Pompano Beach Sustainability Baseline and Goals

City Commission Meeting

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Agenda

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Project Overview

Quantitative Baseline

GHG Inventory & Forecast

Establish Climate Action Goals

Project Outcomes

» Established goals for climate action, and in the City's focus areas

» Identified ways to improve sustainability data collection

» Developed quantitative baseline for focus areas, including GHG emissions

» Discovered opportunities to improve performance

  » *Opportunities can be further developed into sustainability & resilience initiatives in future Phases of the Work Plan*

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Recommended Climate Action Goals

From the 2019 baseline, reduce LGO & Community GHG emissions

45% by 2030,

75% by 2040,

And achieve Net-Zero emissions by 2050

» Meeting these goals will require:
- 4.5% annual emissions cuts from 2021 through 2030
- 3.0 to 3.5% annual reductions after 2030

» For context, the COVID-19 pandemic reduced global emissions by 7% in 2020

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Focus Area Goals

» Resource Conservation

– Reduce electricity consumption for City operations 45% by 2050

– Achieve 100% renewable energy supply for City operations by 2050

– Reduce potable water use 40% by 2050

» Materials Management

– Ensure 100% of all City purchases meet sustainable purchasing criteria by 2050

– Achieve a 75% LGO and community diversion rate by 2050

» Land Use and Transportation

– Transition 100% of City's fleet vehicles to non-fossil fuel sources or electricity by 2050
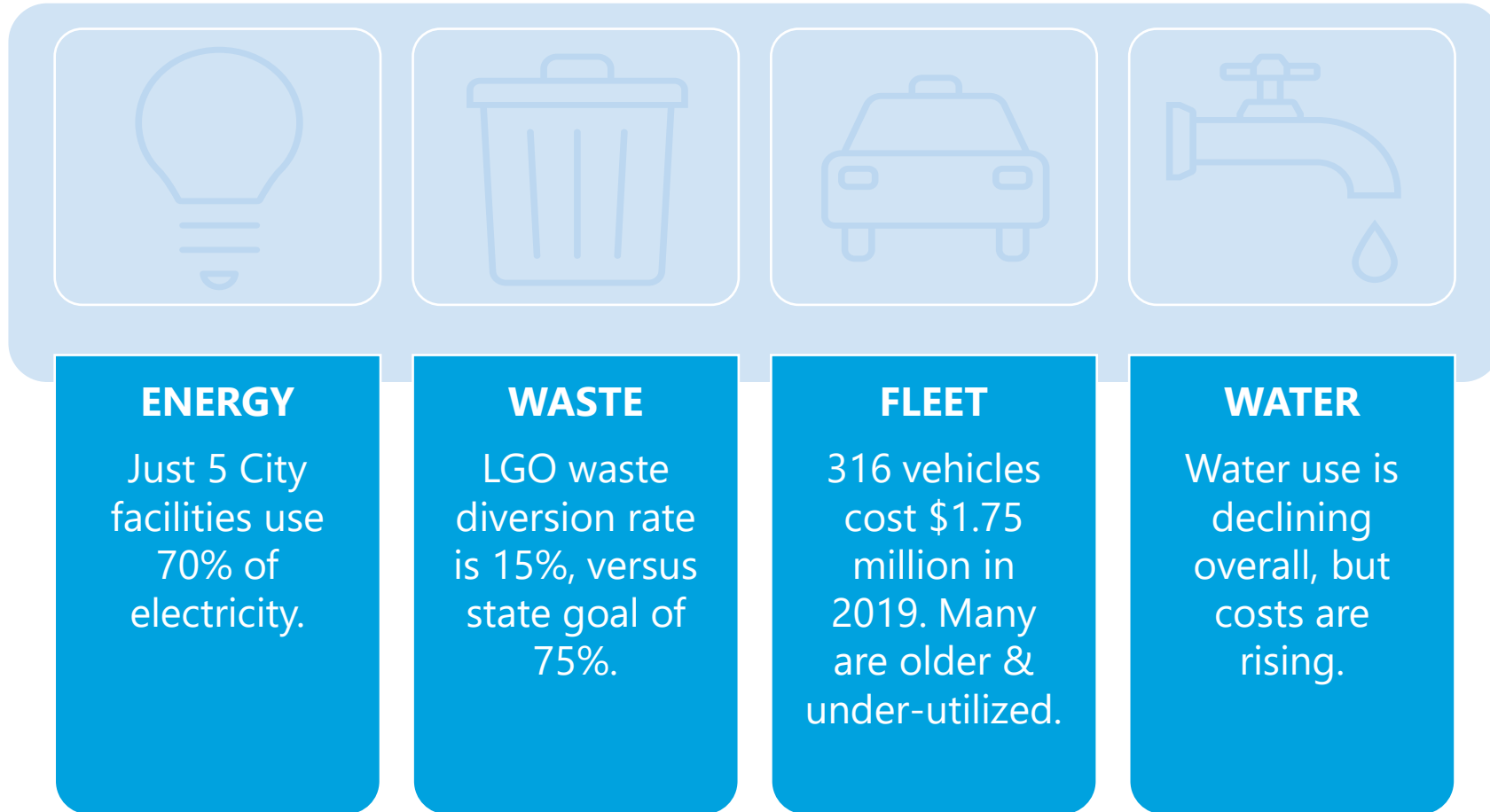
» Equity and Outreach

– 75% of community members are aware of and engaged with the City's sustainability programs by 2050

» Policy and Economics

– Achieve a self-funding sustainability program in which cost savings realized by efficiency and resource conservation initiatives fund at least 50% of new initiatives by 2050

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Baseline Results

ENERGY

Just 5 City facilities use 70% of electricity.

