLENCE DELIVERING HIGHEST QUALITY PRODUCTS & TOP PERFORMANCE











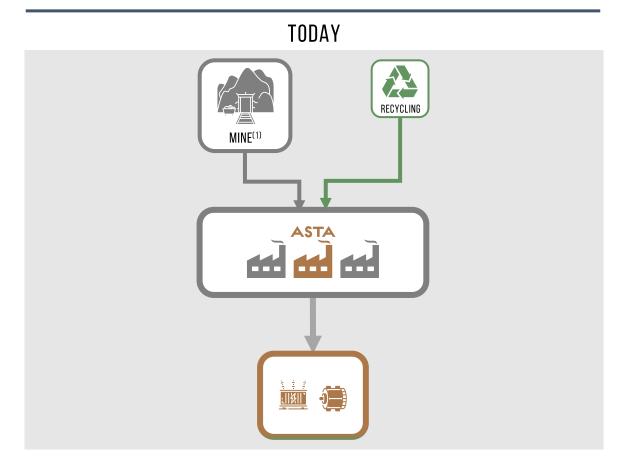




# JOURNEY OF A PIECE OF COPPER — TODAY AND TOMORROW



With enhanced recycling efforts, ASTA will be able to lessen dependency on primary raw copper





~45% of global copper in use comes from Power Generation,
Distribution & Transmission industries(3)

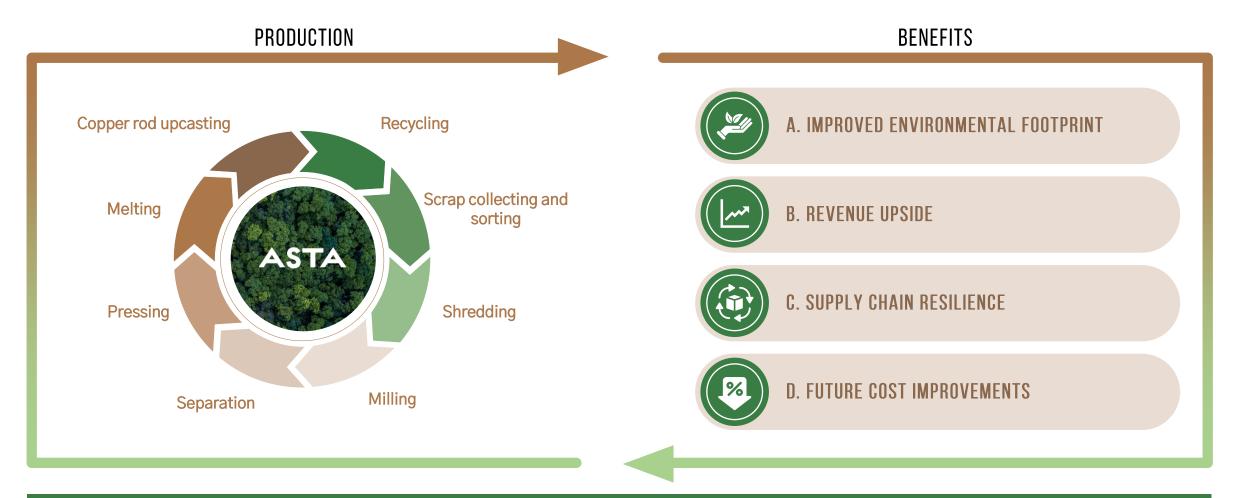
Copper is 100% recycable
- can be recycled again & again
without any quality loss(3)



# COPPER RECYCLING TO SECURE FOUR KEY BENEFITS (1/2)

4

ASTA masters all key steps to upcycle copper - committed to building a sustainable & circular business model



ASTA ON THE WAY TO RECYCLE 100% OF ITS OWN SCRAP[1]

Note: (1) For details see slide 76

# COPPER RECYCLING TO SECURE FOUR KEY BENEFITS (2/2)



Improved environmental footprint, revenue upside, resilient supply chain & future cost savings among advantages



# **ESG AT ASTA: HIGHLIGHTS**

4

Full commitment on environmental-, social- and governance dimension

### **ENVIRONMENTAL**

### PRODUCTS - POWERING ENERGY TRANSITION

- Critical player for energy transition from fossils to renewable clean energy generation & transmission
- ASTA products found in most renewable electricity sources – e.g. windparks & hydro stations
- Accelerating the transition with outstanding product quality: better conductivity & insulation lead to higher energy efficiency

### DECARBONIZATION

 Reduction of carbon footprint by limiting shipping distance through global local-to-local approach & continuously improving production facilities

### INDUSTRY RECOGNITION

 Award-winning recognition by clients & partners for contributions to sustainable production



### SOCIAL

# PROMOTING GENDER EQUALITY/ EMPLOYER OF CHOICE

- Employer of choice through professional recruitment and retainment processes, including traditional and innovative instruments
- ASTA intends to be 'employer of choice' within industry to deliver on global growth ambitions

### ENGAGEMENT WITH LOCAL COMMUNITIES

- ASTA strives to intensify existing cooperations with diverse local stakeholders in Austria, Bosnia, Brazil, India and China
- Joint social efforts with e.g. labor unions, environmental groups, to create shared value contribution for sustainable community development

### MINORITY & DIVERSITY EMPOWERMENT

 ASTA is engaged to strengthen the visibility of minority groups and diversity initiatives in its workforce and among stakeholders

### **GOVERNANCE**

### EFFECTIVE CORPORATE GOVERNANCE

- Corporate Integrity: ASTA intends to sign Austrian Corporate Governance Codex for listed companies on Vienna Stock Exchange (no exceptions to be expected as of today)
- Transparency: ASTA adhering to highest compliance & transparency rules in accordance with Austrian stock corporation laws

