**Global share of buildings and construction operational and process CO2 emissions in 2021**

- Residential (direct): 6%
- Residential (indirect): 11%
- Non-residential (direct): 3%
- Non-residential (indirect): 8%
- Buildings construction industry - concrete, aluminium and steel: 6%
- Estimated emissions for bricks and glass: ~3%
- Other building and construction industry: 6%
- Other industry: 30%
- Transport: 22%
- Other: 8%

**Global share of buildings and construction final energy demand in 2021**

- Residential: 21%
- Non-residential: 9%
- Buildings construction industry - concrete, aluminium and steel: 4%
- Materials such as bricks and glass: ~1%
- Other industry: 31%
- Other building and construction industry: 3%
- Transport: 26%

Notes: Buildings construction industry and other building construction industry refers to concrete, steel and aluminium for buildings and infrastructure construction respectively. The boundaries of the emissions (energy and process) account for construction materials include from raw materials preparation and processing and the different steps to produce the materials. For example, for cement this includes the entire manufacturing processes, from obtaining raw materials and preparing the fuel through to grinding and milling. The numbers in the pie chart are rounded values and therefore do not necessarily sum to the total value for a given sector.

Data sourced from IEA 2022. All rights reserved. Adapted from "Tracking Clean Energy Progress" (IEA 2022f).