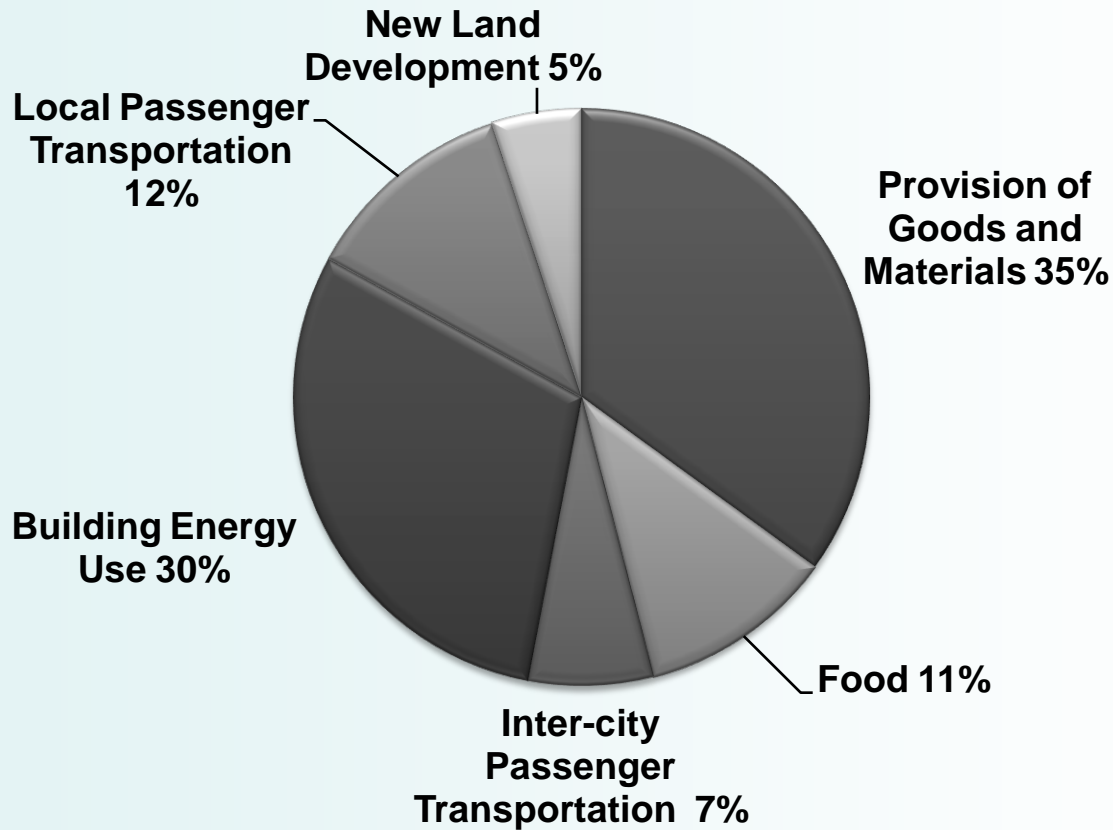


Beyond Waste: The Next 50%

- **IWG FOCUS:**
 - Significantly expand source reduction, reuse, recycling and composting, building on current successes, targeting products with the largest GHG reduction potential.
- **Addresses 2007 CAT Recommendation:**
 - Reduce waste and Washington's emissions of GHGs through improved product choices and resource stewardship

Consumption and GHG Generation

U.S. GHG Emissions Sources - Systems Approach



Source: US EPA
OSWER - 2008

Beyond Waste: The Next 50%

- **Key Recommendations**

- Optimize the collection system for recyclable materials;
- Create a product stewardship program; and
- Provide incentives for organic materials use.

Additional recommendations for future work:

- Environmentally responsible purchasing by state and local governments;
- Working collaboratively with the retail industry to encourage waste reduction and recycling; and
- Stimulating recycled material use by the manufacturing industry*.

Optimize the Collection of Recyclable Materials

- Optimize collection of recyclable materials and products, organic materials, and construction and demolition debris to meet a new recycling goal of 80% by 2020.
- Require separation of solid wastes by residential generators into at least three categories; recyclables, organics and wastes and participation in universal waste collection services.
- Require separation of solid waste by commercial generators into at least three categories
- Concerns:
 - Potential revenue losses from reduced waste generation – must decouple.
 - Collection of recyclable materials collected from commercial generators.

Product Stewardship Framework Legislation

- Establish a statute making producers responsible for the impacts to human health and the natural environment that result from the production, use, and end-of-life management of products.
 - The greater the ability a party has to influence the life cycle of a product, the greater the degree of that party's responsibility.
 - From an environmental perspective it combines the concepts of “sustainable production” and “zero waste.”
 - Can address GHG generation throughout the supply chain.
- Stand-alone draft for mercury-containing lighting was also included.

Market Development for Diverted Organics

Provide end uses for organics that have been diverted from the waste stream

- Encourage anaerobic digestion and land application of organics by providing/identifying financial incentives - feed in tariffs and wheeling provisions.
- Allow all recycled organics to be used in municipal projects.
- Encourage agricultural use of organic products with subsidies to farmers.
- Promote use of existing carbon markets to partially subsidize organics diversions.

Environmentally Responsible Purchasing

- Establish an intergovernmental work group to recommend revisions to purchasing laws, regulations and practices to incorporate **environmental performance** as a fourth primary purchasing criteria; the others being to price, availability and physical performance.

Collaborate with Retailers to Reduce Consumer Waste

- Work collaboratively and voluntarily with retailers to establish specific commitments to reduce the carbon foot-print of and waste from products and packaging they sell to consumers. Two likely initial targets are packaging and food waste.
 - The goal is to prevent waste, and thereby reduce GHG emissions, by providing consumers with better information and decreasing product packaging.
 - Waste prevention actions result in greater GHG emission reductions than recycling.
 - At least 50% of household wastes come through retailers.

Stimulating recycled material use by the manufacturing industry

- Create incentives for industry to:
 - Support local use – create local capacity, local jobs
 - Improve quality of materials flow – clean, reliable supply
 - Design for the environment – improve product recyclability, reduce carbon footprint, materials selection, reduce toxicity, etc.
- Incentives might include:
 - Tax incentives / disincentives
 - Industry / Academia collaboration
 - Incubators / Eco-industrial parks
 - Eco-Industrial recruitment
 - Eco-Industrial investment
 - Product stewardship legislation