

U.S. General Services Administration

Pathway to Decarbonization

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GSA Real Property Asset Portfolio Introduction



Courthouses

9%

4% - Other

Warehouses 1% - IPOF

7%

1% - Labs

- Buildings contribute 99% of GSA's Operational Carbon Emissions 2,271,000 MtCO₂e
- Embodied carbon in buildings? We just do not know...
- 8,842 Owned or Leased Assets
 - 186.5 Million Square Feet Owned
 - 184.5 Million Square Feet Leased
- 1.1 Million People
 78% Offices

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Reducing embodied carbon is urgent



Year in building life

One Possible Pathway to Decarbonize GSA Buildings

Strategy 1: Decarbonizing Building Operating Emissions Strategy 2: Decarbonizing New Construction



Consequences of Not Acting NOW

- Opportunities are infrequent
- Buildings account for ~40% of total emissions in the US, and consume 70% of the electricity
- How many degrees of warming can we tolerate? (See latest UN IPCC Report)
- Change is hard; the longer we wait, the more change will be needed

Regarding Buildings and Construction, to achieve Washington D.C.'s Carbon & Equity goals, a critical obstacle [for our organization] to overcome is the lack of consideration of embodied carbon value in asset and investment planning between new construction, existing building modernization, and purchase of existing buildings.

<u>Or</u>

<u>The difficulty of fitting decarbonization (electrification)</u> <u>strategies into traditional repair/replacement budgets.</u>