

Climate on Tap

‘Transportation in Jefferson County’

Facilitator:
Laura Tucker

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What Have You Heard About Transportation and Climate Change in Jefferson County?

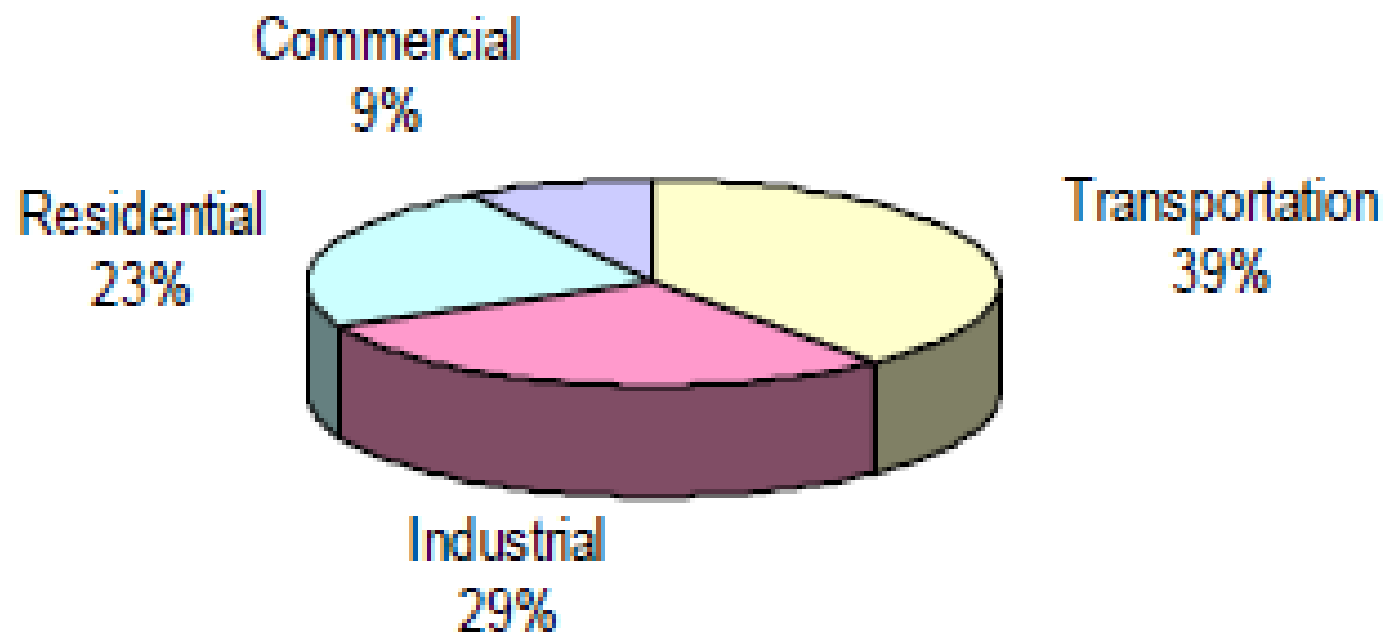


Give it some thought and then share what you've heard with those at your table or with the person next to you.

Table 4. Community-Wide and Government Subset Emissions 2005

Sector or Subsector	Community- Wide¹ (tons CO₂e)	Community- Wide¹ (% CO₂e)	Jefferson County Operations (tons CO₂e)	Port Townsend City Operations (tons CO₂e)
Stationary Energy	325,133	61%	1,443	1,609
Residential	121,605	23%		
Commercial	49,017	9%	1,443	1,609
Industrial	154,511	29%		
Transportation	209,079	39%	1,886	533
Solid Waste	2,502	<1%	35	
Water, PUD#1⁸			364	
Total	536,714	100%	3,728	2,142

⁸ The inventory included electricity consumed by Jefferson Public Utility District No. 1 to provide water service to County residents.



Emissions are for Transportation Sector and for Residential, Commercial and Industrial Subsectors of the Stationary Energy Sector. Emissions from the Solid Waste Sector were too small to include. Data obtained from CACP Model output.

