



Sustainability & Climate Action in Takoma Park

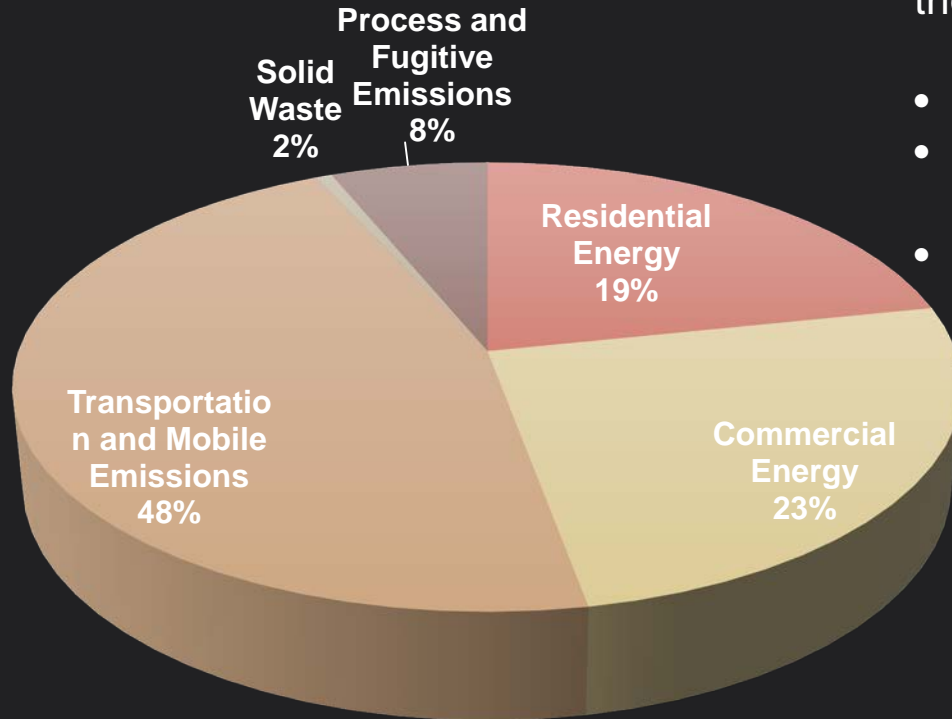
Update to City Council

January 25, 2023

Daryl Braithwaite, Public Works Director

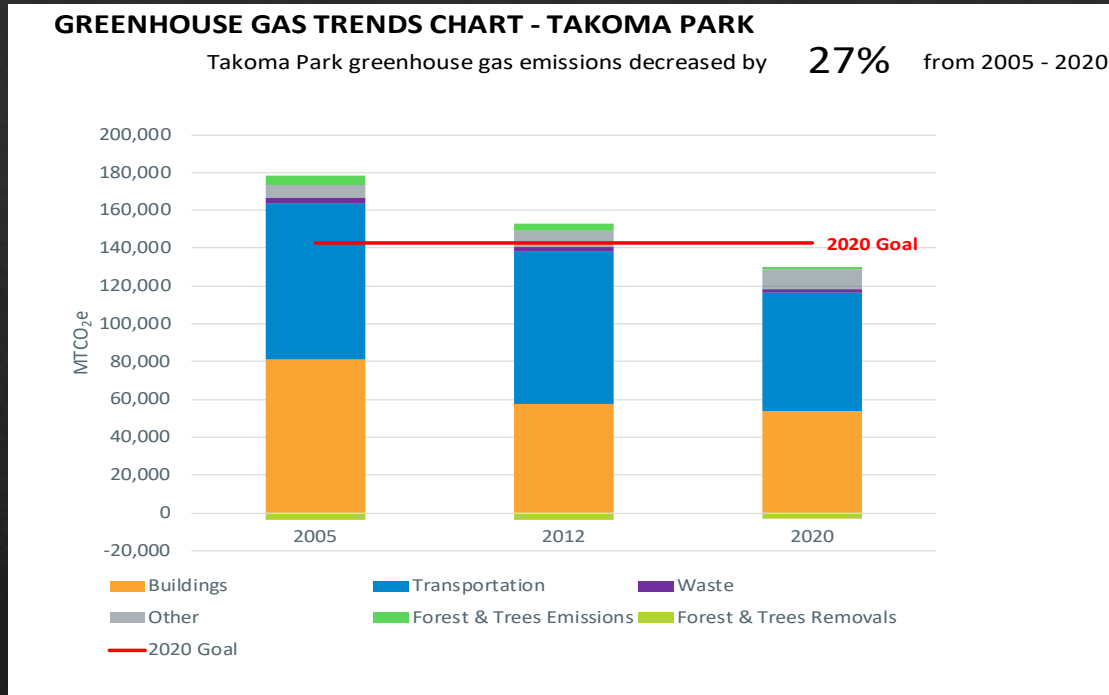
Takoma Park Emissions Profile 2020

Building Energy Use & Transportation are the largest source of emissions in the City



