

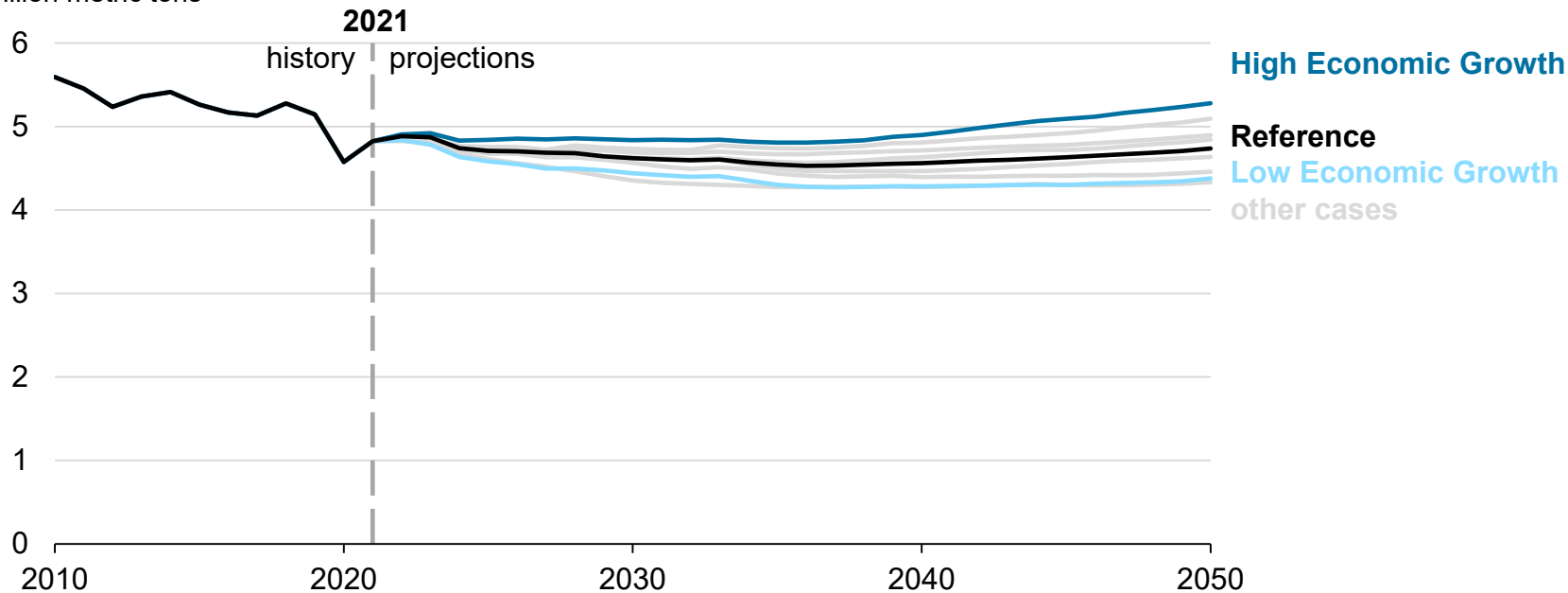
Emissions



# CO<sub>2</sub> emissions based on macroeconomic growth assumptions

U.S. energy-related CO<sub>2</sub> emissions  
AEO2022 economic growth cases

billion metric tons



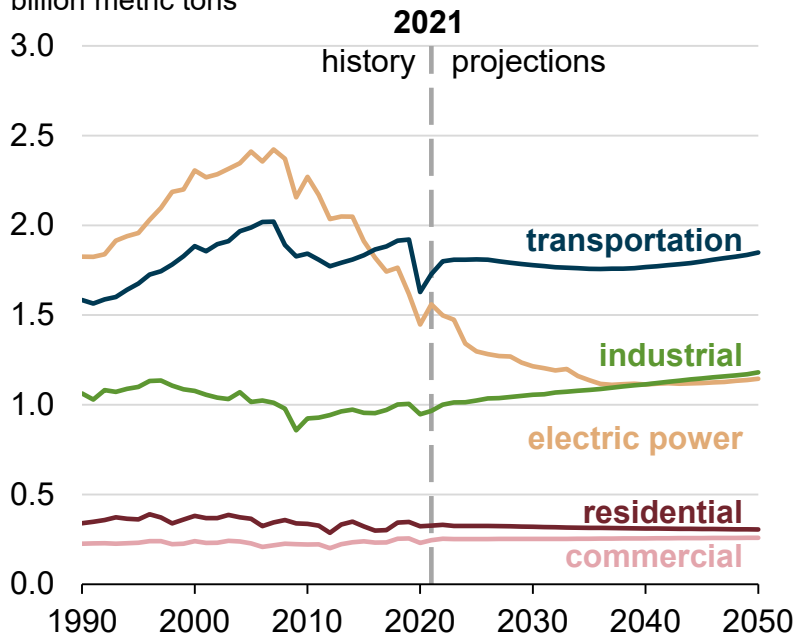


# Energy-related CO<sub>2</sub> emissions by sector and fuel

## Energy-related CO<sub>2</sub> emissions by sector

### AEO2022 