### **COMPLIANCE MECHANISMS**

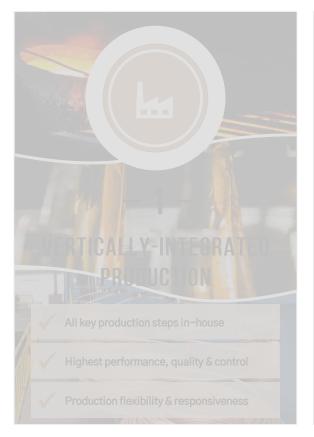
- Two-tier board system<sup>(1)</sup> as an "AG" according to Austrian stock corporation law ensures effective compliance mechanisms
- To-be established supervisory board with credible separation from management & ensuring effective control of operations as an "AG" according to Austrian stock corporation law<sup>(2)</sup>

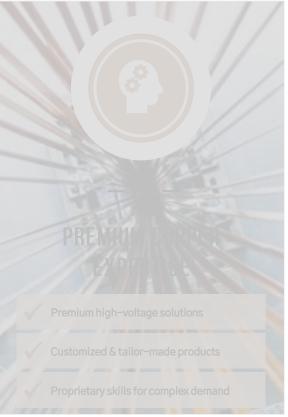
### TRUSTFUL AUDITING

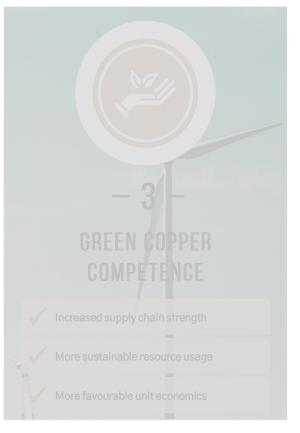
 ASTA is partnering upon long-lasting and trustful relationships with renowned auditors on business and ESG matters

# BUSINESS MODEL - GLOBAL ECOSYSTEM OF OPERATIONAL EXCELLENCE DELIVERING HIGHEST QUALITY PRODUCTS & TOP PERFORMANCE

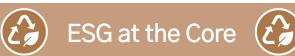












# METICULOUSLY BUILT BEST COST-COUNTRY APPROACH



Multiple direct and indirect benefits for ASTA resulting from its globa local-for-local strategy





# **AGENDA**

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# PLATFORM POSITIONING — PARTNER OF CHOICE TO ENERGY CHAMPIONS #



ASTA is a highly reliable partner to numerous blue-chip customers since decades

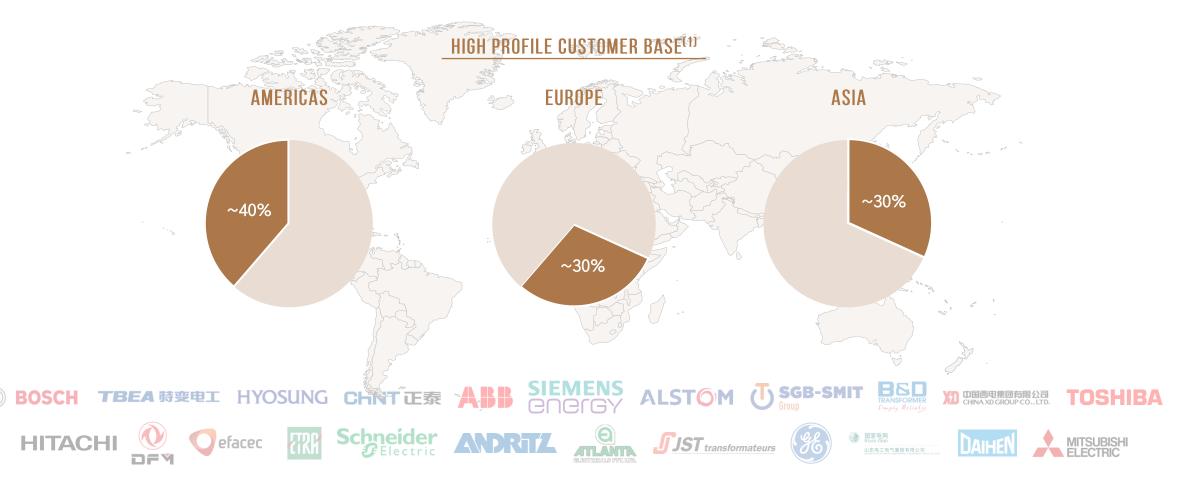


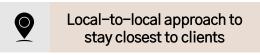
**200**+ YEARS AT THE FOREFRONT OF INNOVATION, TRUSTED PARTNER TO THE WORLD'S MOST RENOWNED ENGINEERING CHAMPIONS

