

# La Crosse County and City of La Crosse Sustainability Indicators - 2016

Sustainable La Crosse Commission  
May 18, 2017

prepared by Anders Olson



# La Crosse County and City of La Crosse Sustainability Indicators - 2016

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6. Land Use

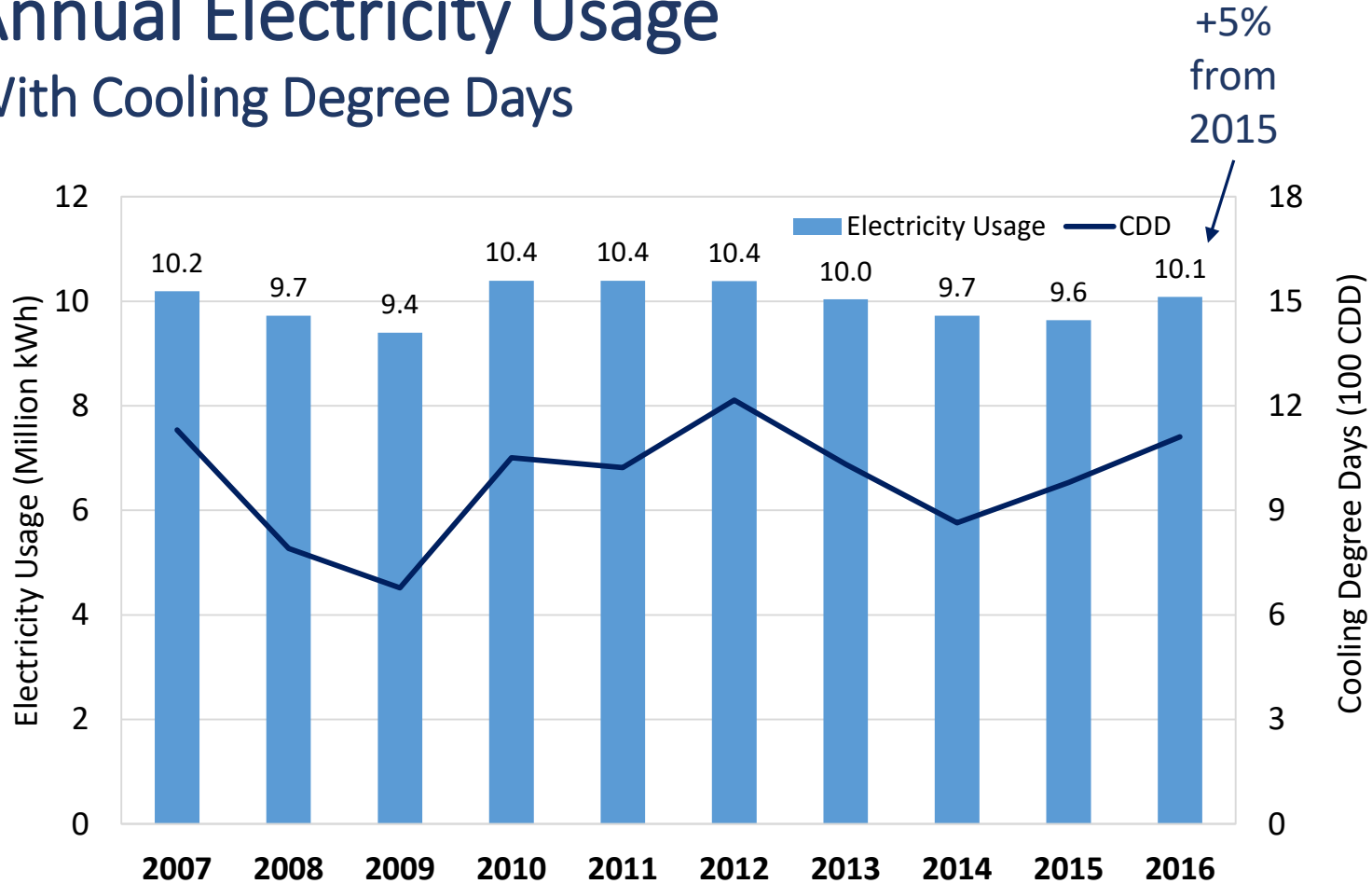
# La Crosse County Government Energy Usage - 2016

- Electricity
- Natural Gas
- Vehicle Fuels

# La Crosse County Government

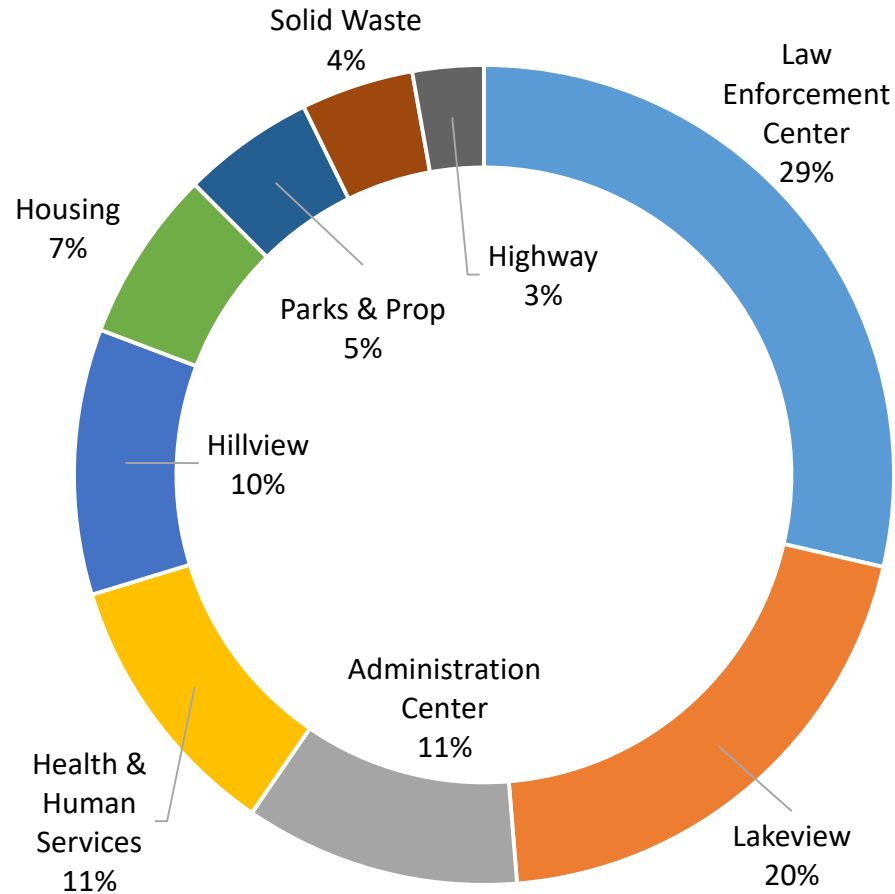
## Annual Electricity Usage

### With Cooling Degree Days



# La Crosse County Government

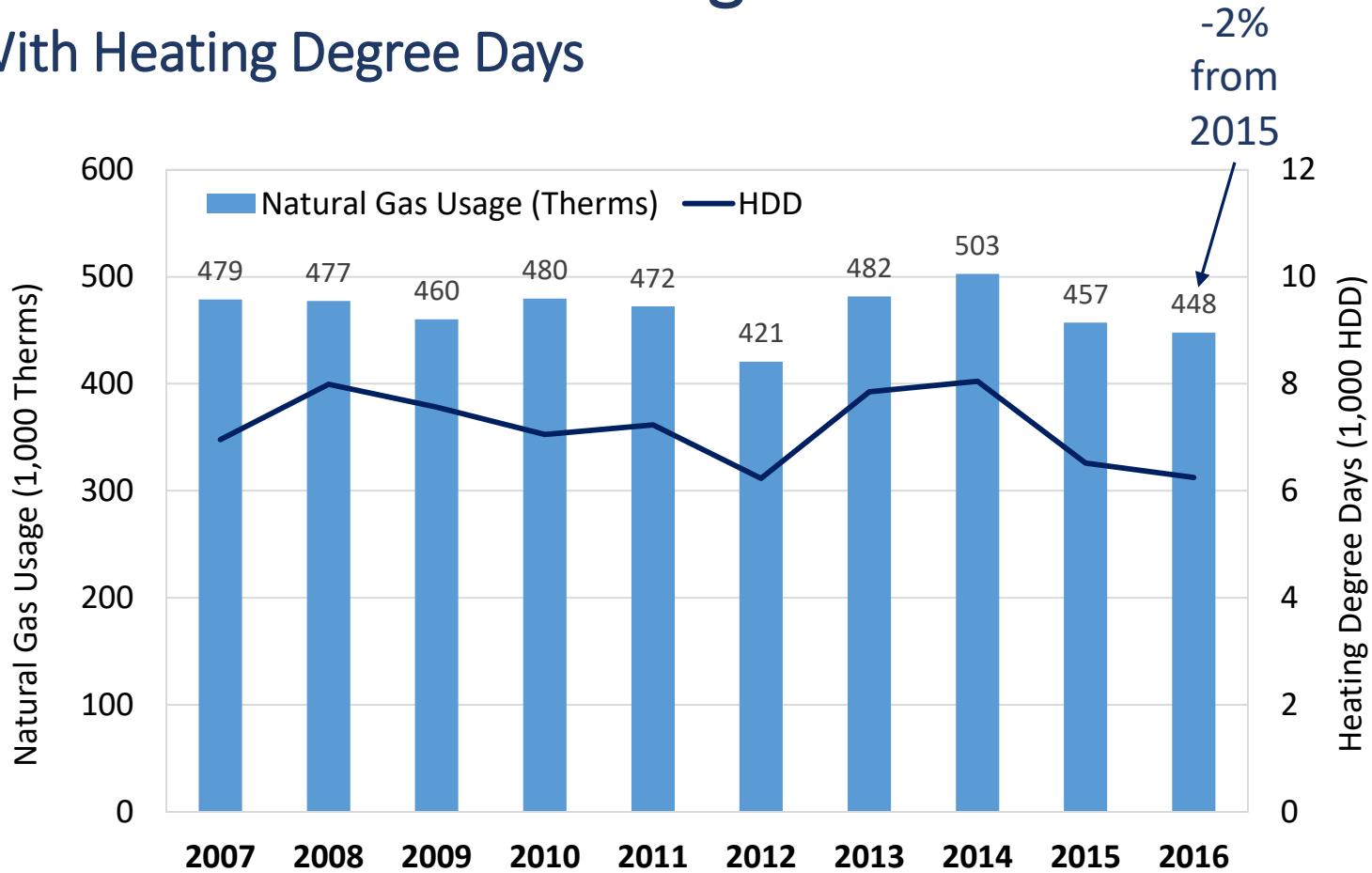
## 2016 Electricity Usage By Dep't / Major Facility



