

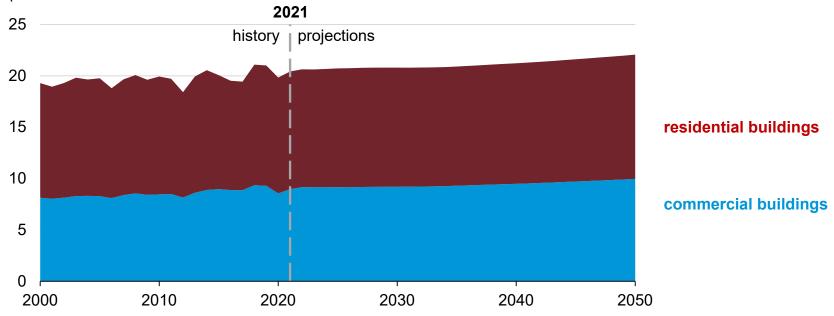


Total buildings sector delivered energy consumption

Buildings delivered energy consumption

AEO2022 Reference case

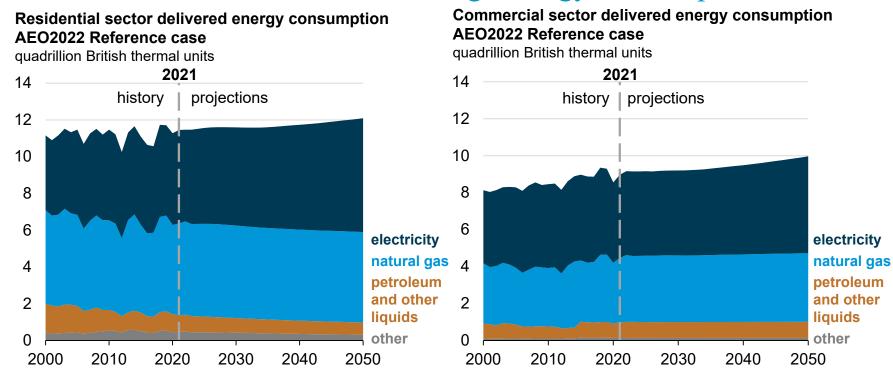
quadrillion British thermal units







Residential and commercial buildings energy consumption







Change in population and residential housing stocks

Residential housing unit and population changes by region and type in 2021 and 2050 AEO2022 Reference case population millions, U.S. population millions, residential housing units census divisions New **England** East West 2021 2050 35 105 Middle Atlantic Mountain Central Centra population East 30 90 West mobile South South South Pacific **Atlantic** multifamily 25 Central 75 single-family 20 60 15 45 10 30 15 0 West South East North West North East South South New **Pacific** Mountain Middle Central Central Central Central Atlantic **England** Atlantic

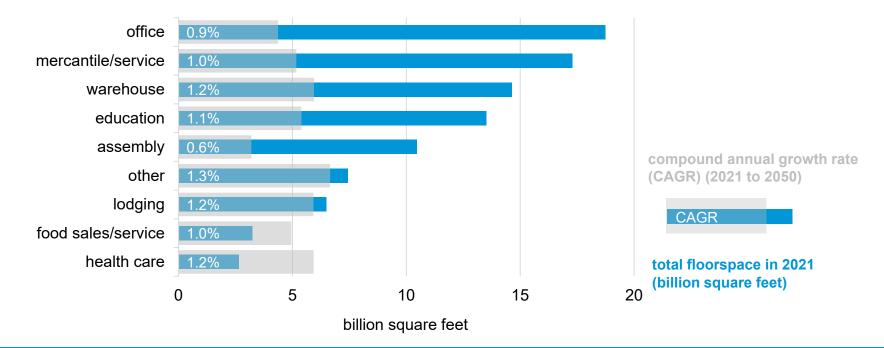




Commercial buildings floorspace growth

Commercial floorspace in 2021 and growth in floorspace from 2021 to 2050 AEO2022 Reference case

