

The Economics of Recycling

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Governor's Recycling Summit







Cascade Engineering likes to achieve its goals by finding something good to do, and making it good business.

Fred Keller
Founder & CEO





Cascade Engineering

Founded in 1973 by Fred Keller Headquartered in Grand Rapids, MI

Markets

- Automotive
- Commercial Truck & Bus
- Compounded Polymers
- Furniture
- Material Handling
- RFID Systems
- Renewable Energy
- Solid Waste & Recycling
- Water Filtration















We are a Triple Bottom Line company. Our success is not only defined by monetary gain but also on the positive impact we make on society and the environment.

Since 2003 we have produced our annual TBL report that quantifies our progress in these three key areas:

People – Social

Planet – Environmental

Profit – Financial





Circular Economy

As an engineering manufacturer, Cascade values our role as part of the circular economy and we have a commitment to continuously improving our products and processes in an effort to minimize our impact and extend our product lifecycles.

- Cradle to Cradle products
- LEED Certified buildings
- Zero waste-to-landfill
- Reduced energy consumption
- Use of recycled materials





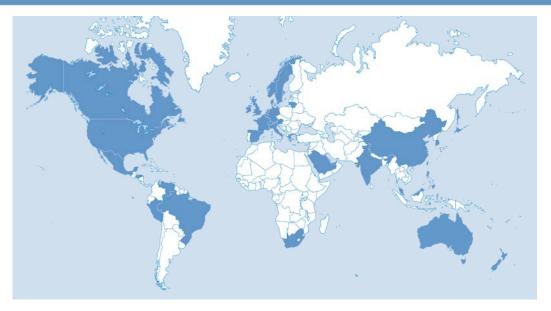
Commitment to Recycling

Business CAN positively impact our environment. A key pillar of our TBL philosophy is making a positive impact for a sustainable planet. Those benefits are extended to our customers.





ISRI: Voice of the Recycling Industry



1,600+

Member companies

3,000+

Recycling facilities worldwide

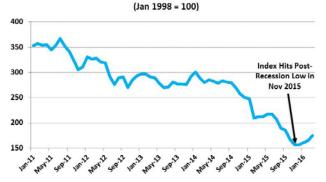
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Countries

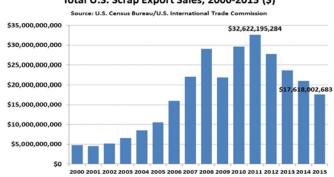


Institute of Scrap Recycling Industries, Inc.

ISRI Index: Jan 2011 - Mar 2016



Total U.S. Scrap Export Sales, 2000-2015 (\$)

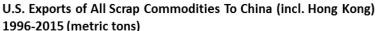


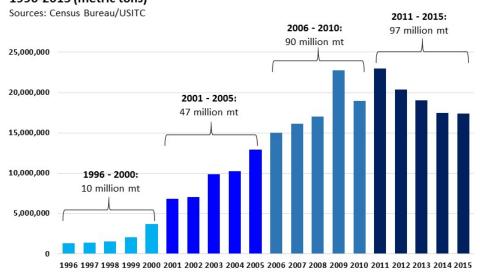
Monthly Change in U.S. Industrial Production Jan 2014-Mar 2016 (%)





China Still Driving Global Commodity Markets





But excess commodity production in China, falling Chinese industrial prices, decelerating Chinese growth and slowing Chinese scrap import demand in recent years contributed to global deflationary pressure and weaker global scrap market conditions.

- Few expecting a V-shaped recovery, but soft prices have impacts for supply (e.g. obsolete scrap supply) that can set a floor for the market
- Sentiment recently better towards commodities, but most analysts still expect prices to remain lower for longer
- Need for cutbacks in excess global primary commodity capacity and production/draw down stocks in order to rebalance commodity markets



- Need for U.S. exporters to develop new markets
- Focus on safety, operational efficiency, quality and product diversification
- Targeted investment
- Cyclical, evolving industry with long-term positive trends
- Opportunities for ISRI and the industry to educate policymakers and the public
- Scrap recyclers are resilient!