Reference case

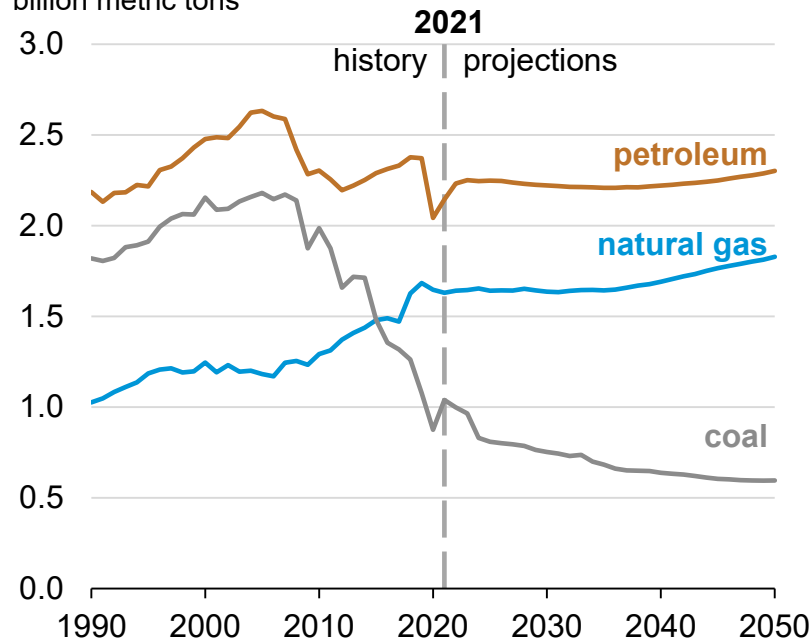
billion metric tons



## Energy-related CO<sub>2</sub> emissions by fuel

### AEO2022 Reference case

billion metric tons



Note: Series does not include greenhouse gases other than CO<sub>2</sub>. Industrial sector CO<sub>2</sub> emissions do not include process emissions, such as the emissions from cement clinker production.

