

# 1. Setting the Stage

## BAP and BAU

September 21, 2022

**SSG**

# A BAU and A BAP

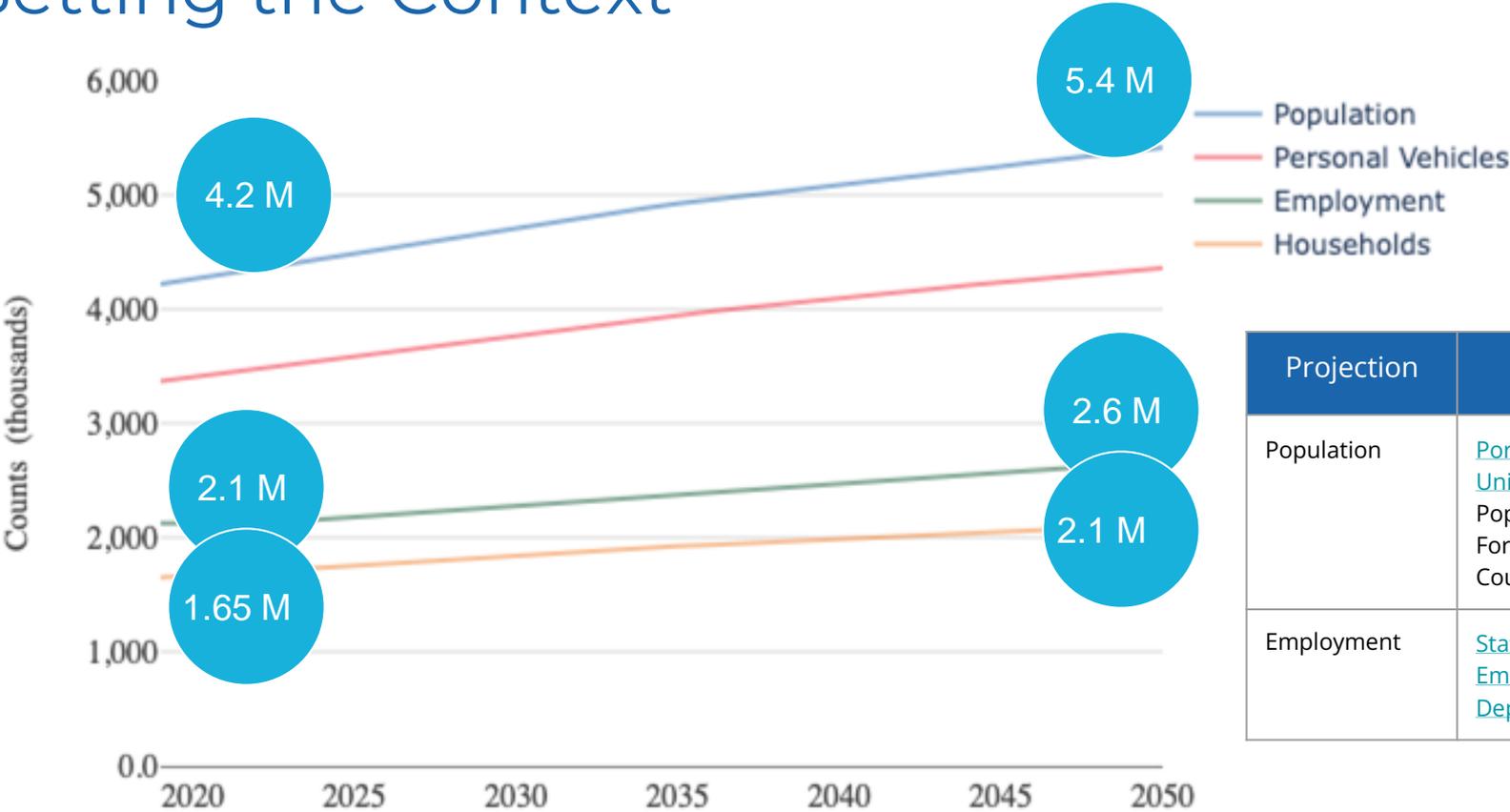
## What does it mean?

BAU	BAP
<ul style="list-style-type: none"><li>● Population growth</li><li>● Employment growth</li><li>● Transportation fuel standards</li><li>● Heating and cooling degree days</li><li>● New building growth</li></ul>	<ul style="list-style-type: none"><li>● HB 2021</li><li>● Climate Protection Program (CPP)</li><li>● Clean Fuels Standard</li><li>● Increased EV Light-Duty Sales</li><li>● Advanced Clean Trucks</li><li>● Energy Efficiency Standards for Appliances</li><li>● Manufactured Home Replacement</li><li>● Solar + Storage Rebate Program</li><li>● Heat Pump Rebate Programs</li><li>● Community Renewable Energy Program</li><li>● Implement Healthy Homes Repair Fund</li></ul>

To be a business-as-planned action, it must be:

- In rule;
- Funded;
- Legislatively required; or
- Following market trends (e.g., observed EV adoption rates)