Figure 6. Port Townsend City Operations - CO₂e Emissions in 2005

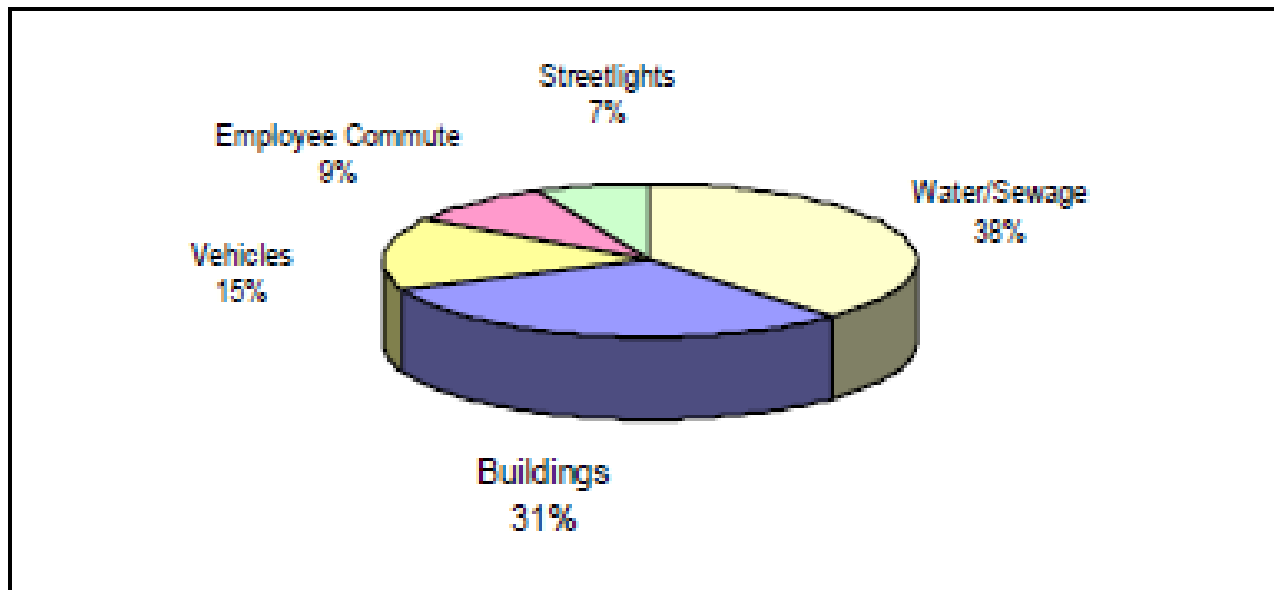
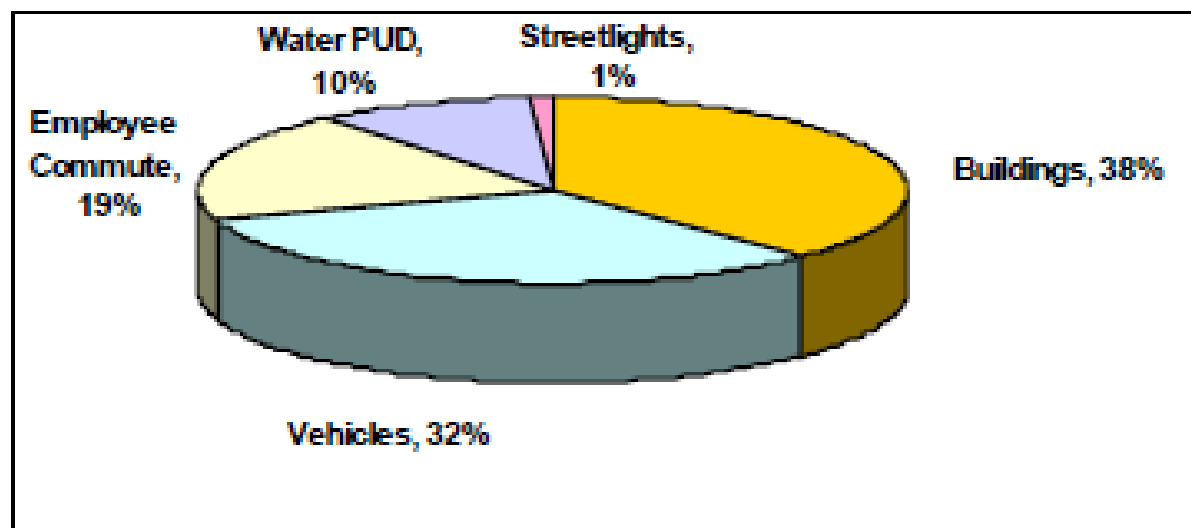


