

Opening of the voestalpine Direct Reduction Plant

Press conference – Corpus Christi, Texas October 26, 2016

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voestalpine AG www.voestalpine.com

voestalpine: An Overview

Wolfgang Eder, CEO of voestalpine AG

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ONE STEP AHEAD.

voestalpine Group Overview

- European technology and capital goods group that has its own steelmaking facilities
- Leading partner to the global automotive and consumer goods industries and the oil and natural gas industry
- Global market leader in high-tech railway infrastructure (rails, turnouts) as well as tool steel and special sections
- Listed on the Vienna Stock Exchange since 1995 owned 100% by private shareholders
- Ecological pioneer benchmarks for emissions and energy efficiency
- Worldwide investment volume in the BY 2015/16: EUR 1.3 billion (~USD 1.5 billion*)

* Exchange rate: March 31, 2016 (end of Business Year 2015/16)

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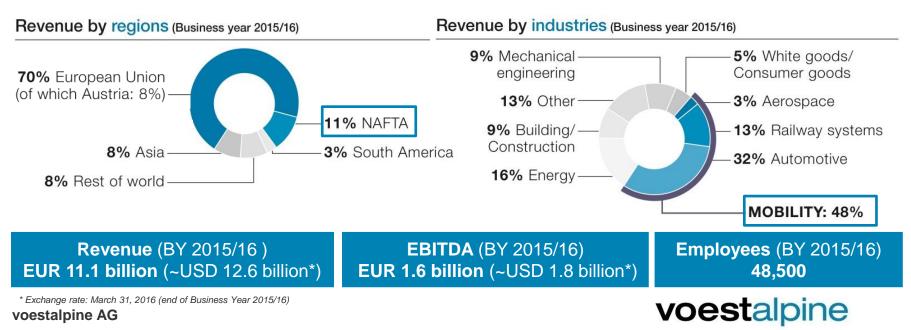






voestalpine Group Global footprint

One Group – 500 locations – 50 countries – five continents



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Accelerated expansion in the NAFTA region

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voestalpine Group Focus on the NAFTA region



~ 14% of voestalpine shares are held by North American investors

* Exchange rate: March 31, 2016 (end of Business Year 2015/16)

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NAFTA region – current projects (in addition to HBI)

- Short-distance traffic (railways): major orders (turnouts/signaling technology) in New York, Los Angeles, San Jose, Seattle, Toronto, San Francisco
- Special Steel: new location for high-tech coating in Queretaro, Mexico
- Automotive safety components: acquisition of Summo Corp., Canada
- Automotive components: expansion of plant in Cartersville, Georgia major order of USD 500 million → investment USD 60 million including new site in Birmingham, Alabama
 - → 400 new jobs by 2020
 - Cartersville: first NAFTA site for high-tech hot forming of ultra highstrength steel (press-hardening steel – phs-ultraform[®])
- Aircraft components: expansion of forged parts and special sections









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voestalpine Direct Reduction Plant

The beginning of a new era

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Direct reduction plant in Texas Why USA?

- Politically stable environment that is predictable in the long term; professional cooperation with authorities
- Logistically central location (deep-sea access to Gulf of Mexico)
- Business-friendly environment:
 - Political arena and society have high degree of affinity for industry
 - Attractive, WTO-conforming investment subsidy
 - Cost-efficient energy supply with concurrently high environmental standards:
 - \rightarrow Average price for electricity in Austria double the price in the USA^{η}
 - → Long-term average price for natural gas in Austria around three times as high¹)
 - Lower tax and levy rate (in % of GDP: 27% USA vs. 43% AUT²⁾)

¹⁾Source: IEA ²⁾Source: OECD

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Direct reduction plant in Texas Facts & figures (1)

Largest ever US investment by an Austrian company Largest and most modern facility of its kind worldwide

| Basic investment: | EUR 550 million / USD 740 million* |
|----------------------|--|
| Total area: | 2 square kilometers |
| Capacity: | 2 million tonnes of HBI annually → 40% own needs / 60% external customers |
| Construction period: | 28 months |
| Start of production: | September 28, 2016 |
| Jobs: | 190 |







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* Exchange rate at the beginning of the project in 2014

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Direct reduction plant in Texas Facts & figures (2)

Full capacity utilization for the next four years ensured

| Plant has own deep-sea port: | 5 million tonnes of material handled annually: in-bound delivery of around 3 million tonnes of iron ore pellets out-bound delivery of around 2 million tonnes of HBI |
|---------------------------------|--|
| Reduction tower: | 137 m high – highest building in southern Texas |
| Regional value creation: | around USD 600 million until 2025 |

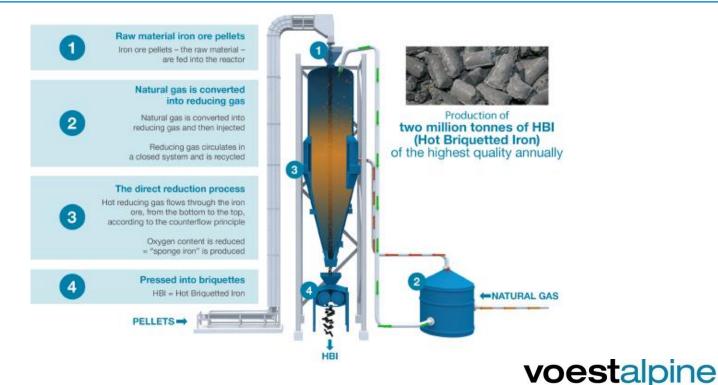




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Direct reduction plant in Texas Process based on environmentally friendly natural gas



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Direct reduction plant in Texas

Environmental benchmark and bridging technology for the future

Environmental protection is a top priority

- Seawater used for cooling and process water → conservation of freshwater resources
- Innovative logistics concept with return loads \rightarrow avoidance of empty trips
- Completely closed warehouse for iron ore pellets → minimal dust emissions

Utilization of natural gas instead of coke/coal -> bridge to future technologies

- Group-wide CO₂ reduction of around 5 percent by utilizing HBI
- Long-term goal: de-carbonization of steel production
 - Step-by-step transition from coal via natural gas (direct reduction plant) to utilization of CO₂-neutral hydrogen in the long term
 - → Future potential: use of "green" hydrogen instead of natural gas in the HBI plant
 - Production of hydrogen is a focal point of research activities (pilot facility in Linz)







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Long-term scenario

Hydrogen for lower CO₂ emissions in steel production

Developing direct reduction further

Current status: direct reduction of iron ore into HBI (sponge iron) using natural gas

- Prospects for the future: when sufficiently available, in future hydrogen will replace natural gas as reducing gas
- Next stage in development: using the HBI produced in this way in the electric arc furnace powered with electricity generated by renewables (in place of the blast furnace/LD steelmaking route)
- Long-term scenario (after 2035): blast furnace route also based on hydrogen instead of coke/coal

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