# La Crosse County Government

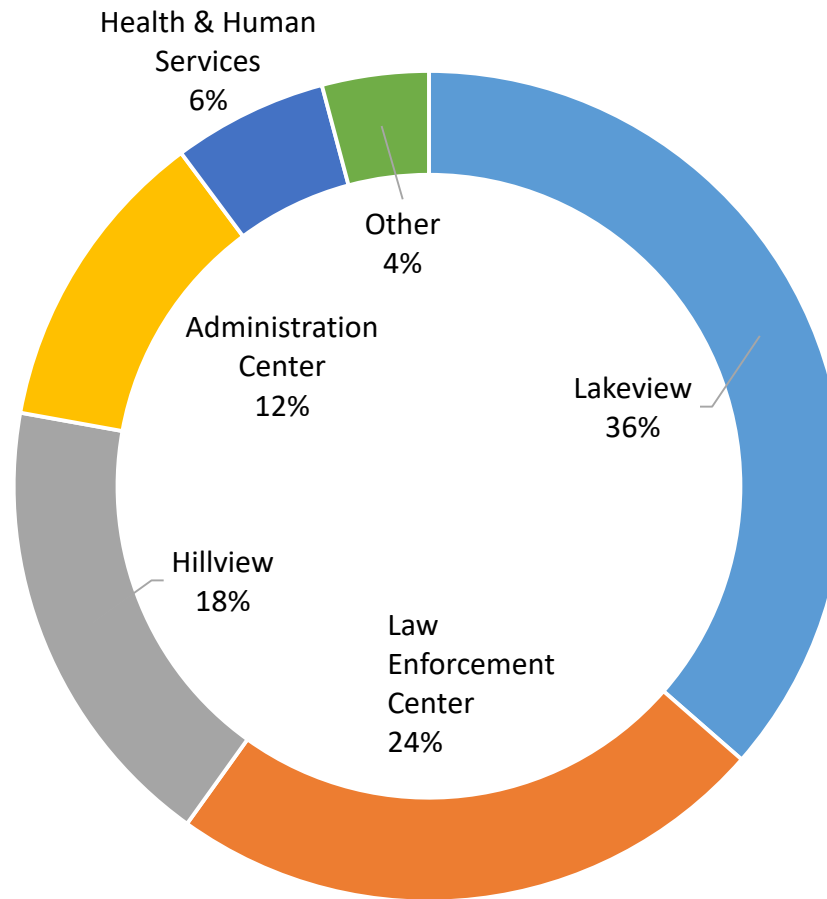
## Annual Natural Gas Usage

### With Heating Degree Days

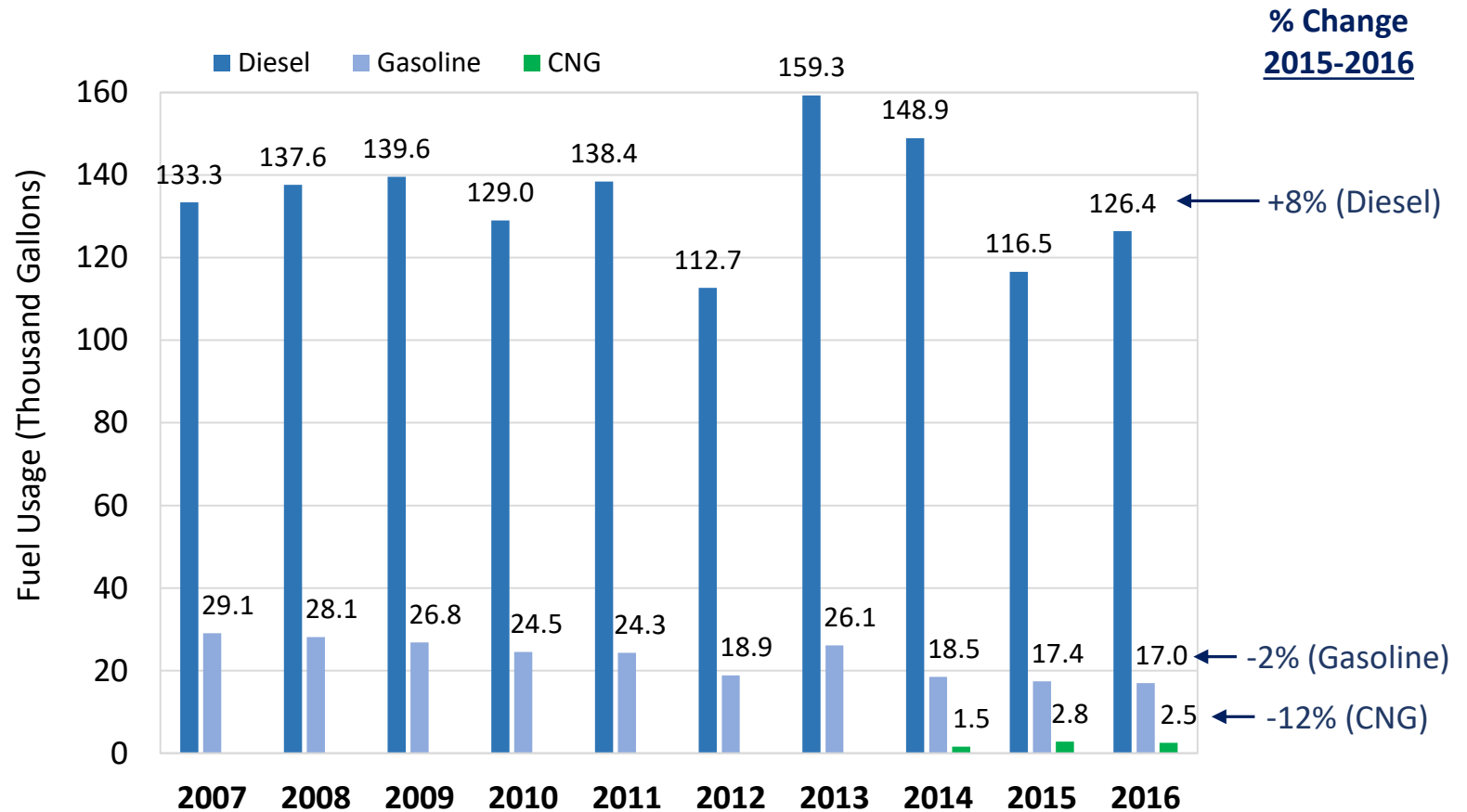


# La Crosse County Government

## 2016 Natural Gas Usage by Facility



# La Crosse County Government Annual Vehicle Fuel Usage

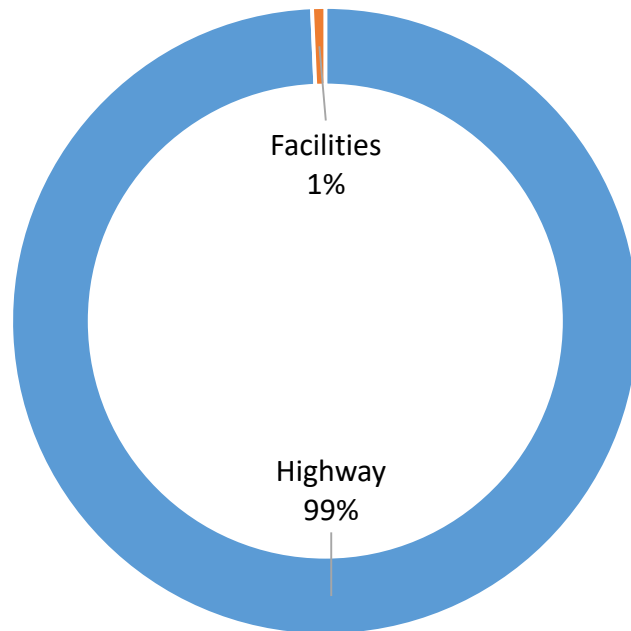




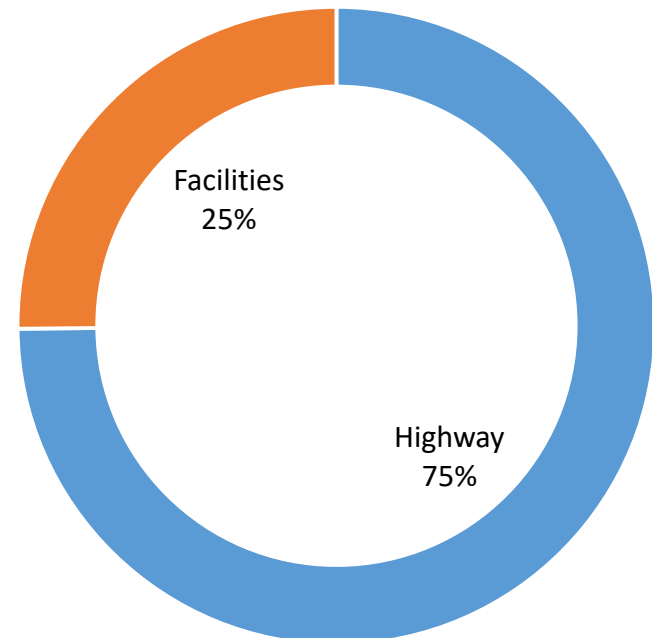
# La Crosse County Government

## 2016 Vehicle Fuel Usage By Department

### Diesel Fuel



### Gasoline



# La Crosse County Government

## Energy Usage - 2016

### Summary

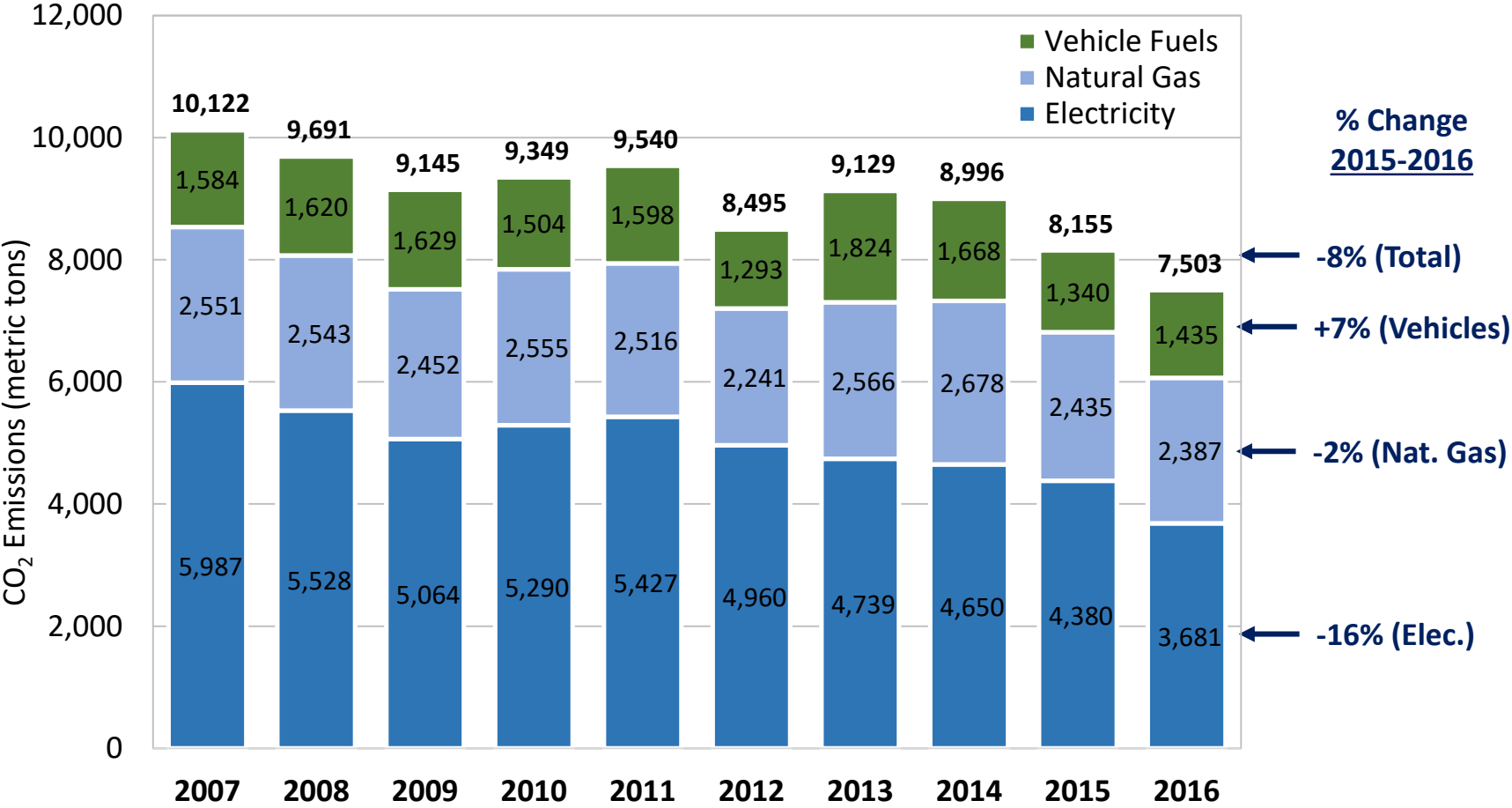
- Electricity: +5% from 2015 (-1% from 2007)
- Natural gas: -2% from 2015 (-6% from 2007)
- Vehicle fuels