Figure 7. Jefferson County Operations - CO₂e Emissions in 2005



Total U.S. Greenhouse Gas Emissions by Economic Sector in 2017

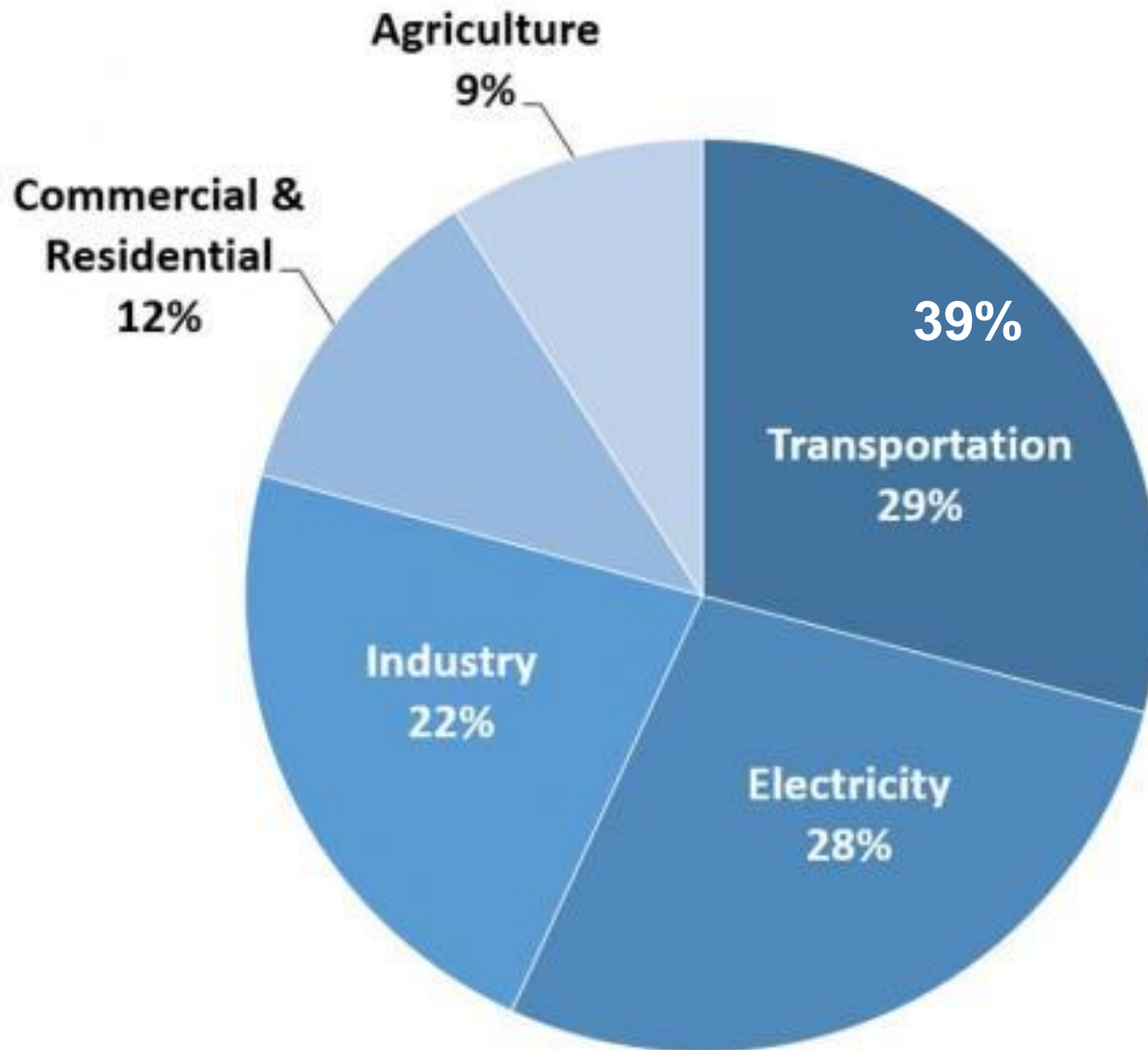
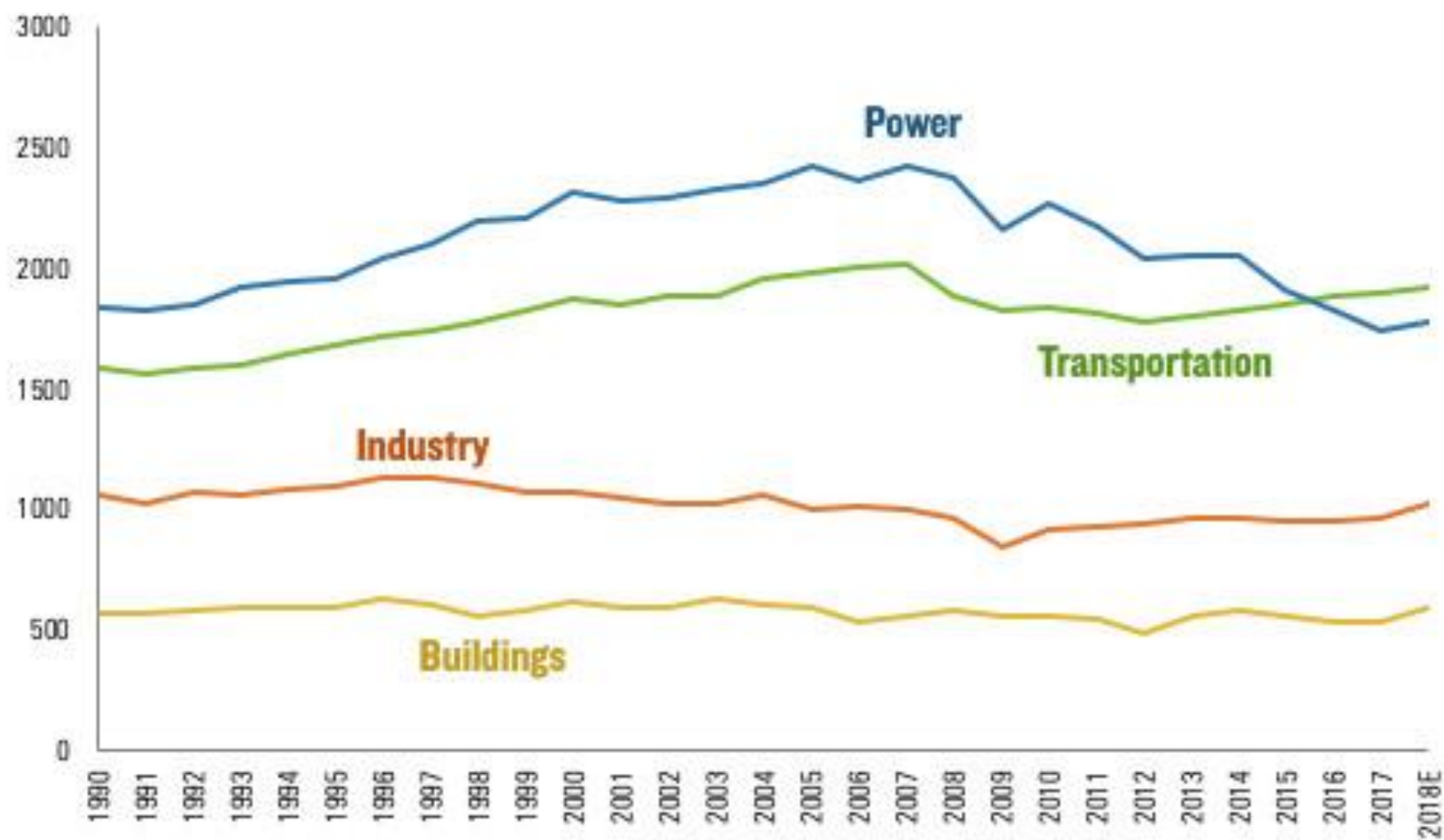


