

# ZWAC Construction & Demolition Recycling Committee Dec. 13, 2016



# AGENDA

1. Call to Order: Introductions
2. Citizen Communication
3. Approval of Minutes
4. New Business
  - a. Deconstruction
  - b. C&D Material Markets
  - c. Qualified Processors
  - d. Austin Energy Green Building
  - e. C&D Ordinance: 1<sup>st</sup> Two Months



## 4.a. Deconstruction

- Kathy Robinson, The Reuse People, Austin
- Kyle Kerrigan, Goodwill of Central Texas



## 4.b. C&D Material Markets





## 4.b. C&D Material Markets

### § 15-6-152 PROJECT DIVERSION RATES.

Beginning Oct. 1, 2020, divert a minimum of 75 percent subject to approval by City Council of the report required in Section 15-6-157(A)



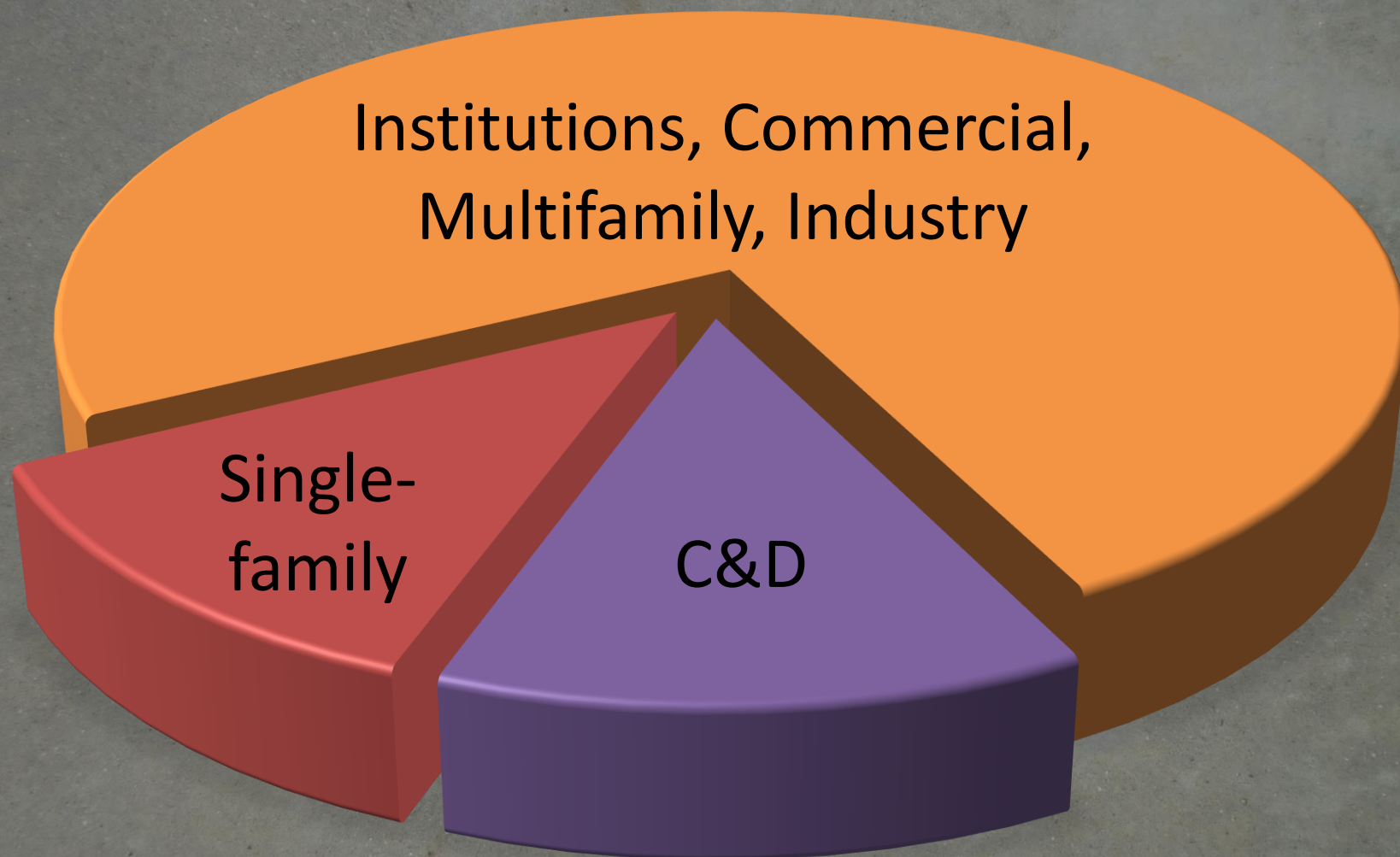
## 4.b. C&D Material Markets

### § 15-6-157 REPORTS.

By 4/2/2020, provide report on:

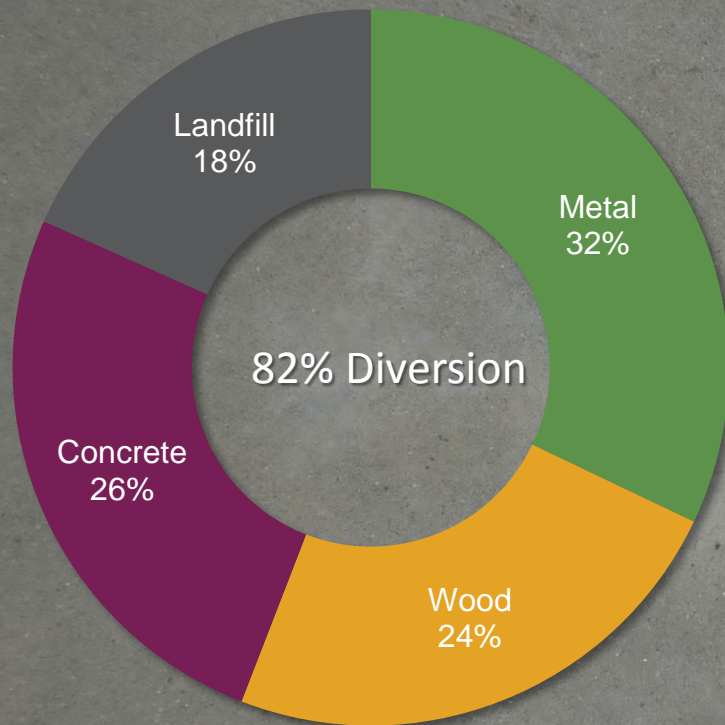
- economic impact on household affordability
- assessment of markets for C&D materials