# PLATFORM POSITIONING — DIVERSIFIED & GLOBAL GEO-FOOTPRINT

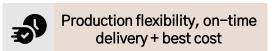


Diversification of revenue streams across regions ensures a natural hedge







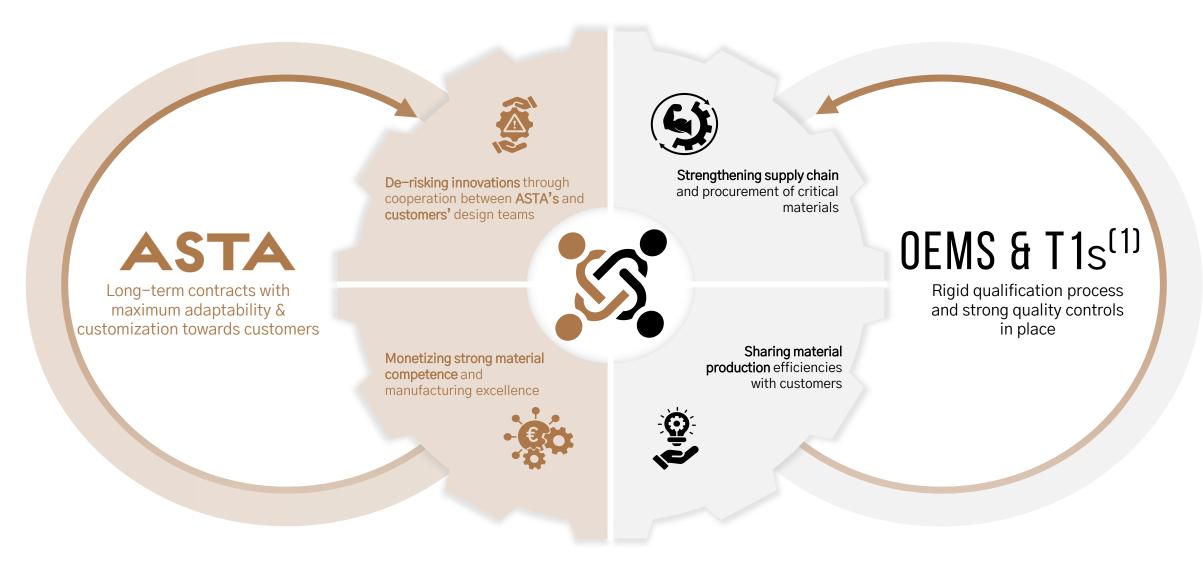




Highest quality standards, enforced globally

# R&D COLLABORATION WITH CLIENTS STRENGTHENS RELATIONSHIPS



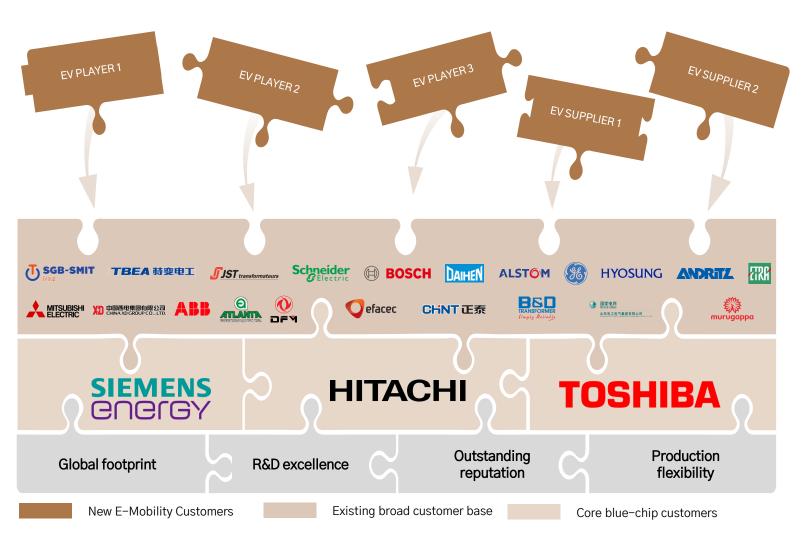


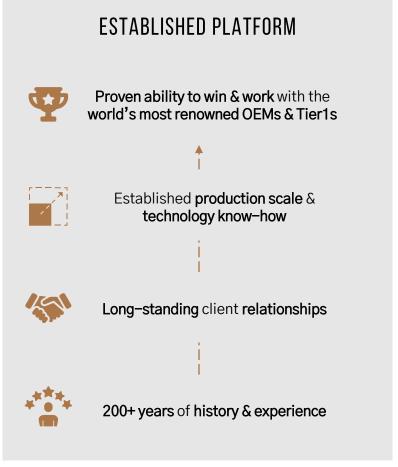
Note: (1) T1s refers to Tier-1 suppliers

# ASTA TOMORROW — COMPLETING THE PUZZLE FOR NEXT GROWTH LEG



Strongly positioned to leverage on energy legacy to grow in (e-)mobility





# R&D EXCELLENCE THROUGH PARTNERSHIPS

4

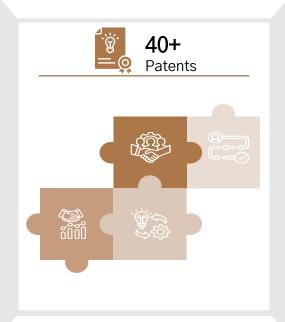
Continuously improving product quality by conducting cutting-edge research with partners

### PARTNERSHIP MODEL

- Central to ASTA's R&D approach is its collaborative development processes with third-parties, including universities
- Renowned universities include University of Constance, Vienna University of Technology

### WIN FOR ASTA

- ASTA maintains and improves its market-leading position by providing innovative high-quality solutions
- Close collaboration strengthens customer loyalty ensuring future business



### SUCESSFUL HISTORY

- ASTA has 200+ years of proven track record developing successful process and product innovations
- Several blue-chip customers have made long-term use of ASTA's innovative and cutting-edge technologies

### WIN FOR CLIENT

- Customers benefit from ASTA's long-term expertise and broad depth of copper knowledge
- Final products able to exceed customer specifications & requirements, increasing efficiency and decreasing operating costs

### STRATEGIC UNIVERSITY PARTNERSHIPS





- Project-based collaboration with leading academic research institutes
- Project scopes ranging from theoretical feasibility studies to the implementation of pilot projects on ASTA sites (IP, innovations are protected through patents)
- Research projects in close collaboration with ASTA's internal R&D department
- Partnerships provide ASTA with access to highly-qualified professionals at an attractive cost point



### SELECTED MEMBERSHIPS IN TECHNICAL RESEARCH ORGANIZATIONS



European Winding Wire Association
- Technical Committee



European Solvents Downstream Users Coordination Group



International Electrotechnical Commission

- Technical Committee No. 55 (Winding
Wires Working Group)



ECES<sup>(1)</sup> – Technical Committee No. 55 (Winding Wires Working Group)