Figure 4: Energy-related CO₂ emissions by sector

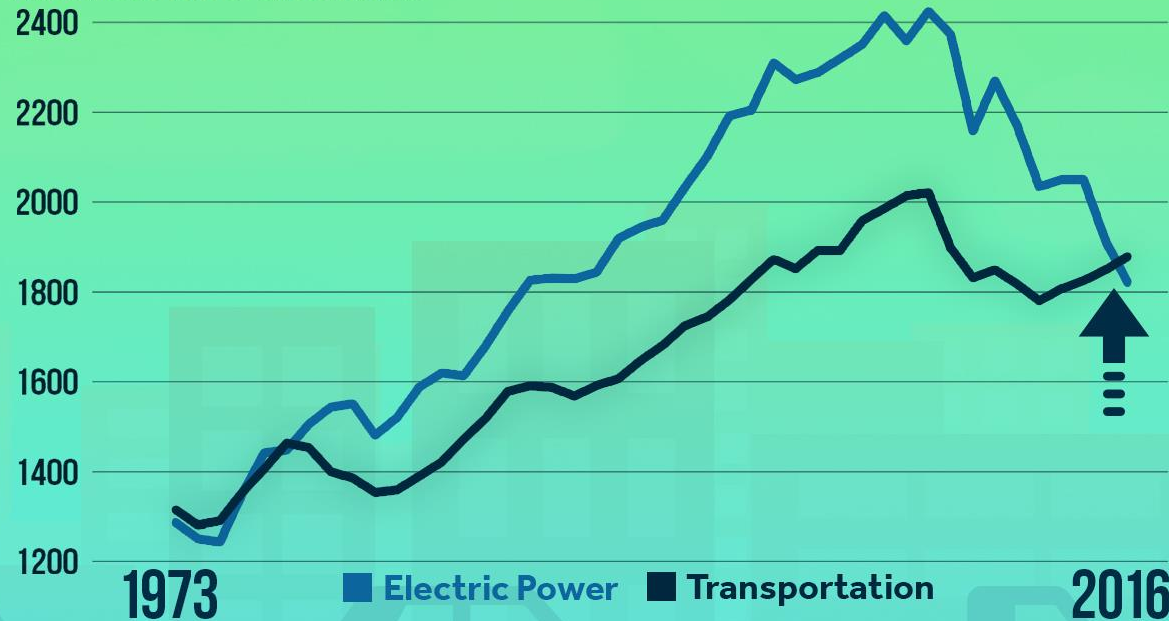
Million metric tons



EMISSIONS FLIP

Transportation is Biggest Source of U.S. Emissions

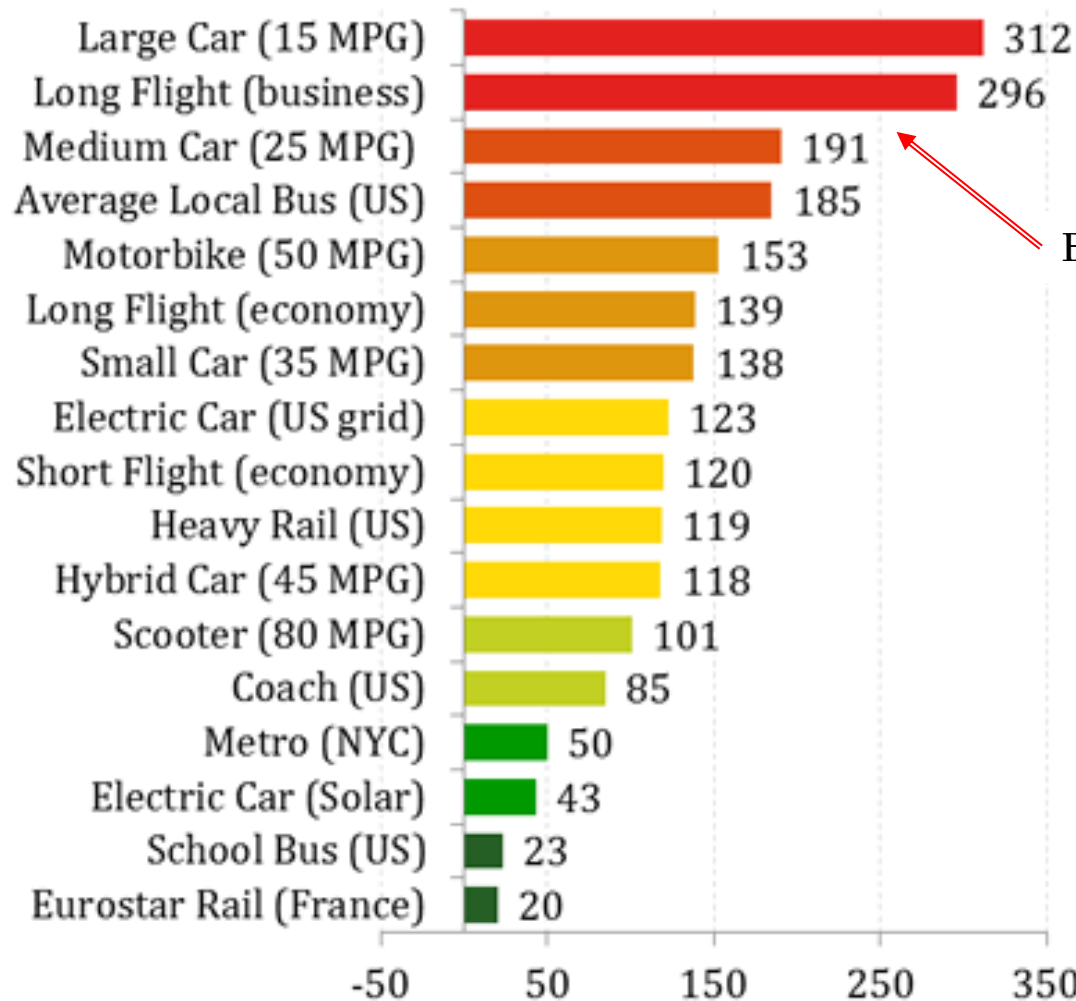
Million Metric Tons of Carbon Dioxide



Source: EIA, Annual Energy Review

CLIMATE  CENTRAL

Carbon Intensity of Travel: g CO₂e/pkm



Electric car – PSE grid

Note: All figures are grams of carbon dioxide equivalents per passenger kilometre (g CO₂e/pkm). Figures include direct emissions from fuel combustion, indirect emissions from fuel production and vehicle construction emissions. Average loading is assumed for each mode, 1.6 for all cars and 1 for motorbikes. Miles per gallon (MPG) is on road efficiency in US gallons. No radiative forcing multiplier is used for air travel. The electric car is assumed to achieve 200 Wh/km.