# Setting the Context



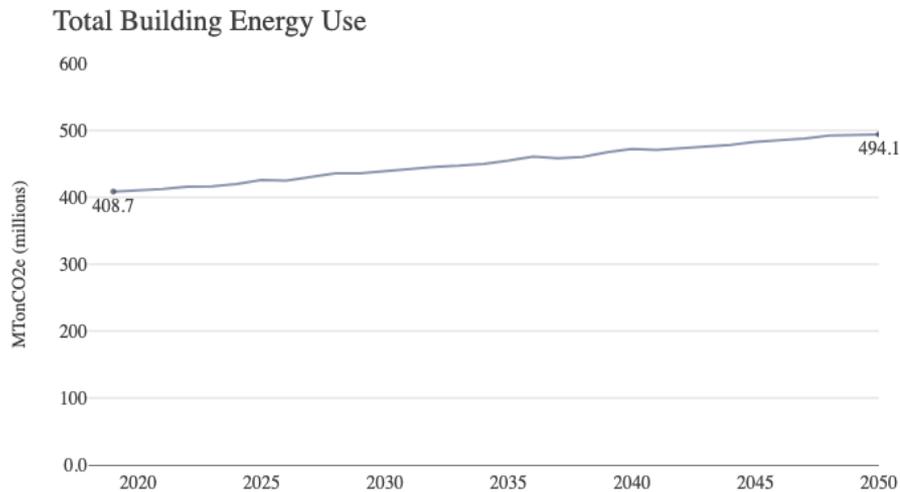
Projection	Source
Population	<a href="#">Portland State University Population Forecasts by County</a>
Employment	<a href="#">State of Oregon Employment Department</a>

# Future Growth

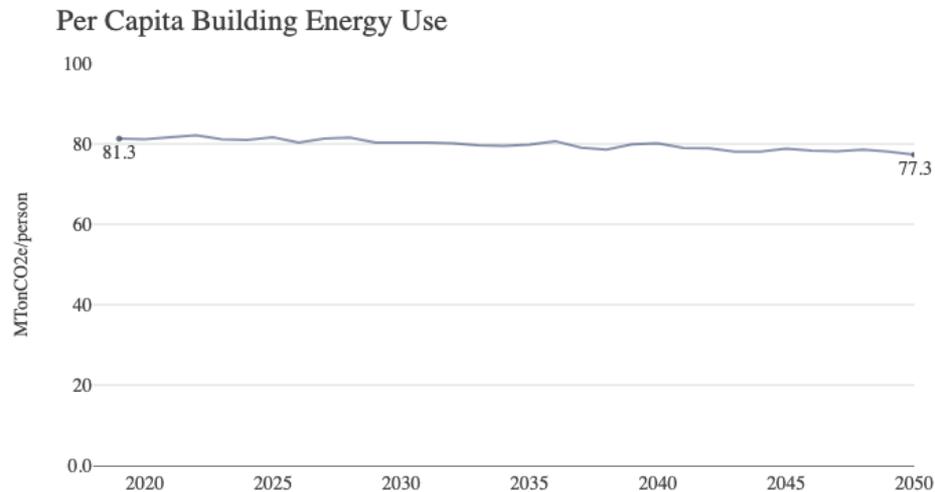
