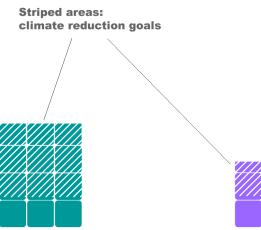


The Elephant in the Room

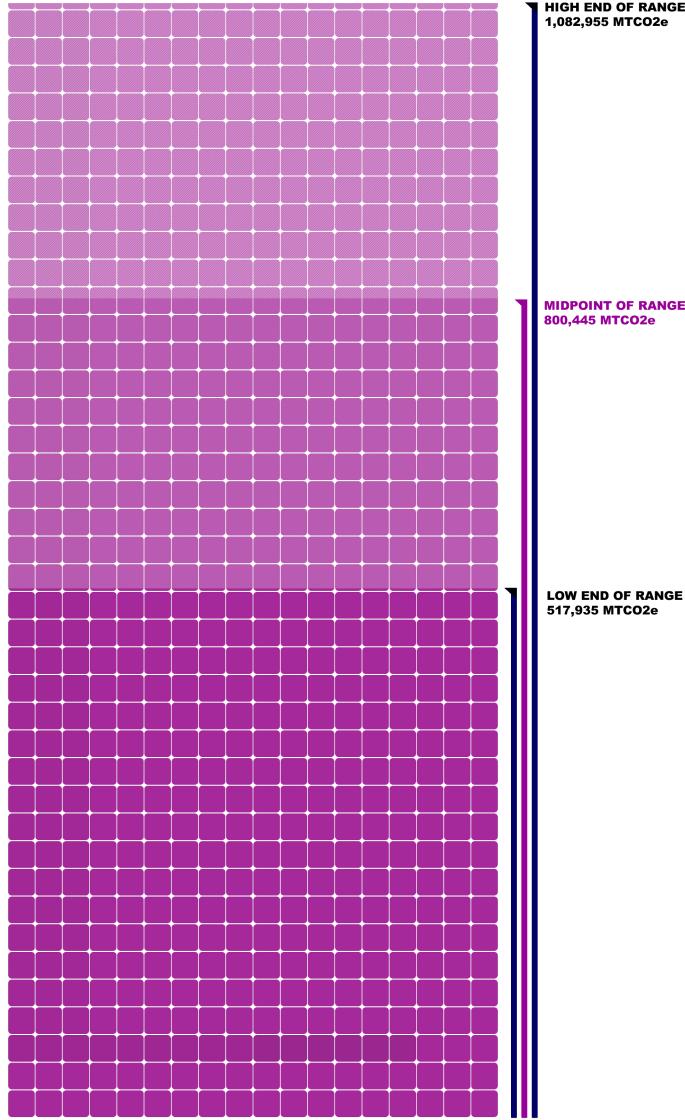
**ANNUAL
CLIMATE
DAMAGE**
in metric tons of
carbon dioxide
equivalent
2023

1 block = 1500 MTCO2e
methane = GWP₂₀ of 86
landfill emissions estimated
from Carbon Mapper data



**Corvallis City
Government**
17,004 MTCO2e (2022)

**Benton County
Government**
3550 MTCO2e (2022)



Coffin Butte Landfill
800,445 MTCO2e, with confidence interval
between 517,935 and 1,082,955 MTCO2e (2023)

All figures are approximations from most recent data available. Methane MTCO₂e uses GWP₂₀ = 86

Data sources: greenhouse gas inventories self-published by City of Corvallis (2022), Benton County (2022); striped areas show climate action reduction goals. Carbon Mapper data from aerial surveys (2023).

Carbon Mapper super-emissions from four point sources derived from six remote sensing surveys of 16 methane plumes over a ten-day period in June 2023. Methane quantification by Carbon Mapper: 1.7 metric tons of methane per hour, plus or minus 0.6 metric tons

For simplicity, scenario assigns equal share in output to each point source and varying durations to each: Point Source 1 = 3 months, PS2 = 6 months, PS3 = 9 months, PS4 = 12 months

