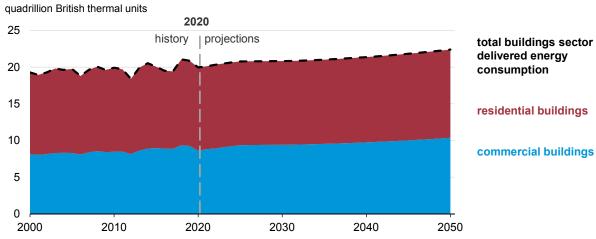




## Buildings sector delivered energy consumption

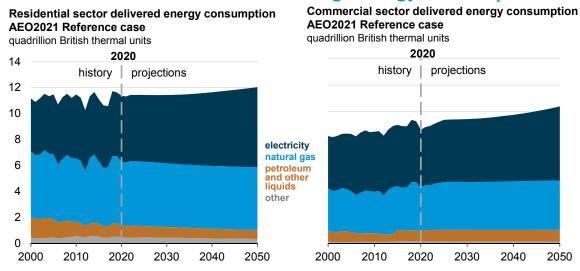
#### **Buildings delivered energy consumption**

#### AEO2021 Reference case





### Residential and commercial buildings energy consumption





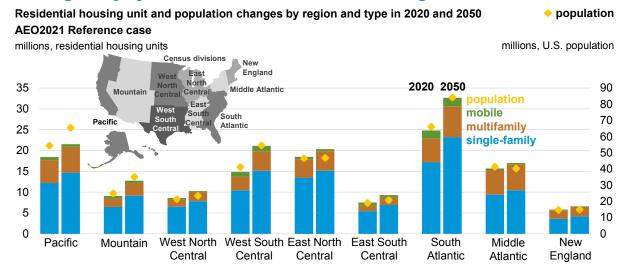
Source: U.S. Energy Information Administration, Annual Energy Outlook 2021 (AEO2021)

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### Change in population and residential housing stocks

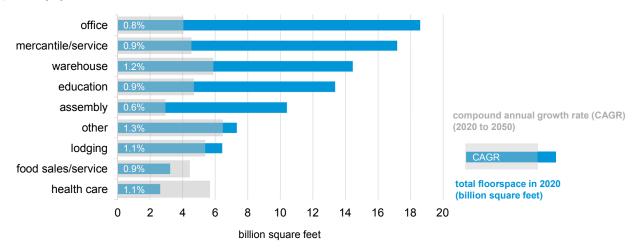




### Commercial buildings floorspace growth

Commercial floorspace in 2020 and growth in floorspace from 2020 to 2050 AEO2021 Reference case

percentage growth





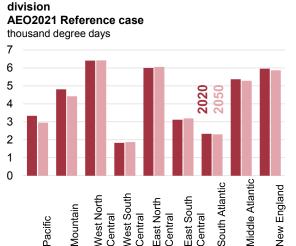
Source: U.S. Energy Information Administration, Annual Energy Outlook 2021 (AEO2021)

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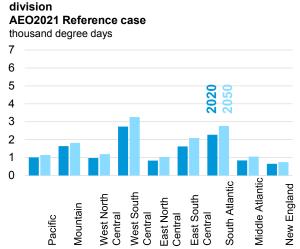




### Population-weighted heating and cooling degree days



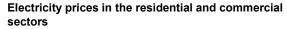
Population-weighted heating degree days by census



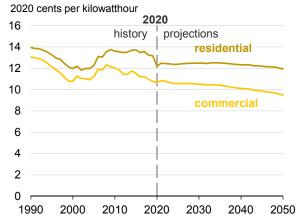
Population-weighted cooling degree days by census



#### Residential and commercial electricity and natural gas prices

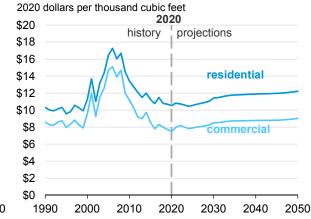


#### **AEO2021 Reference case**



### Natural gas prices in the residential and commercial sectors

#### **AEO2021 Reference case**





Source: U.S. Energy Information Administration, Annual Energy Outlook 2021 (AEO2021)