# Discards



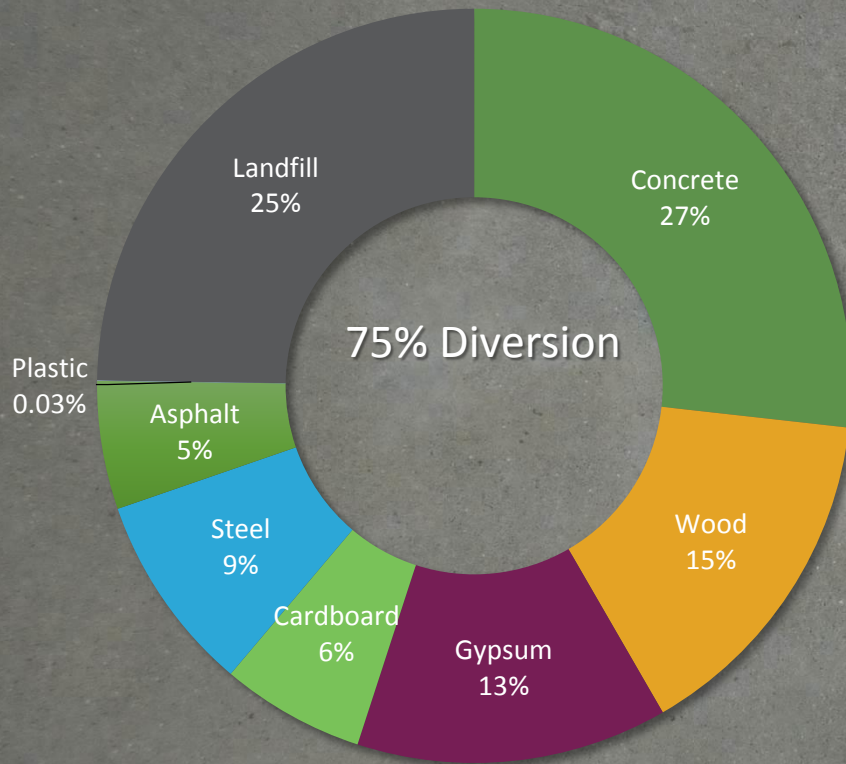


# AEGB Case Study: Starbucks – Mueller



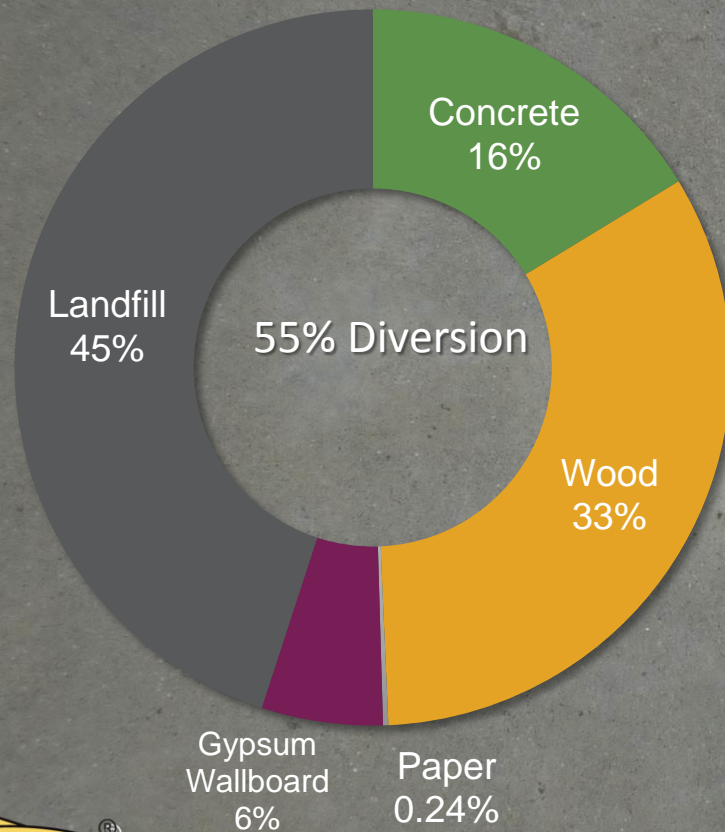


