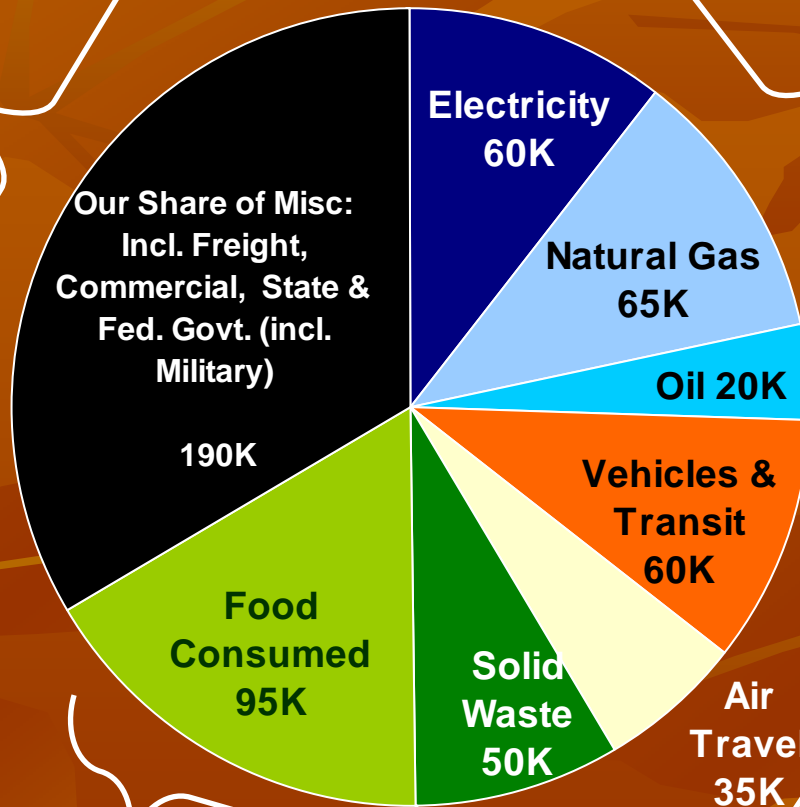


# Sources of Maplewood's CO2 emissions

## 575K Tons Annually

Non-local emissions  
(1/3<sup>rd</sup>)



Buildings  
(1/4<sup>th</sup>)



Consumption  
(1/4<sup>th</sup>)

Transportation  
(1/6<sup>th</sup>)

# Maplewood's Plan to reach 20% reduction

Source of Emissions	K Tons CO2	Source Reduction Goal	Reduction
Electricity	60	Reduce fossil-sourced electricity consumption in homes and buildings 35%	21
Vehicles / Mass Transit	60	Improve overall avg fuel economy by 8 mpg	14
Solid Waste	50	Double recycling participation / collections	13
Natural Gas	65	Improve average home and building efficiency (space and water heating) 15%	10
Oil	20	Switch 50% of oil homes to gas	4
Air travel	35	Offset 20% of air travel through carbon offsets	7
Food Consumed	95	Reduce impact of food consumption by 10% through switching to plant-based/local diet	10
<b>Sub-total: Locally Addressable Emissions</b>	<b>385</b>		<b>79 (-20%)</b>
Our Share of Federal, State, Military Emissions	190	Support state and federal legislative efforts to reduce emissions 20%	38
<b>Total</b>	<b>585</b>		<b>114 (-20%)</b>



**Goal is to reduce Maplewood's emissions 20% by 2015**

# Maplewood, NJ

- 24,000 people
- 13,000 registered vehicles
- 9,000 utility accounts:
  - Vast majority are residential (~8,500 households)
  - Several hundred small businesses and institutions
  - Six public schools
  - One dozen municipal buildings
- Schools and municipal buildings account for 2% of emissions
- Each year we spend \$40-50 million directly on gasoline, electricity, natural gas and heating oil

# Maplewood's Emissions in Context

- 385K tons/year of locally addressable CO2 emissions are enough to blanket Maplewood with a layer of CO2 gas 60 feet tall annually
- We would have to plant 3,000,000 trees this year to offset our current emissions 20% by 2020