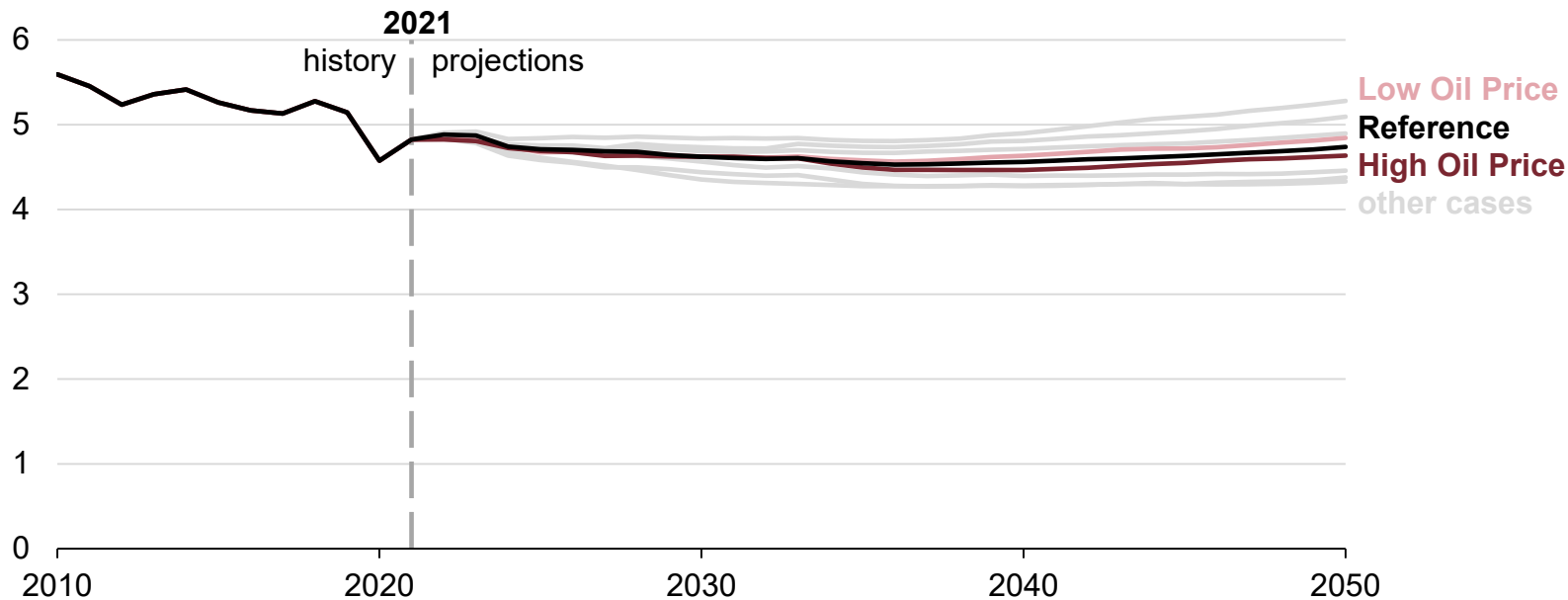


# Energy-related CO<sub>2</sub> emissions based on oil price assumptions

U.S. energy-related CO<sub>2</sub> emissions

AEO2022 oil price cases

billion metric tons



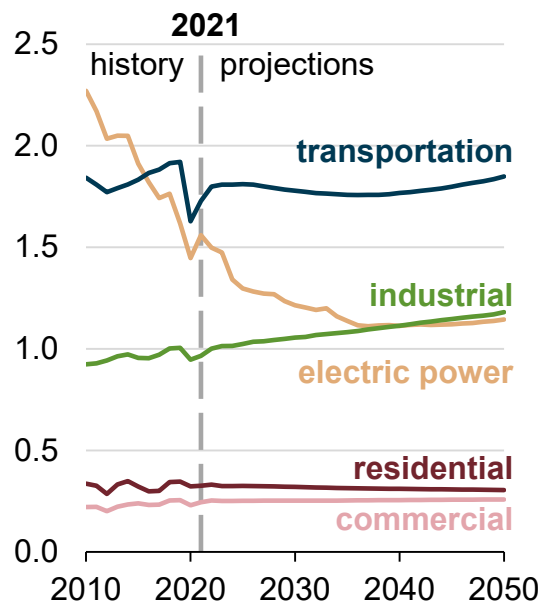


# Energy-related CO<sub>2</sub> emissions by sector based on oil price assumptions

## CO<sub>2</sub> emissions by sector, AEO2022 oil price cases

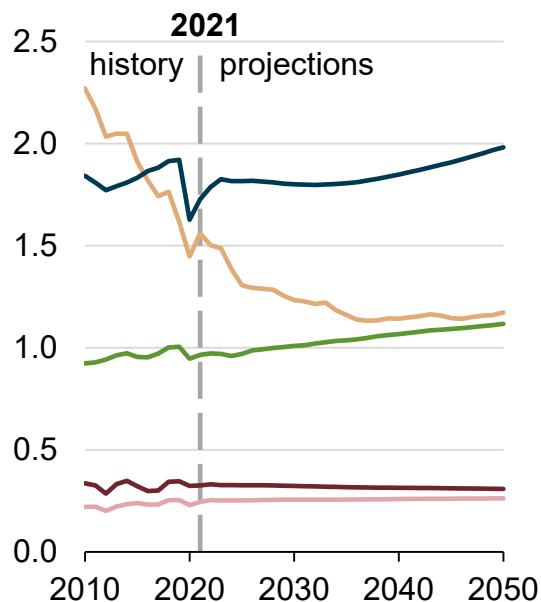
### Reference case

billion metric tons