  - Diesel: +8% from 2015 (-5% from 2007)
  - Gasoline: -2% from 2015 (-42% from 2007)
  - CNG: -12% from 2015

La Crosse County Government

# CO<sub>2</sub> Emissions From Energy Use - 2016

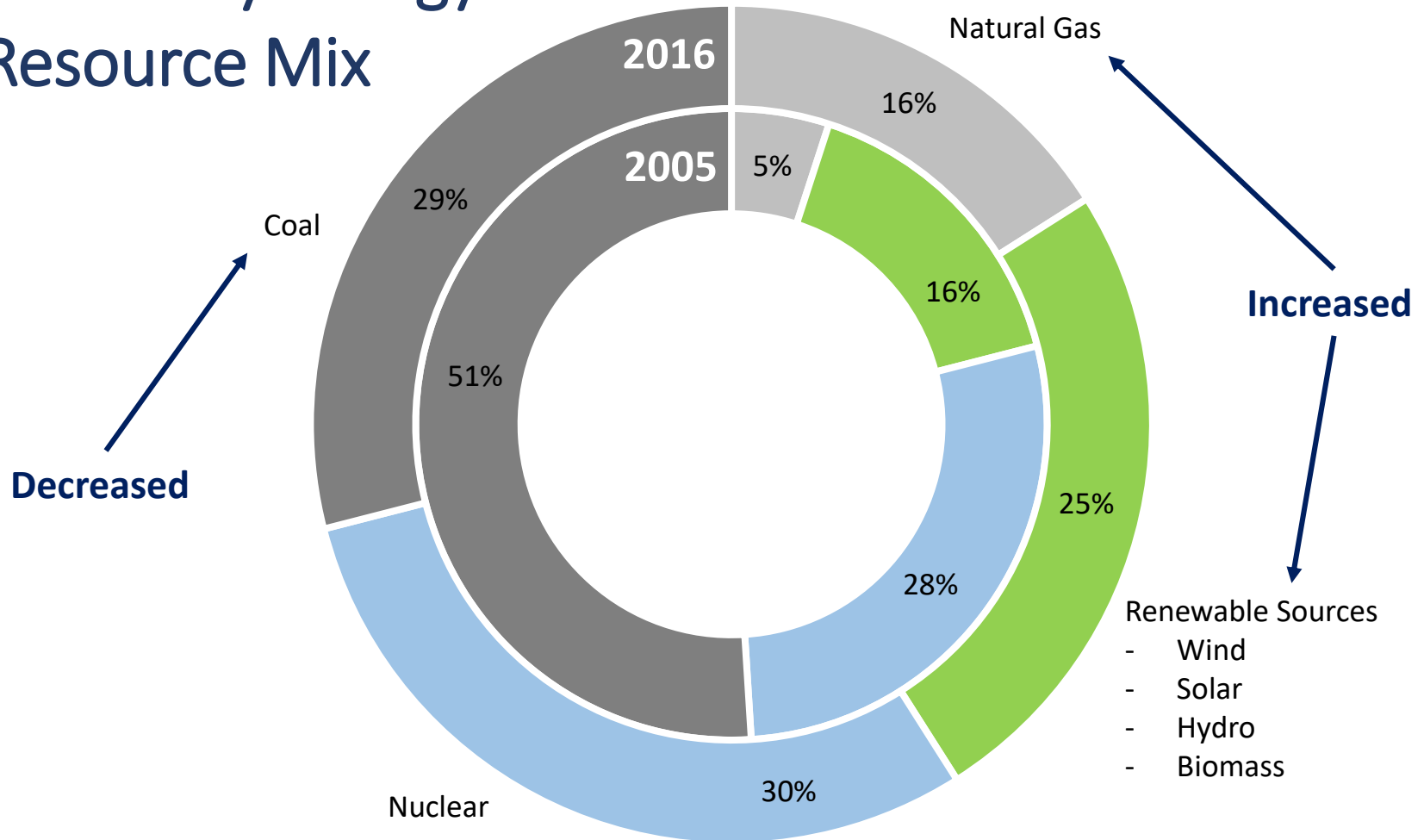
- Electricity
- Natural Gas
- Vehicle Fuels

# La Crosse County Government Annual CO<sub>2</sub> Emissions From Energy Use



# Xcel Energy Upper Midwest Region (MI, MN, ND, SD, WI)

## Electricity Energy Resource Mix



La Crosse County Government

# CO<sub>2</sub> Emissions from Energy Use - 2016

## Summary

- Total emissions decreased again
  - - 8% from 2015
  - - 26% from 2007
- Cleaner electricity played large role

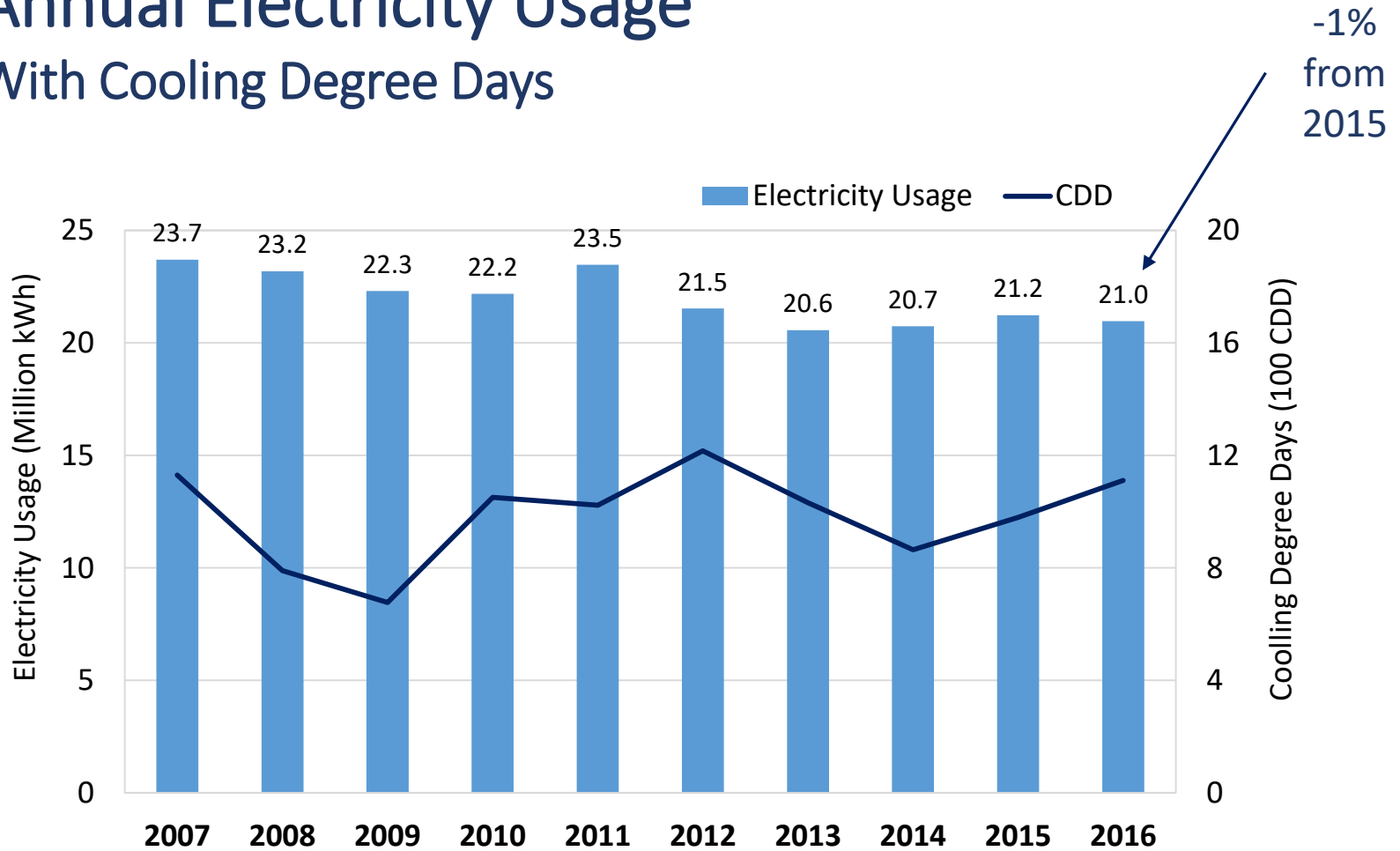
# City of La Crosse Government Energy Usage - 2016

- Electricity
- Natural Gas
- Vehicle Fuels

# City of La Crosse Government

## Annual Electricity Usage

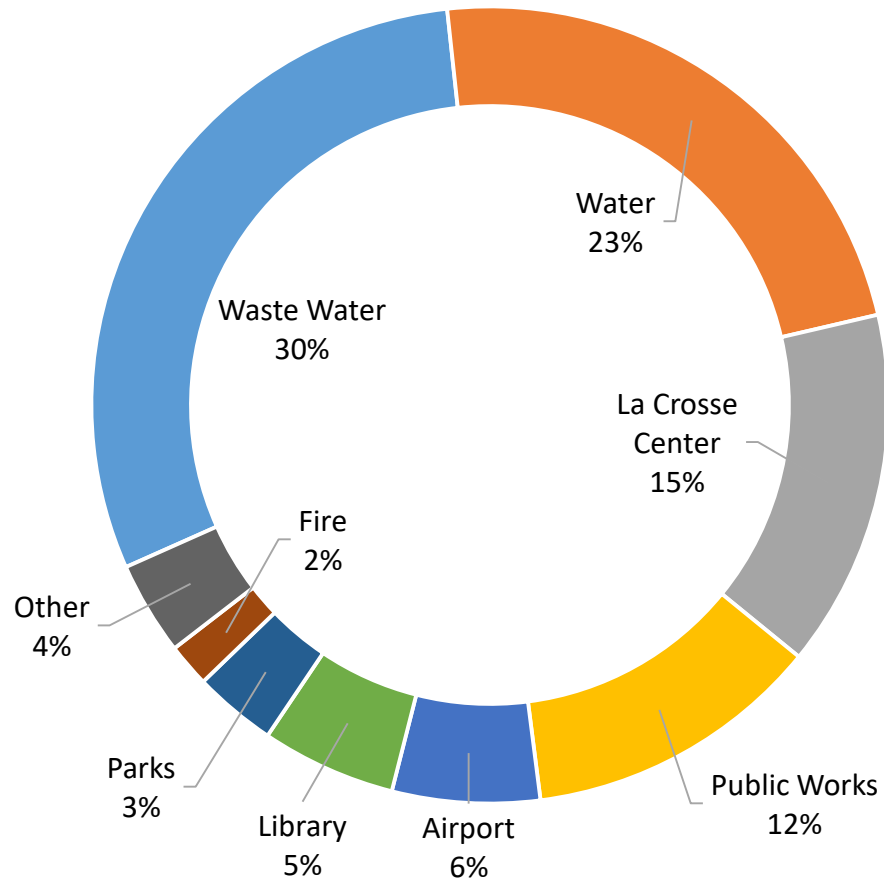
### With Cooling Degree Days





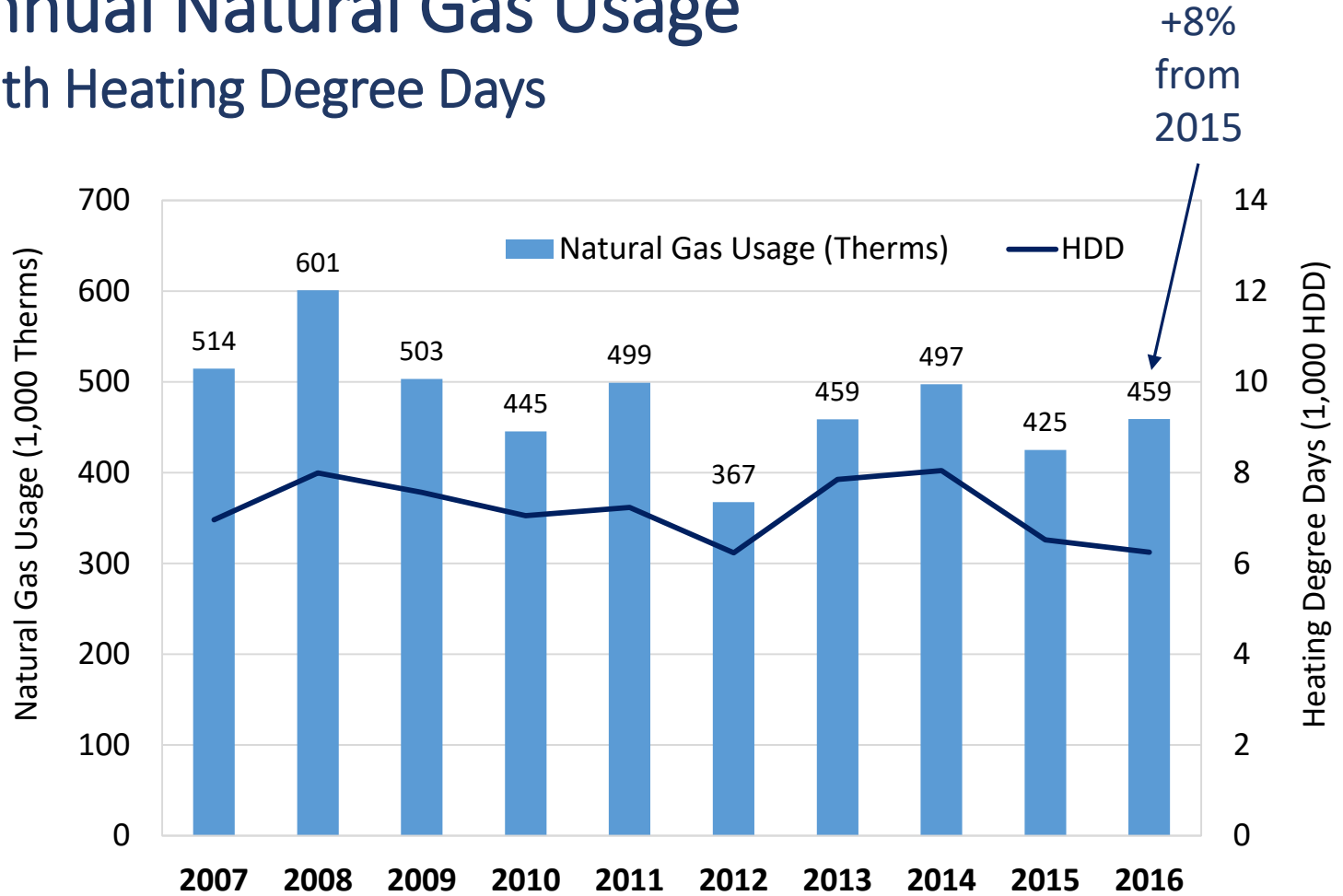
# City of La Crosse Government

## 2016 Electricity Usage by Department



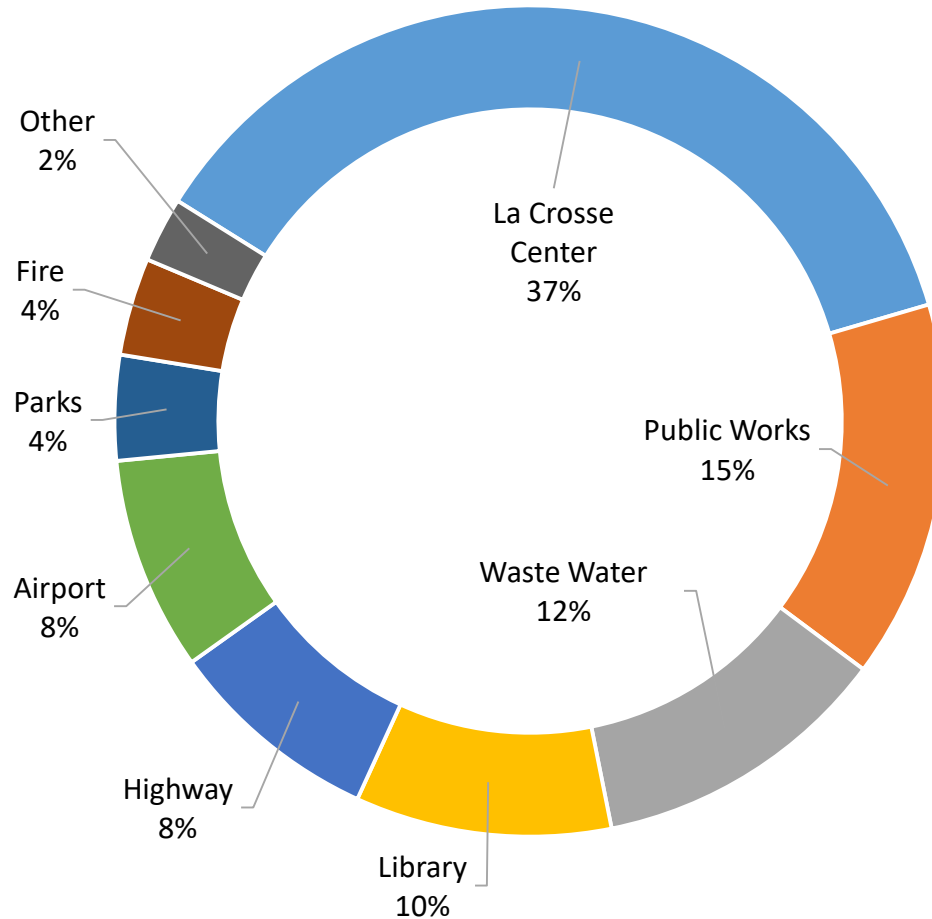
# City of La Crosse Government

## Annual Natural Gas Usage With Heating Degree Days



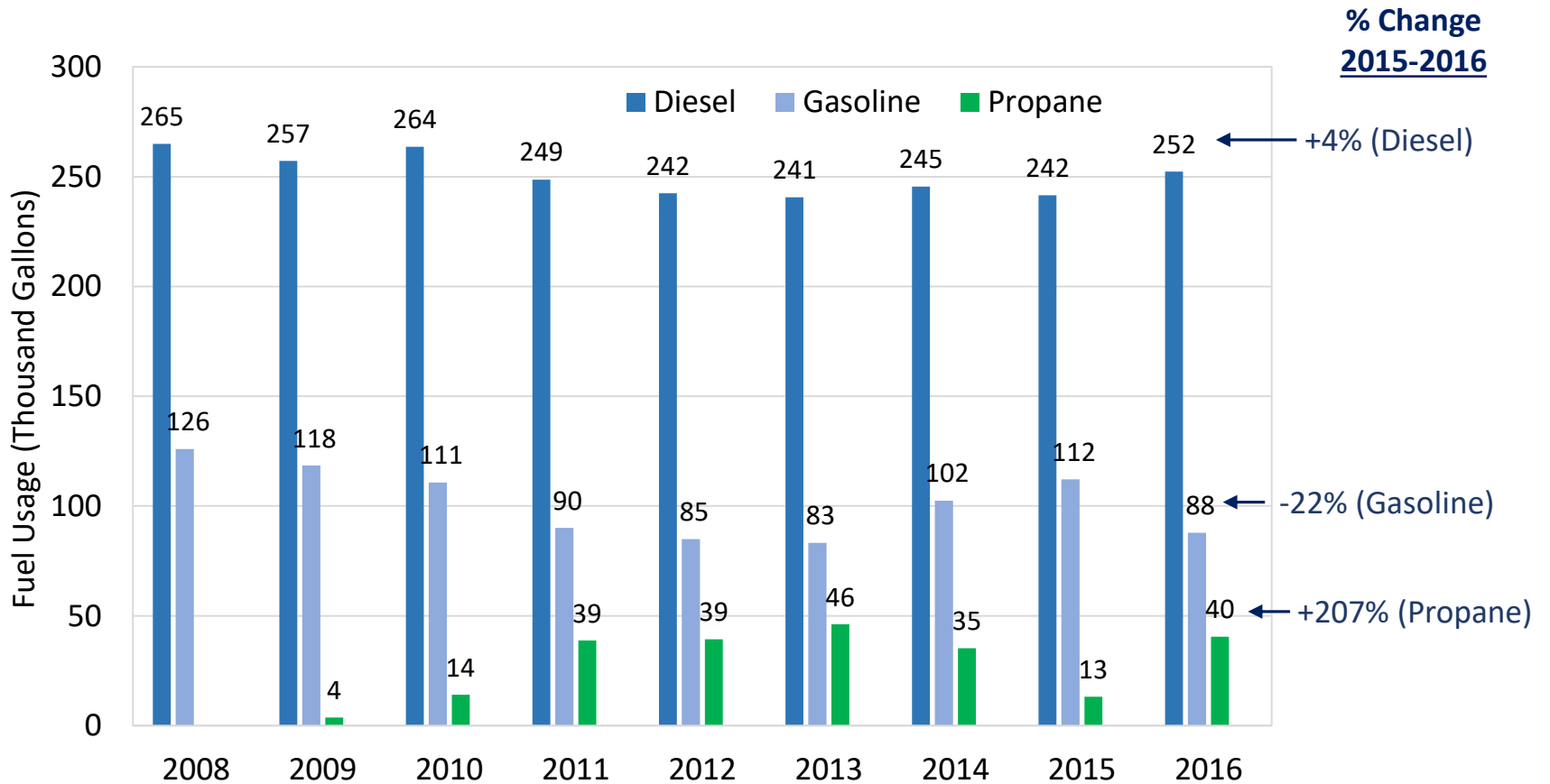
# City of La Crosse Government

## 2016 Natural Gas Usage By Department



# City of La Crosse Government

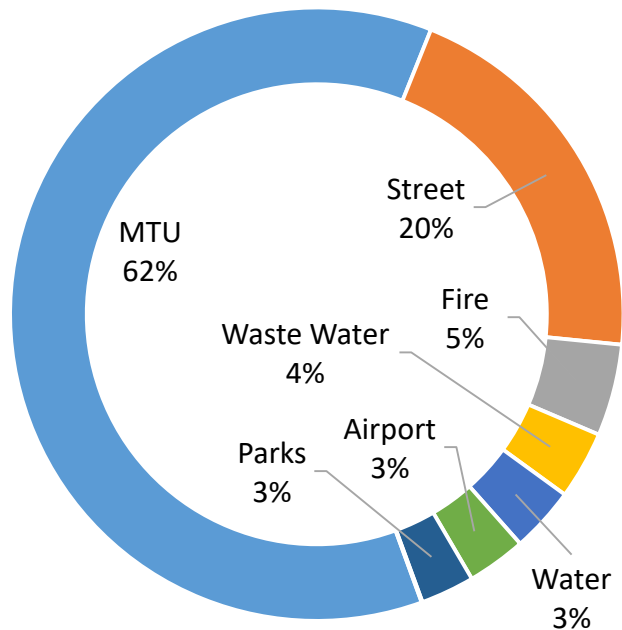
## Annual Vehicle Fuel Usage



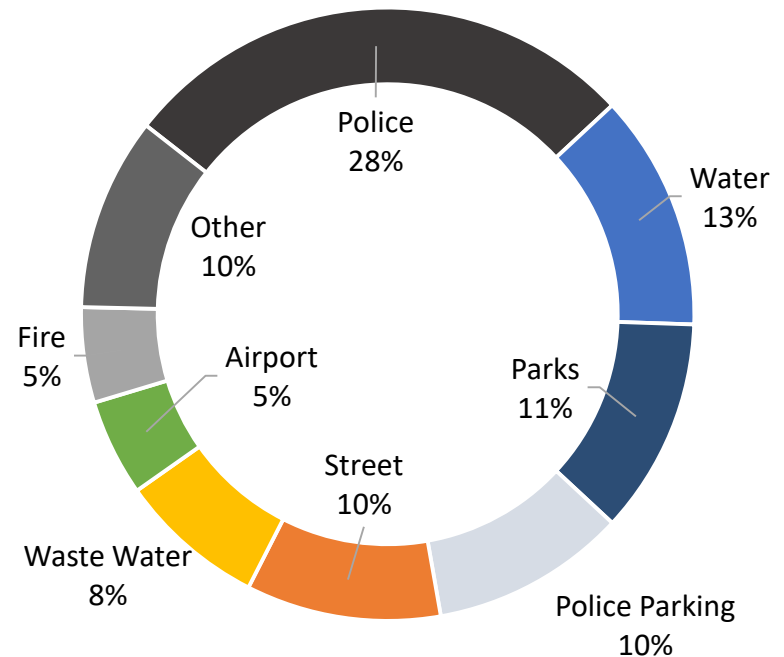
# City of La Crosse Government

## Annual Vehicle Fuel Usage By Department

### Diesel Fuel



### Gasoline



# City of La Crosse Government

## Energy Usage - 2016

### Summary

- Electricity: -1% from 2015 (-11% from 2007)
- Natural gas: +8% from 2015 (-11% from 2007)
- Vehicle fuels
  - Diesel fuel: +8% from 2015 (-5% from 2007)
  - Gasoline: -22% from 2015 (-30% from 2007)
  - Propane: +207% from 2015