# AEGB Case Study: The W Hotel & Residences



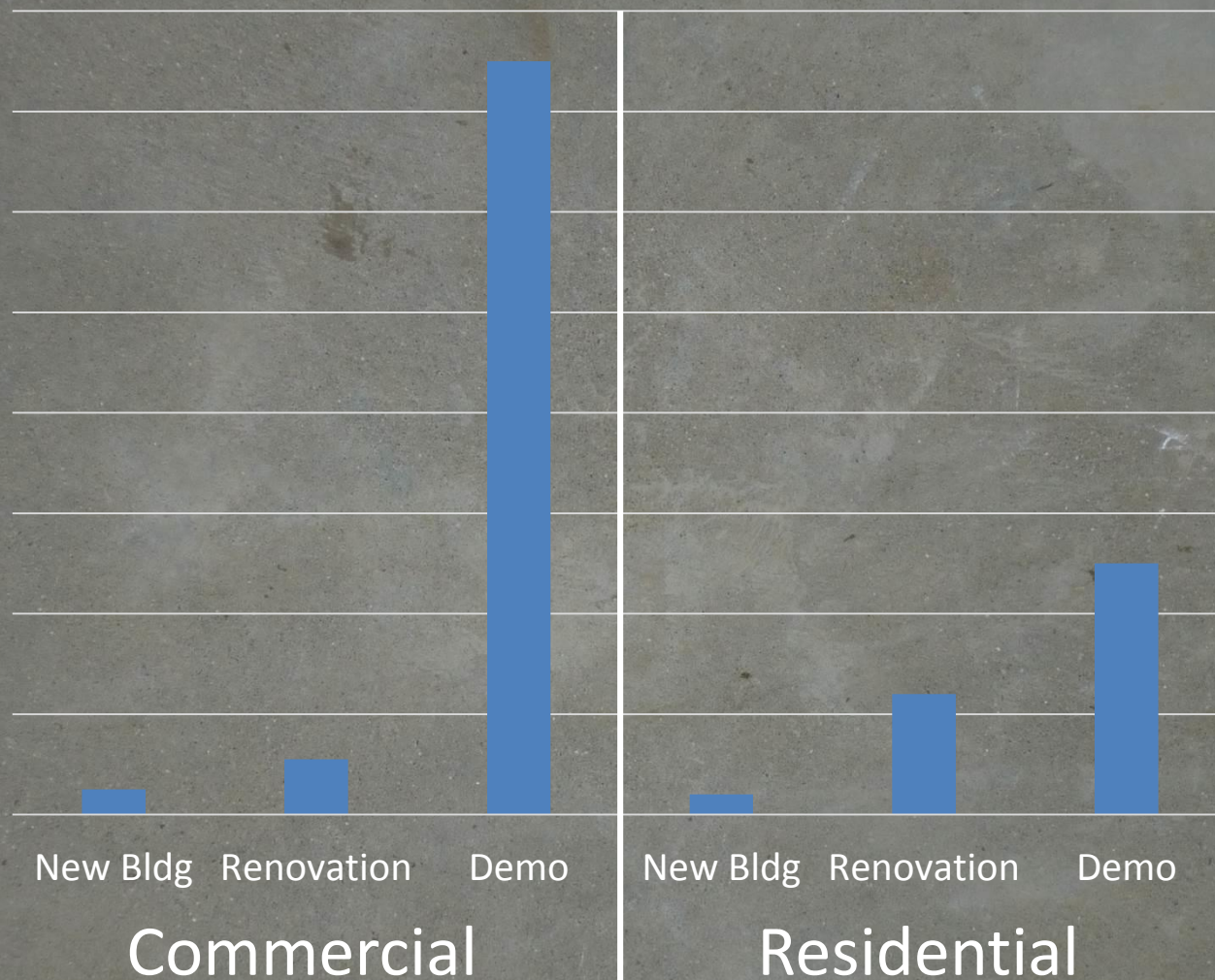


# AEGB Case Study: Mosaic Apartments - Mueller



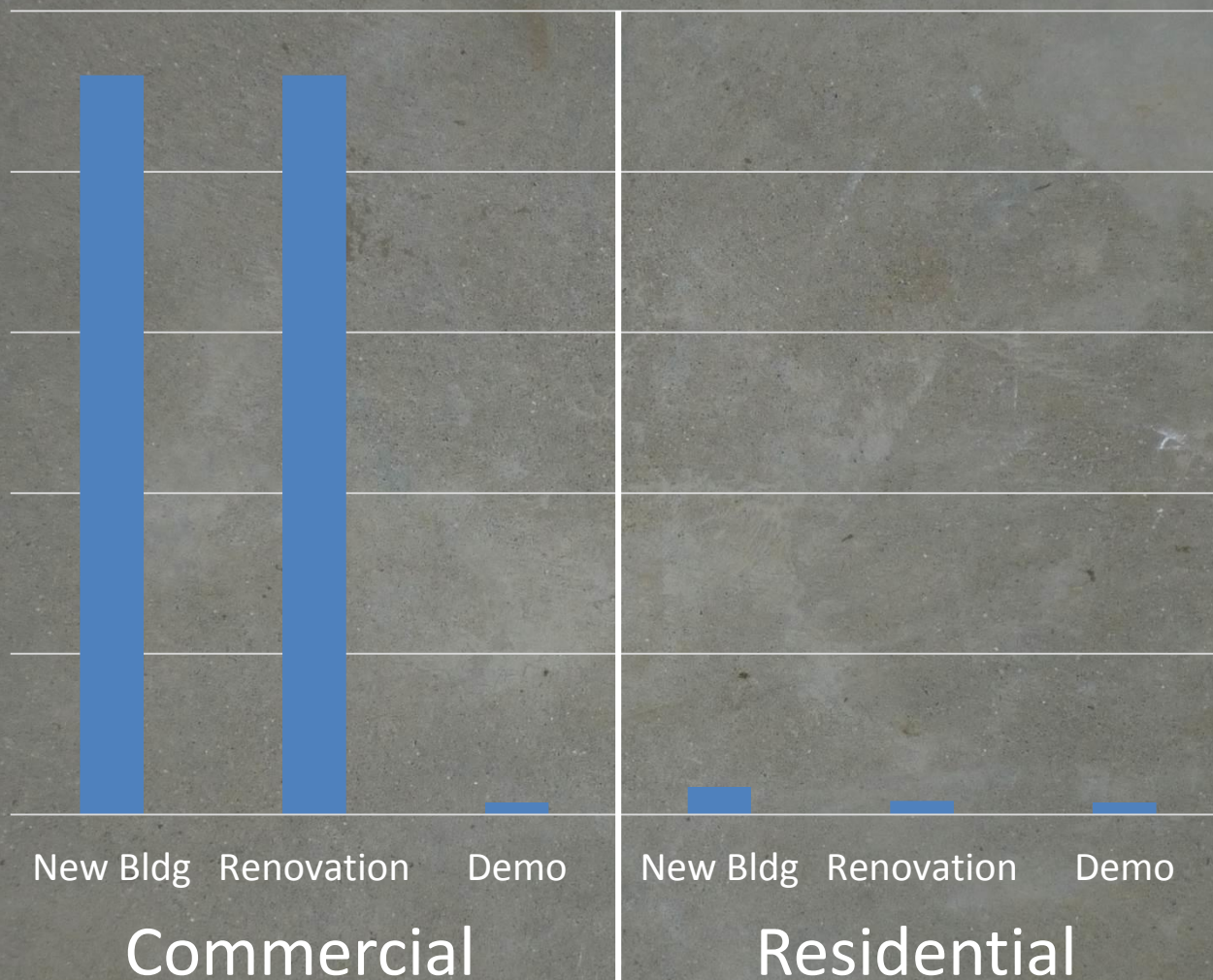


