Stewardship. Integrity. Commitment.



## Energy Policy Issues Mining & Metals Industry

#### Chris C. Neaville Asset Development Director

MECC Conference Overland Park, Kansas Wednesday, May 17, 2017







### The Doe Run Company: Who We Are

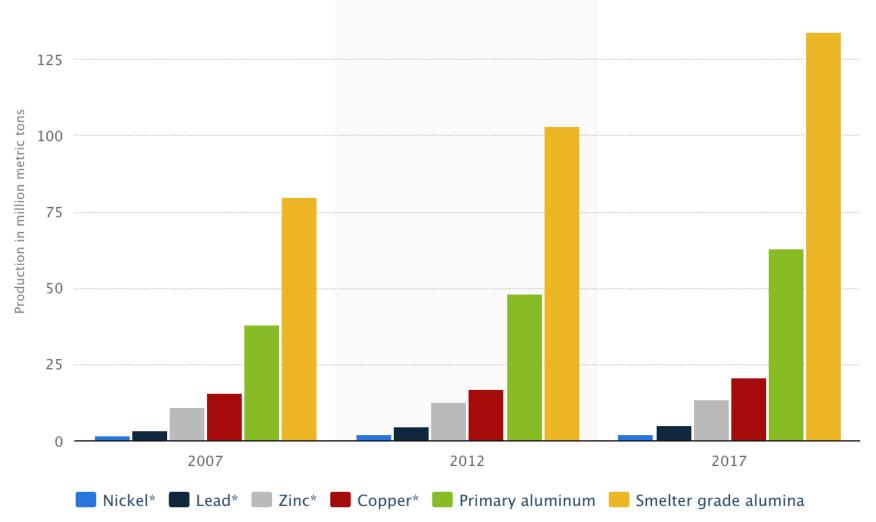
- Metals & mining company (lead, zinc, & copper)
- Recycle ~13.5 million batteries/year
- \$1 billion annual economic impact in Missouri
- 150 year history





### **Global Metal Production Trends**

150

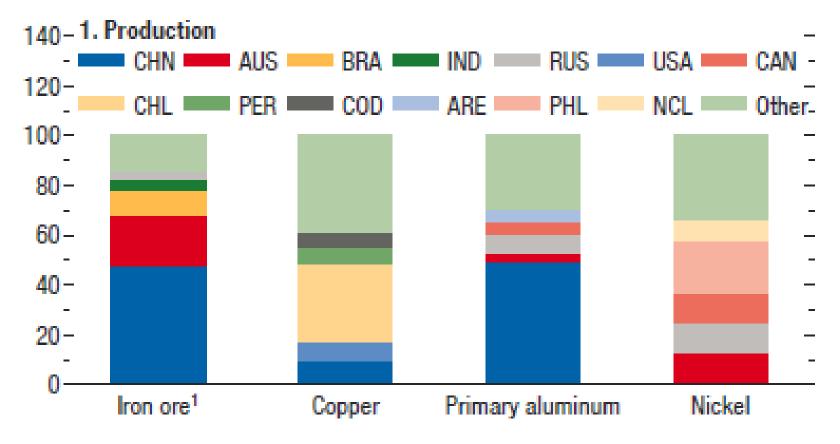


Statista, 2017



## **US Metal Production Compared to Competition**

#### World Metal Production and Consumption by Country, 2014



IMF, 2015



## **Decline of US Metal Production**

#### Remaining primary smelters in the US:

- Aluminum 6 (Noranda New Madrid closed 2016)
- **Copper** 2
- **Zinc** 1
- Lead 0 (Doe Run Herculaneum closed 2013)

#### **Global Competition Factors:**

- Labor Costs
- Environmental Regulation:
  - Air, Water, Waste & CERCLA
- Energy Costs:
  - Electricity rates have increased 40% since 2008
  - Largest consumer in Ameren system 65+ megawatts



## **Energy Initiatives**

- Legislative Missouri Senate Bill 190
  - Economic Retention Rate
  - Economic Development Rate
- Energy Efficiency
- Fuel Switching Options:
  - Propane to Natural Gas
  - Diesel to Electric Mining Equipment
  - Diesel to CNG for trucking
- Self Generation: solar & natural gas
- Microgrid Research: S&T Microgrid Consortium



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# **Questions?**