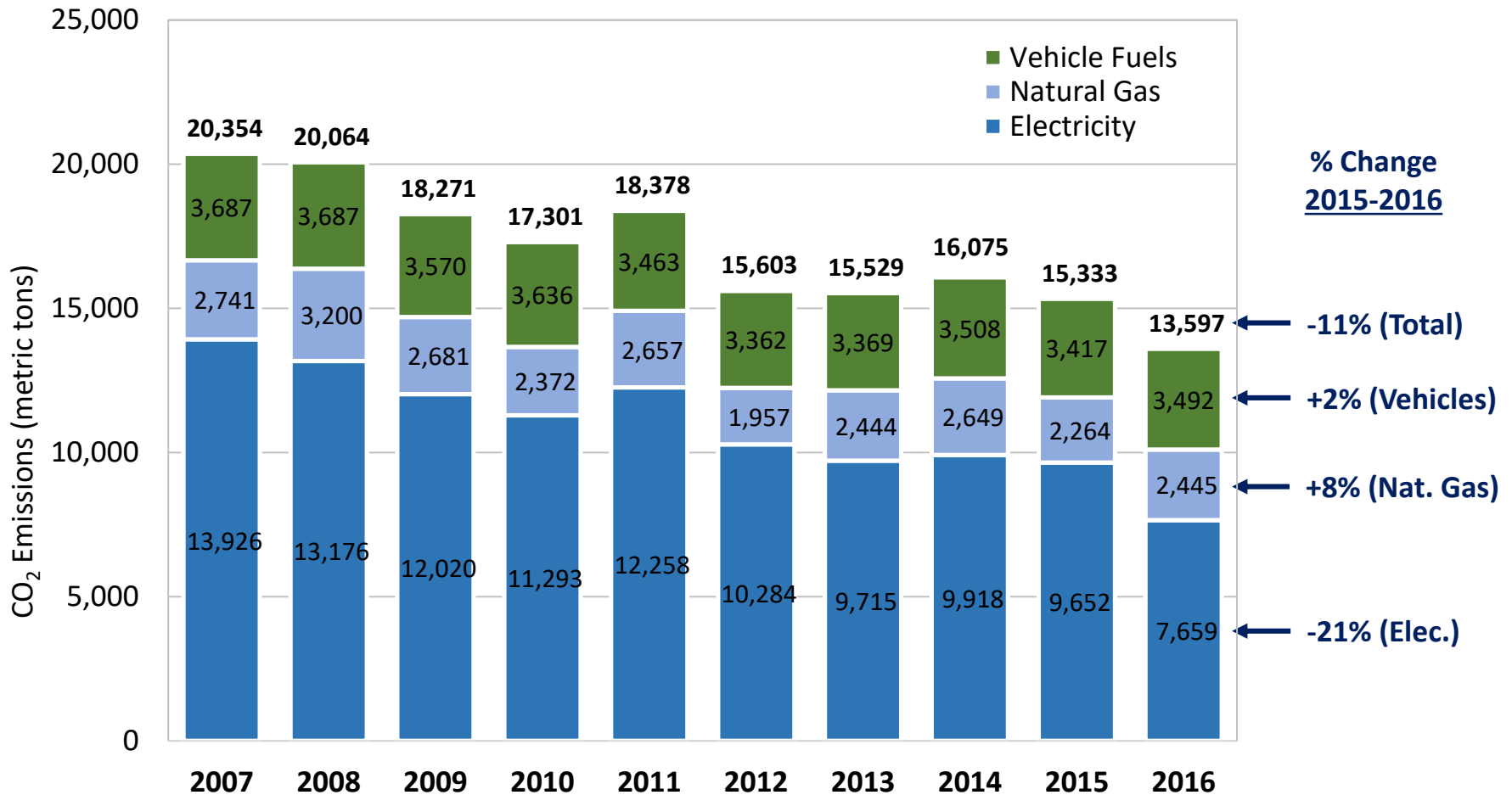
City of La Crosse Government

# CO<sub>2</sub> Emissions From Energy Use - 2016

- Electricity
- Natural Gas
- Vehicle Fuels

# City of La Crosse Government

## Annual CO<sub>2</sub> Emissions from Energy Usage





## City of La Crosse Government

# CO<sub>2</sub> Emissions from Energy Use - 2016

## Summary

- Total emissions decreased again
  - - 11% from 2015
  - - 33% from 2007
- Cleaner electricity played large role

City/County of La Crosse

# Alternative Vehicle CO<sub>2</sub> Emissions Analysis

Seth Roca, Environmental Studies student @ UW-L  
Service Learning Project, Capstone Course

**CO<sub>2</sub> Emission  
Reductions  
(Mile for Mile)**

- MTU Diesel-Electric Hybrid Buses - 47%
- County Highway Dep't CNG Pickup Trucks - 23%
- City Police Propane-Gasoline Squad Vehicles - 15%

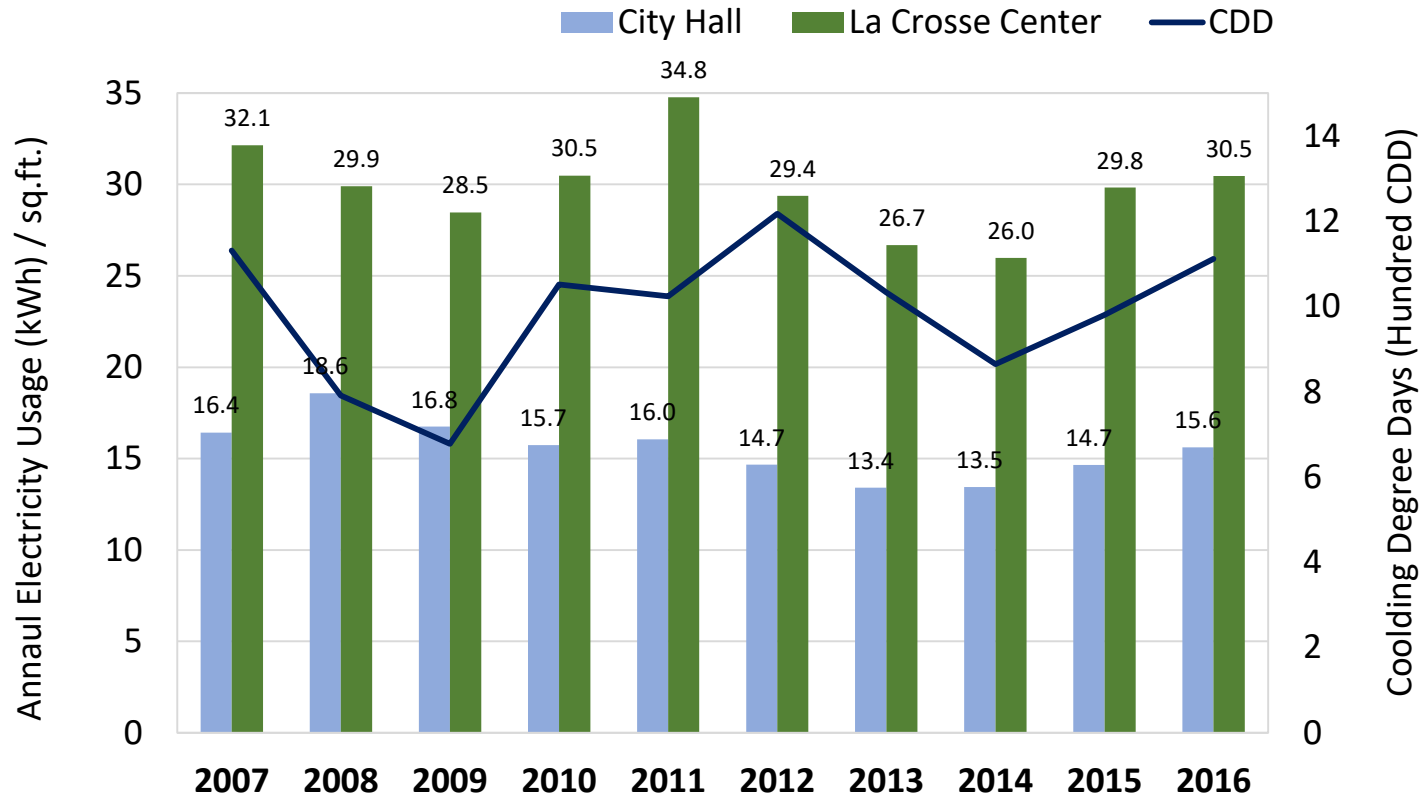
City/County of La Crosse Government

# Facility Energy Usage per Square Foot Analysis

- Calculate energy usage per square foot
- Compare among buildings of different sizes

