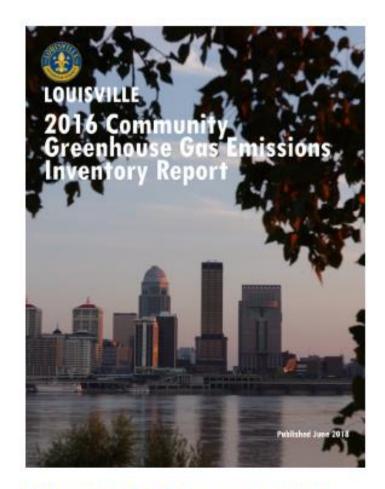
Net Zero Emissions by 2040

Setting a Science-Based Emissions Reduction Target for Louisville

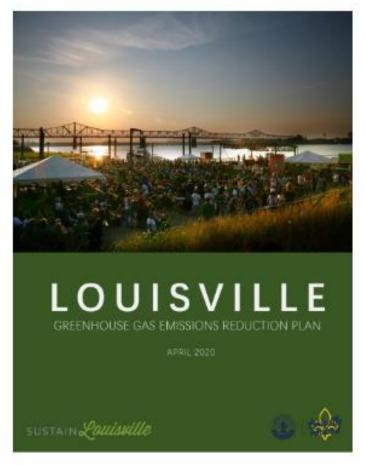


Sumedha Rao, LEED AP Sustainability Coordinator

Louisville's Current Emissions Reduction Goals



Greenhouse Gas Emissions Inventory Report



Greenhouse Gas Emissions Reduction
Plan

Current Target:

80% Reduction in GHG Emissions by 2050

2020 Greenhouse Gas Emissions Reduction Plan

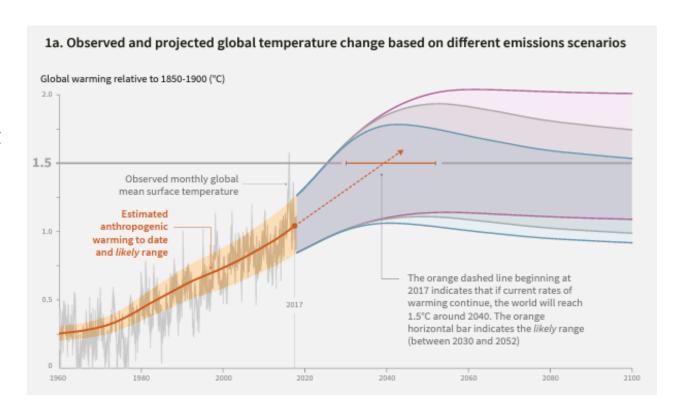
Setting a Science-Based Emissions Reduction Target (SBT)

LIMITING EMISSIONS TO 1.5 °C

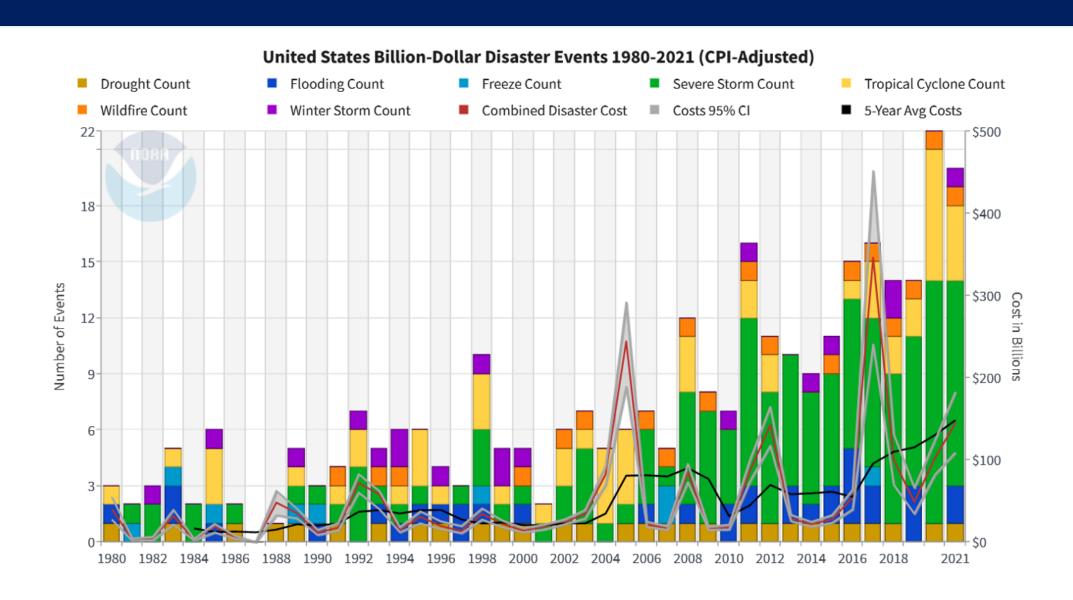
The IPCC's Special Report on Global Warming of 1.5 °C (IPCC SR1.5) showed that exceeding 1.5 °C even temporarily will have catastrophic impacts.