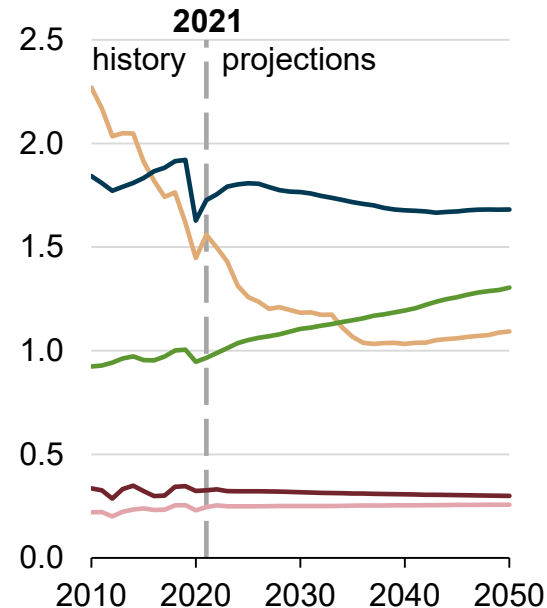
### Low Oil Price case

billion metric tons



### High Oil Price case

billion metric tons



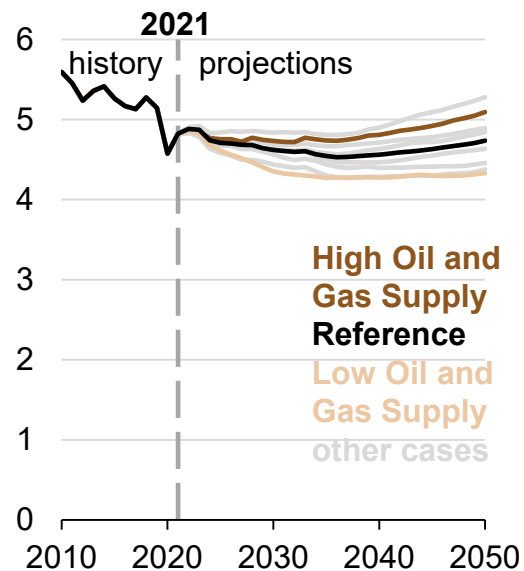
Note: Industrial sector CO<sub>2</sub> emissions do not include process emissions, such as the emissions from cement clinker production.



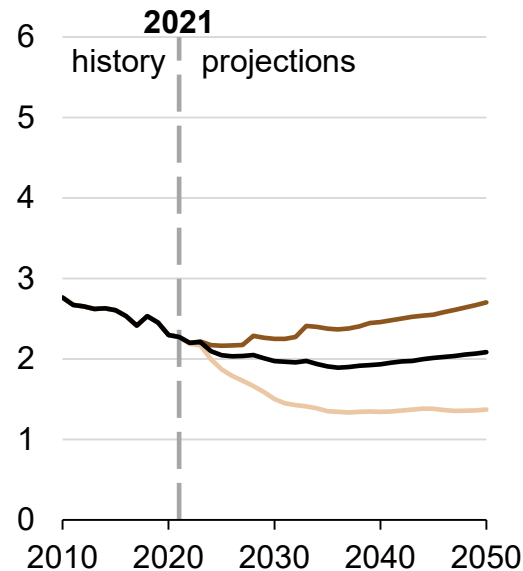
# Electric power generation and energy-related CO<sub>2</sub> emissions based on oil and natural gas supply assumptions