What does it mean?

	Residential Floorspace (million sqft)	Non Residential Floorspace (million sqft)
Existing (2019)	2,930	2,120
New (2050)	970	255

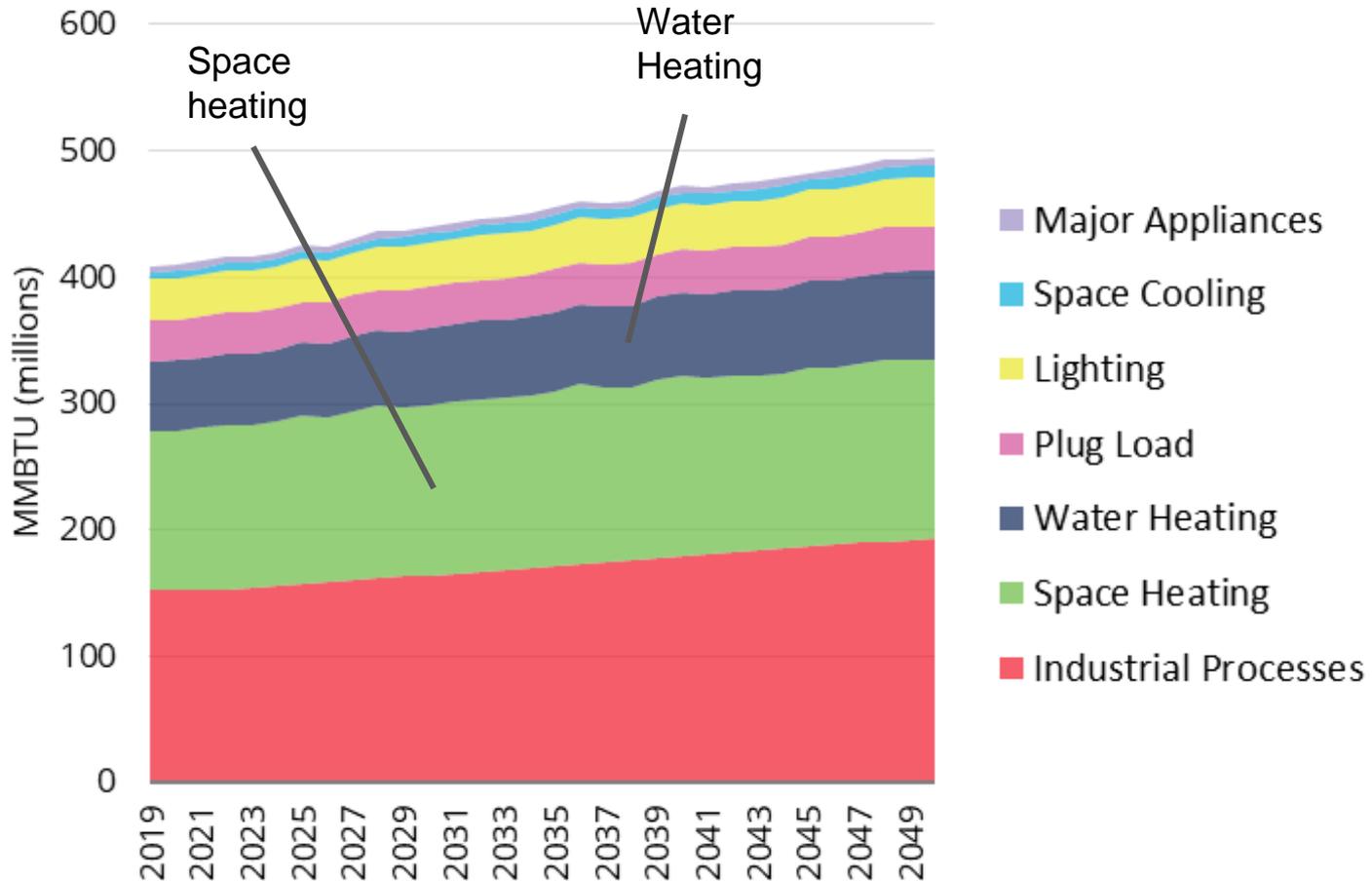
# Total energy use is projected to increase by 21%