percentage growth





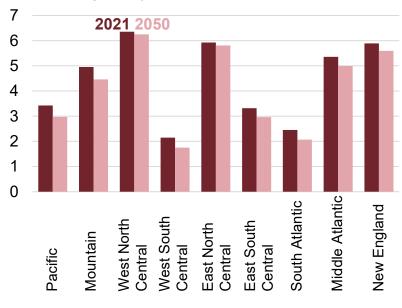


Population-weighted heating and cooling degree days

Population-weighted heating degree days by census division

AEO2022 Reference case

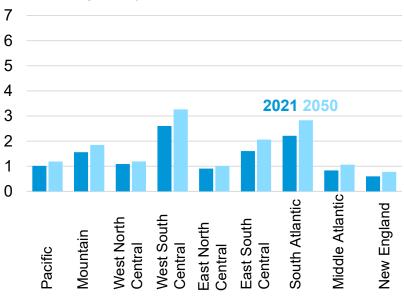
thousand degree days



Population-weighted cooling degree days by census division

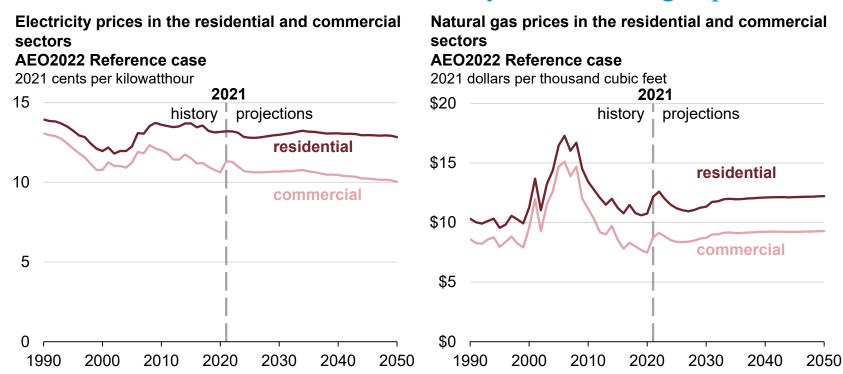
AEO2022 Reference case

thousand degree days





Residential and commercial electricity and natural gas prices

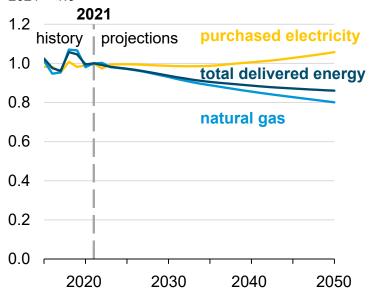




Residential and commercial energy intensity

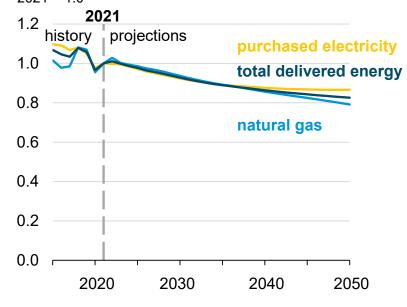
Indexed residential delivered energy intensity AEO2022 Reference case

indexed annual energy use per household 2021 = 1.0



Indexed commercial delivered energy intensity AEO2022 Reference case

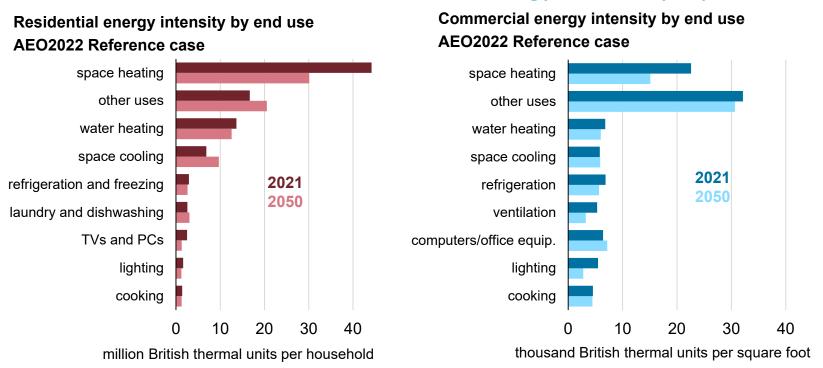
indexed annual energy use per square foot 2021 = 1.0







Residential and commercial overall energy intensity by end use

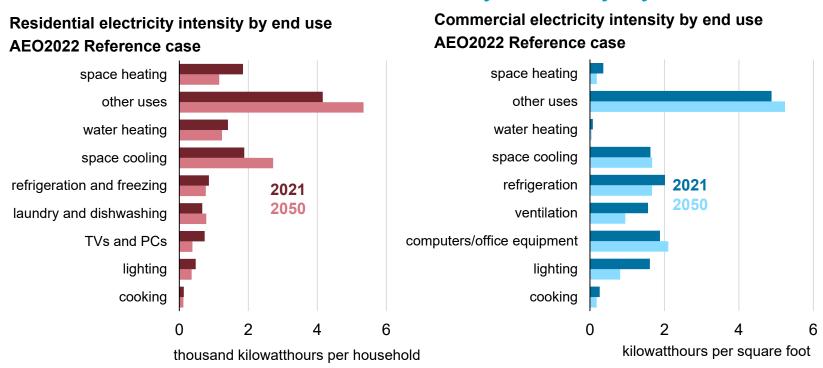


Note: Intensities reflect all energy sources consumed, including both purchased electricity and electricity produced onsite for own use.





Residential and commercial electricity intensity by end use



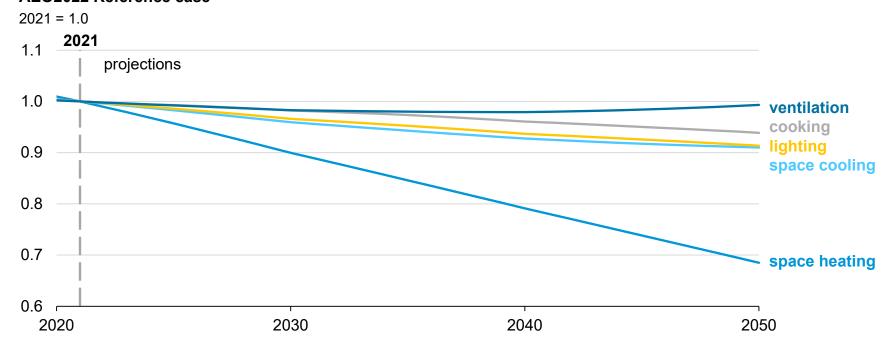
Note: Intensities reflect both purchased electricity and electricity produced onsite for own use.





Commercial building end-use intensities

Indexed commercial service provided per square foot of floorspace AEO2022 Reference case



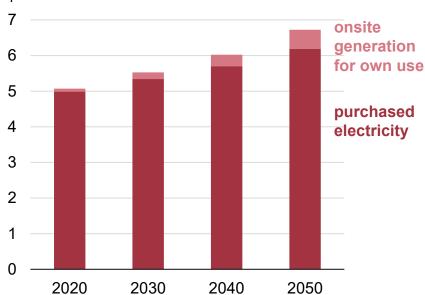




Residential and commercial onsite generation versus purchased electricity

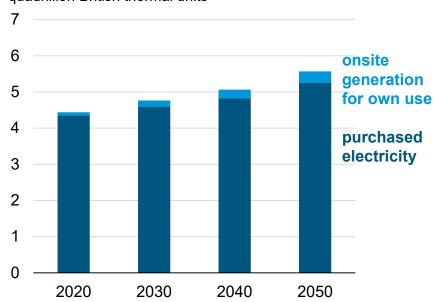
Residential sector electricity consumption AEO2022 Reference case

quadrillion British thermal units



Commercial sector electricity consumption AEO2022 Reference case

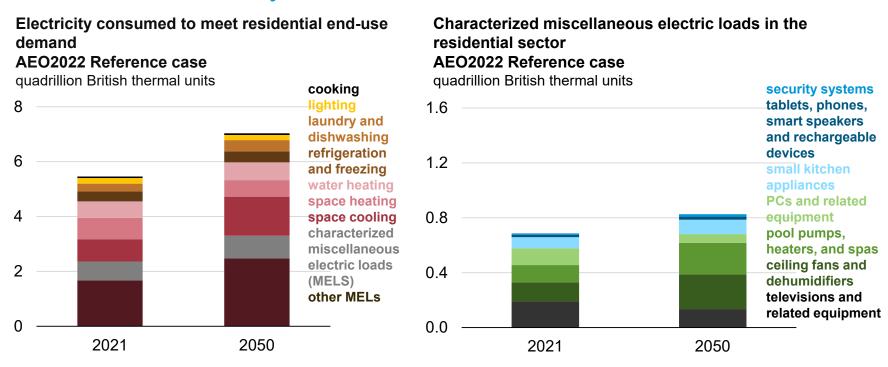
quadrillion British thermal units







Residential electricity use and miscellaneous electrical loads



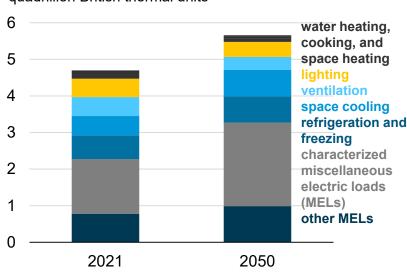
Note: The other MELs category includes aggregated energy use for end uses not explicitly characterized in the right-hand chart, as well as unspecified electricity consumption.