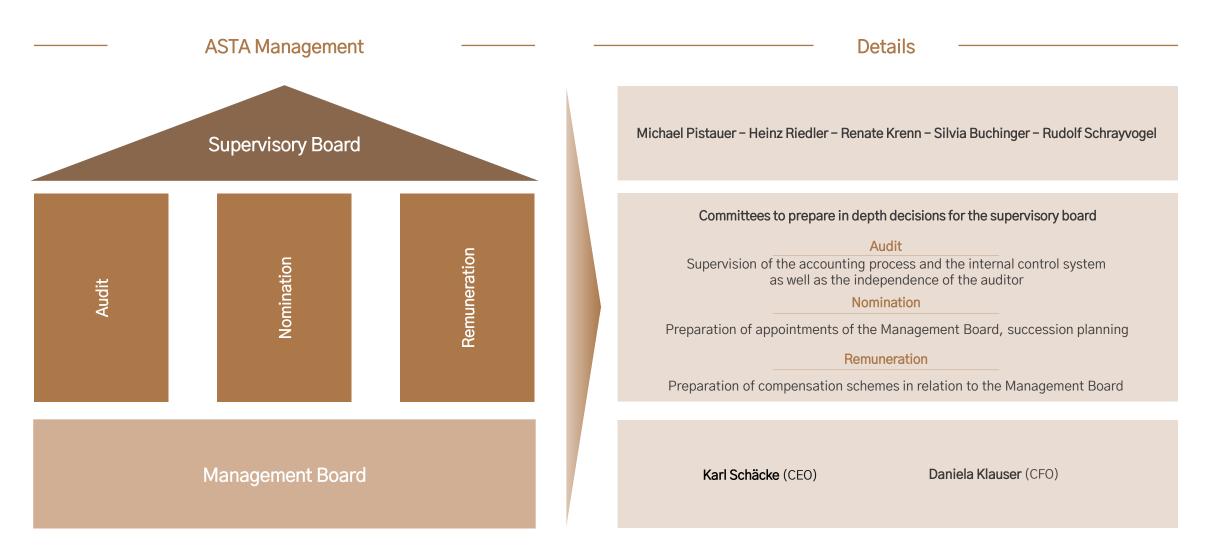
Austrian Electrotechnical Association

Note: (1) European Committee for Electrotechnical Standardization

# CORPORATE GOVERNANCE — STRUCTURES TO BE IMPLEMENTED



Supervisory Board supported by three committees



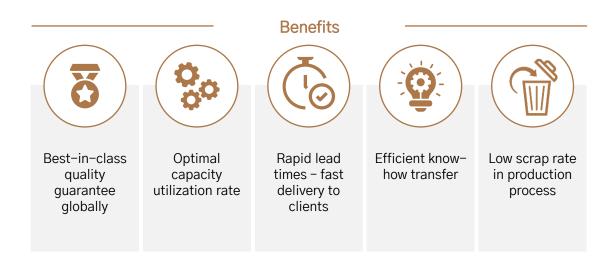
# ASTA MANAGEMENT HAS STRONG GRIP OVER THE BUSINESS

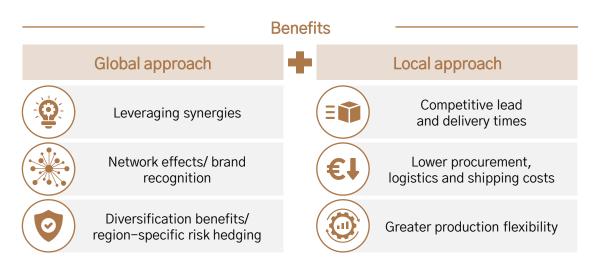


Structured effort internally to run optimal operations and procurement

Complementary committees to ensure strong control over operations		
	Sub-committees	
Operational meeting	Purchasing	Quality management and strategy
Operational leadership Team	Technology	Power Play Teams

# Addressed group-wide... Combined strategy Joint negotiations M&A activities M&A activities Might balance between global oversight and local control over purchasing ...Addressed locally Most suppliers located closely to production sites Decentralized purchasing responsibility Information shared with purchasing teams







# **AGENDA**

- 1. Introduction & Elevator Pitch
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# OVERVIEW — GROWTH STRATEGY BASED ON THREE PILLARS



### A. PENETRATE E-MOBILITY





- ✓ From China to the rest of the world entering enormous, fast–growing e–mobility markets
- ✓ Strengthening production capacities and R&D efforts with partners to match rising demand for premium copper-based products in e-mobility sector
- ✓ Continuously improve our market position around the world – after China, Europe is next

### B. RECYCLING / GREEN COPPER





- ✓ Enhancing recycling capabilities from Brazil to Europe to the rest of the world
- ✓ Developing a Green Copper Alliance together with partners to accelerate uptake of green copper-based products whilst becoming less dependent on external supply
- ✓ Further push to be able to raise barriers to entry and safequard growth path

### C. BOSNIA RAMP-UP





- Capacity ramp-up to serve rising demand levels and build a second recycling casthouse serving Europe
- Optimize production costs by leveraging best cost-country footprint
- Target achievement of over-proportional EBITDA margin development compared to several listed peers



# LEVERAGING EXTENSIVE TRACK RECORD IN LEGACY SEGMENT TO WIN IN E-MOBILITY











PRODUCTION EXTENSIVE COPPER-CORE KNOW-HOW KNOWLEDGE



OVER 200 YEARS OF "COPPER CORE" EXPERIENCE GLOBALLY + STRONGHOLD IN ENERGY GENERATION & TRANSMISSION

### "RIGHT-TO-GROW" IN E-MOBILITY









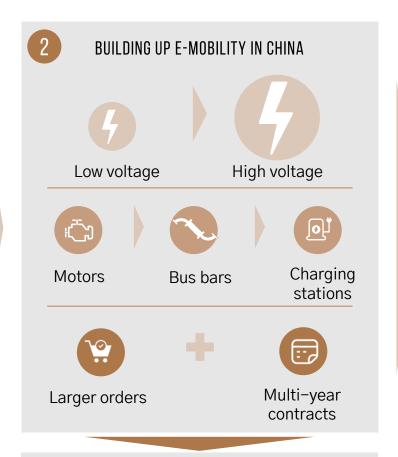
# MOVING PROGRESSIVELY - FROM CHINA TO EUROPE



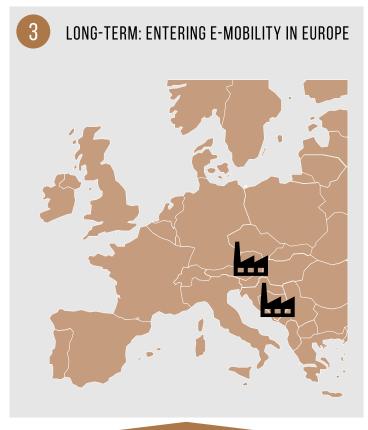
Targeted commercial success in China offers chances to win in rest of the world