# City of La Crosse Government

## Facility Electricity Usage per Square Foot With Cooling Degree Days

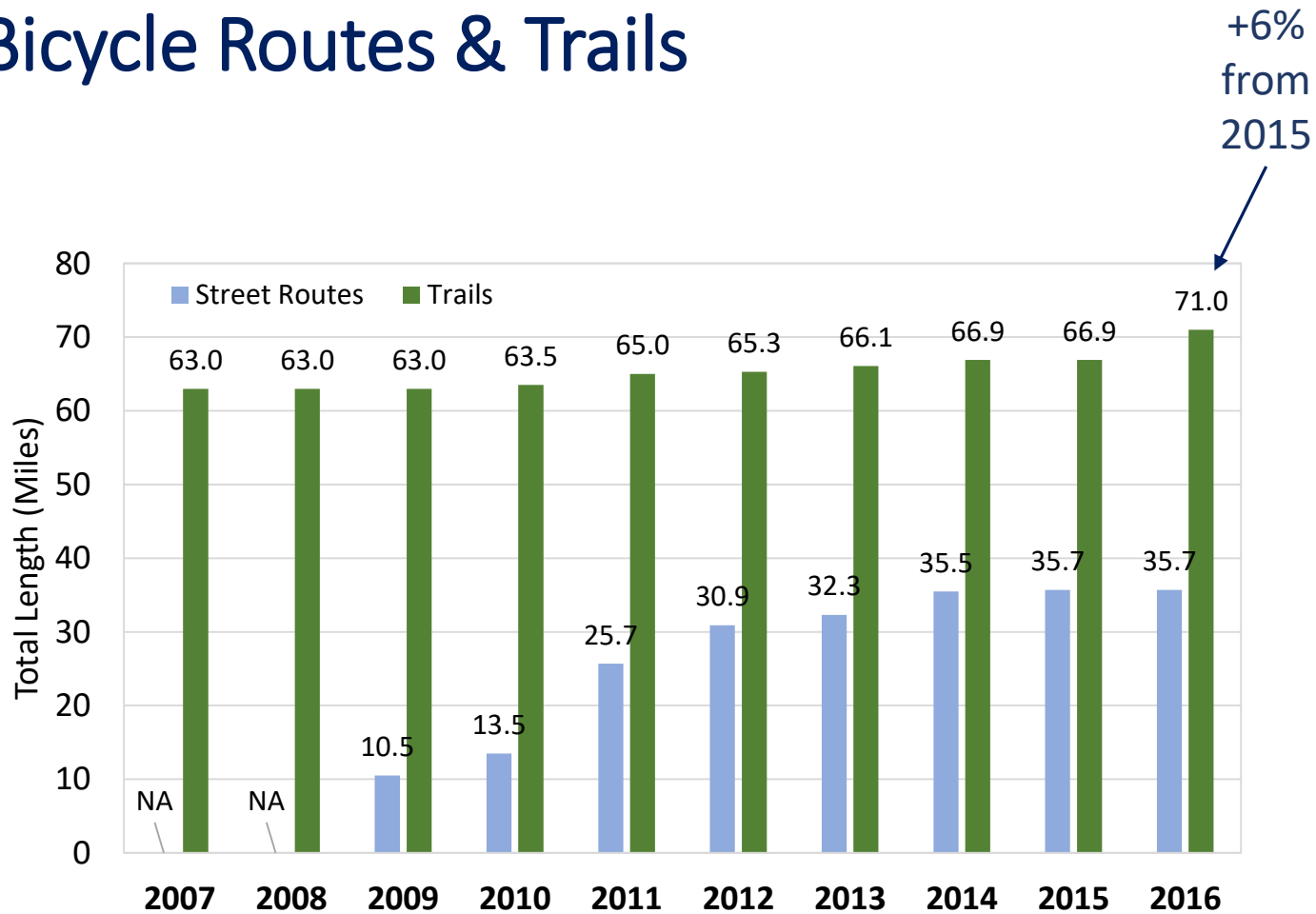


# City of La Crosse, La Crosse County

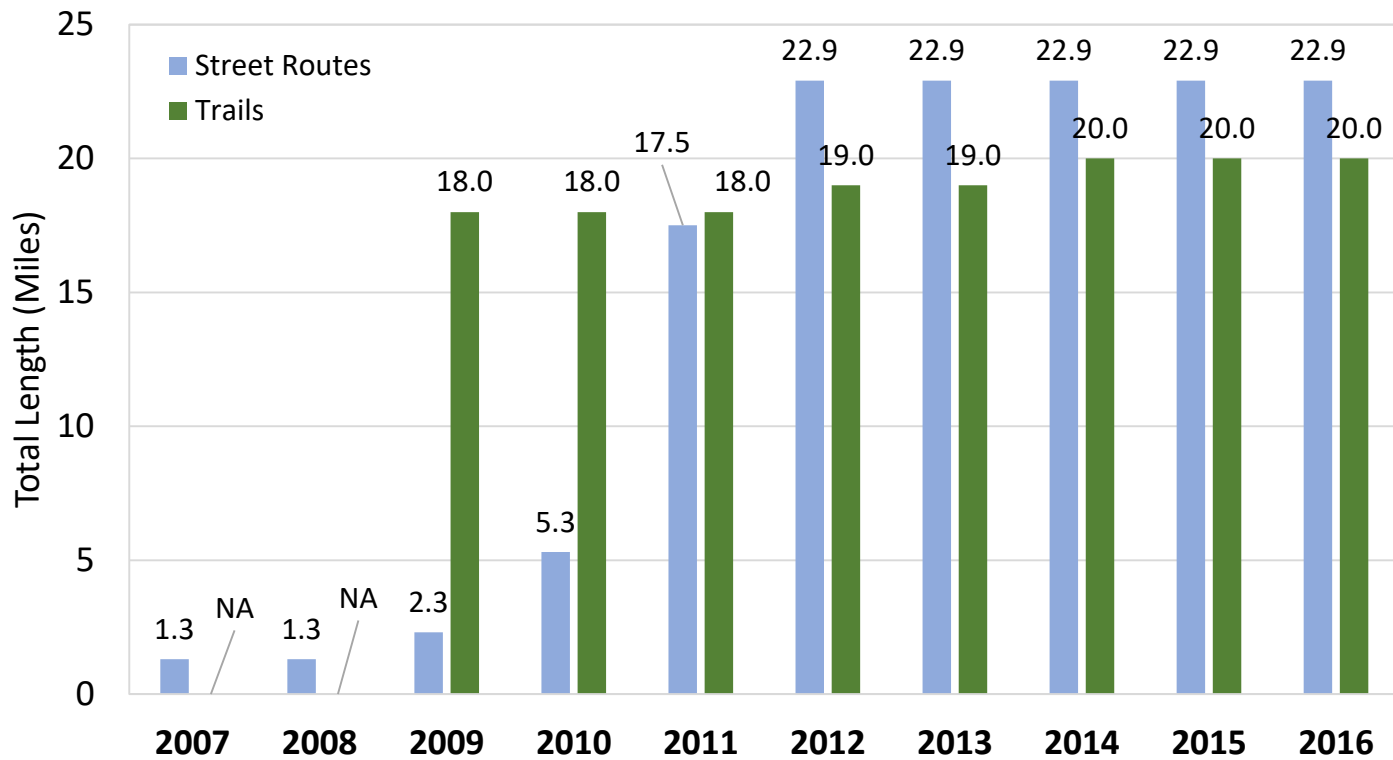
## Alternative Transportation

- Bicycle Routes & Trails
- MTU Ridership
- Worker Commute Methods

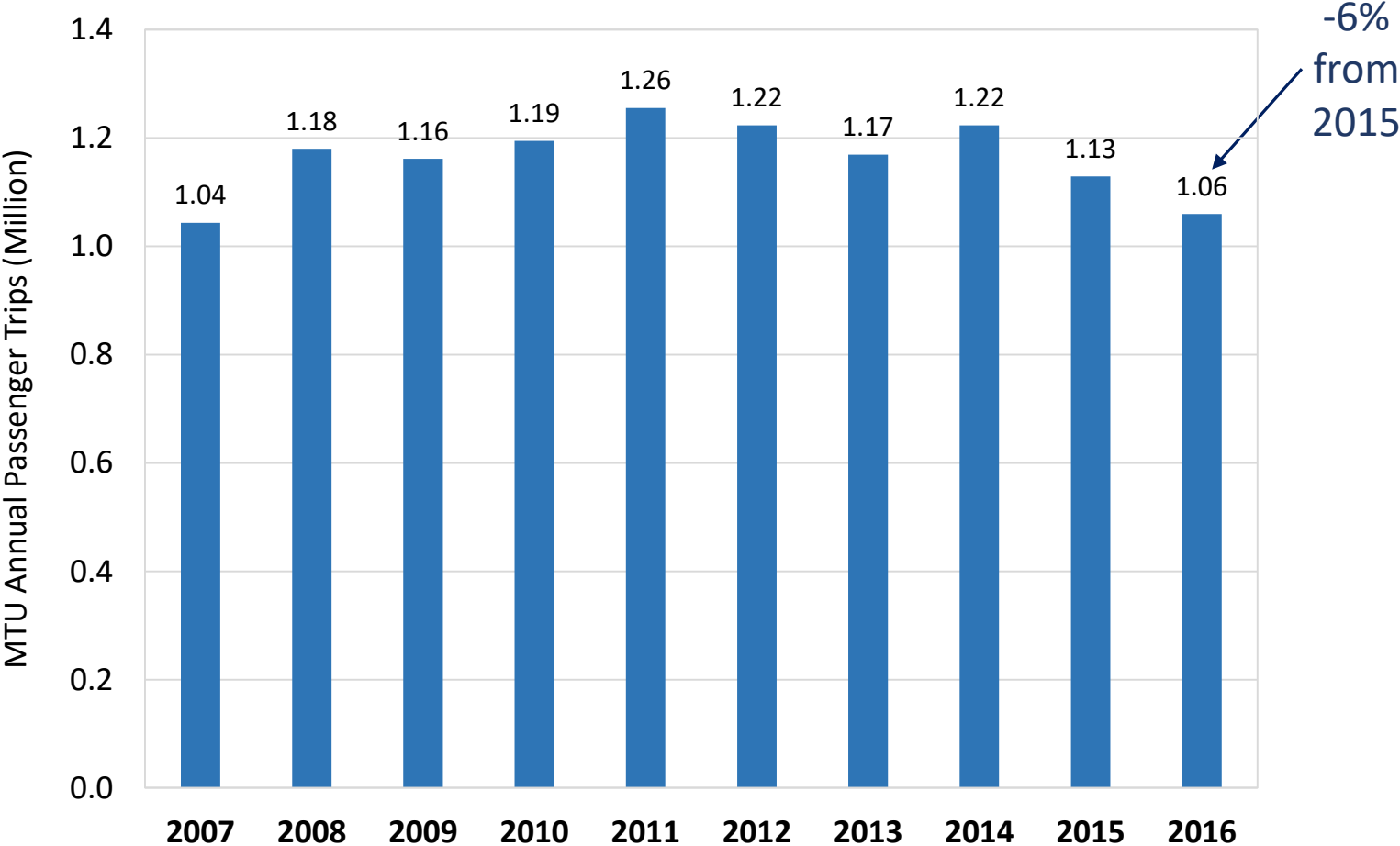
# La Crosse County Bicycle Routes & Trails



