



Hamilton County Environmental Initiatives

League of Women Voters
October 25th, 2021





County Responsibilities

- Arm of the State
- Governed by the Ohio Revised Code
- Manage mandated governmental systems related to:
 - Criminal Justice and Public Safety
 - Social Services
 - Elections
 - Development
- Various departments with independent environmental responsibility



History of Environmental Leadership

- Green Partnership for Greater Cincinnati
- Green Cincinnati Plan Partner
- Helped found GC Chapter of USGBC
- Green Umbrella Member
- Led Hamilton County Climate Plan
- EECBG – funded community energy conservation projects

Current Initiatives



ENERGY / WATER
CONSERVATION



SOLID WASTE /
RECYCLING



SOIL / WATER
CONSERVATION



ELECTRIC VEHICLE
CHARGING





Energy / Water Conservation

- Energy Conservation Master Plan in County Facilities since 1998
- Began Energy Performance Contracting Program in 2011
- 5 buildings currently rated as Energy Star
- LEED Existing Buildings



Energy Performance Contracting

- Began in 2011
- Targeted High Energy Use Buildings
- Concurrent with Recession
- Major Need for Capital Improvements
- Financed Improvements Based Upon Energy Savings

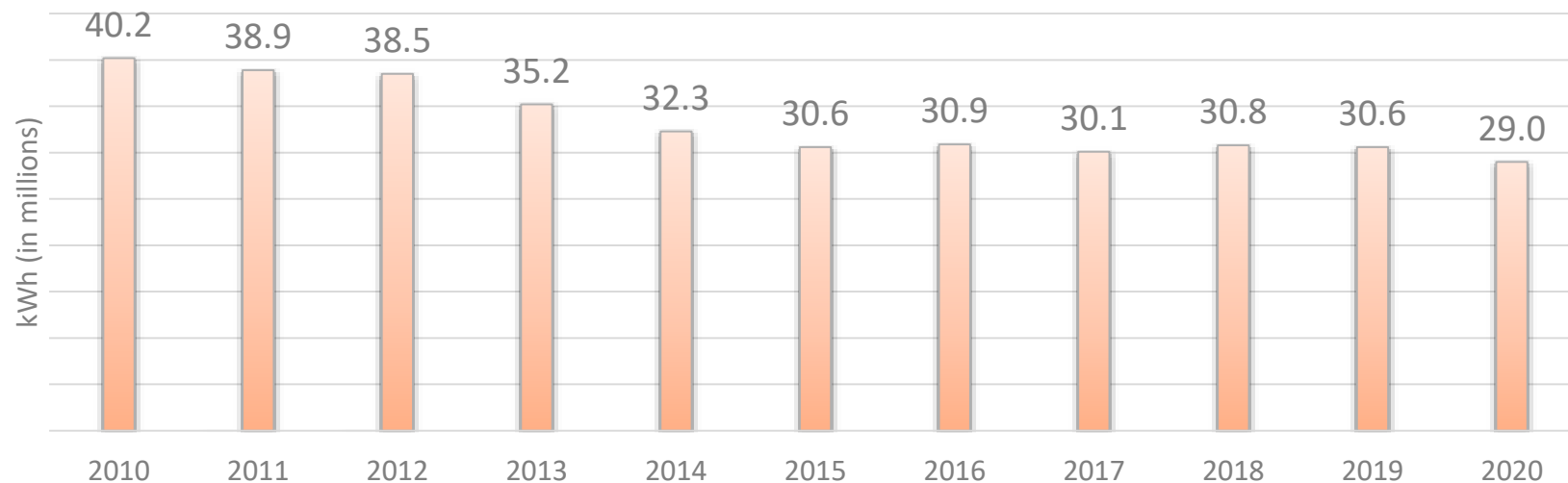
Energy
Performance
Contracting
Scope of Work

- Lighting System Improvements
- LED Replacements
- Building Automation Systems
- Variable Frequency Motors
- Chiller and HVAC Upgrades
- Cooling Tower Replacements
- Boilers and Water Heaters
- Solar Installations
- Water Conservation