Certifications pending to land larger orders and set-up serial production<sup>(3)</sup>



Machinery for large-scale orders ready to be received by Q4 2023 - expected to serve full large-scale orders in HY2 2024



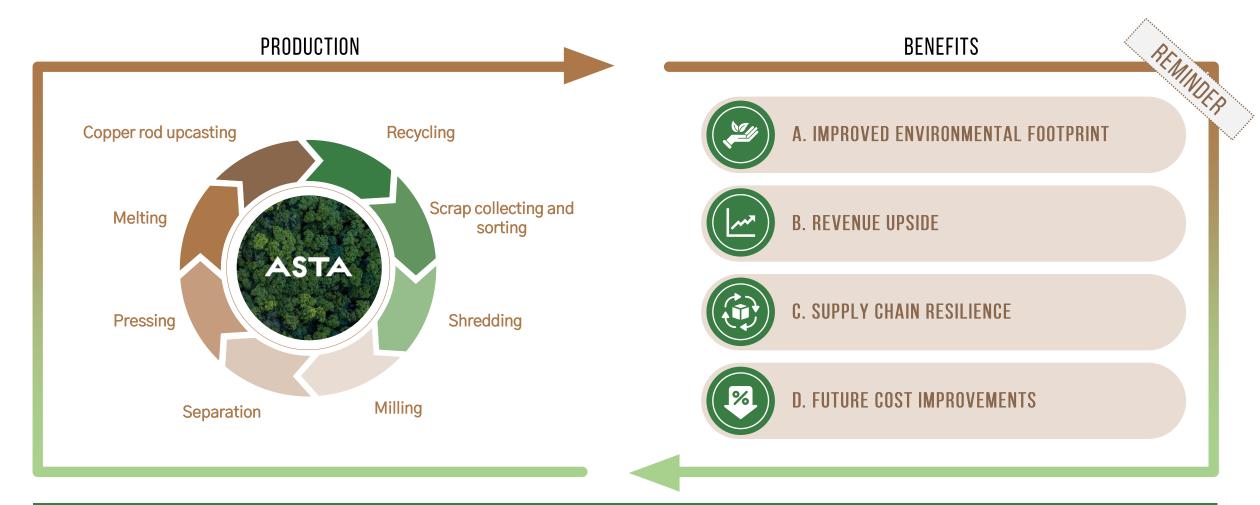




# REMINDER — COPPER RECYCLING SECURING KEY BENEFITS

4

ASTA masters all key steps to upcycle copper - committed to building a sustainable & circular business model



ASTA ON THE WAY TO RECYCLE 100% OF ITS OWN SCRAP[1]

Note: (1) For details see slide 75

# TIMELY GLOBAL IMPLEMENTATION OF RECYCLING CAPABILITIES



With a recycling casthouse in BRA and another upcoming in Bosnia, ASTA aims to achieve circularity

### ASTA ON THE WAY TO RECYCLE 100% OF ITS OWN SCRAP

**FACTORY** 

2023-2024

2024-2026

2026-BEYOND



- Brazil recycling casthouse fully integrated + global know-how transfer

Implementation: 70% recycled copper to date + 90% goal until end of decade

Nearly-full circularity



Upcasting ramp-up in Europe starting with Bosnia casthouse build-up

Recycled copper capacities to double within mid-term

Nearly-full circularity



- Roll-out & implementation in India & China
- Recycled copper capacities to double within mid-to long-term

Nearly-full circularity



### STATUS QUO - TODAY

- Industry-wide 40% recycled copper usage
- ASTA recycling casthouse in BRA, upcoming in BIH

### **GREEN COPPER ALLIANCE - TOMORROW**

- Return of copper scrap from customers to ASTA
- In-house vertical recycling goal of circularity

# C. BOSNIA RAMP-UP

# CAZIN, BOSNIA FACTORY TO BE FULLY CONSTRUCTED & RAMPED-UP



Capacity increase & state-of-the-art casthouse to give ASTA a great leap forward









First drawing & flat rolling of round copper wires



Build & ramp up manufacturing lines & establish full new plant



2025

Construction & ramp-up of recycling casthouse

~50,000m<sup>2</sup>

Available land to build

~20,000m<sup>2</sup>

Factory space in first phase of expansion project

 $\sim$ 15,000 – 20,000 tons

Annual production capacities over first 2–4 years

~200-250

FTEs once completed, leveraging best-cost country approach

### 1 recycling casthouse

Leveraging expertise to bring recycling solutions to Europe

# USE OF PROCEEDS

~100m -150m

30%

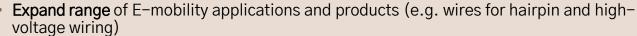
40%

Well-defined funding roadmap to reach ASTA's targets

30%



Accelerate sales of existing E-mobility products



Enlarge customer base and expand footprint across China and Europe with OEMs and Tier-1 suppliers



### **RECYCLING / GREEN COPPER**

- **Expand existing upcasting capacities** in Brazil/the Americas in order to reach recycling quota of 90% of copper used in this region until end of decade<sup>(1)</sup>
- Build up recycling capabilities in Europe over the mid-term
- Establish and lead a Green Copper Alliance to advance sustainability roadmap



### **BOSNIA RAMP-UP**

- Add further capacity to the existing site for the drawing and flat-rolling of round copper wire (by Q1 2024E)
- **Expand the site** to a full manufacturing plant including the complete value chain for insulated copper winding material(2)
- Establish casthouse for copper recycling





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# OVERVIEW - KEY FINANCIAL HIGHLIGHTS



Attractive financial performance marked by strong net sales - & overproportional EBITDA growth with asset-light basis

