



# SUSTAINABILITY & RESILIENCE

**ANNUAL REPORT: 2020**  
City of Urbana, Illinois

Image Caption: Promotional graphic for bulk geothermal purchase program

## SUSTAINABILITY & RESILIENCE

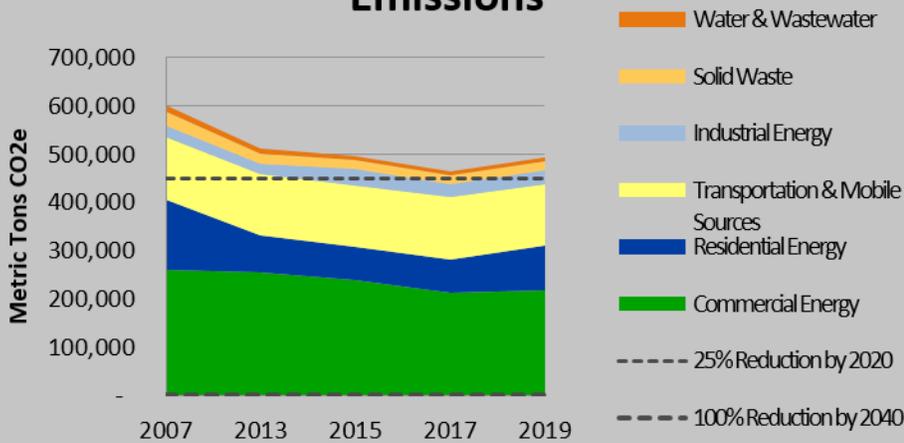
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The City of Urbana incorporates sustainability and resilience throughout a number of programs and departments, working to improve the performance of energy, water, and waste management. The City administers community energy efficiency and water conservation efforts while working with staff to save energy and water. It provides curbside and multi-family recycling service while conducting engagement with City staff to reduce waste. The City operates the Landscape Recycling Center as an enterprise which provides disposal services for landscape trimmings and converts this material into saleable lawn care products. The City is also responsible for maintenance of a closed landfill and pursues compatible reuse of the landfill property. Prior to the COVID-19 pandemic, the City began working across departments to improve continuity of operations preparations. It manages a Municipal Electric Aggregation program and the concomitant purchase of renewable energy credits. The Sustainability Advisory Commission, whose members are appointed by the Mayor, review and make recommendations regarding this work. For more information, visit <http://urbanaininois.us/sustainability>.

### **Sustainability & Resilience Budgets Fiscal Year 2020-2021**

<b>Category</b>	<b>Budget</b>
U-Cycle -staff, collection, carts, education	\$697,524.00
Environmental Management & Planning -staff, administration	\$75,716.00
City Landfill + CUSWDS Landfill -maintenance, consulting, sampling	\$64,835.00

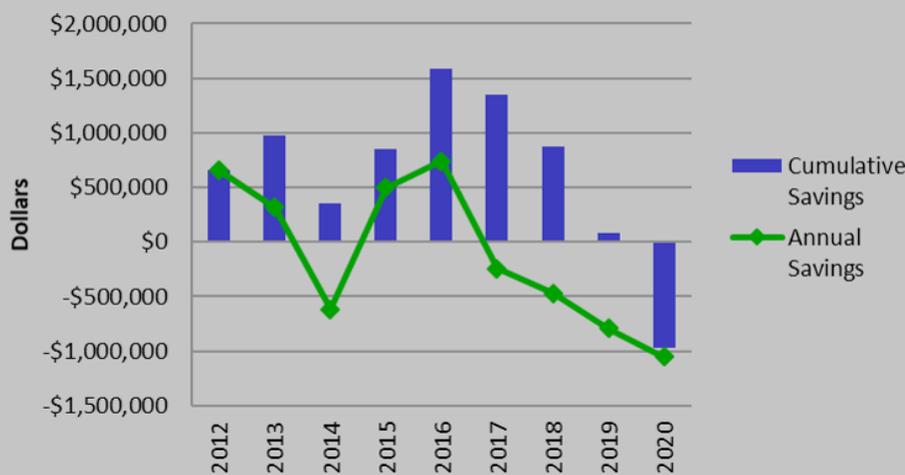
### Community Greenhouse Gas Emissions



#### Additional Information

2020 marked the end of a multi-year contract for electricity supply for residential and small commercial customers in Urbana that was entered into immediately preceding a relaxation in related regulations and a decline in market prices for electricity supply. The City's new electricity supply rate taking effect December 2020 is 20% lower than the previous contracted price.