# Generation Rates per Floor Area



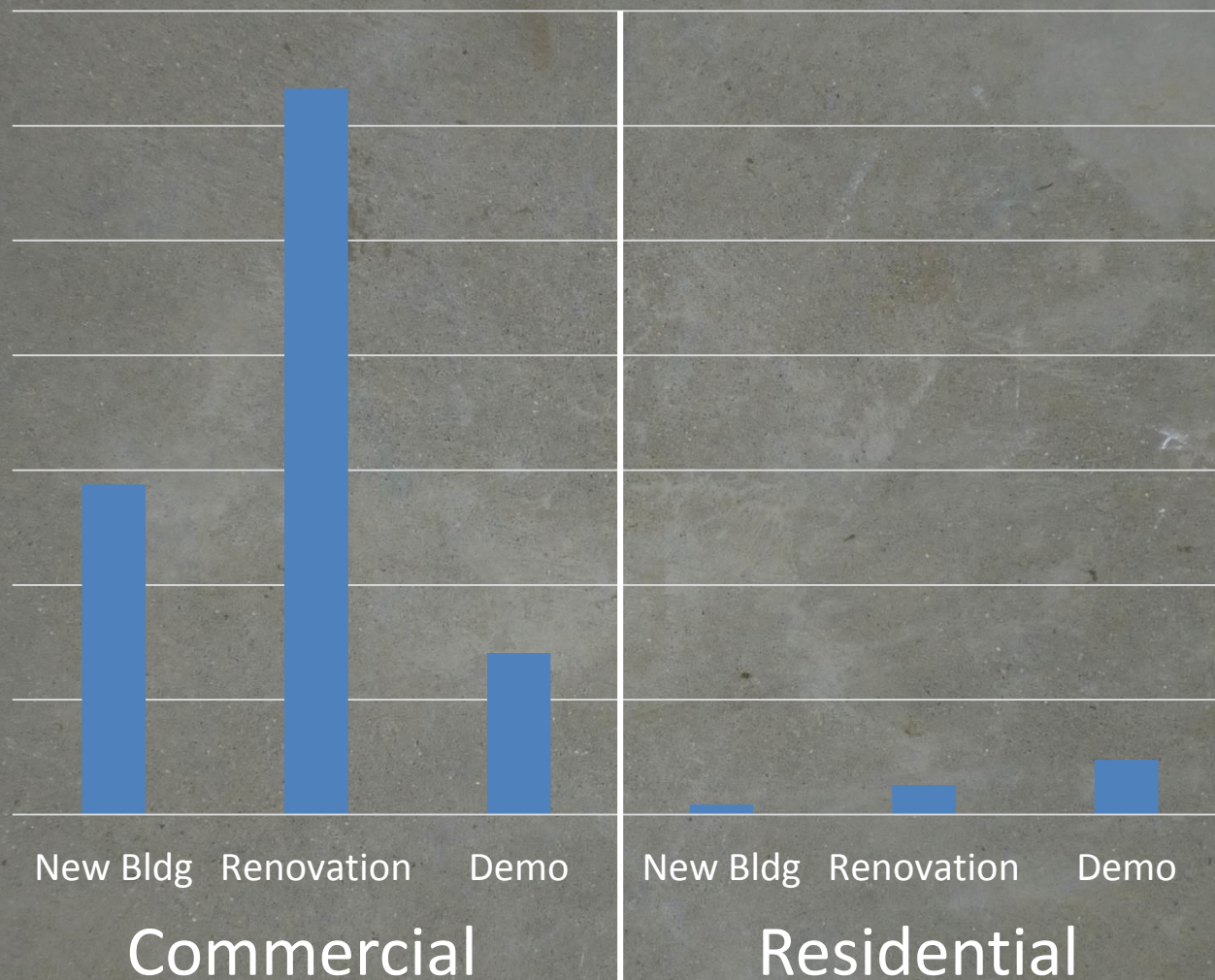


# Total Floor Area by Project Type