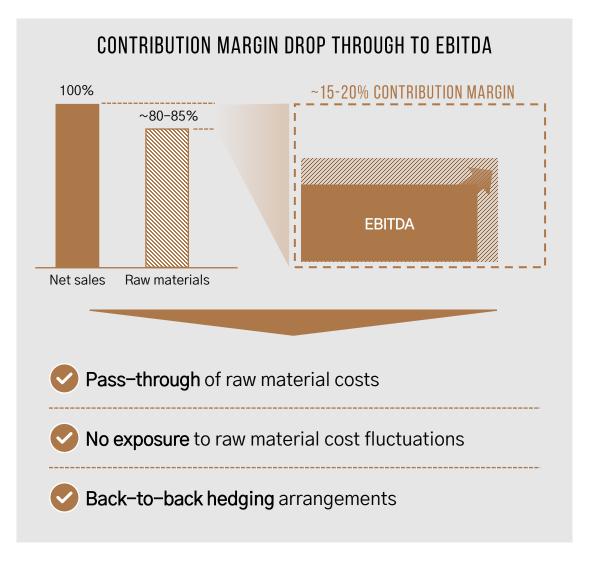
METRIC/KPI	2020	2021	2022	PERFORMANCE
NET SALES	EUR 278.9M	EUR 383.0M	EUR 479.6M	+31.1% CAGR 2020-2022
EBITDA	EUR 8.2M	EUR 8.6M	EUR 33.3M <sup>(1)</sup>	+101.2% CAGR 2020-2022
EBITDA MARGIN <sup>(2)</sup>	2.9%	2.2%	6.9% >5% EXCL. ONE-OFFS	+4.0PP 2020-2022
TWC <sup>(3)</sup>	EUR 21.5M	EUR 37.6M	EUR 40.1M	
TWC AS % OF NET SALES	7.7%	9.8%	8.4%	+0.7PP 2020-2022
CAPEX <sup>(4)</sup>	EUR 5.5M	EUR 5.4M	EUR 7.1M	+13.2% CAGR 2020-2022

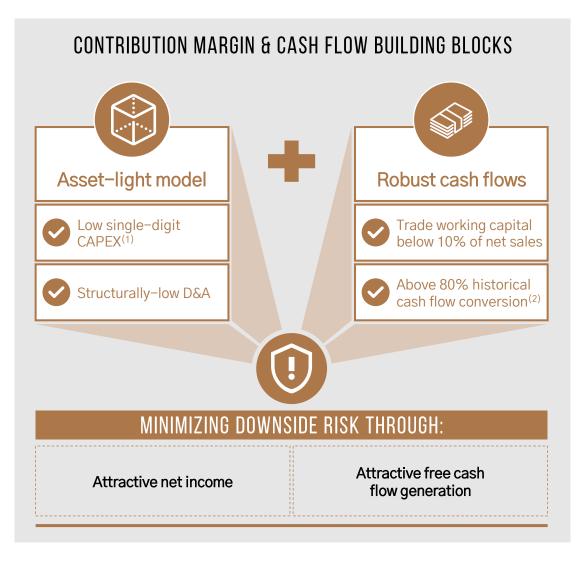
Q1 2023	PERFORMANCE
EUR 139.8M	+28.7% VS. Q1 2022
EUR 7.2M	+460.5% VS. Q1 2022
5.1%	+3.9PP VS. Q1 2022

# HIGHLY-ACCRETIVE CONTRIBUTION MARGIN



Asset-light model, limited trade working capital requirements offer strong net income / FCF basis





# KPI's 2020 - 2022



(in EURm)		2020	2021	2022
Net sales <sup>(1))</sup>		279	383	480
Net sales growth		-	37%	25%
of which impact from São Marco acquisition		0%	0%	5%
Contribution Margin <sup>(2)</sup>		48	49	62
Contribution Margin as a % of net sales		17%	13%	13%
Adjusted EBITDA <sup>(3)</sup>		8.2 <sup>(*)</sup>	8.6(*)	22.6
Adjusted EBITDA Margin as a % of net sales		2.9%(*)	2.2%(*)	4.7%
Adjusted EBITDA Margin / Contribution Margin		17%*)	17%(*)	36%
Adjusted net income <sup>(4)</sup>		-12	-6	2
Adjusted net income as a % of net sales		-	-	0%
CAPEX		<i>5.5</i>	5.4	7.1
CAPEX as a % of net sales		2.0%	1.4%	1.5%
Capital employed <sup>(5)</sup>		61	81	135
ROCE (6)		-14%	2%	19%
Trade working capital		21	38	40
Trade working capital as a % of net sales		8%	10%	8%
	External		COVID-19	
	headwinds			Geopolitical tensions

# ASTA WITH ASSET-LIGHT BUSINESS MODEL & LOW TWO



Balance sheet at a glance

In EURm	2020	2021	2022
Total TWC % of net sales	<b>~20</b> 8%	<b>~38</b> 10%	<b>~40</b> 8%
Fixed assets	~52	~57	~97
o/w PPE % of net sales	<b>~48</b> 17%	<b>~49</b> 13%	<b>~66</b> 14%
Total assets	~135	~178	~270

### Key takeaways

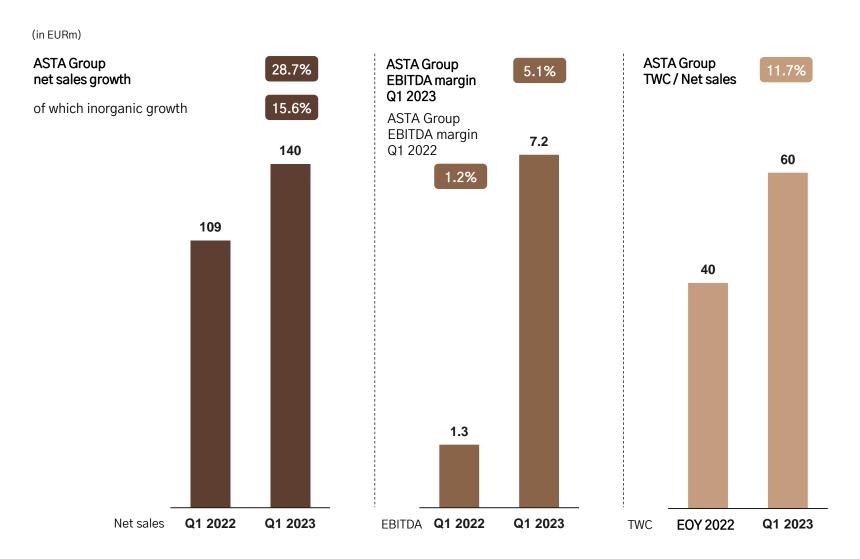
- Structurally-low trade working capital requirements, below 10% of net sales over fiscal 2020–22
- Year-to-date inventory build-up to safeguard procurement and cope with accelerating demand
- Long-term, strong relationships with suppliers provide ASTA with visibility ahead
- Increase in fixed assets in 2022 primary reflects the acquisition of São Marco (Brazil)
- ASTA has, over the last years, meticulously built a global industrial footprint and has ample room to invest and increase its output
- Limited maintenance CAPEX and working capital requirements lead to a very attractive cash conversion pattern