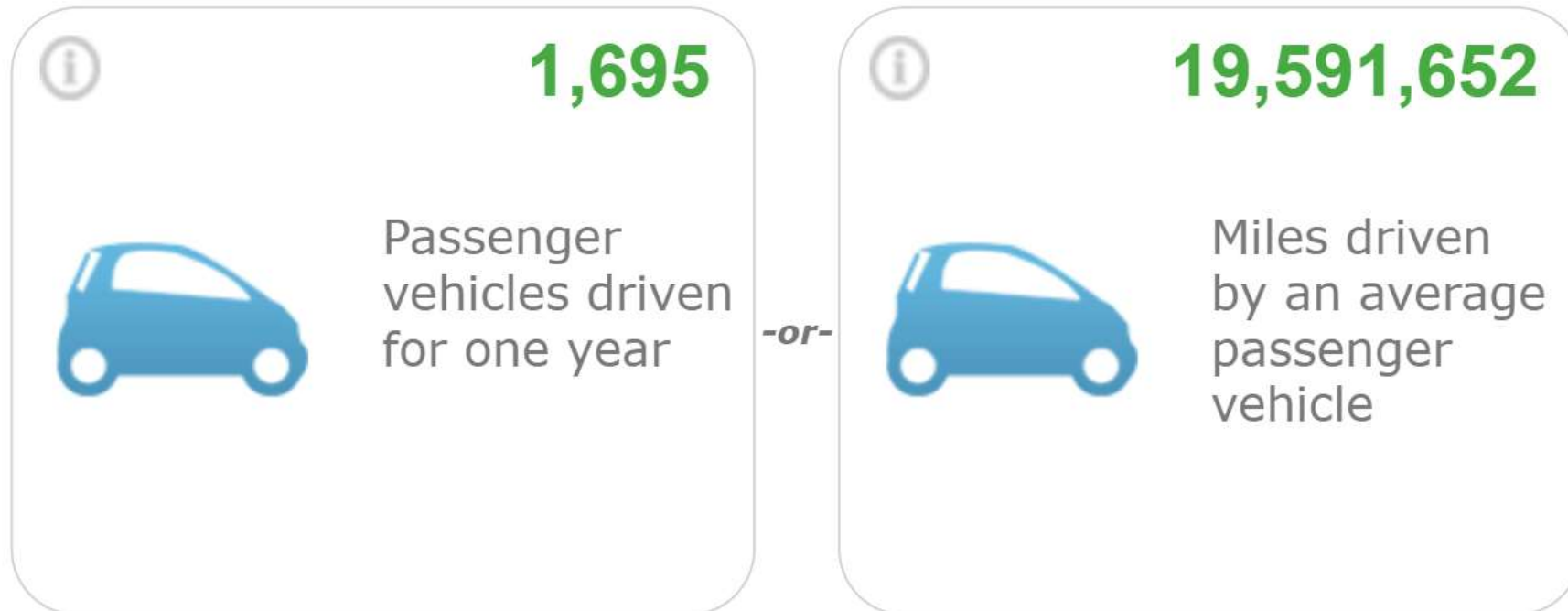
County Facility Electricity Usage Over Time