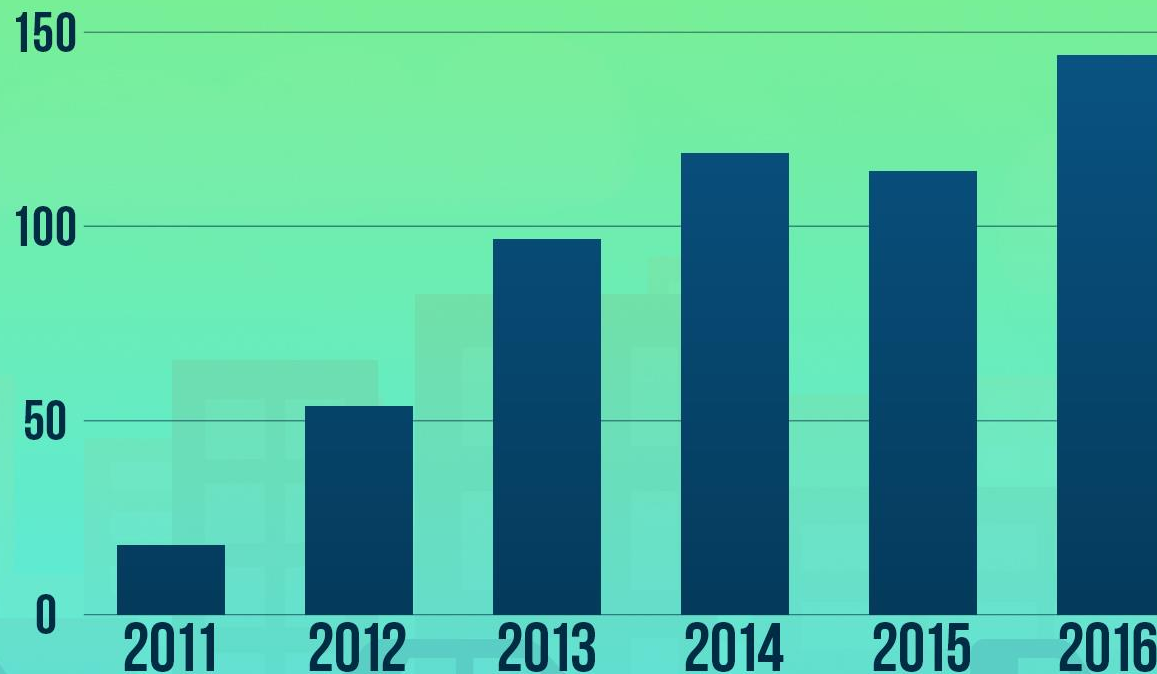
What are your thoughts?
Please discuss at your tables or
with a partner.

Have someone jot down what you'd
like to share with the group.



SHIFTING GEARS

Number of Plug-in Electric Vehicles Sold in the U.S. (thousands)



Source: Alternative Fuels Data Center

CLIMATE  CENTRAL



— THE TRUTH ABOUT — **IDLING A VEHICLE**

HOW TURNING OFF YOUR VEHICLE FOR 10 SECONDS CAN SAVE MILLIONS

WHAT IS IDLING?

An idling vehicle is one whose engine is running while it is parked or not in use.

ELECTRIC IGNITION

Today's car ignition systems are now so efficient that restarting an engine uses very little gas.