# But per capita energy use declines by 5%



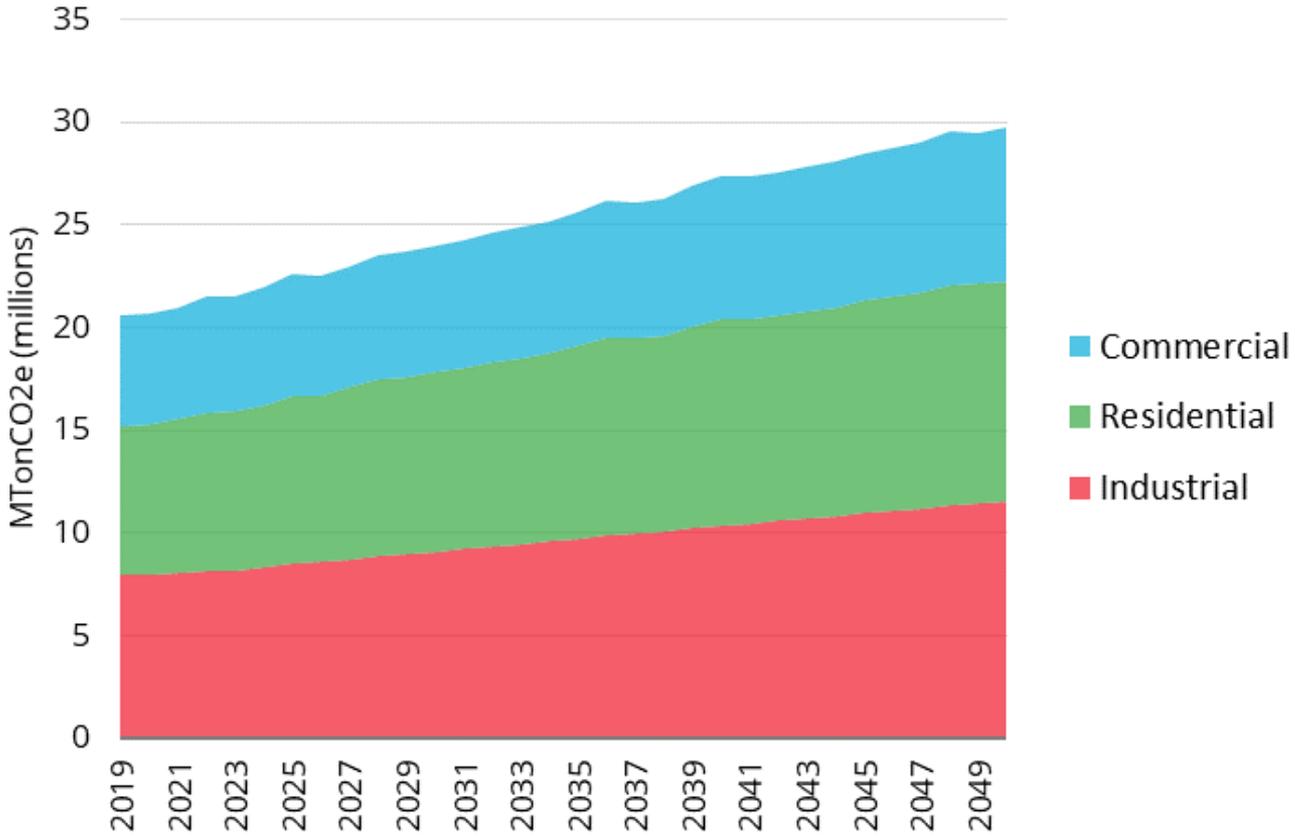
# BAU - Energy by End Use



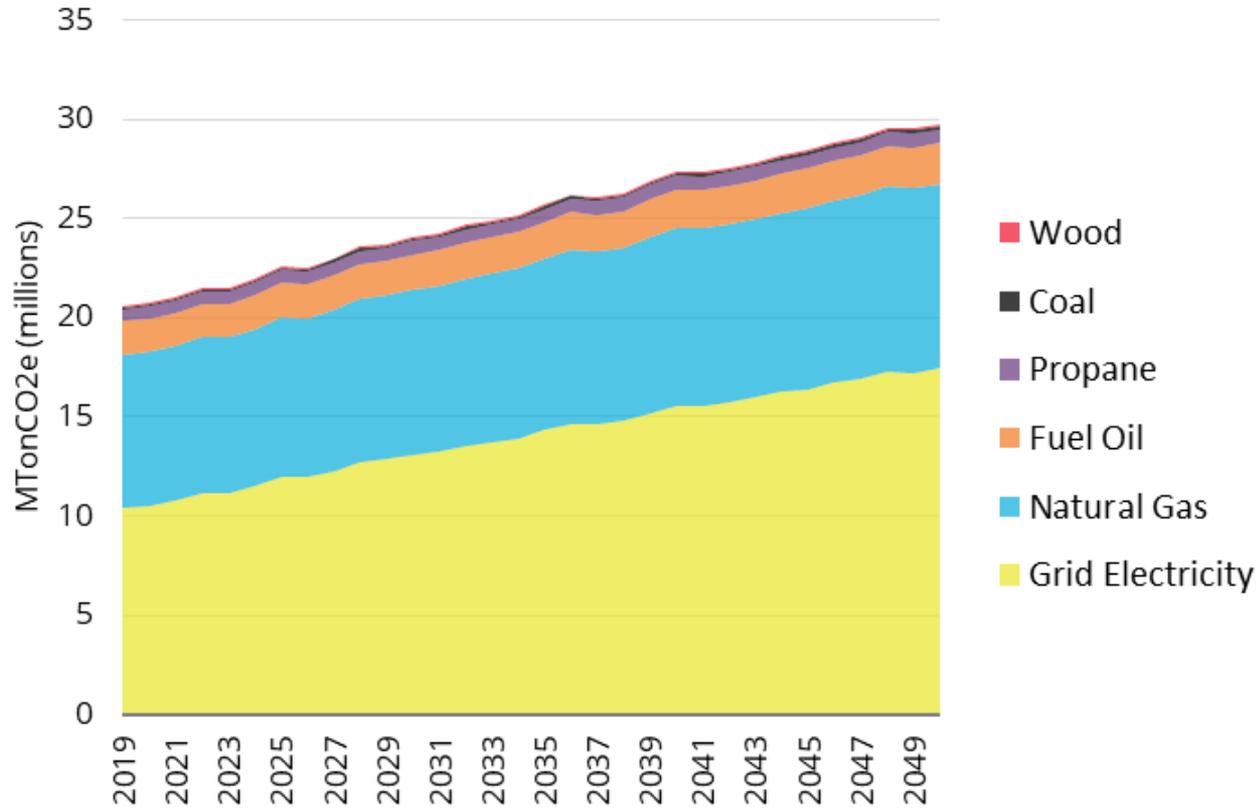
In 2019, buildings account for **46%** of the Oregon's total emissions