Greenhouse Gas Equivalence

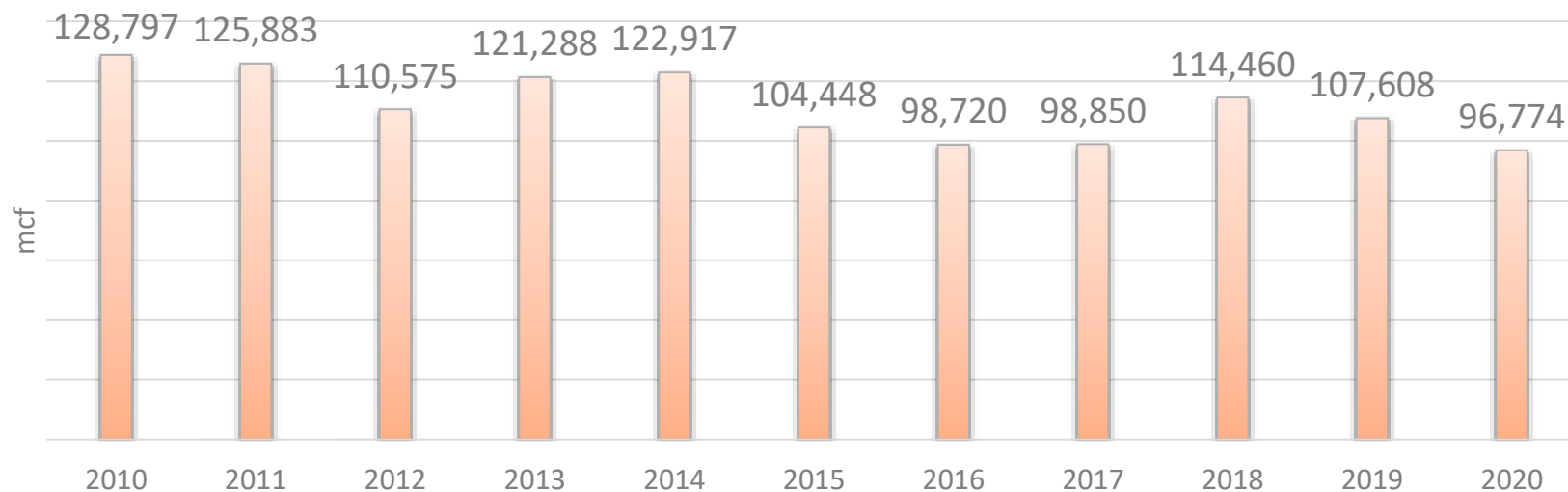


Greenhouse gas emissions from



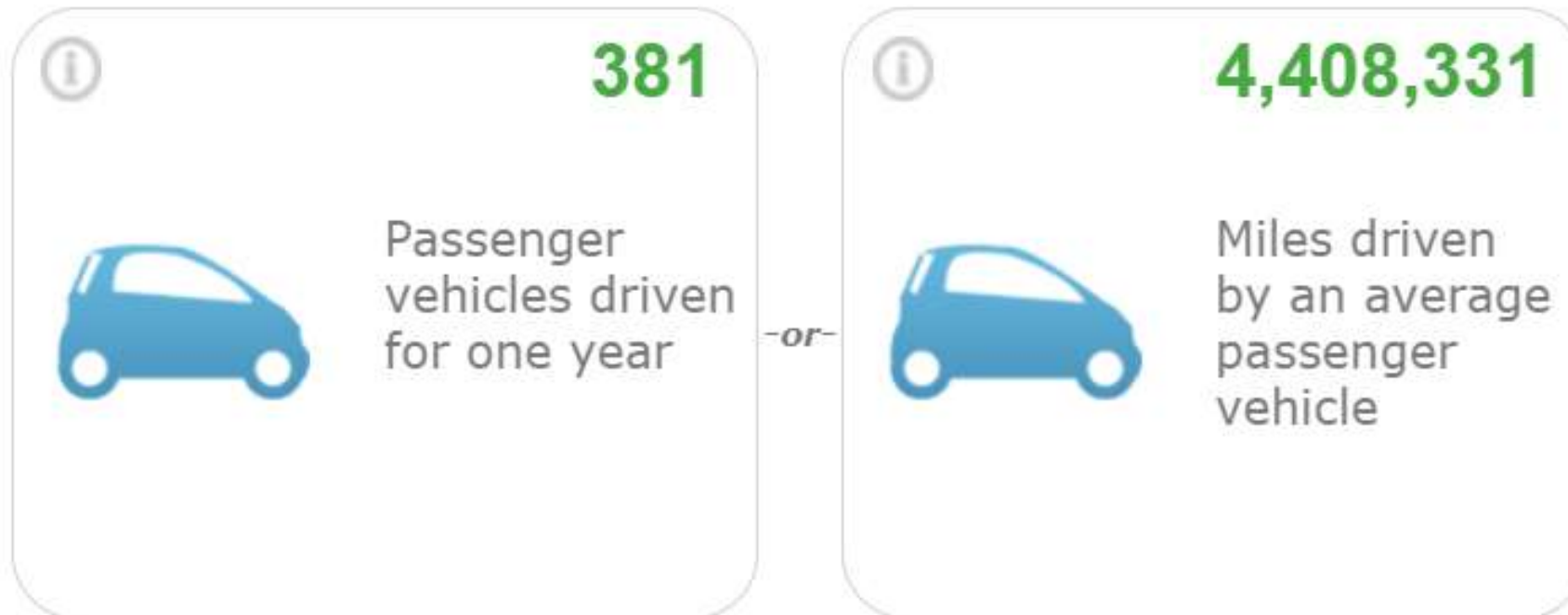


County Facility Natural Gas Usage Over Time

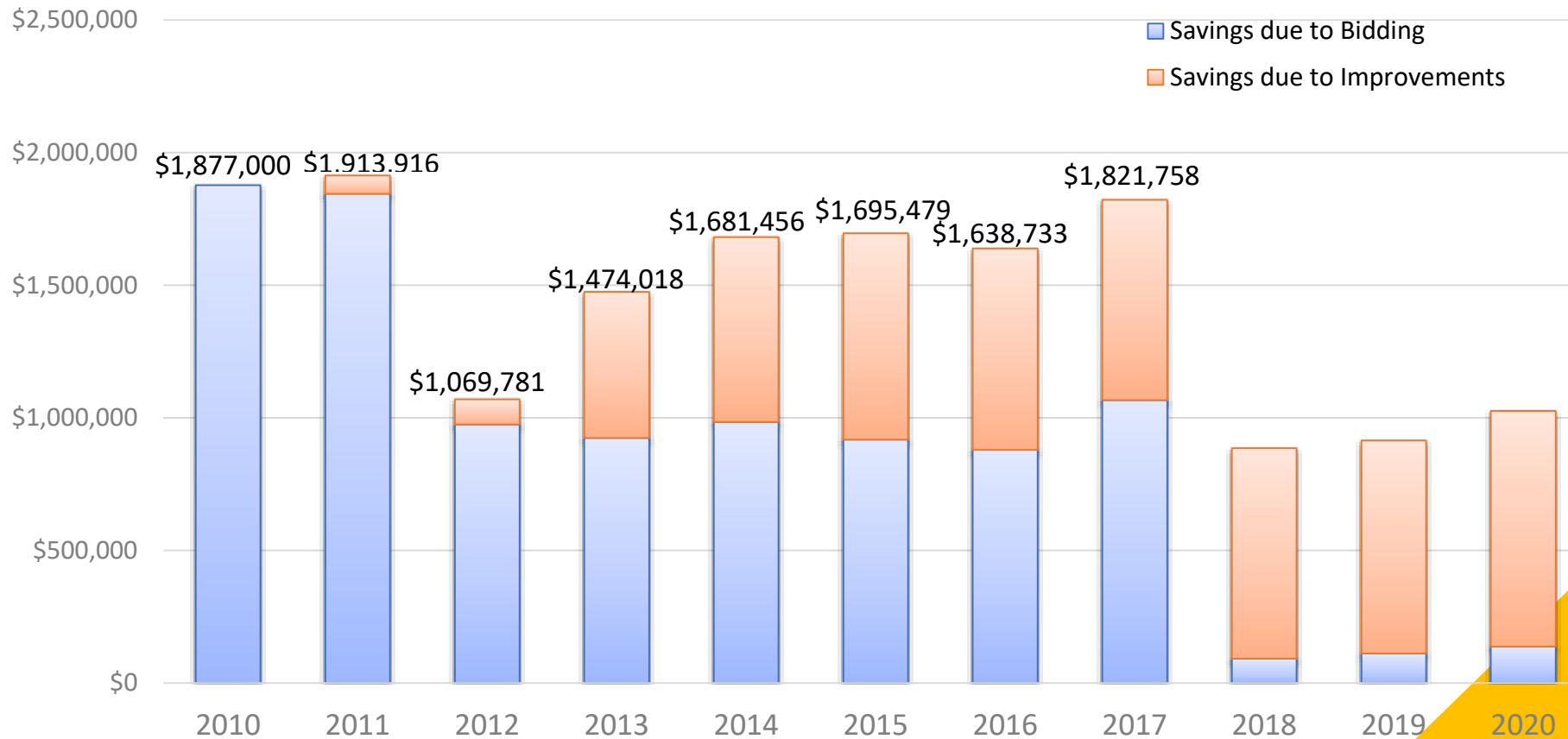


Greenhouse Gas Equivalence – Natural Gas

Greenhouse gas emissions from

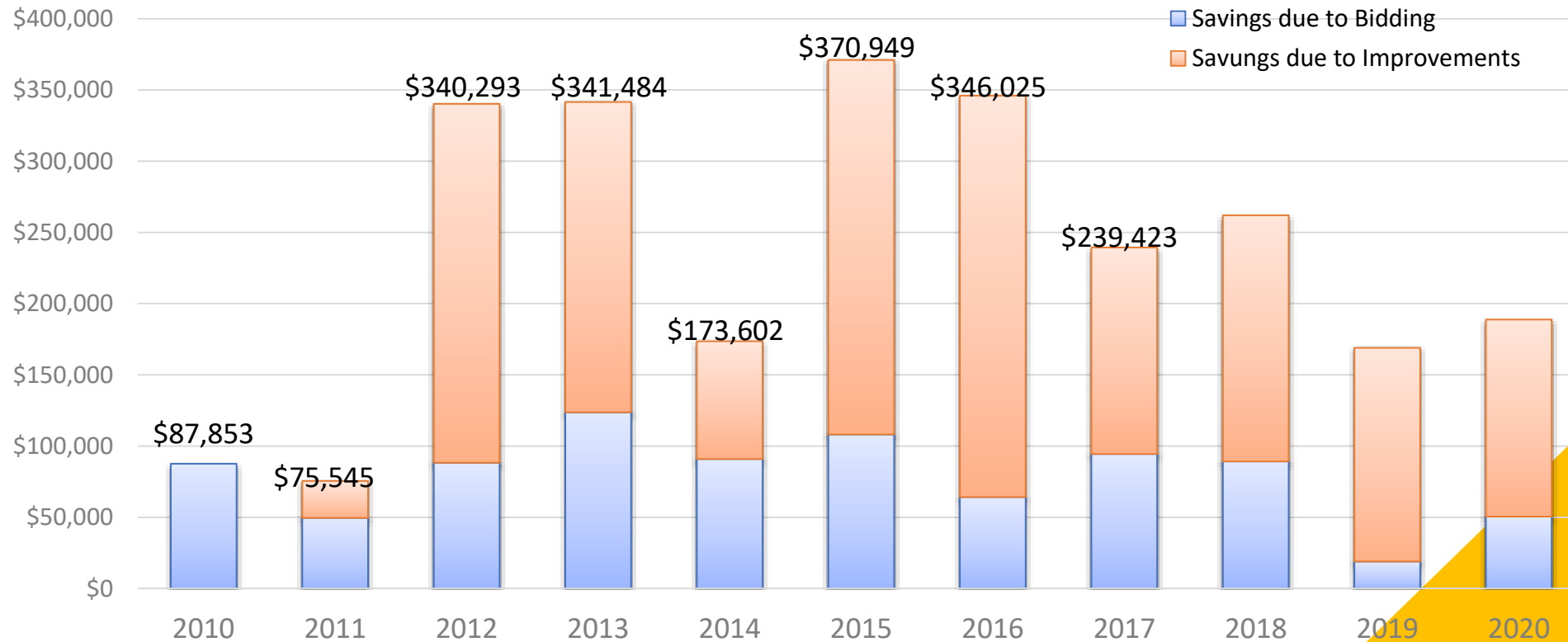


Financial Savings due to Electricity Bidding and Conservation Initiatives

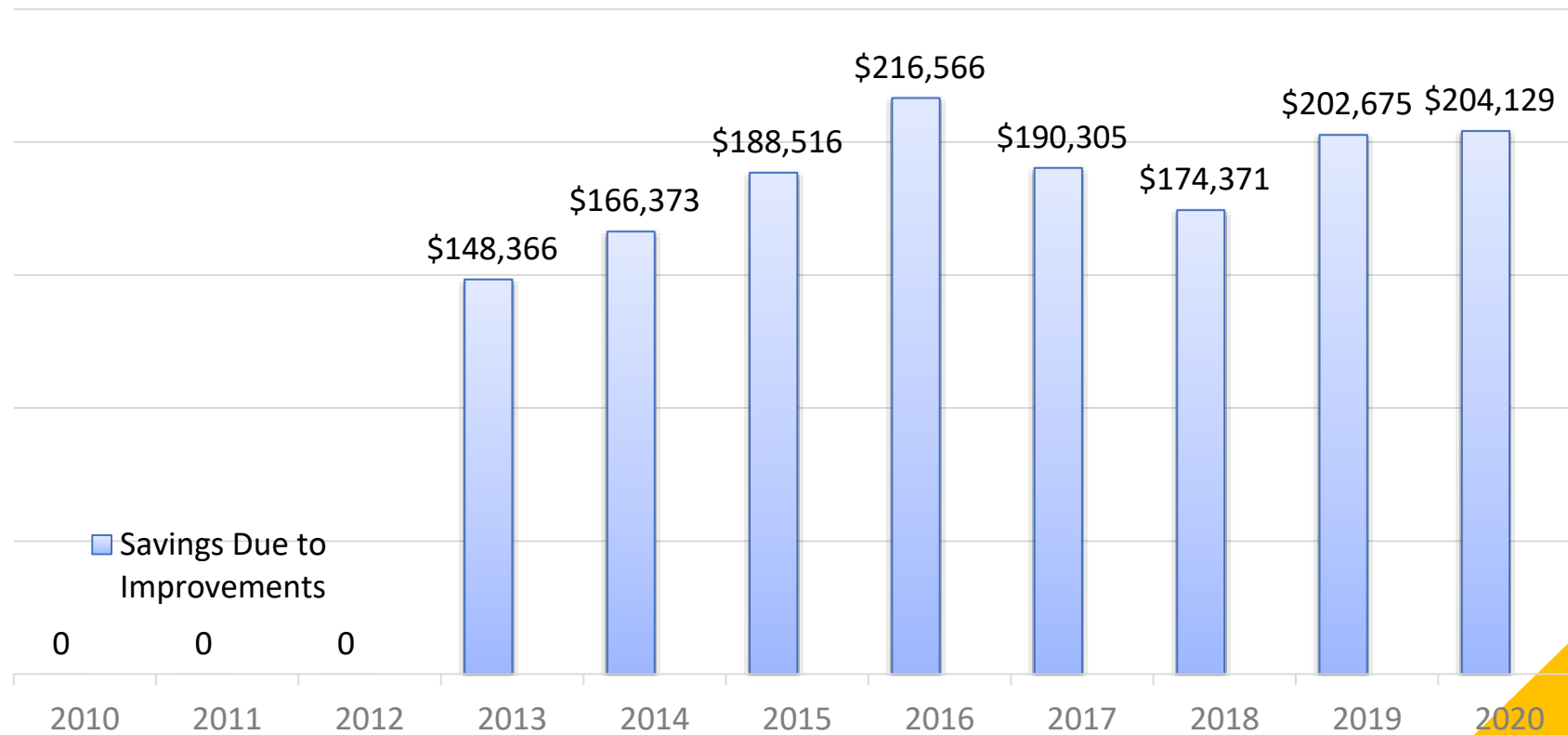




Financial Savings due to Natural Gas Bidding and Conservation Initiatives



Financial Savings due to Water Conservation



Other Programs

CCAO Solar Program

- Letter of Intent to purchase 20-25% of electricity needs through a solar farm constructed in Ohio.
- Should be operational by Q4 2023.

Green Cleaning

- Facilities specifies Green Seal certified products for cleaning.





Solid Waste / Recycling