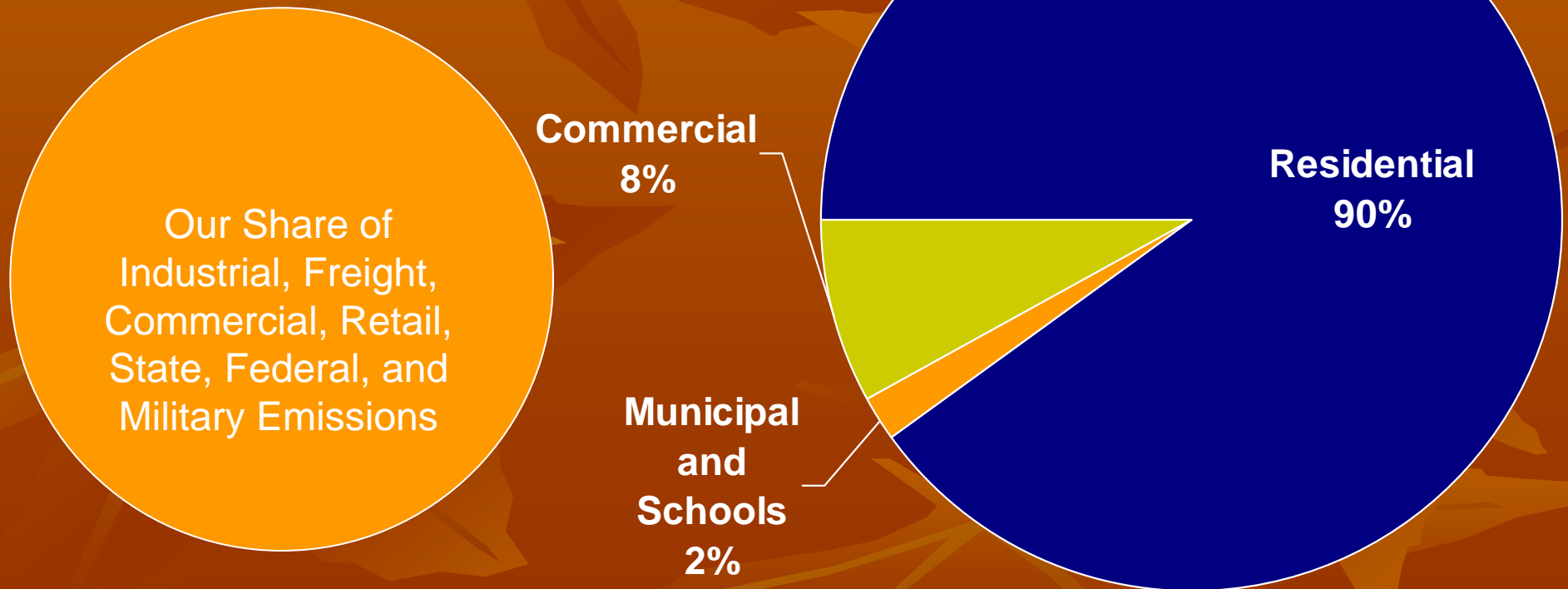


**To reach our 20% reduction goal, Maplewood needs to reduce our locally addressable CO2 emissions by 79K tons below current levels by 2015**

# Residential Sector Accounts for the Majority of Maplewood's Emissions

Locally Addressable Emissions

Not Locally Addressable Emissions



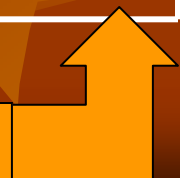
Note: Commercial percentage is an estimate based on number of utility accounts

# Reduce the impact of your Home

Average annual emissions from a Maplewood Home: 11.5 Tons	Potential Reduction (tons)	Table
Enroll in NJ Clean Power	4.5	X
Switch from oil to gas heat or (50% biofuel when available)	4.5	X
Get an energy audit, make recommended changes (including many on this list)	2.5	X
Improve the energy efficiency of your home's walls, roof and windows	1.5	X
Change behavior (turn lights off, water temp down, shorter showers etc...)	1.4	X
Replace old refrigerator, washing machine and dishwasher with new Energy Star appliances	1.2	X
Repair or replace (if appropriate) old windows	0.9	X
Install (and use) programmable thermostat	0.9	X
Have your furnace tuned up every two years	0.6	X
Replace 10 <u>high use</u> incandescent light bulbs with CFLs	0.4	X
Install a tank-less water heater	0.4	X

**Total potential reduction depends on which items are applicable for your home. One great way to start is to have a home energy audit to identify which opportunities make the most sense for your home.**

Learn more at these info tables

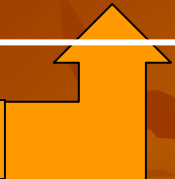




# Reduce the impact of your Travel

Average emissions from a Maplewood Car/SUV: 4.6/7.7 Tons Average emissions from Air Travel per person: 1.4 Tons	Potential Reduction	Table
Buy clean diesel or gasoline hybrid vehicle	Car: 1.3 – 2.4 SUV to car: 4.4 – 5.1 SUV: 1.3-2.1	X-X
Change behavior: (properly inflate tires, drive the speed limit, shut off engine at idle, carpool, work-at-home, etc)	0.3 – 1.0	X
Change behavior: use mass transit	1.4	X
Change behavior: bike or walk around town	0.2	X
Change behavior: use electric scooter for around town trips	0.2	X
Offset emissions from your air travel	Varies based on travel, visit: <a href="http://www.nativeenergy.com">www.nativeenergy.com</a>	
<b>Total potential reduction depends on your current vehicle, driving habits and total miles (car) / hours (air) you travel annually.</b>		

Learn more at these info tables



# Reduce the impact of your Consumption

Average emissions per person from consumption: 6.2 tons	Potential Reduction	Table
Switch to a less meat-intensive diet: eating red meat or fish rarely rather than daily	2.6	X-X
Double household recycling rate	1.5	X
Use composting for yard waste and reduce garbage you throw away by 25%	0.5	X
Stop receiving junk mail (1.5 pounds per week)	0.3 (if thrown away) 0.2 (if recycled)	
Shop with reusable bags rather than using plastic or paper (10 per week)	0.008	X

Learn more at these info tables





# Learn what the Town is doing about it's own emissions

Action	Table
Conducting energy audits and implementing recommendations in all Municipal buildings	X
New police headquarters being built "green"	X
Committed to converting fleet of municipal vehicles to hybrids	X
Testing bio-diesel on municipal trucks	X
Received \$2,500 grant for more public bike racks, feasible study for creating new bike paths around town	X
School district to purchase more efficient buses	X
Helping spread the word: Holding "Maplewood Green Day" events annually	You're there!

Learn more at these info tables



# What you can do to impact Federal, State and Industrial Emissions

As residents of Maplewood we can directly reduce the emissions from our homes, cars and buildings, but we also have to support federal, state and industrial efforts to reduce emissions that are generated to support our way of life.

- Vote: Consider a candidate's position on environmental issues when voting in local and federal elections
- Speak up: Write to your Senators and Representatives to tell them that you want them to support legislation that aims to reduce greenhouse gas emissions
- Speak with your wallet: Patronize companies that demonstrate efforts to reduce their emissions; write to companies that don't and tell them you won't be buying their products