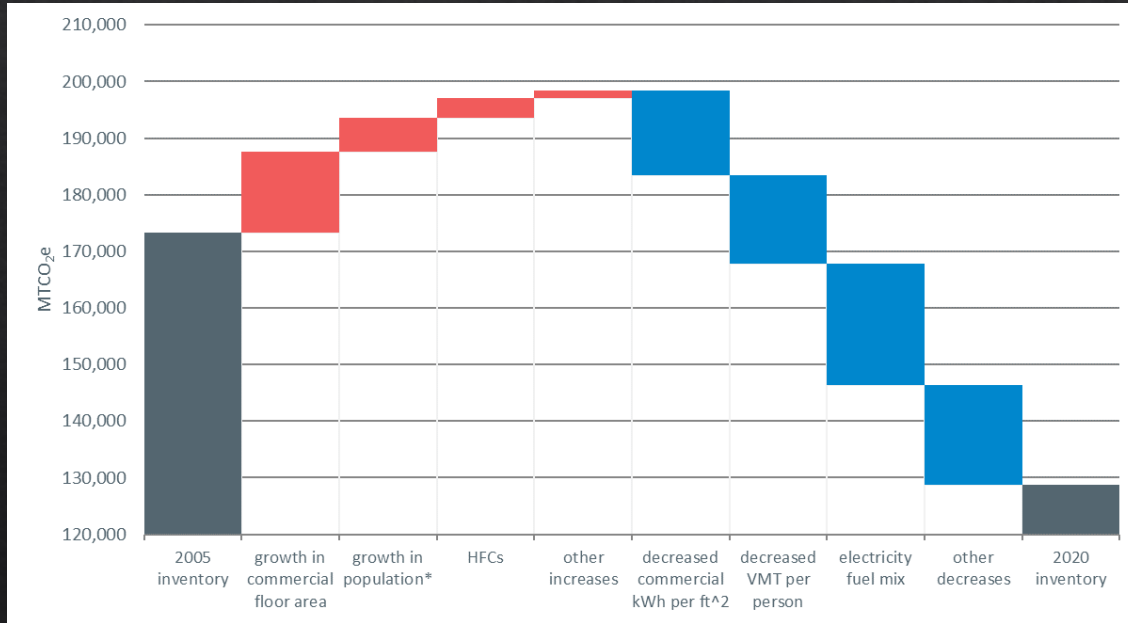
- 42% from buildings
- 48% from transportation
- 129,869 MTCO₂ in 2020
 - 27,485 MTCO₂ fossil fuel use in buildings
 - 26,419 MTCO₂ from electricity use
 - 62,406 MTCO₂ from transportation
 - 10,325 MTCO₂ fugitive sources
 - 1,978 MTCO₂ waste and water
 - (1,889) MTCO₂ trees & forestation

GHG Emissions Over Time 2005 - 2020



Emission Reductions have decreased by 27% since 2005

Source of Increases & Decreases



Emission Increases:

- ◇ Growth in commercial space
- ◇ Increase in population
- ◇ Increase in hydrofluorocarbons

Emission Decreases

- ◇ Cleaner electricity grid
- ◇ Reduced miles travels (pandemic)
- ◇ Decreased commercial electricity intensity

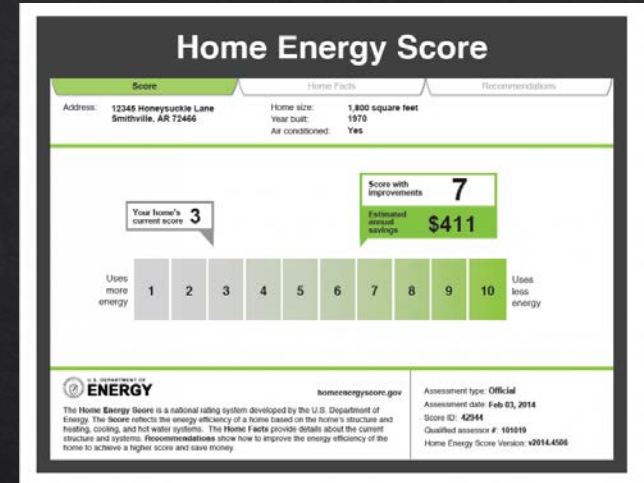
Main Climate Goals

- City of Takoma Park: Net Zero by 2035
- Montgomery County: 100% reduction of ghg emissions by 2035
- Maryland State: 50% reduction by 2030 (2006 baseline)
- MWCOG regional goal: 50% reduction by 2030 and 80% by 2050 (2005 baseline)