- Solid Waste Management District
 - Responsible for meeting State mandated recycling goals
 - Provides grant funding to communities to support recycling programs
 - Provides collection programs for special wastes



Community Recycling Initiatives

- \$900,000 spent annually supporting the recycling initiatives of the County's 48 political subdivisions.
- Financially supports curbside recycling in the County.
- In 2020, this enabled these communities to recycle over 58,000 tons of material.



Special Waste Collections and Events

- District Yard Waste Drop-off Sites
 - 3,871 tons of yard waste composted in 2020.
 - Compost bin sales to offer residents opportunity to compost at home.
- Household Hazardous Waste Drop-off (2020)
 - 109,000 pounds of hazardous waste collected





Waste Reduction Innovation Grants

- **Applicant: The Boston Beer Company, Samuel Adams Cincinnati Brewery**
- Project Title: Shrink-wrap Landfill Diversion Program – Baler Acquisition Project
- Grant Amount: \$8,482.43
- Project Summary: Project purchased and installed a shrink-wrap baler to facilitate recycling. An unexpected benefit to the business is the amount of warehouse space gained back by baling the material.

- **Applicant: Cincinnati Children’s Hospital Medical Center**
- Project Title: Cincinnati Children’s Food Rescue Program – A Prescription for Child Health
- Grant Amount: \$9,760.00
- Project Summary: Project provided a blast chiller to quickly freeze surplus prepared food to donate to Kelly Youth Services, an emergency shelter for youth displaced due to family crisis, abuse, or neglect.



Waste Reduction Innovation Grants

- **Applicant: Great Parks of Hamilton County**
- Project Title: Community Compost at Great Parks Campgrounds
- Grant Amount: \$8,245.00
- Project Summary: Project funds compost collection containers, educational and promotional materials, compost bins, and compost tools to manage food scraps in their campgrounds.

- **Project Title: Cardboard Baler: Waste Reduction**
- Applicant: The Healing Center Cincinnati
- Grant Amount: \$7,650.00
- Project Summary: Project purchased and installed a cardboard baler to facilitate recycling. Project also gives the Healing Center an opportunity to train interns with developmental challenges.



Soil and Water Conservation

Live-staking in watersheds to prevent stream erosion and promote watershed preservation.

Electric Vehicle Charging Stations

- Recently installed 18 EV Charging Stations at County parking garages.
 - 3 – West End Garage
 - 7 – Central Riverfront Garage (Banks)
 - 4 – Parkhaus Garage
 - 4 – East Garage (Pete Rose Way)



Thank you

