Economic & Environmental Benefits of Paper Recycling

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About AF&PA

• Advances a sustainable pulp, paper, packaging and wood products manufacturing industry

• Fact-based public policy and marketplace advocacy
AF&PA’s 2020 Sustainability Goals

1. Paper Recovery  Exceed 70%
2. Energy Efficiency  Increase purchased energy efficiency by at least 10%
3. GHG Emissions  Reduce intensity by at least 15%
4. Forestry  Increase certified fiber procurement
5. Safety  Reduce incidence rate by 25%
6. Water  Reduce use in mills by 12%

- Overall: 65.4% (2014)
- Exceed 60% recovery past 6 years
- True environmental success story
- On track to meet Better Practices Better Planet 2020 goal
Historical Paper Market Trends

U.S. Paper Recovery Rate 1990-2014

Source: AF&PA
Paper and paper-based packaging are...

• Derived from sustainably managed forests
• Renewable
• Recyclable
Recovered Fiber Share of Total Fiber Source (2007-2014)
U.S. Recovered Paper Consumption by Major Grade 2004-2015 (million short tons)
Historical Paper Market Trends

U.S. Consumption of Recovered Paper by End Use 2004-2014

Thousands of Short Tons

- Paperboard
- Paper
- Construction Paper & Board
- Other
Fiber Used in Manufacturing

- Demand-driven
- New or Recycled Fiber:
  - Best fiber for product requirements
- Meets customer needs:
  - Availability
  - Cost
  - Functionality
  - Aesthetics
Environmental Benefits

Paper Recycling
- Saves landfill space
- Avoids landfill GHG emissions
- Energy use varies
  - Integrated mill
    - More total energy
    - Mostly biomass
  - Recycled mill
    - Less total energy
    - More purchased electricity
Recovered Fiber Markets

- Complex, dynamic, efficient
- Global demand
- Collection commitment by many parties
  - Municipalities
  - Paper manufacturers
  - Recycling companies
  - Schools
  - Businesses
  - Millions of Americans
- Not served by regulations that restrict market-based collection or use
Global Demand for Recovered Paper (2015-2029)

Global Recovered Fiber Demand vs. Paper and Paperboard Output

Source: RISI
Opportunities for Increased Recovery

- Grades
  - Paperboard
  - Office papers

- Sources
  - Office buildings
  - Smaller commercial/institutional
  - Exurban communities

- New initiatives
- Education
Government Policy Challenges

- Mixed-waste processing systems
- Extended Producer Responsibility
- Recycled content mandates
“Best Practices” for Sustaining Recovered Paper Markets

- Free marketplace
  - Collection
  - Utilization
- System designed to meet end user requirements
Thank You

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