In 2050, its **50%** in the BAU scenario

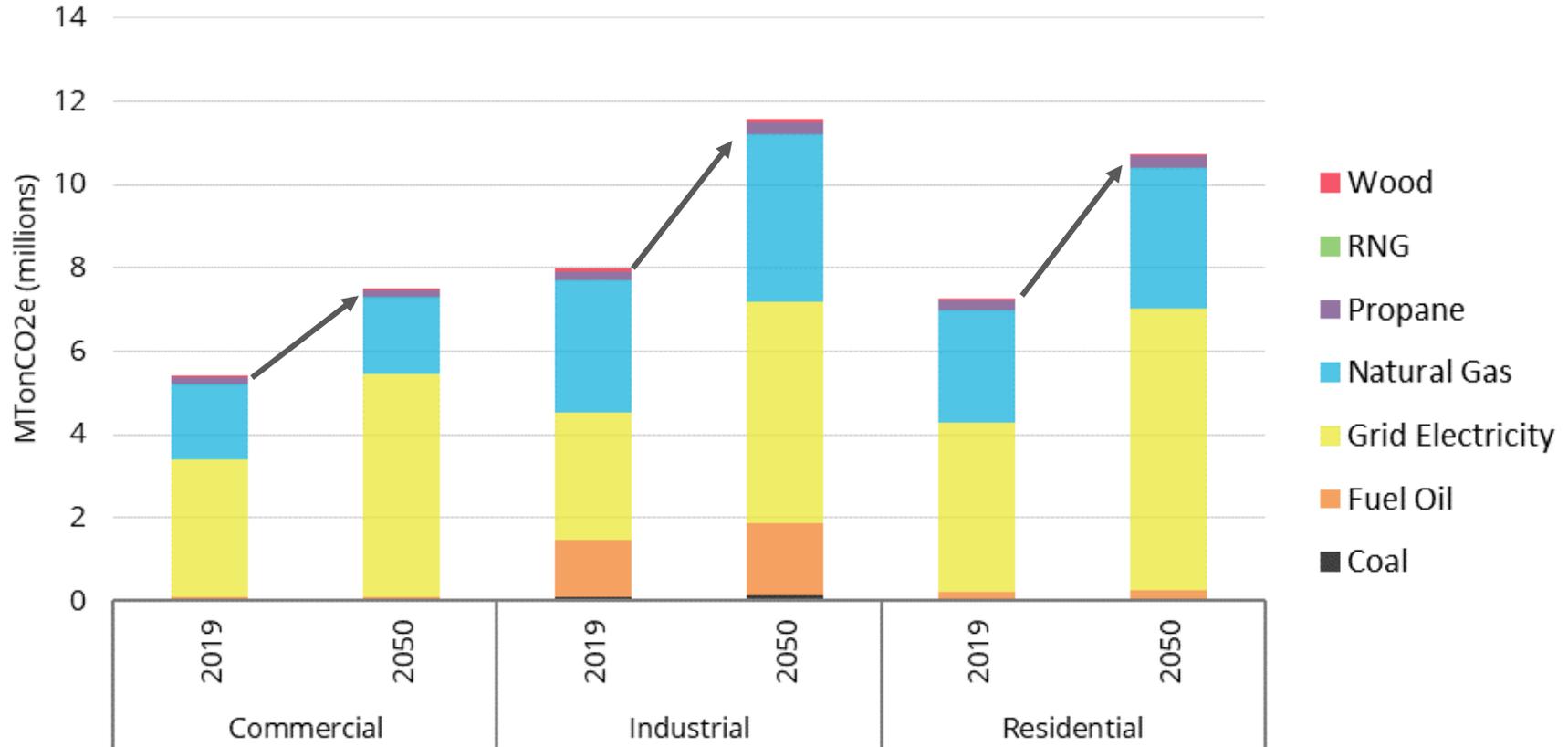
# BAU - Emissions by Sector



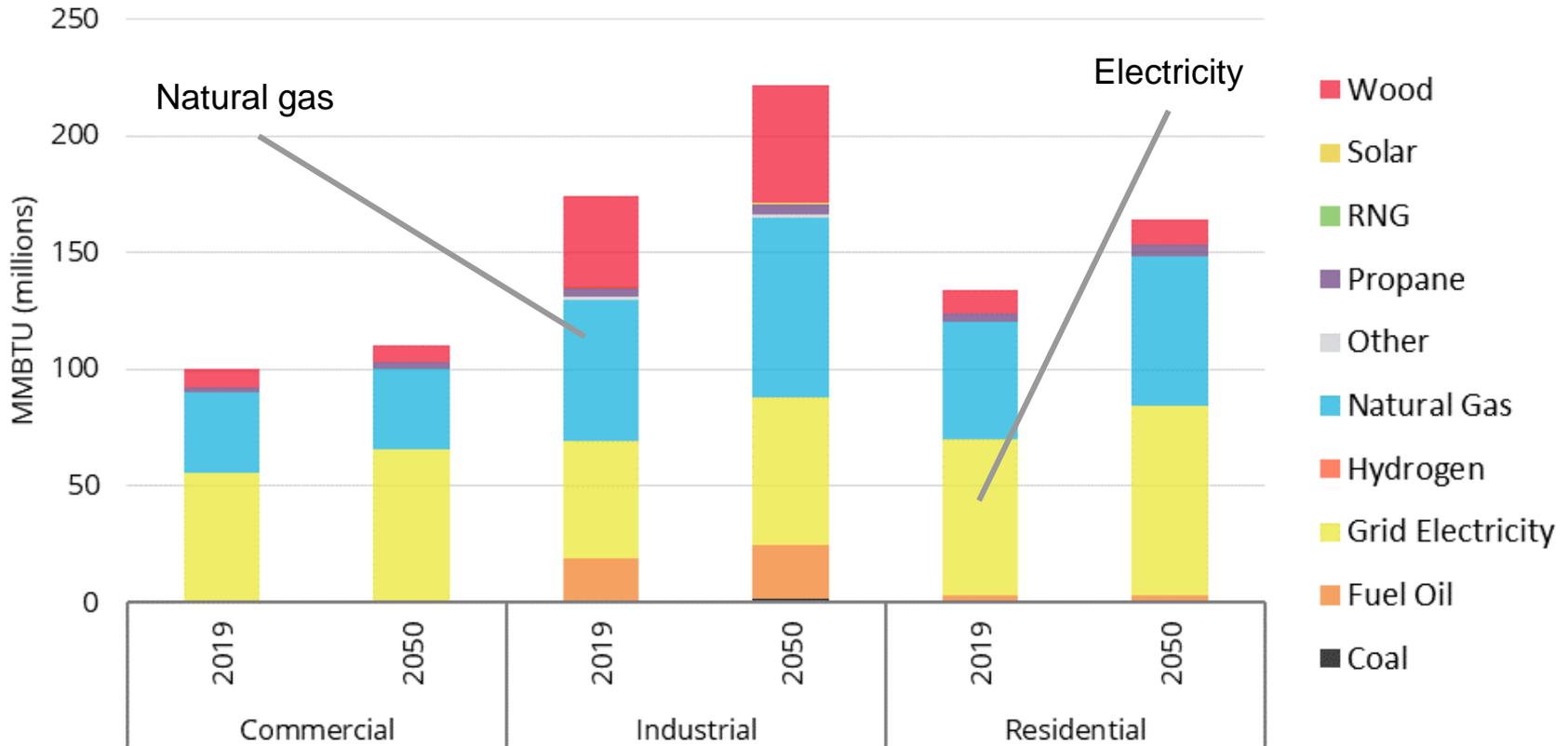