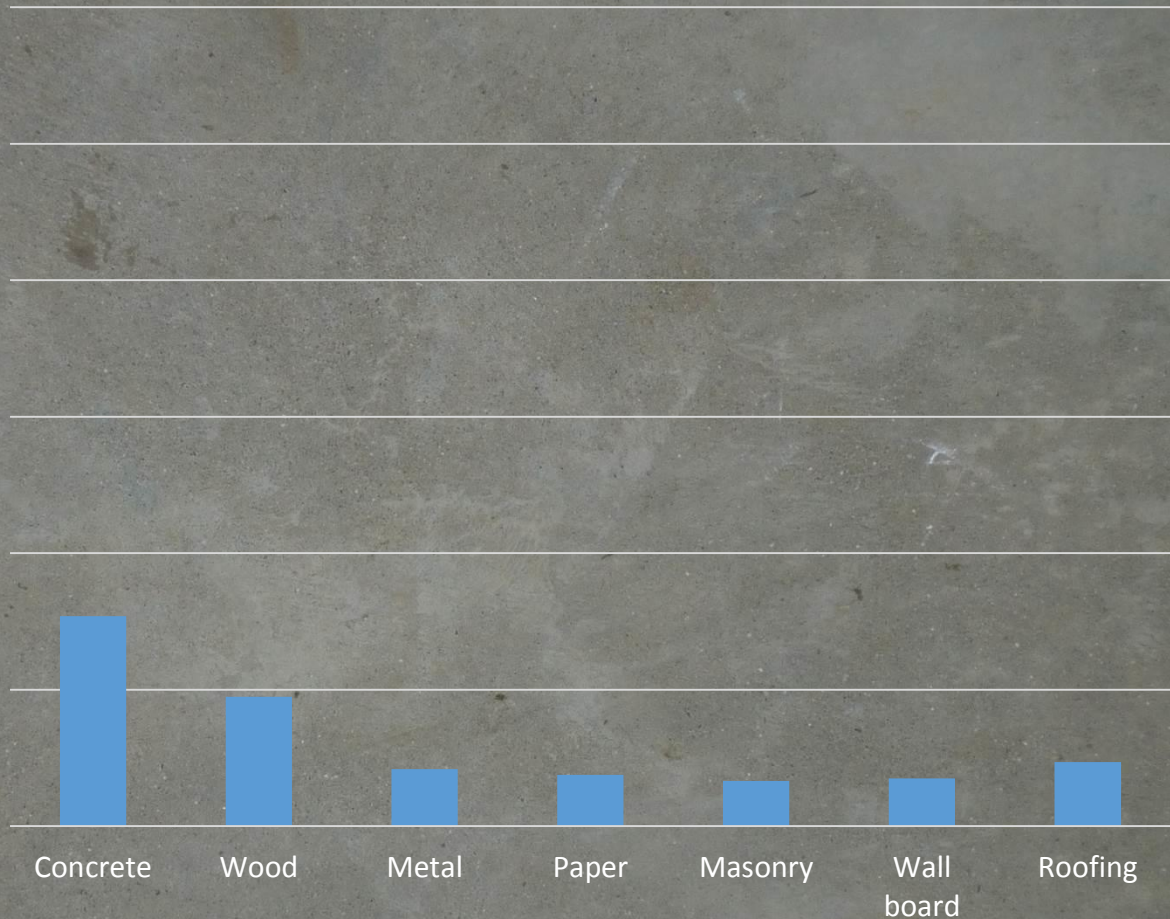
# Total Generation by Project Type





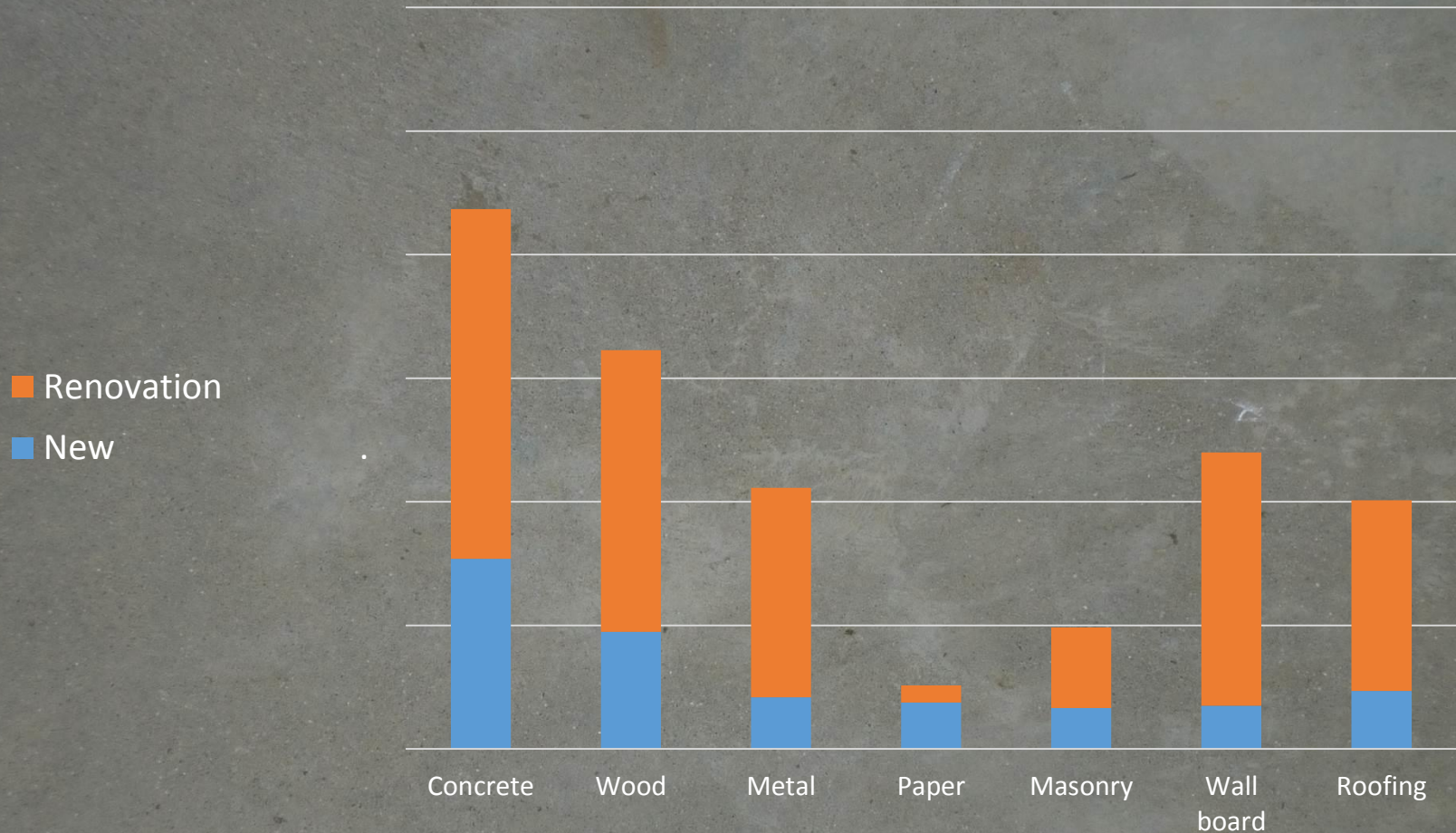
# Relative C&D Material Generation Rates