At the present rate of warming, global temperatures are **projected to reach**1.5°C around 2040.

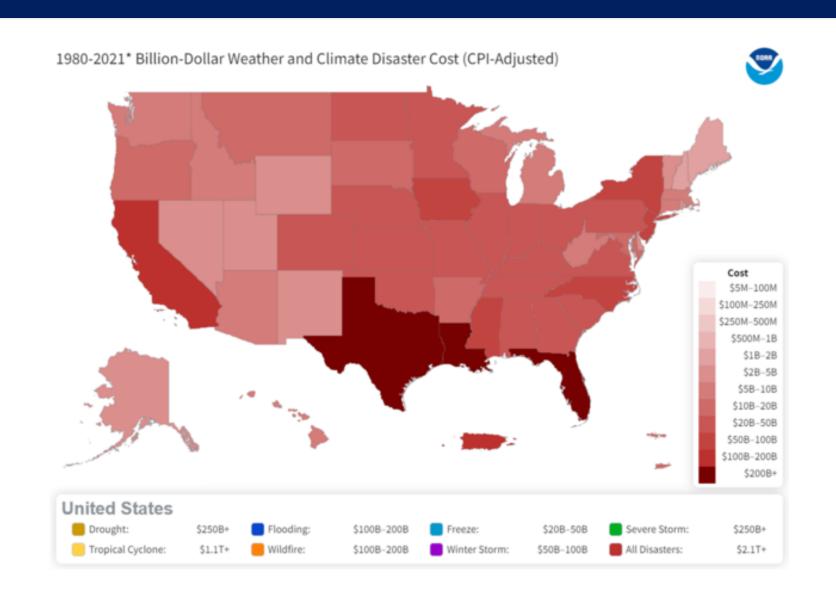
WWF



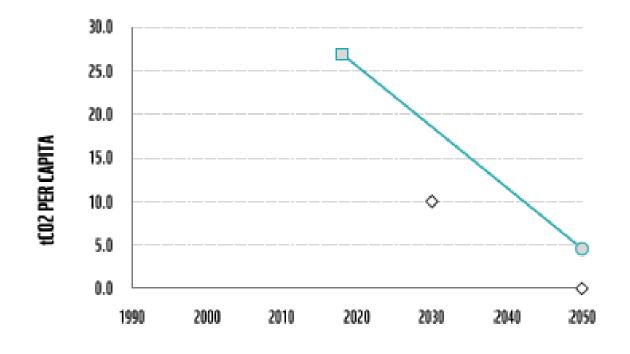
Billion Dollar Disasters are Becoming Increasingly Common



Central and Southeast U.S. See Higher Cumulative Impacts



Louisville's Current Emissions Reduction Goals



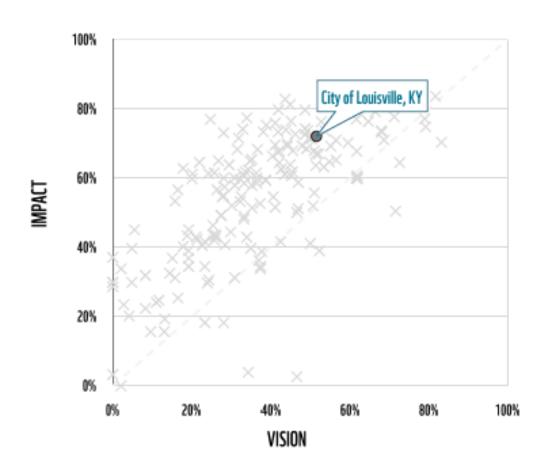
 80% Reduction in GHG Emissions by 2050

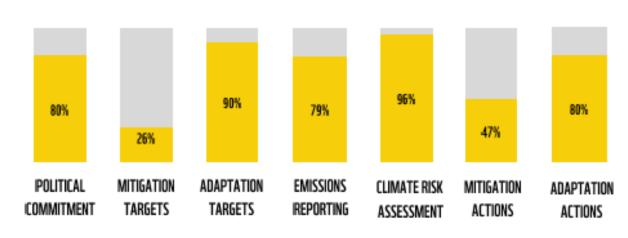
2020 Greenhouse Gas Emissions Reduction Plan

 100% Clean Energy Communitywide by 2040.

2020 100% Clean Energy Resolution

Louisville's Current Emissions Reduction Goals





This graph shows your accumulated score expressed in percentages on seven weighted indexes, based on your reporting to the CDP database. You will find a full explanation of each index here.