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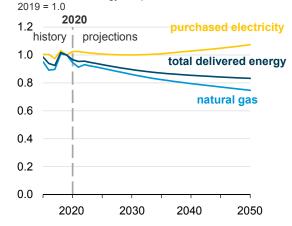




### Residential and commercial energy intensity

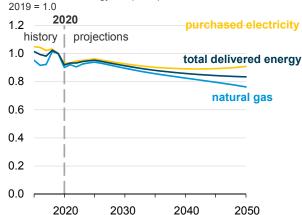
### Indexed residential delivered energy intensity AEO2021 Reference case

indexed annual energy use per household



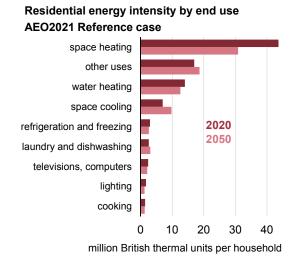
### Indexed commercial delivered energy intensity AEO2021 Reference case

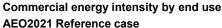
indexed annual energy use per square foot

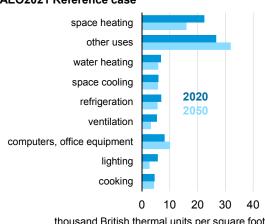




#### Residential and commercial overall energy intensity by end use







thousand British thermal units per square foot

Note: Intensities reflect all energy sources consumed, including both purchased electricity and electricity produced onsite for own use.



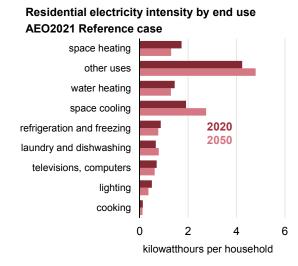
Source: U.S. Energy Information Administration, Annual Energy Outlook 2021 (AEO2021)

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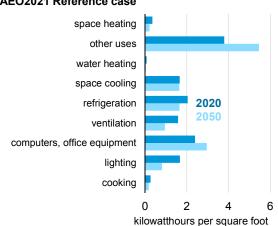




### Residential and commercial electricity intensity by end use



#### Commercial electricity intensity by end use AEO2021 Reference case

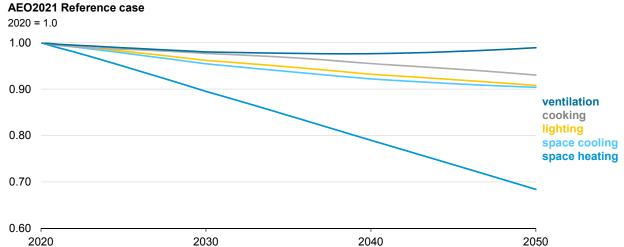


Note: Intensities reflect both purchased electricity and electricity produced onsite for own use.





## Commercial building end-use intensities Indexed commercial service provided per square foot of floorspace





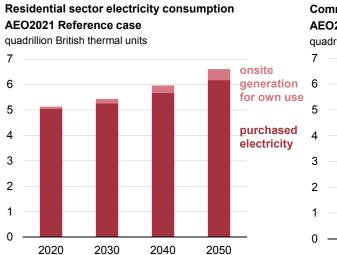
Source: U.S. Energy Information Administration, Annual Energy Outlook 2021 (AEO2021)