IT IS TIME TO RETHINK IDLING



WARMING UP

Even in cold weather, engines only need 30 seconds to warm up



DAMAGING

Turning your car off is better for the engine than leaving it running



RESTARTING

10 seconds of idling wastes more fuel than restarting

WHERE IDLING HAPPENS



DRIVE-THRUS



DRIVEWAYS



BANKS



CAR WASHES



SCHOOLS



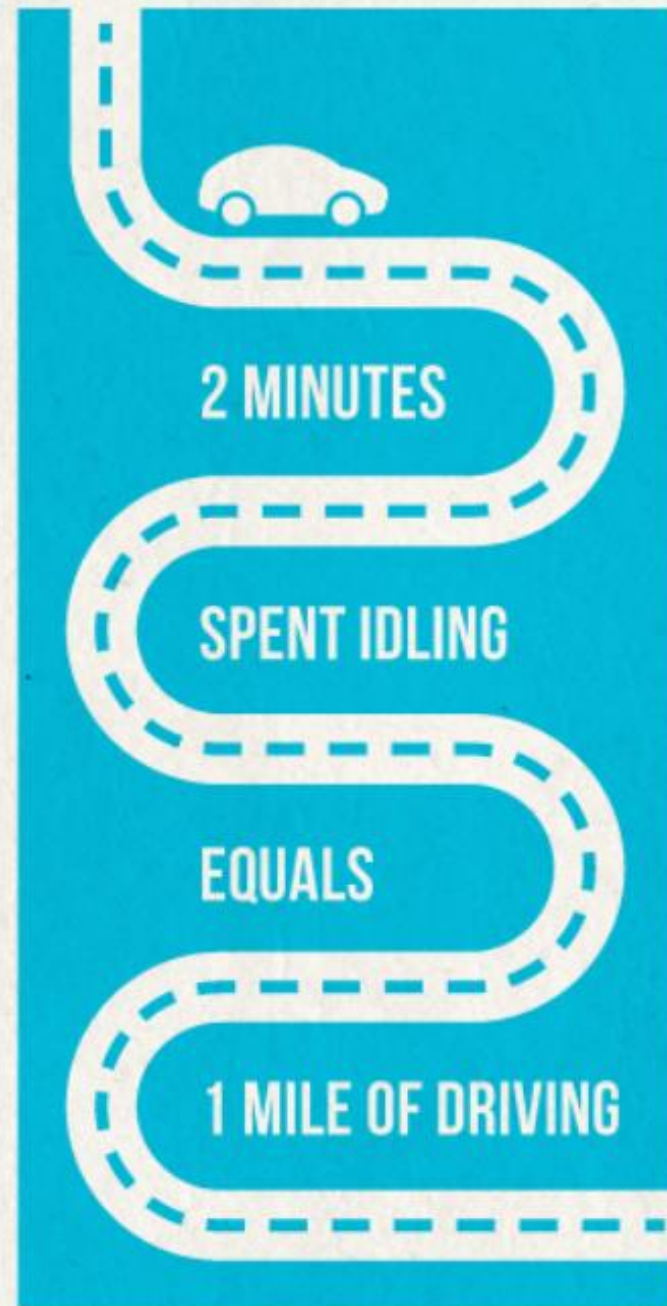
TRAINS



MALLS








BRIDGES



THE AVERAGE AMERICAN DRIVER SPENDS OVER 16 MINUTES A DAY IDLING THEIR VEHICLE
CUTTING THAT IN HALF CAN MEAN BIG SAVINGS

ANNUAL SAVINGS BY ELIMINATING 8 MINUTES OF VOLUNTARY IDLING PER DAY

ENGINE SIZE	GAS SAVED	CO2 SAVED	MONEY SAVED
			
 4 CYLINDER	32 GALLONS	704 LBS OF CO2	\$67
 8 CYLINDER	64 GALLONS	1,408 LBS OF CO2	\$134

*PRICE BASED ON AVERAGE ESTIMATED GASOLINE PRICE AT \$2.10

3.8 MILLION GALLONS

OF FUEL IS WASTED BY IDLING IN THE U.S.

EVERY DAY

THAT IS EQUAL TO

5 OLYMPIC-SIZE SWIMMING
POOLS FILLED WITH FUEL



40,000

TONS OF CO₂



REDUCING AMERICA'S IDLING COULD SAVE

200,000

BARRELS OF FOREIGN OIL IMPORTS

PER DAY

\$7,980,000
EVERY DAY

**SMALL ACTION
BIG CHANGE**



— IT'S YOUR TURN —
TURN IT OFF

LEARN HOW TO BE IDLE-FREE
WWW.ITURNITOFF.COM

PLAN CARPOOLS FOR YOUR GROUP THE RIGHT WAY.

<https://www.groupcarpool.com/>

+ CREATE A CARPOOL



ADD or JOIN a carpool

+



Driver Location

Departing Trip

Return Trip

WAITLIST



Bellevue



7:20am Mon 1/8



Marilyn Mayers

I can take 3 pe...
details

not enough drivers?

Add yourself to the waitlist or
[add a carpool](#)

+ Join Waitlist

Natalie t @ Auburn

Tabitha @ Seattle

Tabitha @ Seattle

david kipnis @ Seattle

Jill MacIntyre Witt @ Bellingham

Audrey Zemke @ Seattle

Shaylon Blair Stolk @ Seattle

Meg Wade @ Seattle



Seattle

8:00am Wed 12/27



4:00pm Wed 12/27



What are some actions we can take as individuals? A community? A nation?

Please discuss at your tables.

Have someone jot down what you'd like to share with the group.



Climate on Tap

Thank you for coming!
Questions?

Facilitator:

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