■ New



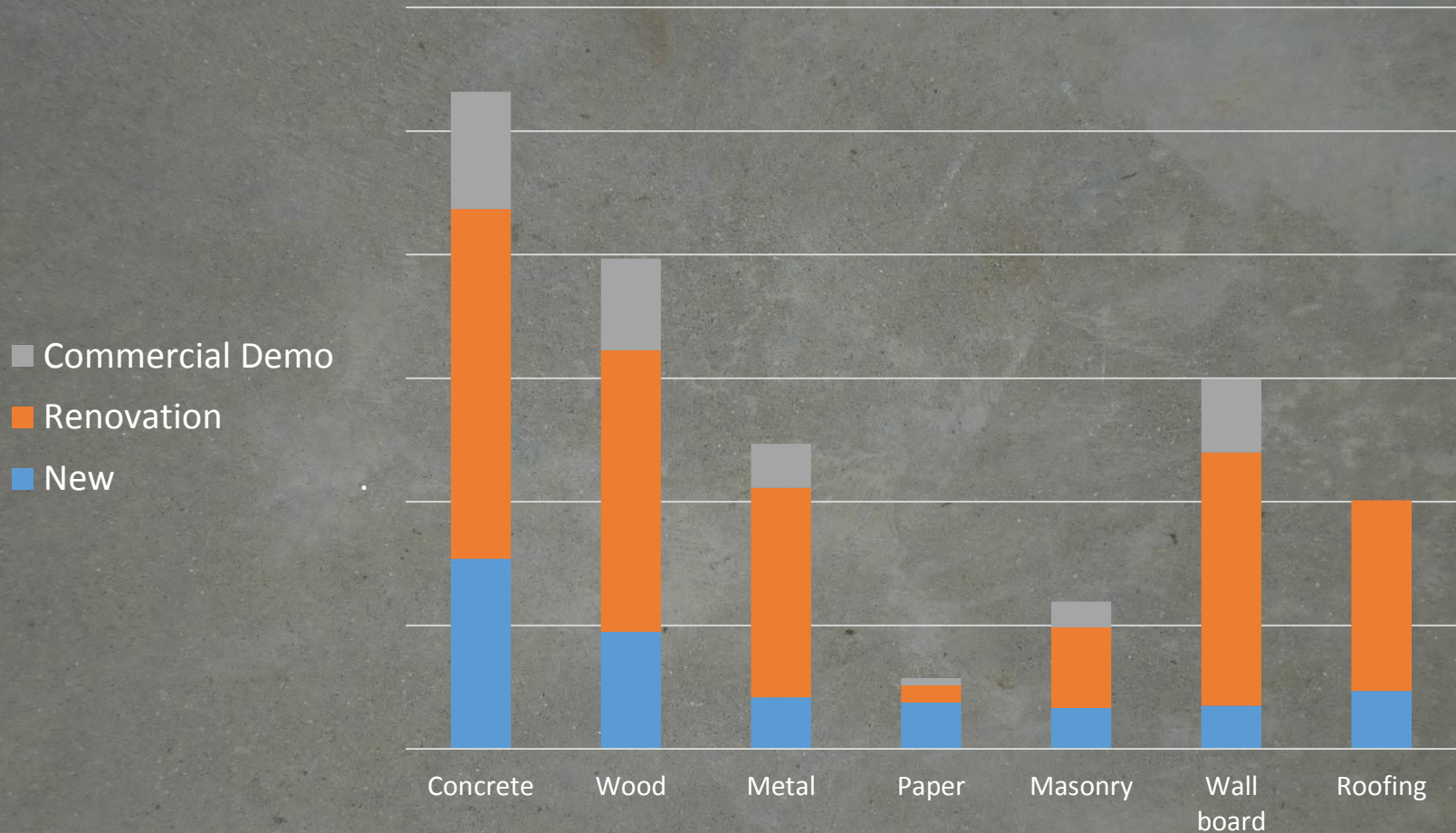


# Relative C&D Material Generation Rates



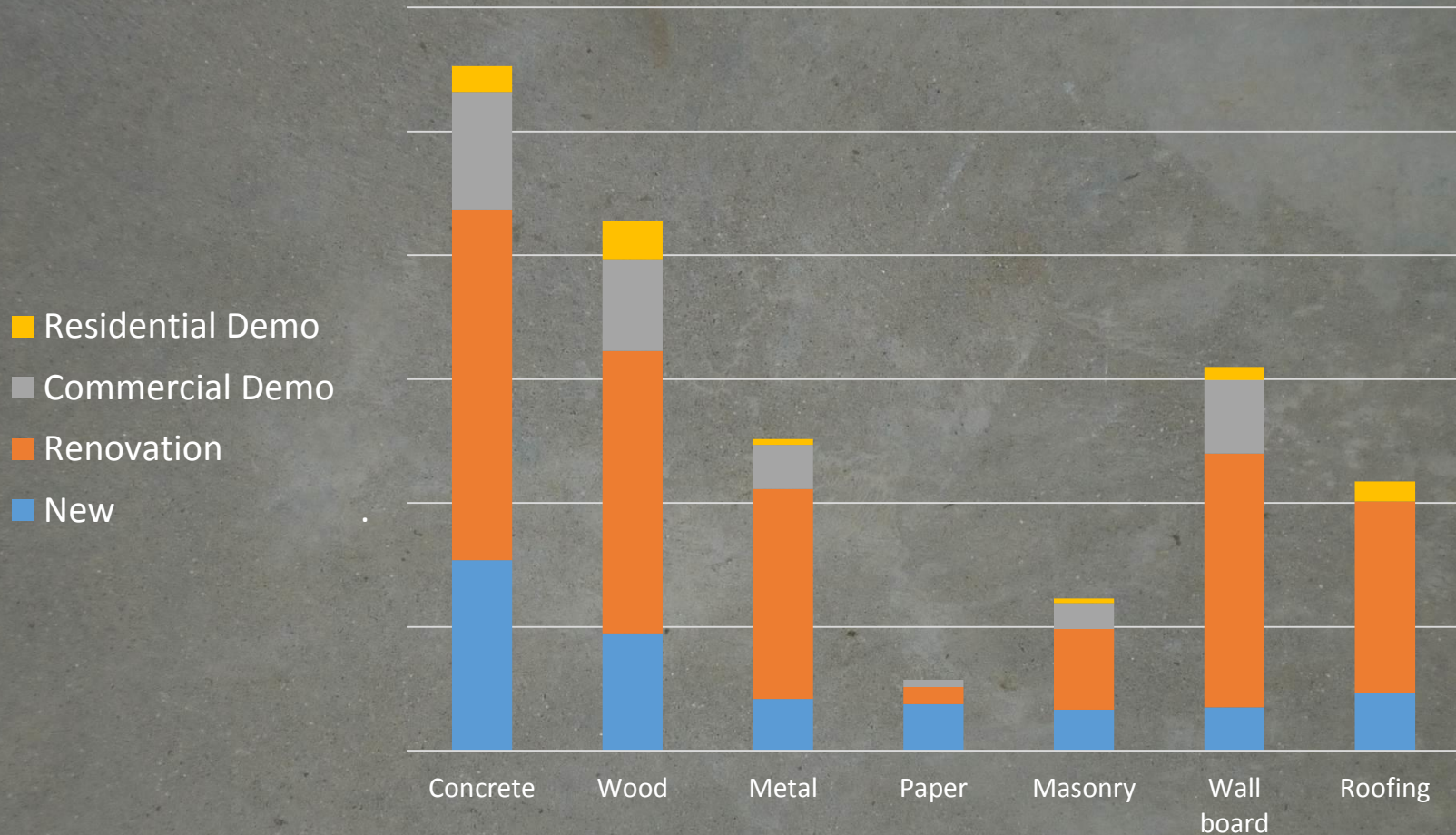


# Relative C&D Material Generation Rates





# Relative C&D Material Generation Rates





## 4.c. Qualified Processors

- § 15-6-155 QUALIFIED PROCESSOR. A permittee may deliver materials to a qualified processor to meet the rates established in Section 15-6-151 (Project Disposal Rates) or Section 15-6-152 (Project Diversion Rates)



# 4.c. Qualified Processors



- Optional
- Commingled C&D processors
- 3<sup>rd</sup>-party verified facility diversion rate
- Simpler processing and reporting



## 4.c. Qualified Processors

Walter Biel, Recon Recycle



# 4.d. Austin Energy Green Building

Sarah Talkington

AEGB Commercial Program