# BAU - Emissions by Fuel Type



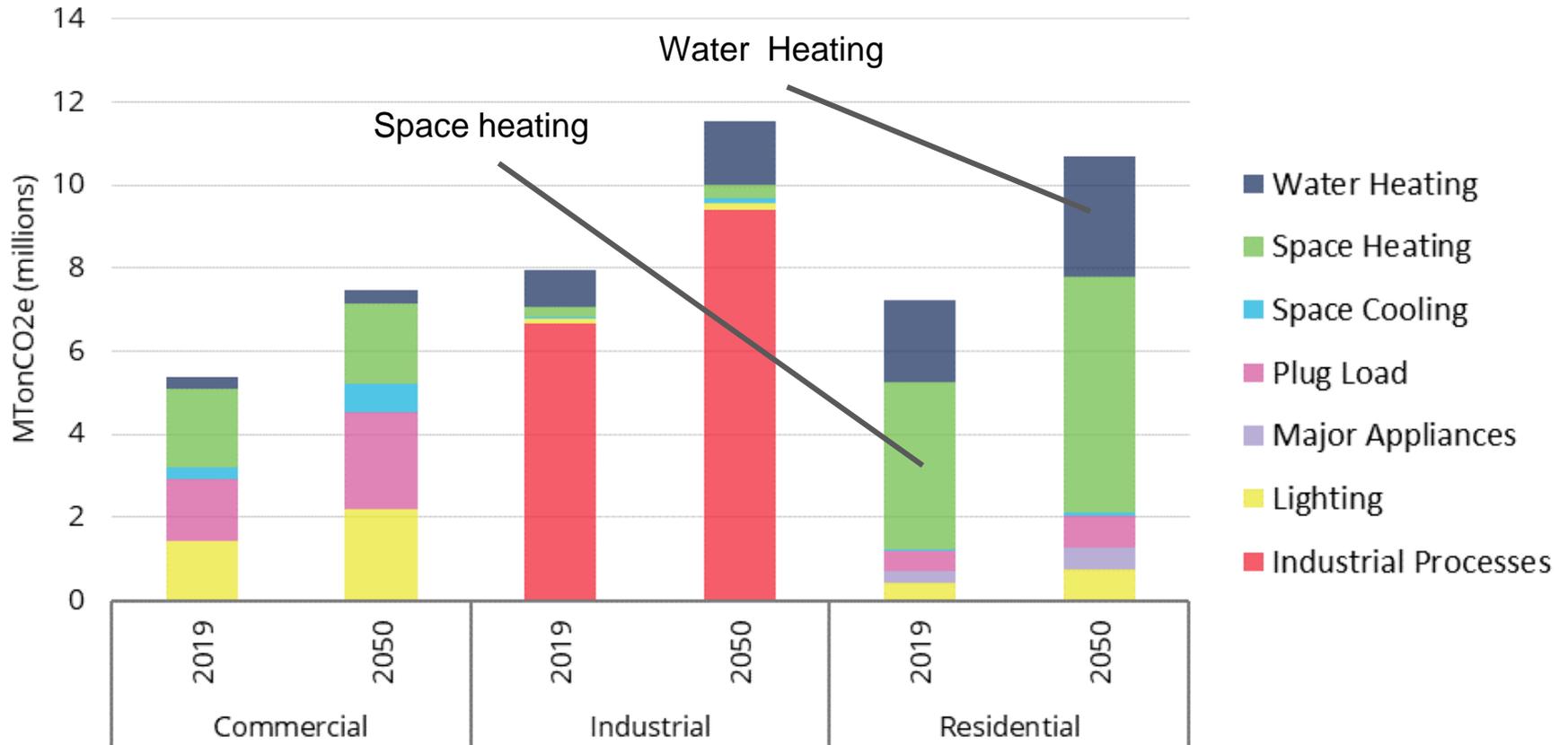
# BAU - Emissions by Sector and Fuel Type