Climate Emergency Response Framework Update

- **Priority: Buildings**

- Building Energy Performance Standards (BEPS) approved by Montgomery County. It will cover buildings 25,000 sq. feet and above.
- ACEEE has provided technical analysis to Takoma Park on implementing BEPS for buildings 10,000 – 25,000 sq. feet (45 buildings – 27 MF, 9 retail, 5 office, 2 religious, 1 healthcare, 1 warehouse)
- University of Maryland Environmental Analysis class evaluated Home Energy Labeling Policy for the City.
- Voluntary benchmarking will be offered to all Takoma Park businesses and multifamily buildings eligible for EnergyStar Portfolio Manager



Climate Emergency Response Framework Update

- **Priority: Transportation**

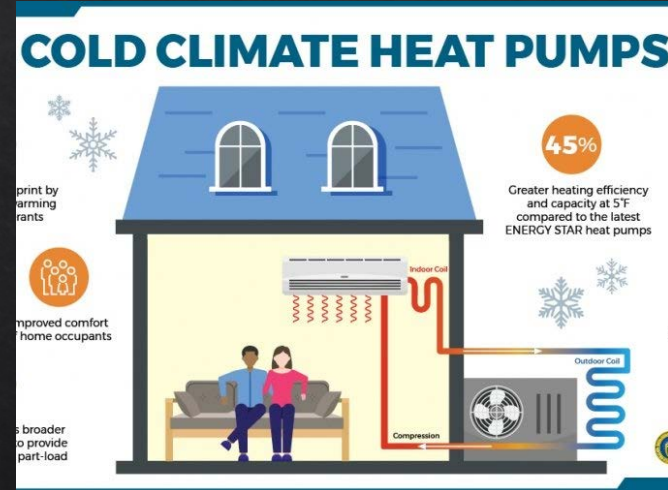
- City allows for curbside charging equipment
- Bus shelter improvements
- Fleet Transition Plan – all electric city fleet by 2035
 - Reviews available EV equivalents to current fleet
 - No new fossil fuel-powered vehicles purchased after 2028
 - Some replacements could be postponed in anticipation of new EV models becoming available
 - Installing charging infrastructure will be essential to making this transition
 - Grants for charging infrastructure may be available, vehicle grants unlikely



Climate Emergency Response Framework Update

- **Priority: Renewable Energy and Toward a Fossil Fuel-Free Community**

- Research on legal options and incentives for electrification
- Comprehensive “Electrification Roadmap” being developed
- Development of comprehensive electrification education & outreach campaign
- Montgomery County pursuing Community Choice Energy for 100% renewable electricity; existing state renewable portfolio standard will be 50% by 2030
- Montgomery County pursuing gas powered lawn care equipment ban
- Capital Area Solar Co-op will include EV charging



Takoma Park Electrification Grants FY23

- FY23 Electrification and Energy Efficiency Grants through ARPA, focused on Multi-Family Buildings
- 20 grants awarded, 32 applications received
- Total amount of the requests were over \$800,000
- Total budget was \$500,000



What's Next?

- County implementation of Building Energy Performance Standards (BEPS), gas powered lawn care equipment ban, and other program initiatives like Building Decarbonization – all-electric building standards
- City to consider a voluntary benchmarking program for smaller buildings (under 25K gsf) not covered by County regulation
- Montgomery County Residential Electrification Incentive Pilot Program – Take the Pledge !! <https://www.montgomerycountymd.gov/green/energy/electrification.html>
Automatically notified of grant opportunities.
- Electrification Incentive Program RFP responses under review. Will provide technical assistance and incentives. Market rate program. Anticipate a Summer roll-out.
- City electrification outreach and education campaign for the County Green Bank and incentive program above
- Consideration of the Fossil Fuel Non-proliferation Treaty, prohibition of purchasing fossil fuel-powered equipment

Additional Points of Interest

- ◇ Tree Takoma Casey Tree Partnership - oversubscribed for FY23, possible addition of funds to expand program - <https://takomaparkmd.gov/government/public-works/urban-forestry/city-tree-programs/tree-takoma-free-trees-for-private-properties/>
- ◇ Battery Recycling Drop-Off - <https://takomaparkmd.gov/public-notice/battery-recycling-drop-off-now-available/>
- ◇ Food Waste and Yard Waste collection programs may be able to be combined
- ◇ Stormwater Resiliency Study - <https://takomaparkmd.gov/government/public-works/stormwater-management-program/stormwater-resiliency-study/>
- ◇ Police patrol vehicle replacement going hybrid in FY23
- ◇ PW fleet – new EV Sweeper, first hybrid pickup truck, EV mower
- ◇ PW hand tools and equipment – All electric blowers, converting chain saws, and related tools
- ◇ Sustainability Grant for Circle Woods invasives removal and native plant restoration, community outreach will be planned
- ◇ New Hampshire Avenue Bikeway project – in design, grant funded - <https://takomaparkmd.gov/government/housing-and-community-development/planning-and-community-development/new-ave-bikeway/>
- ◇ New sidewalk construction – Approved: Hopewell, Kentland Larch, Domer Ave; In design – Belford Place