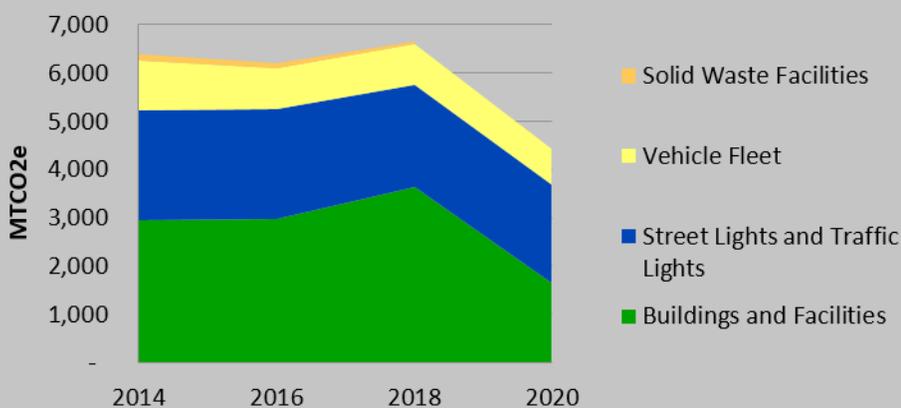
### Municipal Electric Aggregation Savings



#### Geothermal Urbana-Champaign

The City of Urbana partnered with the Midwest Renewable Energy Association and the Geothermal Association of Illinois to create a geothermal bulk purchase program. The program is making it faster, easier, and cheaper to replace natural gas heating with renewable geothermal heating through bulk purchasing, declining block pricing, and public education. Natural gas is a fossil fuel that produces carbon pollution. Geothermal uses stored energy in the earth to provide heating and cooling.

### City Facilities Greenhouse Gas Emissions

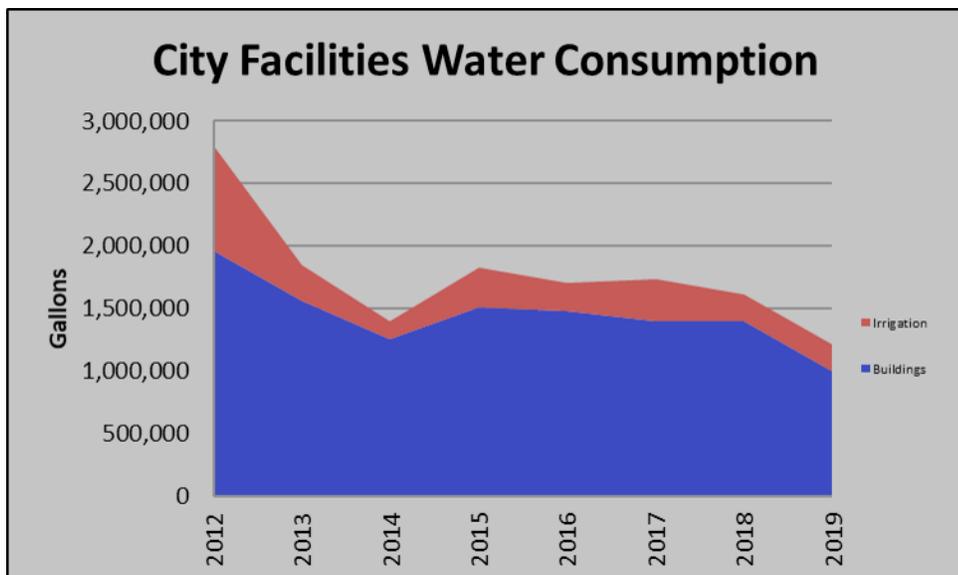
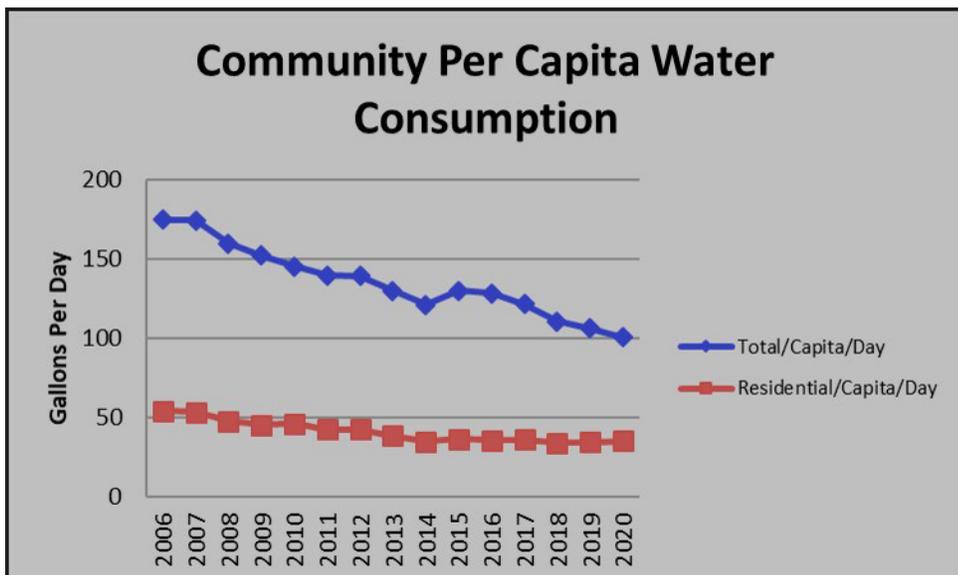
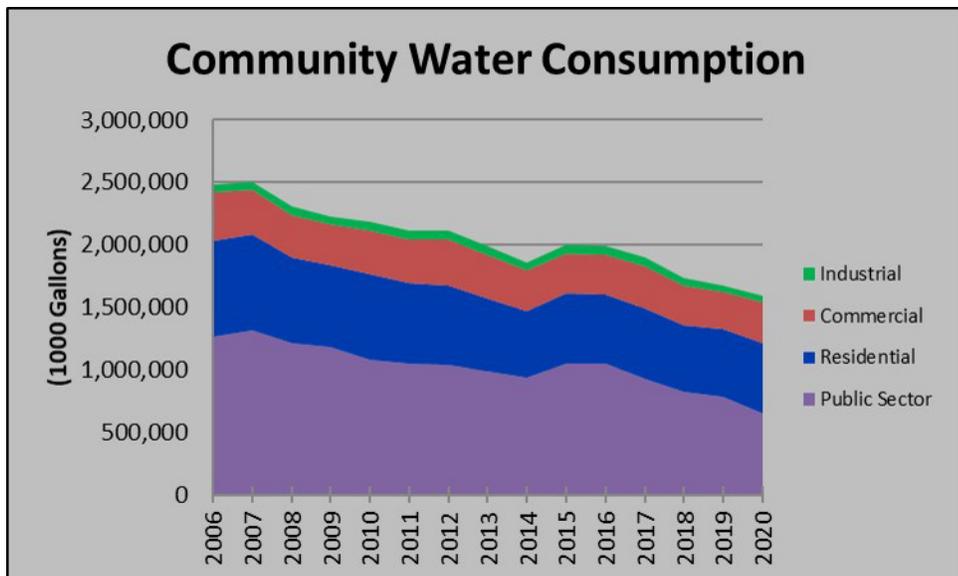