WASTE

LGO waste diversion rate is 15%, versus state goal of 75%.

FLEET

316 vehicles cost $1.75 million in 2019. Many are older & under-utilized.

WATER

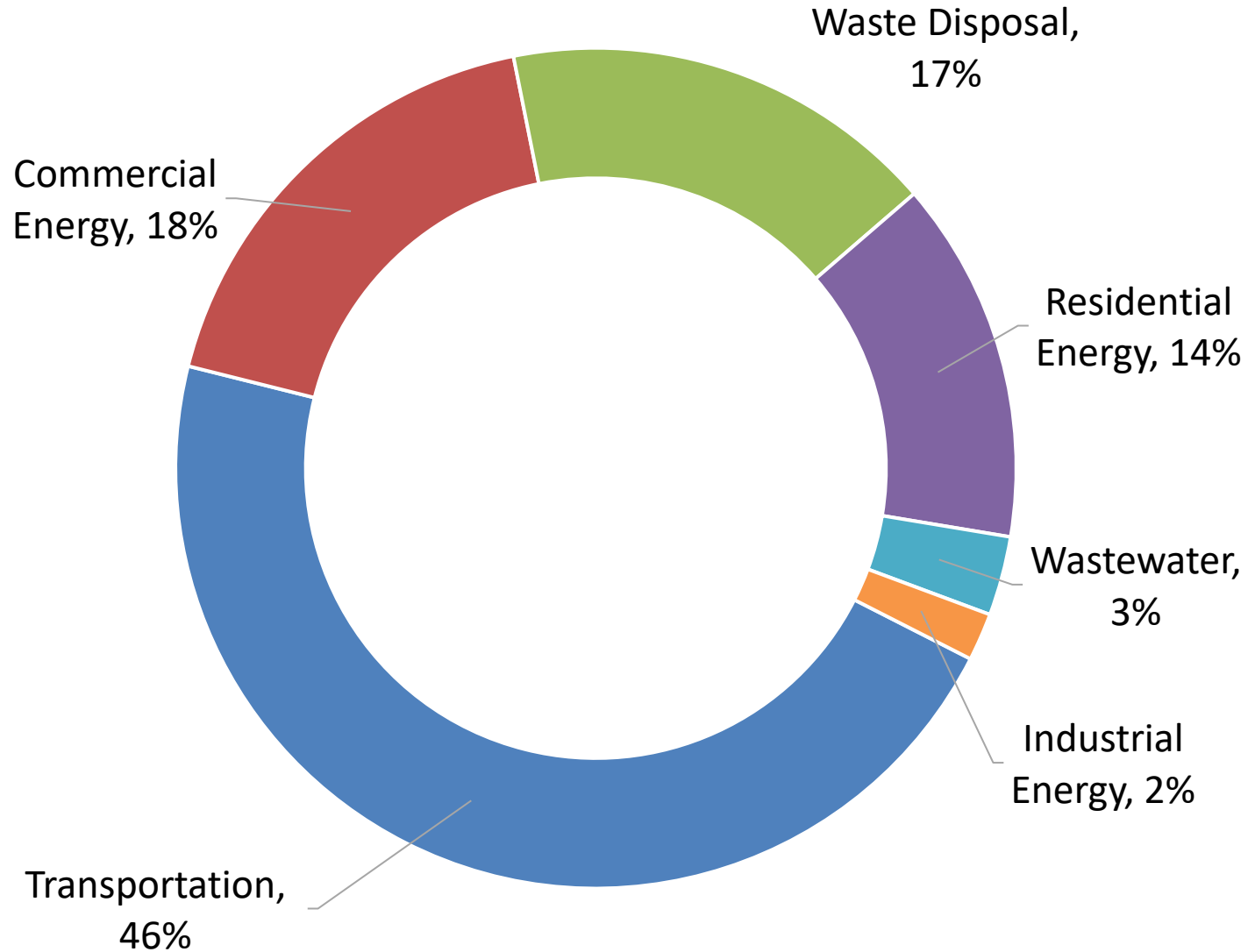Water use is declining overall, but costs are rising.

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Baseline – Focus Area Recommendations

» General Recommendations

– Improve sustainability data management with annual updates

– Implement Phase 3 of Work Plan

» Climate and Resiliency

– Establish schedule for GHG Inventory updates

– Implement Phase 2 of Work Plan

» Resource Conservation

– Submeter major process-related energy end uses

– Energy audits and Cx for selected facilities

» Material Management

– Develop sustainable procurement protocol

– Improve waste diversion rates

» Land Use and Transportation

– Improve Fleet management data

– Consider enrolling Airpark in ACA program

» Equity and Outreach

– Require sustainability training for staff

– Reduce health insurance costs

» Policy and Economics

– Establish Sustainability Revolving Fund

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GHG Inventory

» Community emissions were 1,376,874 mtCO2e in 2019

» LGO emissions were 6,423 mtCO2e

» Transportation & the City Fleet are the largest emissions sources

» Forecast shows opportunity to reduce emissions through transition to greener vehicles

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Community GHG Inventory Results by Emissions Source

Waste Disposal, 17%

Commercial Energy, 18%

Residential Energy, 14%

Wastewater, 3%

Industrial Energy, 2%

Transportation, 46%

Next Steps

Thank you!

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