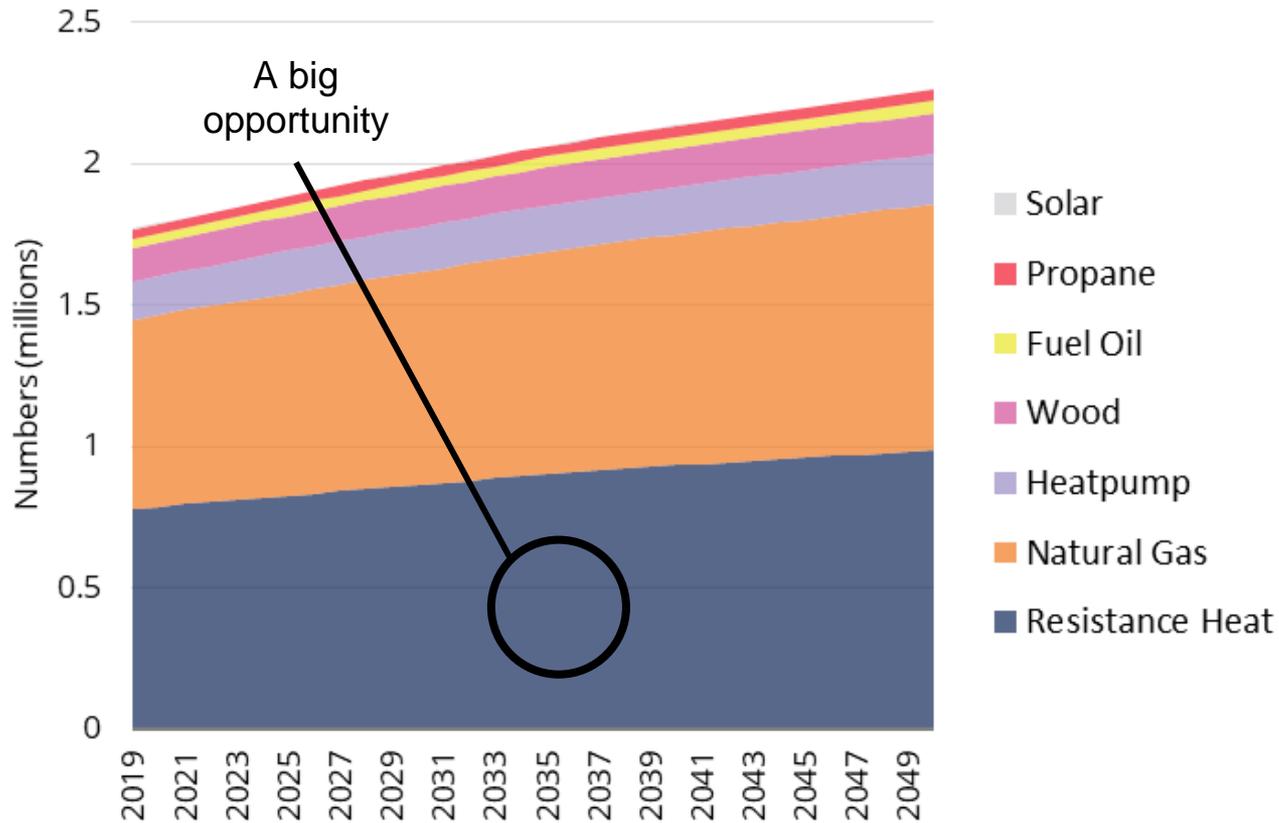
# BAU - Energy by Sector and Fuel Type



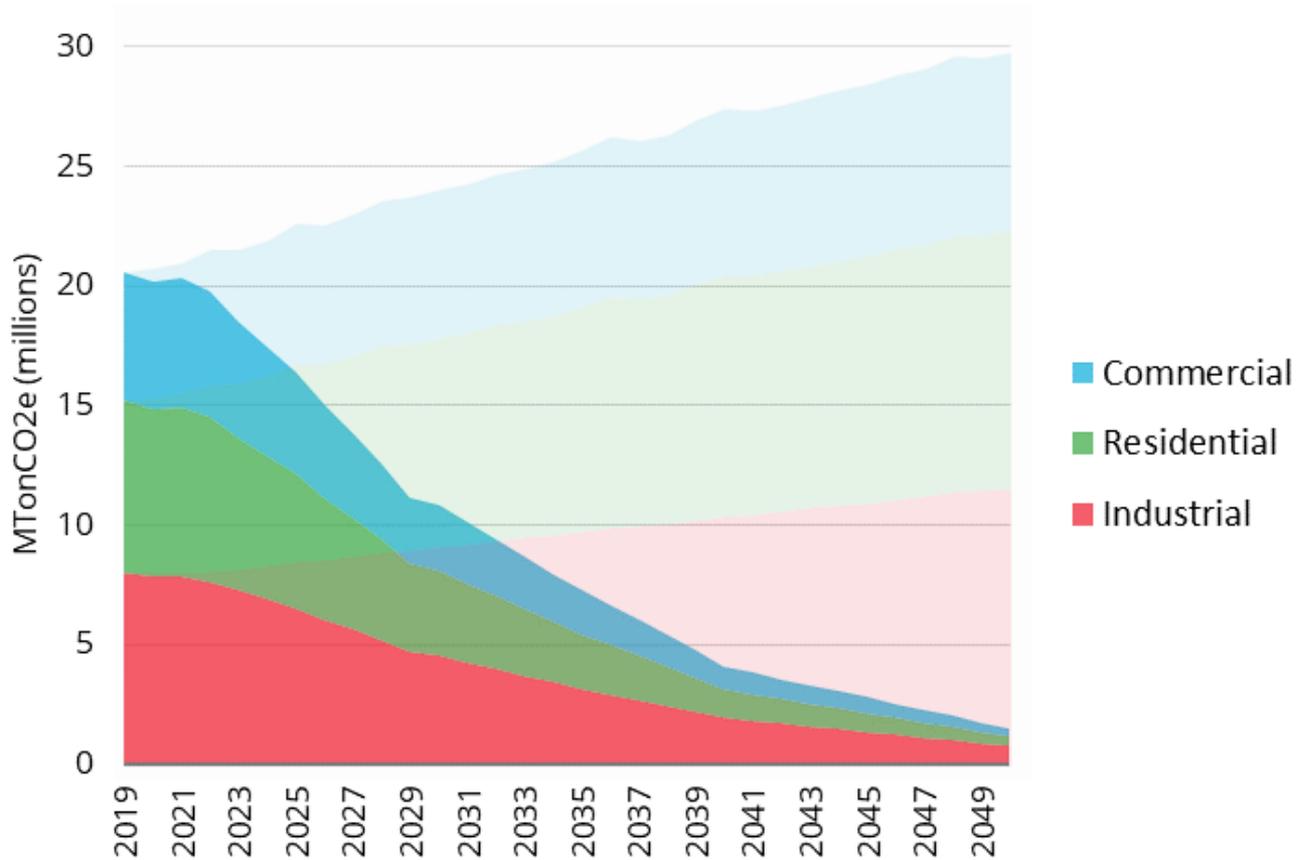
# BAU - Emissions by Sector and End Use



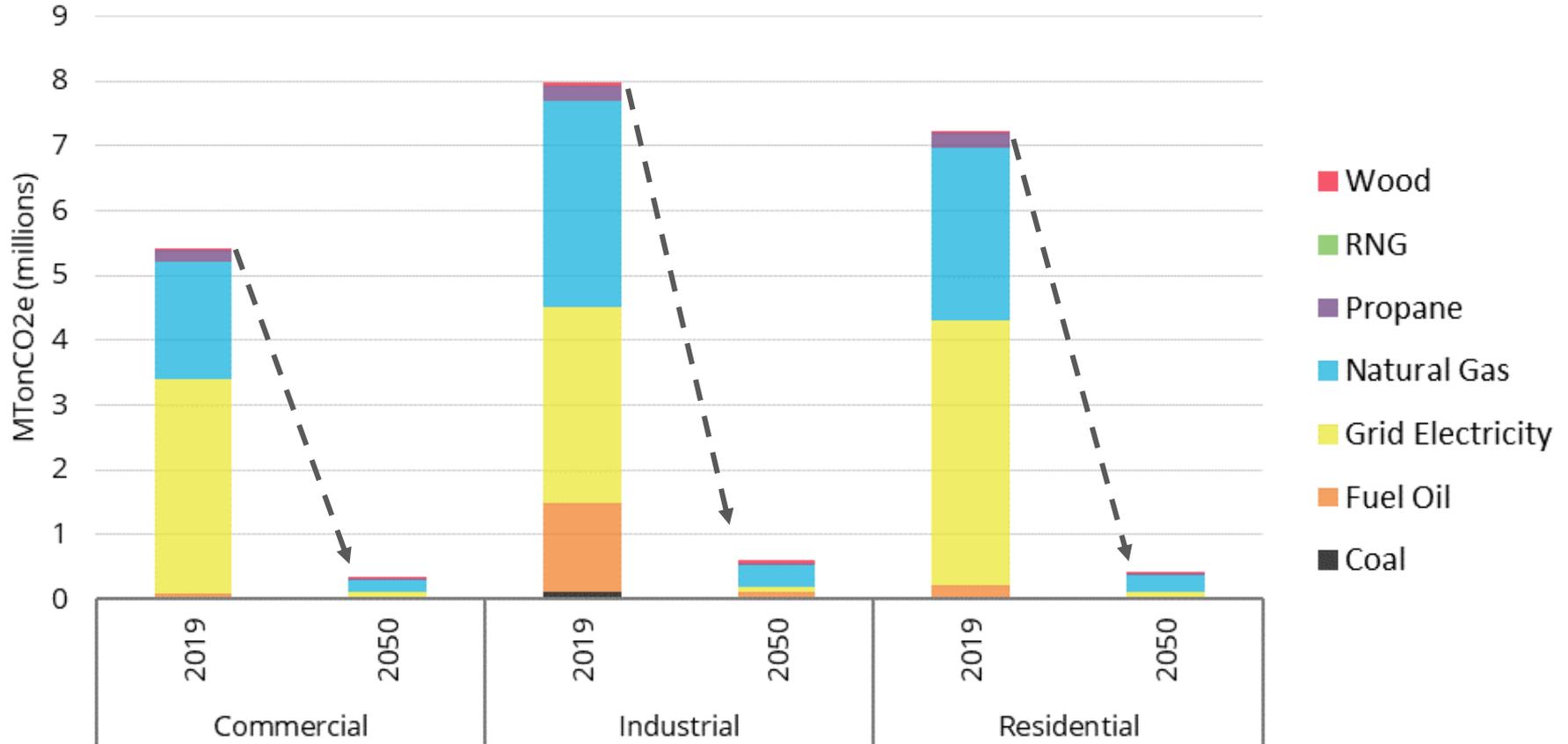
# BAU - Residential Heat Systems



# BAP - Emissions by Sector



# BAP - Emissions by Sector and Fuel Type



# BAP - Emissions by Sector and End Use