# Austin Energy Green Building Update

## Zero Waste Advisory Commission

Sarah Talkington

December 13, 2016







# Austin Energy Green Building (AEGB)

Mission: To lead the transformation of the building industry to a sustainable future

*Celebrating 25 years of green building in Austin*



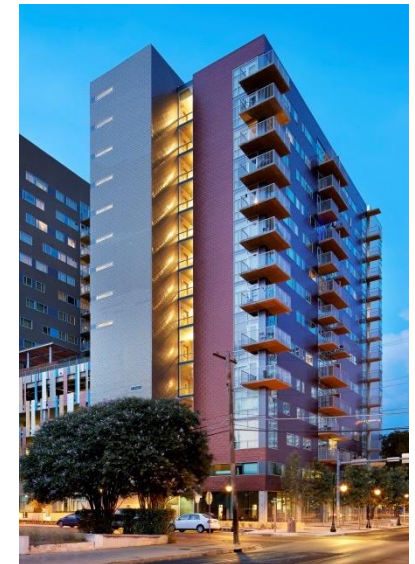
**Single Family**  
Production & Custom



**Multifamily**  
Residential < 7 Stories



**Commercial**







# AEGB Goals

- Delay the need for acquiring additional generation, water treatment plants, waste water treatment plants and landfills
- Contribute to energy security & the success of local Climate Protection Plan
- Safeguard the local environment and air quality and community culture
- Make green building the industry standard in Austin
- Foster green material and job markets