www.eia.gov/aeo

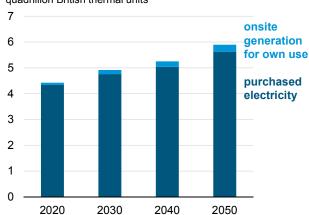




### Residential and commercial onsite generation versus purchased electricity

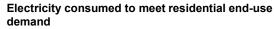


#### Commercial sector electricity consumption **AEO2021 Reference case** quadrillion British thermal units

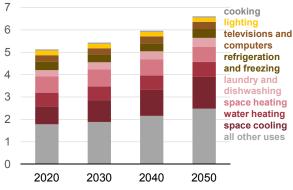




#### Residential consumption of onsite generation versus purchased electricity

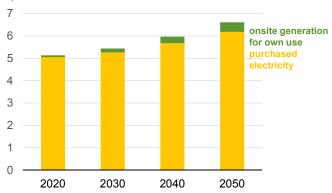


#### **AEO2021 Reference case** quadrillion British thermal units



#### Onsite generation and purchased electricity consumed to meet residential end-use demand AEO2021 Reference case

quadrillion British thermal units



Note: Onsite generation projections are not attributed to any particular end use.



Source: U.S. Energy Information Administration, Annual Energy Outlook 2021 (AEO2021)

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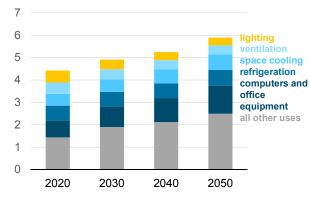


### Commercial consumption of onsite generation versus purchased electricity

#### Electricity consumed to meet commercial end-use demand

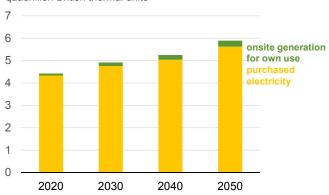
#### **AEO2021 Reference case**

quadrillion British thermal units



#### Onsite generation and purchased electricity consumed to meet commercial end-use demand AEO2021 Reference case

quadrillion British thermal units

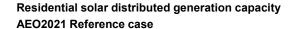


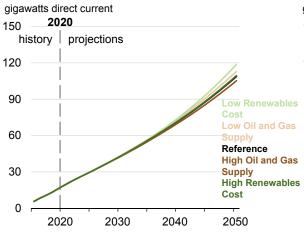
Note: Onsite generation projections are not attributed to any particular end use.



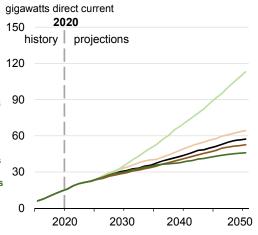


### Residential and commercial solar photovoltaic generation capacity





#### Commercial solar distributed generation capacity AEO2021 Reference case





Source: U.S. Energy Information Administration, Annual Energy Outlook 2021 (AEO2021)

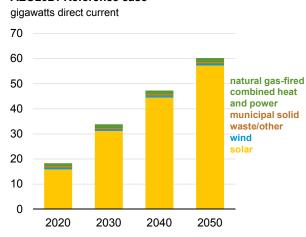
www.eia.gov/aeo



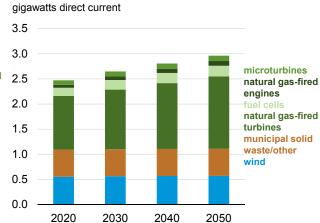


### Commercial distributed generation capacity

#### Commercial distributed generation capacity **AEO2021 Reference case**



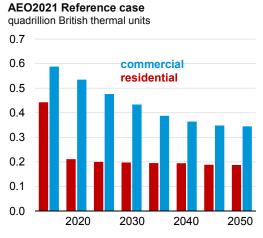
#### Commercial non-solar distributed generation capacity **AEO2021 Reference case**



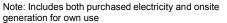
16

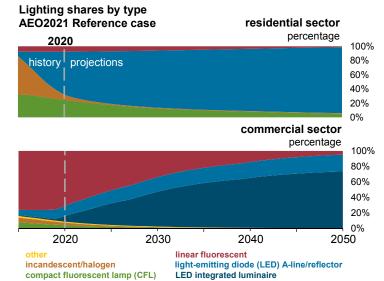


# Residential and commercial lighting consumption and lighting shares



Electricity consumed to meet lighting demand







Source: U.S. Energy Information Administration, Annual Energy Outlook 2021 (AEO2021)

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