

CIRCULAR VS. EXTRACTIVE STEELMAKING

SCAN TO LEARN MORE



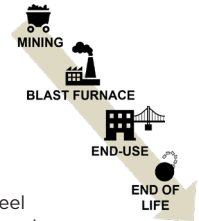
CIRCULAR

- CENTRIA sources 100% of its steel from Electric Arc Furnaces (EAF)
- EAFs melt up to 100% recycled scrap metal to make new steel
- EAFs are the lowest carbon emitting steelmaking technology available at scale
- Total recycled content pct. depends on product and grade EAFs account for >70% of steel made in the US today, but only ~29% globally



EXTRACTIVE

- 'Traditional' steelmaking using iron ore, coal/coke and limestone
- Coking coal and iron ore first make pig iron in a BF, then converted to steel in a Blast Furnace-Basic Oxygen Furnace (BOF)
- Accounts for ~30% of steel made in US, but more than two-thirds of all steel globally
- ~90% of China's 1.4 billion tons of steel production is BF-BOF steel
- BF-BOF steelmaking can be up to **3 TIMES** more GHG intensive than Nucor's EAFs
- Most steel GHGs are ironmaking-related





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