# AEGB Market Penetration

## Rated Underway

### Commercial

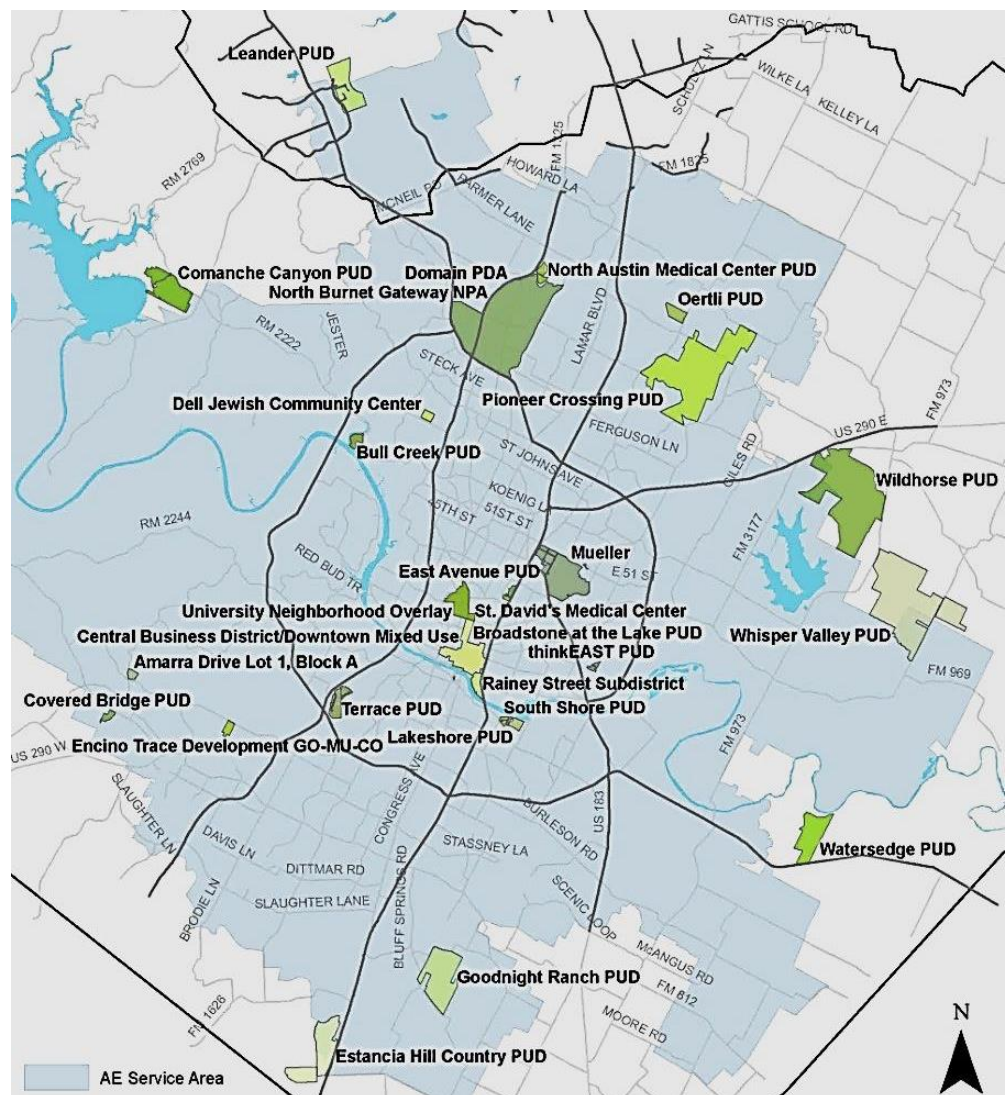
Projects	200	98
Million (sf)	22	17
Res Units	6,500	7,648

### Multifamily

Res Units	15,000	8,235
-----------	--------	-------

### Single Family

Homes	12,840	850
-------	--------	-----





- Required since inception
- 2003: Required 50% diversion
- 2009: LEED Regional Priority Credit
- 2013: At least four materials

## **Zero Waste definition**

- No landfill daily cover
- No incineration





# CWM in SF Rating

- Points awarded since inception in 1991
- 2007: Construction waste management plan required to earn above a 2-star rating
- 2010: Required to earn more than 1-star diversion required







# Related Points

- Operational Recycling: Early Compliance with the URO
- Building ReUse and Whole Building Life Cycle Analysis
- Recycled, Salvaged or Cradle to Cradle Certified Materials
- Brownfields
- IEQ: Construction Indoor Air Quality



Goal: Create a circular economy





# 2016 Update: Commercial & MF Rating

- Required: 50% Diversion OR Hauling Materials to an ARR or RCI Certified Processor
- 1 point: 75% Diversion OR Hauling Materials to an ARR or RCI Certified Processor
- Innovation Point: 90% Diversion OR Hauling Materials to an RCI Certified Processor







# 2016 Update: SF Rating

- Required: Minimum 50% diversion, OR  
Maximum 2.5 lbs/sqft is landfilled, OR  
Remodel and new construction projects under  
5,000 sqft provide an approved CWM plan
- 1 point: Minimum 75% diversion, OR  
Maximum 1.25 lbs/sqft of waste is landfilled





# Contact Us

## City of Austin - Austin Energy Customer Energy Solutions

Sarah.Talkington@austinenergy.com  
512.482.5393

Twitter



@austinenergy

Facebook



facebook.com/austinenergy

# Thank You!



# 4.e. C&D Ordinance

## 1<sup>st</sup> Two Months

### Are you affected by Austin's Construction & Demolition Recycling Ordinance?

Permit applications submitted on or after Oct. 1, 2016 for more than 5,000 square feet of new, added or remodeled floor area must meet certain recycling requirements.

### What does the ordinance require of affected projects?

#### 1. Diversion Requirements – either:

- Divert at least 50% of the construction debris from landfill OR
- Dispose of no more than 2.5 pounds of construction debris per square foot of floor area

#### 2. Reporting Requirement: Contractor must submit a Construction and Demolition (C&D) Recycling Report when requesting Final Inspection

For more information:  
[www.AustinTexas.gov/CD](http://www.AustinTexas.gov/CD)  
[ARRConstructionRecycling@austintexas.gov](mailto:ARRConstructionRecycling@austintexas.gov)



### Construction & Demolition

RECYCLING ORDINANCE BEGINS OCT. 1, 2016



## 4.e. C&D Ordinance: 1<sup>st</sup> 2 Months

Oct. 1 to Dec. 5, 2016	Permit Application	Permits Issued	Final Inspection	Waiver Request
<b>TOTAL</b>	<b>83</b>	<b>42</b>	<b>2</b>	<b>1</b>
<b>New</b>	<b>24</b>	<b>6</b>	<b>-</b>	<b>-</b>
<b>Single Family Houses</b>	20	6	-	-
<b>Two Family Bldgs</b>	4	-	-	-
<b>Commercial Remodel</b>	<b>58</b>	<b>36</b>	<b>2</b>	<b>-</b>
<b>Finish Out</b>	3	2	-	-
<b>Re-Roofing</b>	21	18	1	1
<b>Other</b>	34	16	1	-



# Waiver Request

- Not all projects can meet diversion requirement



- Describe good faith effort to divert
- Explain why Project didn't meet 50%