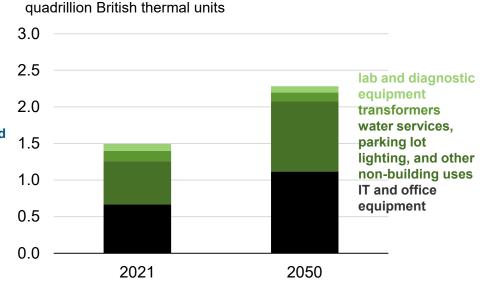


Commercial electricity use and miscellaneous electrical loads

Electricity consumed to meet commercial end-use demand AEO2022 Reference case quadrillion British thermal units



Characterized miscellaneous electric loads in the commercial sector AEO2022 Reference case

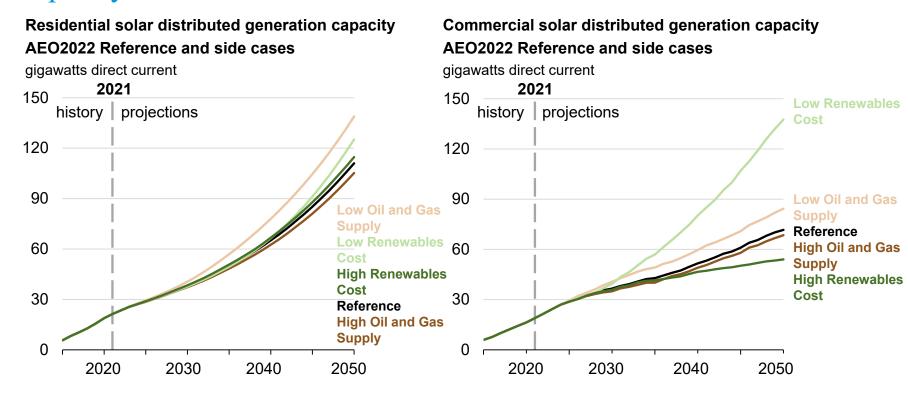


Note: The other MELs category includes aggregated energy use for end uses not explicitly characterized in the right-hand chart, as well as unspecified electricity consumption.





Residential and commercial solar photovoltaic generation capacity



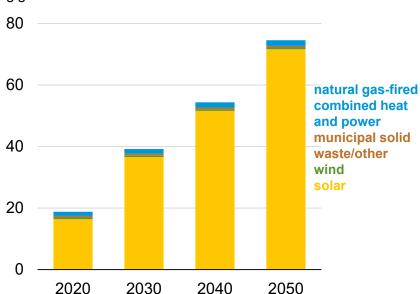




Commercial distributed generation capacity

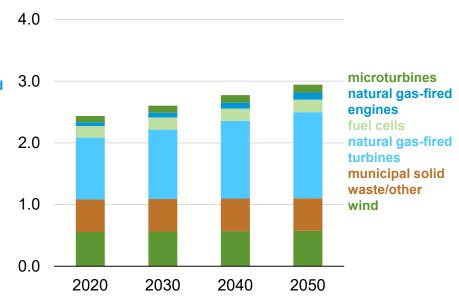
Commercial distributed generation capacity AEO2022 Reference case

gigawatts direct current



Commercial non-solar distributed generation capacity AEO2022 Reference case

gigawatts direct current



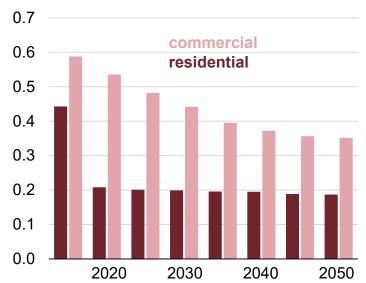




Residential and commercial lighting consumption and lighting shares

Electricity consumed to meet lighting demand AEO2022 Reference case

quadrillion British thermal units



Note: Includes both purchased electricity and onsite generation for own use.