The Elephant in the Room

ANNUAL CLIMATE DAMAGE

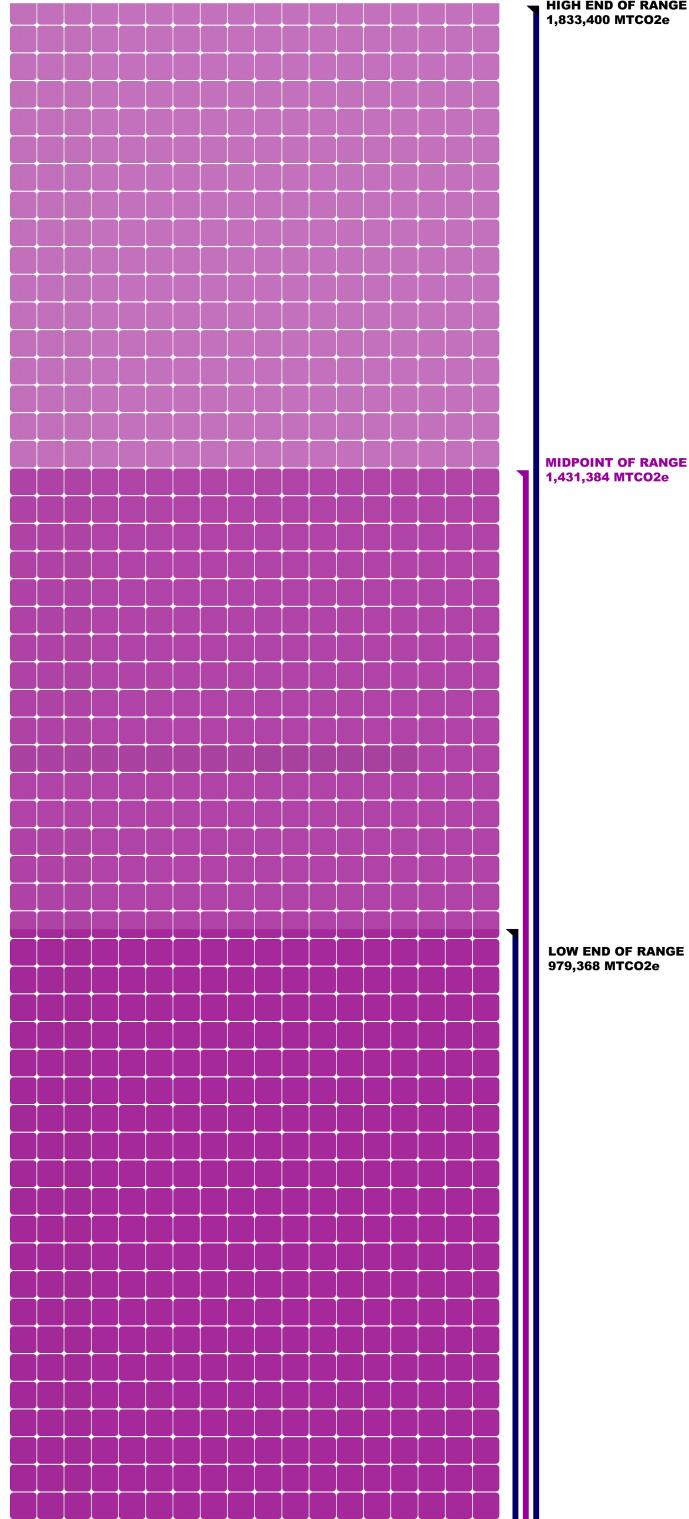
in metric tons of
carbon dioxide
equivalent

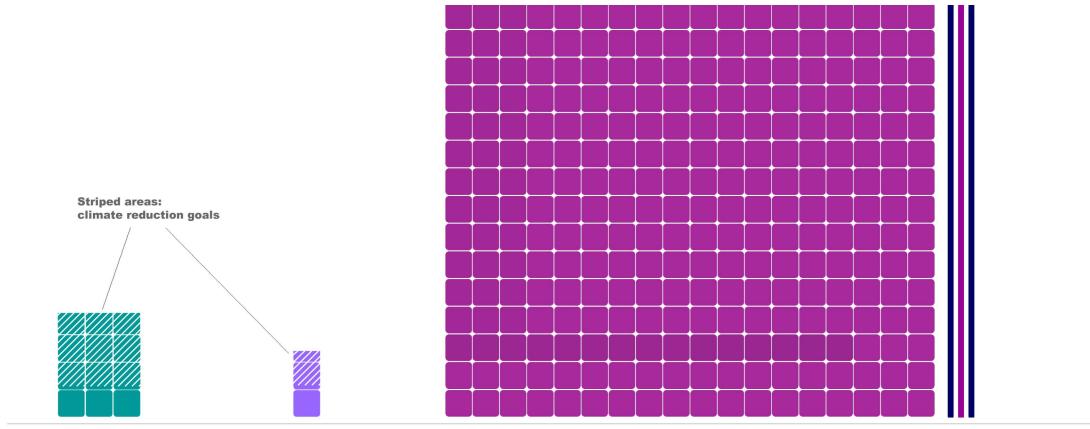
1 block = 1500 MTCO₂e

methane = GWP₂₀ of 86

landfill emissions estimated
from Carbon Mapper data

2025 (est)





All figures are approximations from most recent data available. Methane MTCO₂e uses GWP₂₀ = 86

Data sources: greenhouse gas inventories self-published by City of Corvallis (2022), Benton County (2022); striped areas show climate action reduction goals. Carbon Mapper data from aerial and satellite surveys 2023-25.

2023-5 methane quantification by Carbon Mapper: 1.9 metric tons of methane per hour, plus or minus 0.6 metric tons