CO<sub>2</sub> emissions and electric power generation, AEO2022 oil and natural gas supply cases

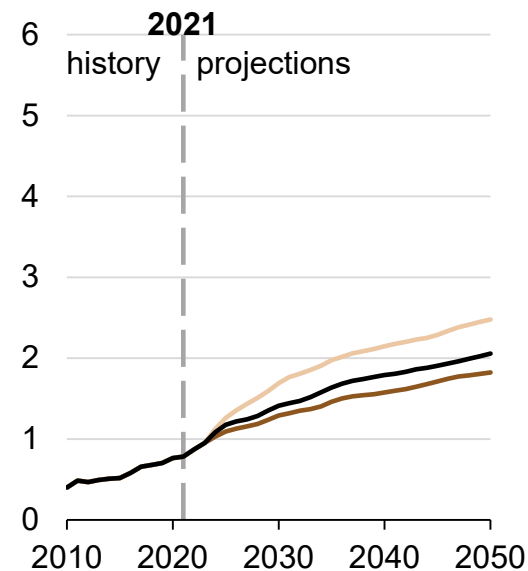
**U.S. energy-related CO<sub>2</sub> emissions**  
billion metric tons



**Fossil fuel-fired electric power generation**  
trillion kilowatthours



**Renewable electric power generation**  
trillion kilowatthours

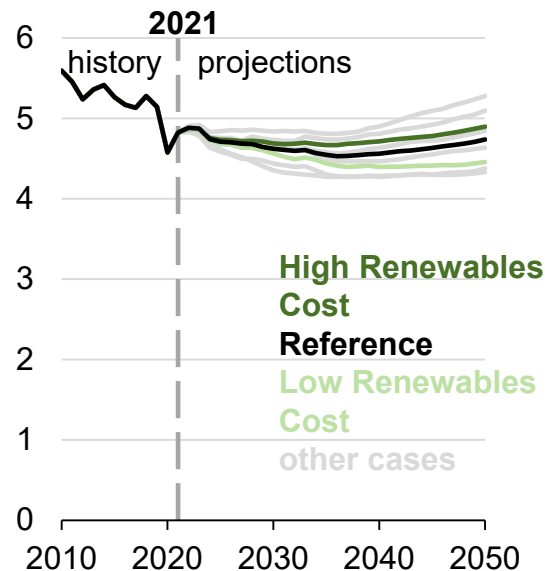




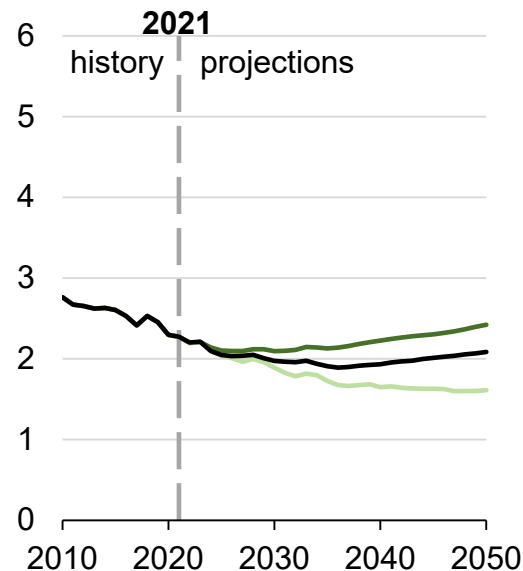
# Electric power generation and energy-related CO<sub>2</sub> emissions based on renewable cost assumptions

CO<sub>2</sub> emissions and electric power generation, AEO2022 renewables cost cases

