U.S. CO₂ Emissions by Sector
(Historic / Projected)

Addendum: Page 1 “Building Sector Energy Policy Issues”
BUILDING SECTOR ASSUMPTION

To create a U.S. Building Sector, the Residential buildings (operations) sector, Commercial buildings (operations) sector, Industrial sector - building operations estimate and the Industrial sector - annual building construction and materials embodied energy estimate were combined.

U.S. CO₂ EMISSIONS BY SECTOR

Notes:


Assumptions:

Assumes a direct relationship between energy consumption and CO₂ emissions.

Assumes that new codes become effective as follows (year codes come into effect - percent better than code):

2010 - 30%  2016 - 50%  2022 - 75%  2028 - carbon neutral

Assumes 25% of all new buildings meet the new code the first year it becomes effective; that 50% of all new buildings meet the new code the year after; and that 100% of all new buildings meet the new code every following year until a new base code is adopted.

Assumes the amount of existing building square footage renovated annually is equal to the square footage built new. Also assumes that of this square footage, 25% of renovations meet the new code the first year it becomes effective; that 50% of renovations meet the new code the year after; and that 100% of all renovations meet the new code every following year until a new code is adopted.

Assumes aggressive Reach Code implementation and incentives.

Sources:

