

Materials Management TAG

*It's 2050, what does material management
look like in a Net Zero GHG Austin?*

Community Climate Plan
Steering Committee Update
September 17, 2014

Materials Management TAG

Steering committee liaisons:

- Kevin Tuerff, EnviroMedia
- Brandi Clark Burton, Austin EcoNetwork

MEMBERS

- Civic groups
- Private landfill operators & haulers
- Large-scale compost operators
- Travis County & City of Austin

Outline

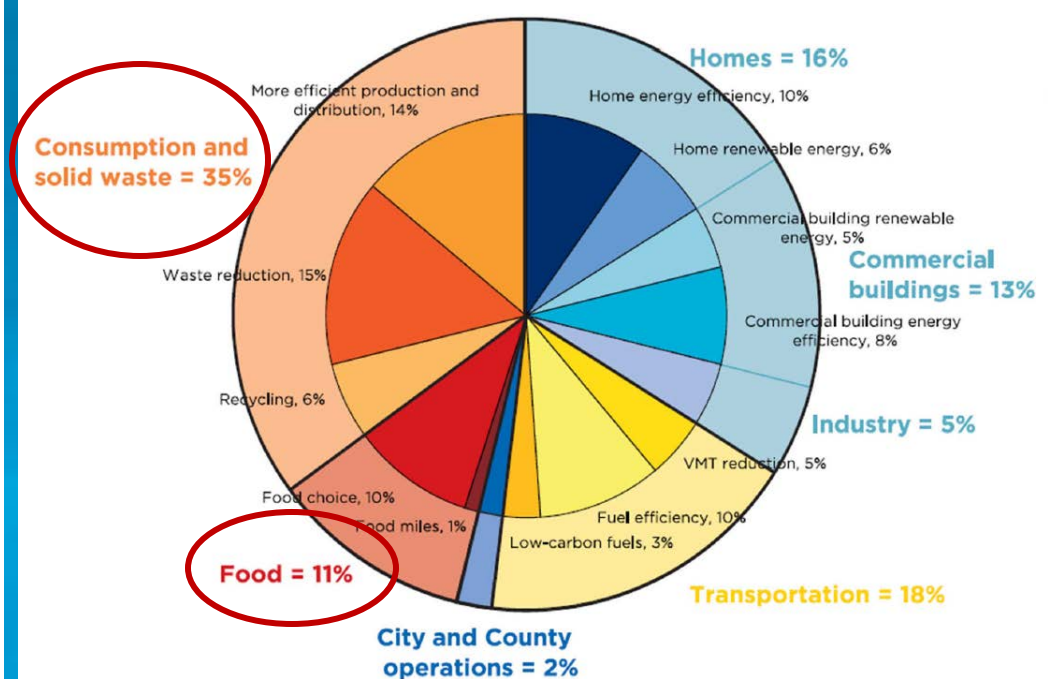
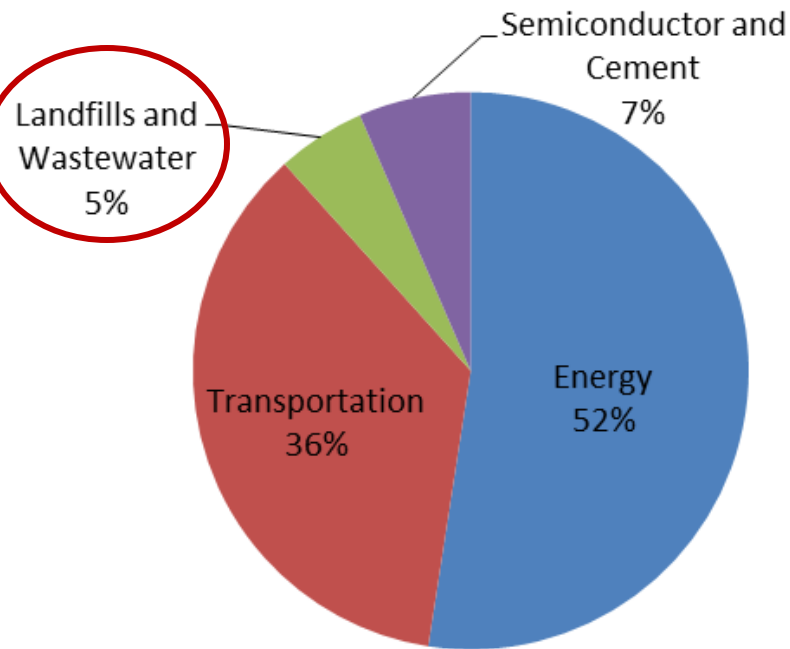
- Net Zero Definition
- TAG Scope
- Briefings, Topics, Issues
- Strategies & Actions
- Next Steps

Local Landfill & WWTP GHG Emissions (mtCO₂e)

Source	2010	2011	2012
Private Landfills	424,700	430,190	496,751
City of Austin Landfill (closed)	9,193	17,785	25,790
Wastewater treatment plants	32,500	32,500	32,500
TOTAL	466,393	480,475	555,041

Materials Management Scope

End-of-Life Emissions vs. Consumption Emissions



TAG Briefings

Other cities' climate plans:

- Expand recycling
- Increase composting
- Reduce/Reuse
- Encourage lower-carbon diets

TAG Briefings

- ARR Master Plan
- Austin Material Flow
- EPA's WARM Model
- Life Cycle Assessments
- Landfill gas management
- Wastewater
 - GHG emissions
 - Decentralized



TAG Exercise

Envision 2050: “Imagine a world ...”

What does a Zero-GHG Austin look like?

- Construction site
- Landfills
- Homes
- Material design
- Lifestyle

Overarching Strategies

How do we get there from here?

- Reduction & Reuse
- Organics Management
- Recycling
- Purchasing
- Methane management

Example Action Categories

- Policies
- Outreach
- Waste prevention
- Collection services
- Buy Recycled
- Local markets
- Extended Producer Responsibility
- Collaborative consumption
- Methane capture

Strategies & Actions Framework

So far:

- Short-term actions
 - Two dozen from ARR Master Plan
- Medium & Long term actions
 - From TAG exercises

More to come

TAG Next steps

- Estimate GHG reductions & other indicators
 - Landfill gas emissions
 - LCA emissions
 - Diversion rates
- Determine
 - Potential costs and benefits
 - Barriers to actions outside City's control
- Research
 - Available and emerging technology