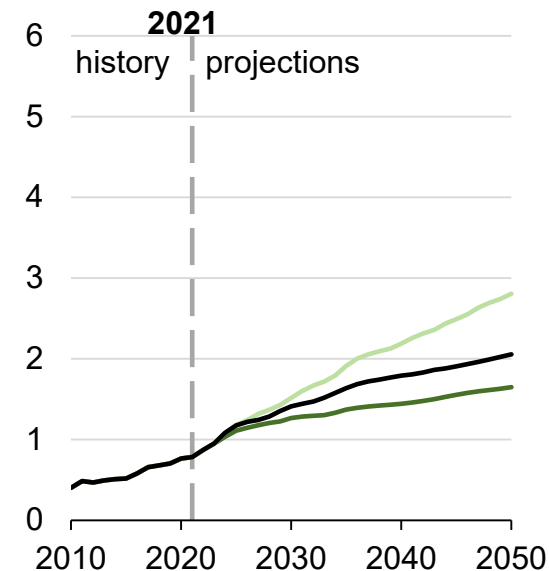
**U.S. energy-related CO<sub>2</sub> emissions**  
billion metric tons



**Fossil fuel-fired electric power generation**  
trillion kilowatthours



**Renewable electric power generation**  
trillion kilowatthours



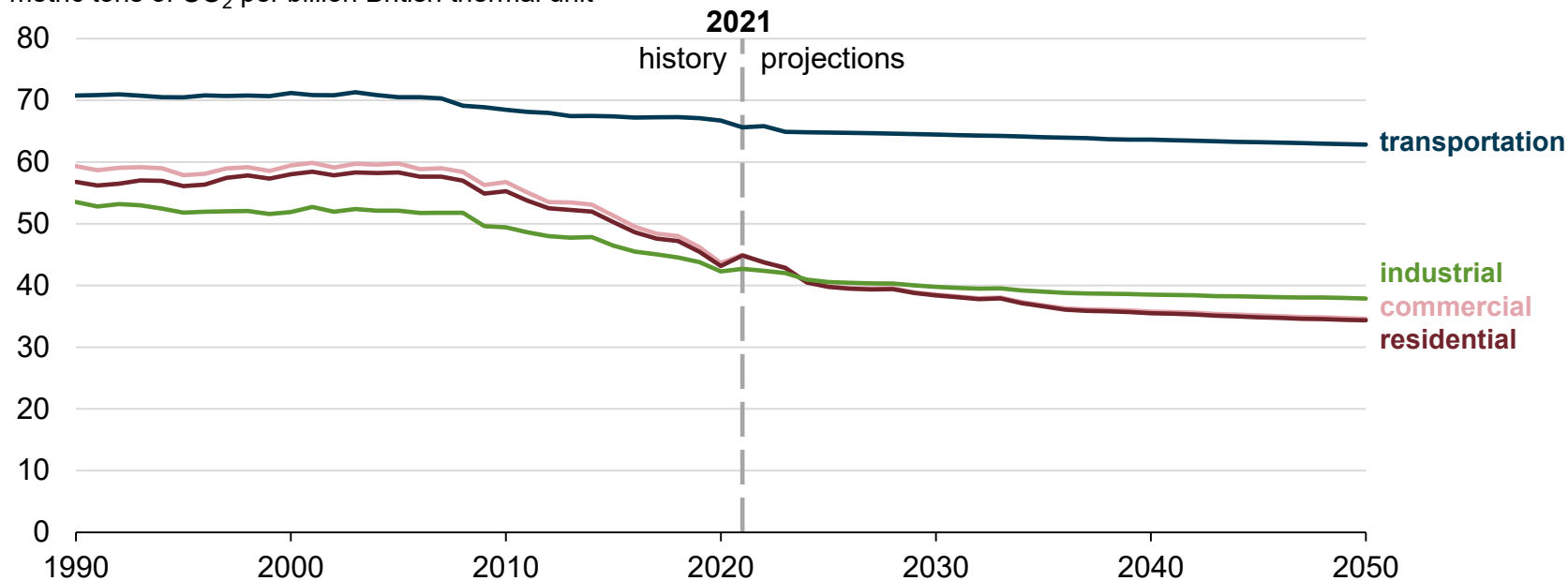


# CO<sub>2</sub> intensity by sector

## CO<sub>2</sub> intensity by end-use sector

### AEO2022 Reference case

metric tons of CO<sub>2</sub> per billion British thermal unit



Note: Each end-use sector takes into account the carbon intensity of electric power. Industrial sector CO<sub>2</sub> emissions do not include process emissions, such as the emissions from cement clinker production.