Note(s): TWC stands for trade working capital; Financials audited by KPMG as of April 2023

# STRONG START TO 2023 BODES WELL FOR NEAR-TERM



Robust net sales and profitability growth in Q1 2023



### **COMMENTARY**

- Net sales growth totalled 28.7% y.o.y in Q1 2023, driven by the contribution from the São Marco acquisition (€ ~22 million) and organic expansion
- Reported EBITDA increased from €1.3 million in Q1 2022 to €7.2 million in Q1 2023, positively impacted by positive change in finished and unfinished goods as ASTA has anticipated increase in demand from its customers
- Trade working capital rose from €40 million at EOY 2022 to €60 million in Q1 2023, as inventories grew to €71 million (from €55 million at the end of EOY 2022)

Note: (General) 2022 financial statements audited by KPMG, Q1 2023 financials not audited

# LOOKING AHEAD — HOW TO MODEL THE FUTURE





Highly-visible volume growth, with high barriers to entry



Sustainable, circular approach

Undersupply, green copper to support pricing



Margin excellence

Market growth, operating leverage to increase margins



Attractive cash-flow generation

Attractive cash-flows, asset-light model to boost return metrics







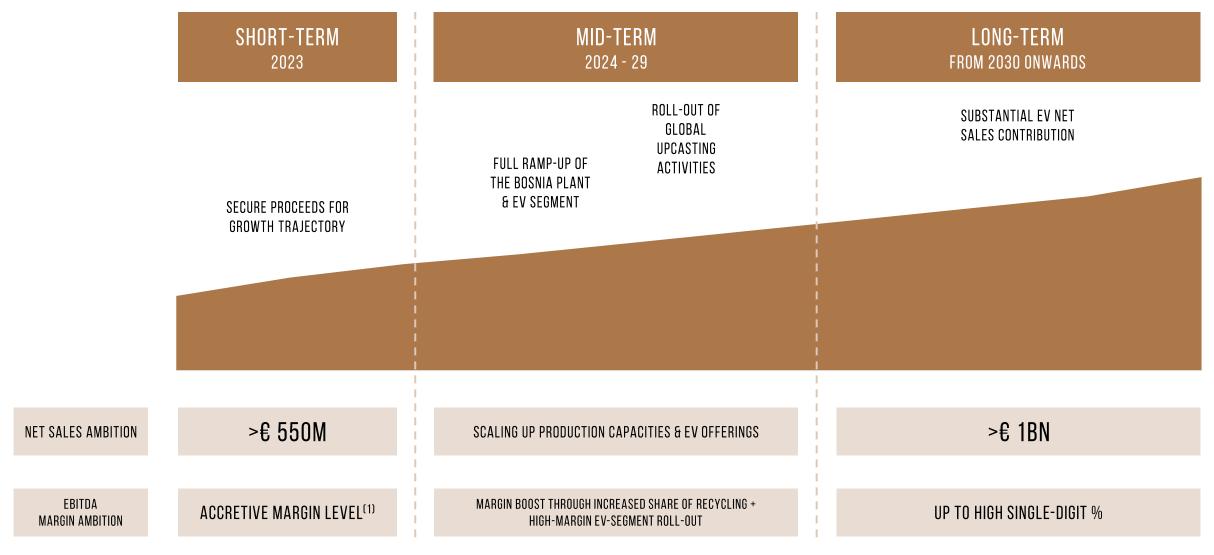


Mid- to long-term financial objectives

# ATTRACTIVE HIGH-LEVEL GROWTH STRATEGY

4

ASTA strives to achieve >€ 1 billion of net sales by 2030



Note: (1) Based on 2022 levels excluding one-offs

# LOOKING AHEAD — NET SALES DEEP DIVE



### HIGHLY-VISIBLE VOLUME GROWTH POWERED BY ENERGY TRANSITION



Accelerating energy transition to boost demand for ASTA's products and solutions



ASTA's Energy business to benefit from decarbonization of global power mix



ASTA's (e-)mobility segment to benefit from rapidly-increasing BEV registrations in China and Europe

### Energy

Low- to mid-single digit volume CAGR in the mid- to longterm in the Energy segment

### (E-)Mobility

Mid- to high double-digit volume CAGR in the (e-)mobility segment in the mid- to long-term

Anticipated high-single digit volume CAGR in the mid- to long-term

### DEMAND GROWTH & GREEN COPPER TRANSITION TO SUPPORT PRICING

Undersupplied market









ASTA expected to benefit from greater pricing power

Transition to green copper

Bargaining power

Global demand growth

above supply to increase

ASTA's bargaining power



### Pricing premium

Up to 30% pricing premium for recycled copper<sup>(1)</sup> provides upside to ASTA's targets