Louisville's Commitments









Pledge to reach (net)-zero in the 2040s or sooner, or by midcentury at the latest, in line with global efforts to limit warming to 1.5°Celsius.

50% GHG reduction by 2030 from 2016 baseline for Metro operations Requires SBT –
Louisville received
feedback that our target
is not aligned.

Aligning Louisville's Vision with SBTs

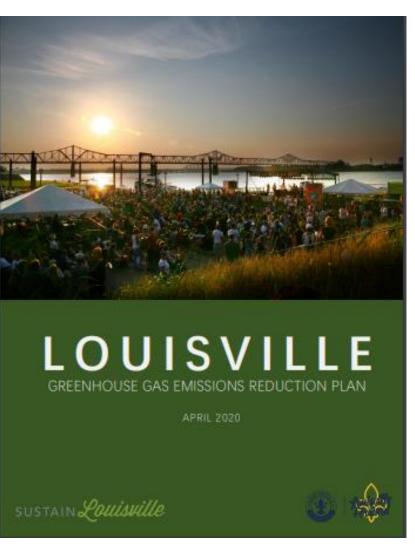
A Metro Council Resolution to codify our SBT of community-wide net-zero emissions by 2040.

- Align Louisville's climate goals with science-based targets in accordance with the IPCC's recommendation and the Paris Agreement.
- Fulfill our commitments under the C40 Cities Race to Zero and U.S. Department of Energy's Better Climate Challenge and maintain Louisville's position as CDP A List City and leader among peer cities working towards climate action.
- Provide Metro agencies, residents, and organizations with a tool to advance environmental programs, improve infrastructure and health, and save costs.

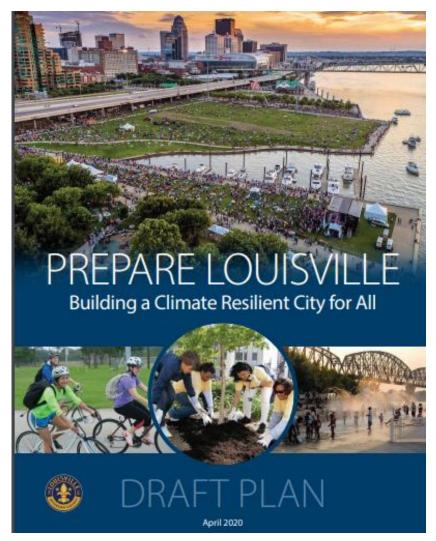


Progress is Already Underway!

- Sustain Louisville (2013)
- Greenhouse Gas (GHG) Inventory (2016)
- Plan 2040 (CHASE Principles) (2019)
- Resilient Louisville (2019)
- GHG Emissions Reduction Plan (2020)
- Climate Change
 Vulnerability Assessment
 (2020)
- Prepare Louisville (2020)
- 100% Clean Energy Resolution

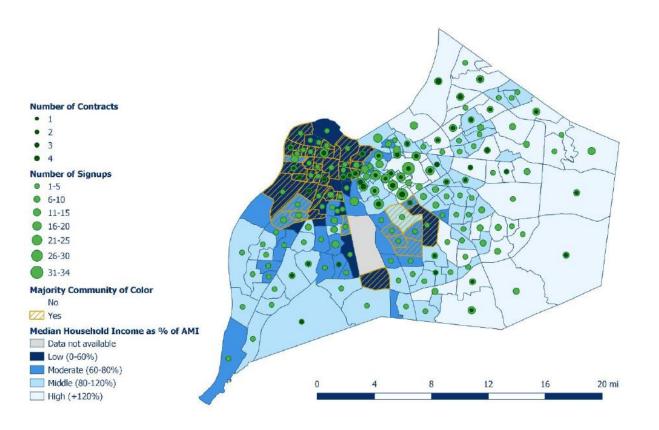






Prepare Louisville

Progress is Already Underway!



- Buildings: \$1 million energy savings for Metro Government, Solar Over Louisville, Cool Roof Incentive Program, EPAD Program, Communities LEAP
- Transport: Vision Zero, Electric Vehicles
- Waste: Solid Waste reduction goal 90% diversion by 2042
- Natural Areas: Urban Tree Canopy goal 45% tree canopy by 2055
- Products: Partnership for a Green City collective purchasing
- Behavior: Internal Green Team behavior change for energy conservation, waste reduction, and efficient transportation



Progress is Already Underway!

Louisville mayor signs order to reach net-zero emissions by 2040



wfpl.org



1000+ Cities have signed the Cities Race to Zero

- Indianapolis
- South Bend
- Des Moines
- Durham
- Austin
- Houston
- Atlanta