# City of La Crosse Bicycle Routes & Trails

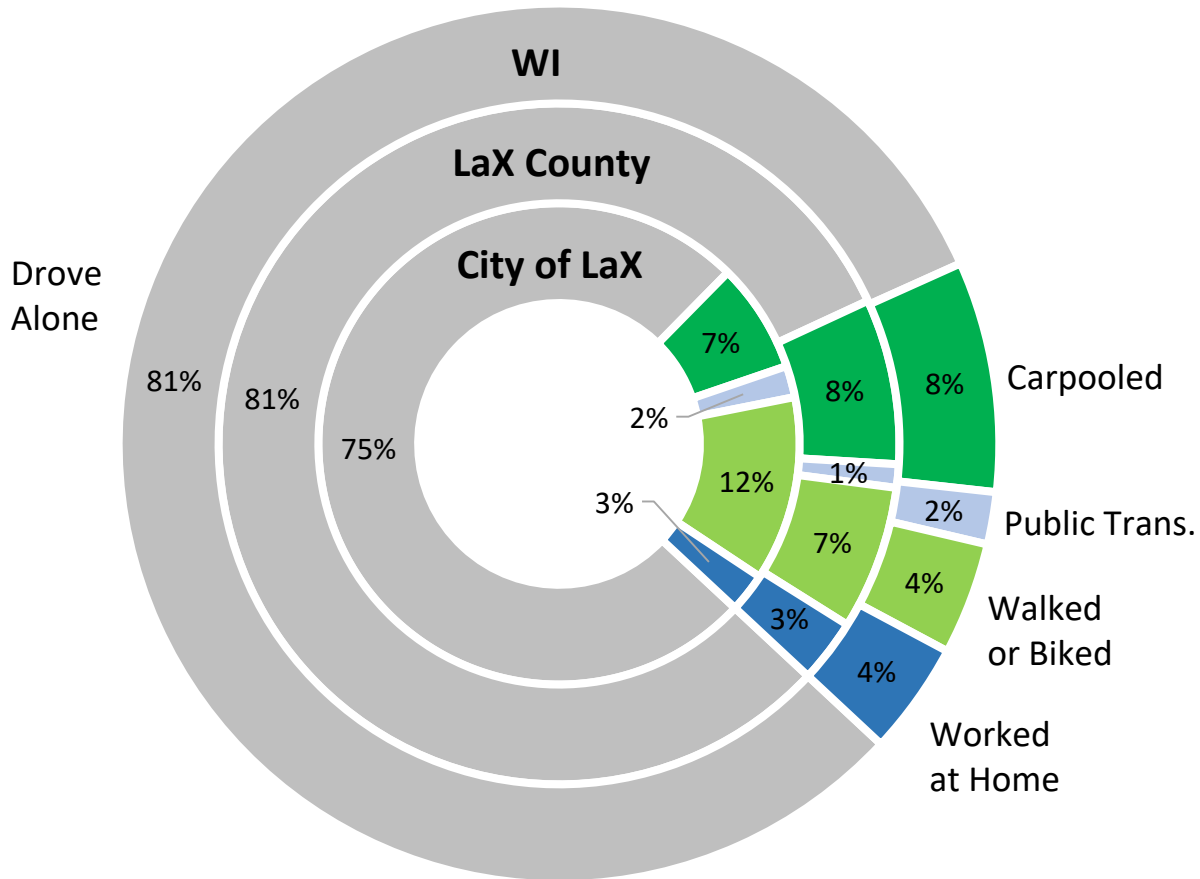


# City of La Crosse Municipal Transit Utility (MTU) Annual Passenger Trips





# City of La Crosse, La Crosse County, State of WI Worker Commute Methods, 2011-2015



# City of La Crosse, La Crosse County

## Alternative Transportation

### Summary

- Bicycle routes & trails 2016
  - County trails: 4.1 miles added (+6%)
  - County routes, city routes, city trails: unchanged
- MTU ridership, 2016: -6% from 2015, +2% from 2007
- Worker commute methods, 2011 – 2015 average
  - 12% city residents walked/biked, vs. 4% WI overall
  - 75% city residents drove alone, vs. 81% WI overall

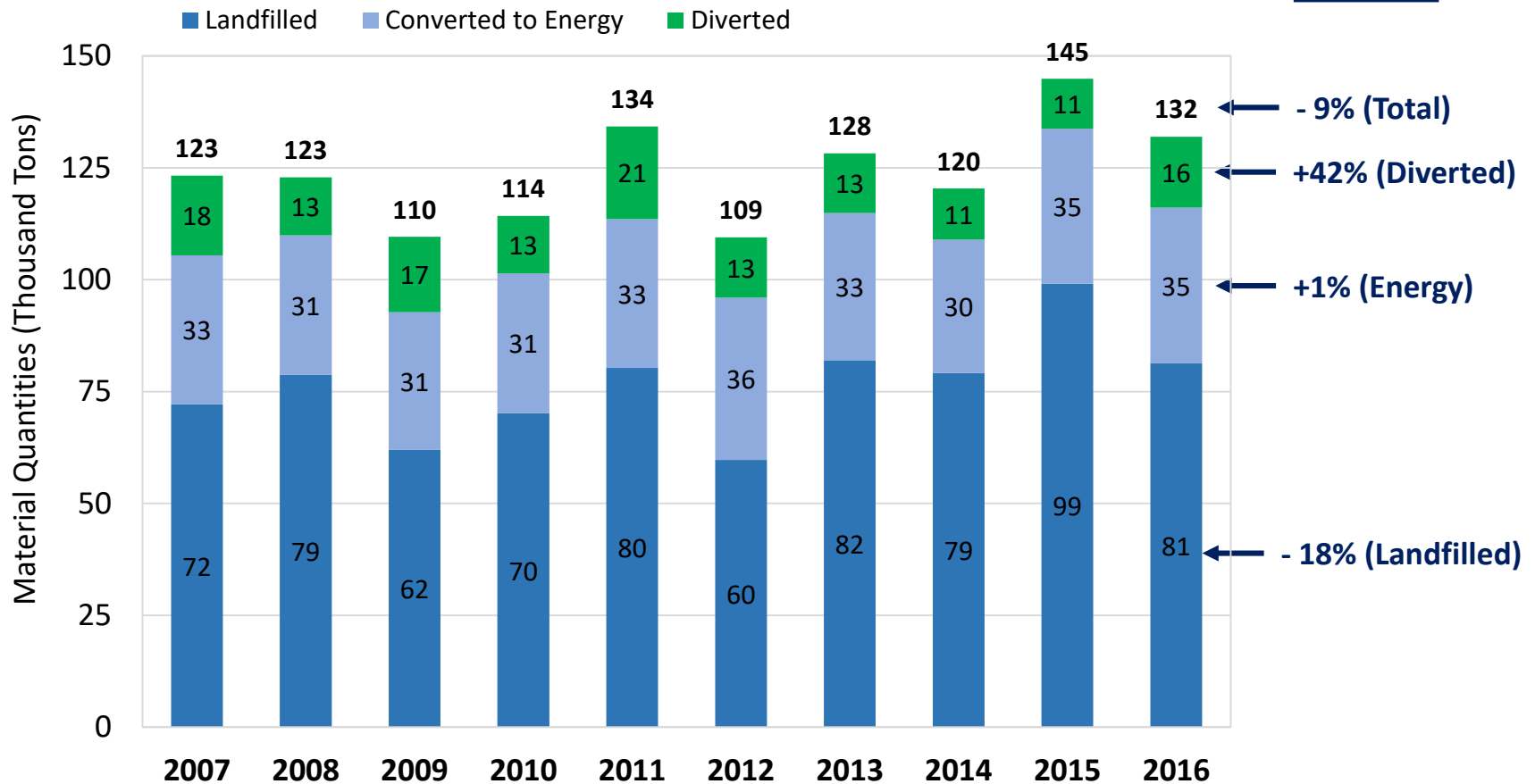
# City of La Crosse, La Crosse County

## Waste Stream Quantities

- Landfill Waste Streams
- Community-Wide Recycling

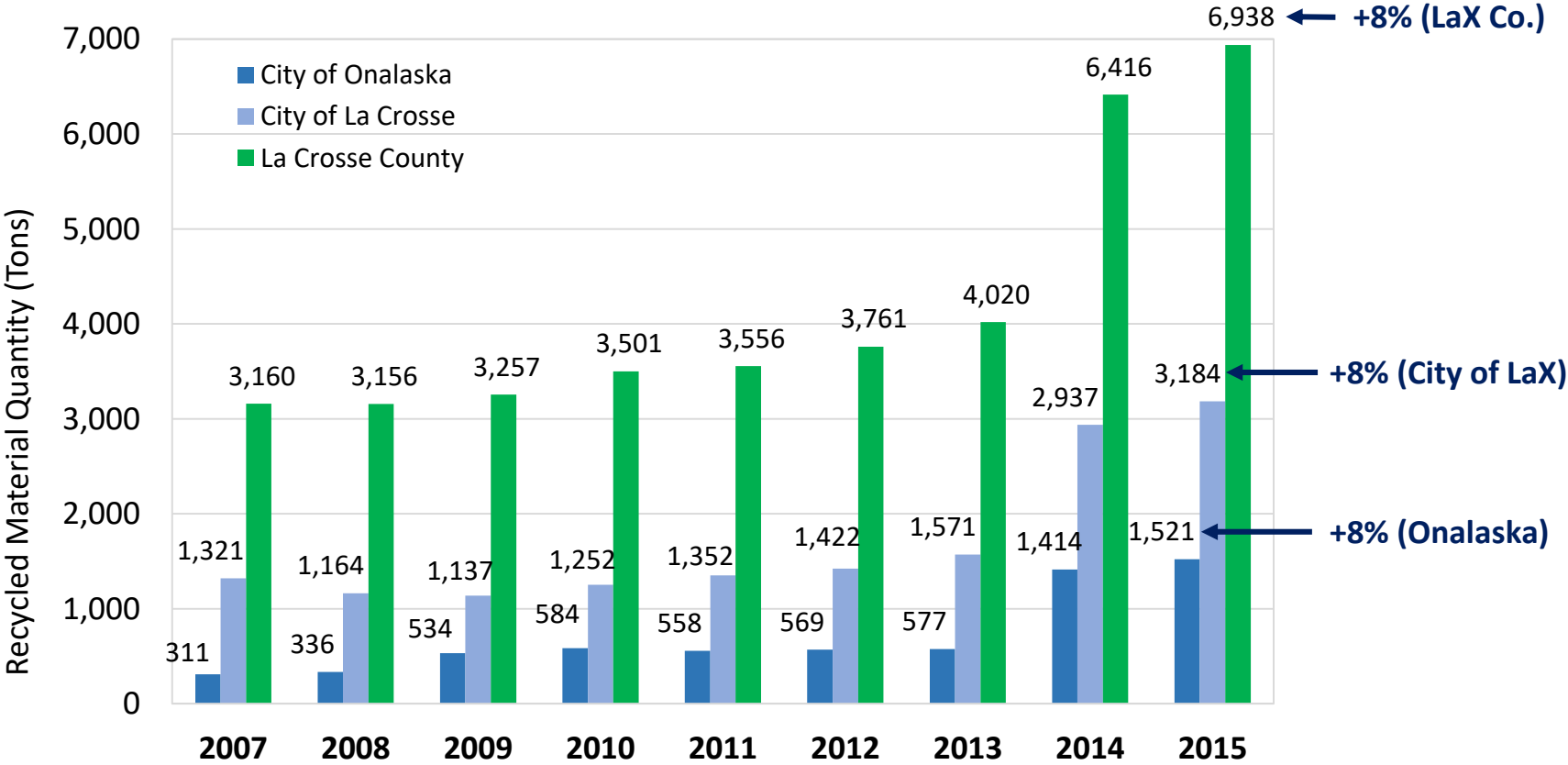
# La Crosse County Landfill Waste Stream Quantities

**% Change  
2015-2016**



# City of La Crosse, City of Onalaska, La Crosse County Recycled Material Quantities

**% Change  
2014-2015**



# City of La Crosse, La Crosse County

## Waste Stream Quantities

### Summary

- County landfill waste streams, 2016
  - Landfilled: -18% from 2015 (+13% from 2007)
  - Converted to energy: +1% from 2015 (+5% from 2007)
  - Diverted: +42% from 2015 (-11% from 2007)
- Community-wide recycled quantities, 2015
  - City of Onalaska: +8% from 2014 (+390% from 2007)
  - City of La Crosse: +8% from 2014 (+141% from 2007)
  - La Crosse County: +8% from 2014 (+120% from 2007)

# La Crosse County Land Use