Anticipated low-single digit price CAGR in the mid- to long-term

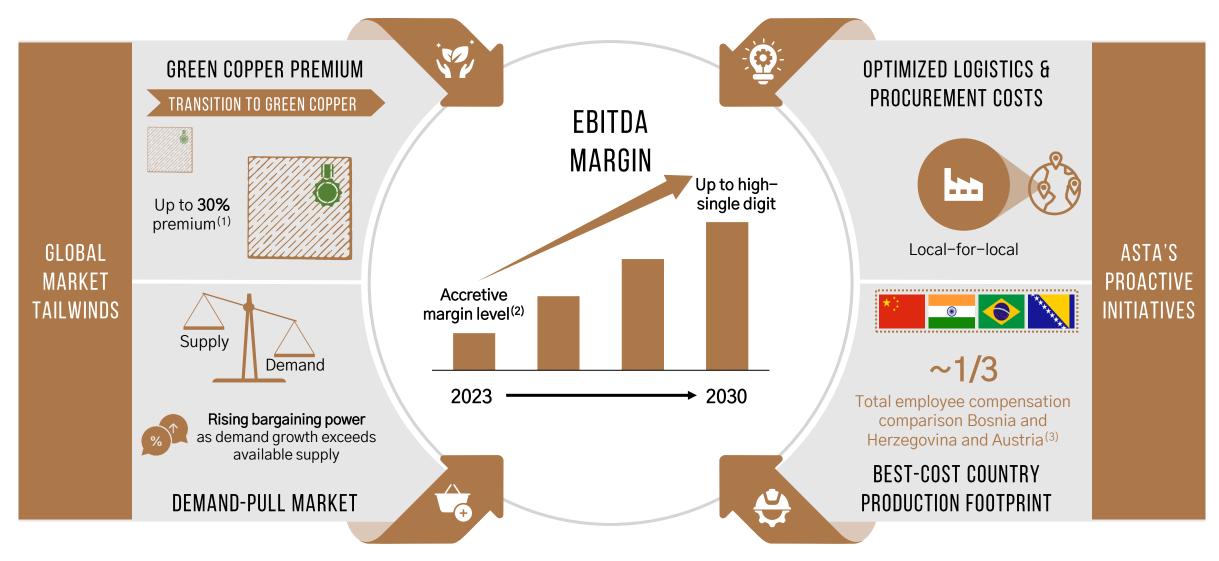
Note: (1) Based upon ASTA management projections and recent customer feedback

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### LOOKING AHEAD — MARGIN DEEP DIVE

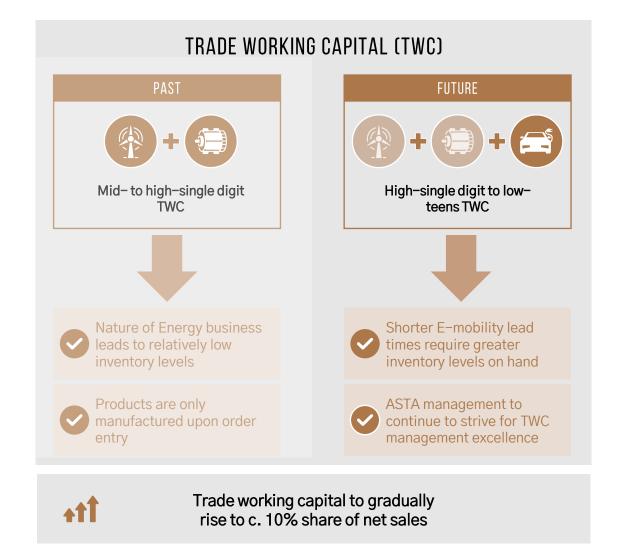
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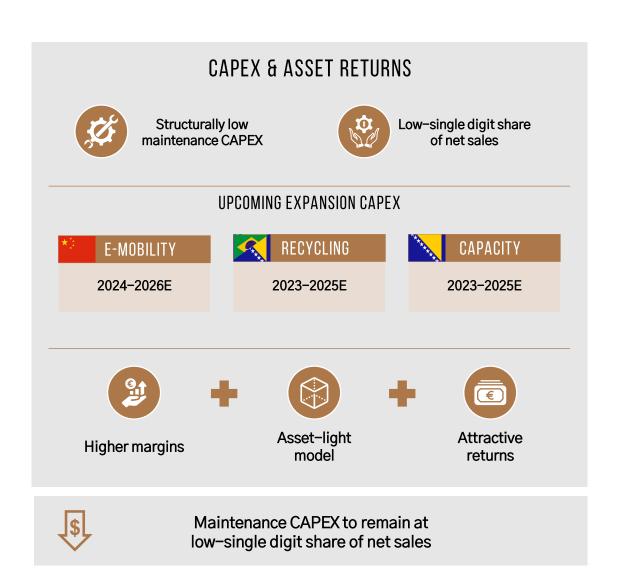
Broader market tailwinds and proactive initiatives to support ASTA's profitability



# LOOKING AHEAD — CASH & RETURNS DEEP DIVE







# **GUIDANCE**



Striving to exceed EUR 1 billion in net sales following 2030E with rapidly-improving net income and free cash flow

in EURm	2023	Mid-term ambition	Long-term ambition	Key drivers
Net sales	> 550	-	> 1,000	<ul> <li>✓ Accelerated transition to a greener and decentralized energy ecosystem</li> <li>✓ Rapid anticipated growth in battery EV registrations globally</li> </ul>
EBITDA margin	Accretive margin level <sup>(1)</sup>	-	Up to high–single digit	<ul> <li>✓ Emergence of an undersupplied market and rising appetite for recycled copper</li> <li>✓ Stronger operating leverage from best-cost country approach and productivity gains</li> </ul>
CAPEX	Mid-single digit share of net sales	From high- to low- single digit share of net sales	Low-single digit share of net sales	<ul> <li>✓ Short-term CAPEX driven by Cazin expansion<sup>(2)</sup></li> <li>✓ Mid-term CAPEX program to expand E-mobility production footprint in China<sup>(3)</sup></li> </ul>
Trade working capital	Mid- to high-single digit share of net sales	High-single digit share of net sales	High-single digit to low-teens share of net sales	<ul> <li>✓ Strong control over trade working capital developments</li> <li>✓ E-mobility is structurally more trade working capital intensive (than core Energy segment)</li> </ul>

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