**Additional Information**

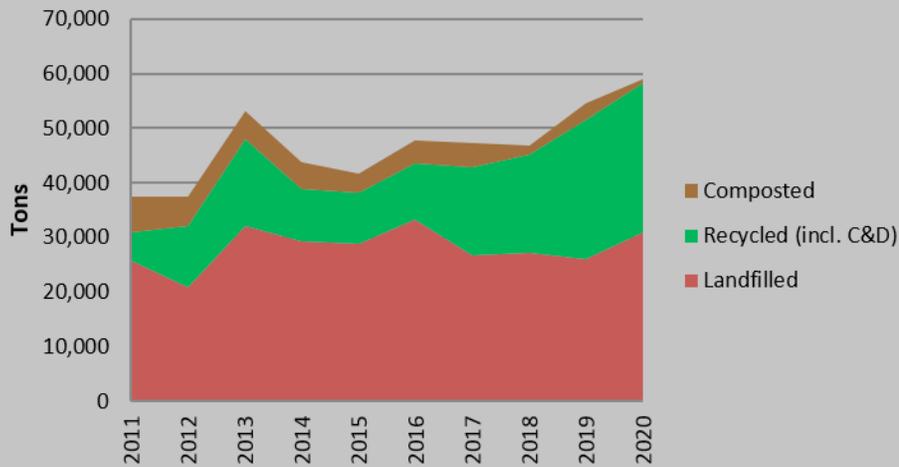
The Community Water Consumption chart shows proportional water consumption by sector in the community over time. It's presumed that technology change is the primary driver of declining water consumption.

**Stormwater Master Plan**

The City of Urbana has undertaken a Stormwater Master Plan project to guide the City's future efforts to manage stormwater infrastructure and improve water quality. This plan will consider the operations, maintenance, replacement, and expansion of the existing stormwater infrastructure system. Stormwater utility fees, credits, and incentives will be evaluated. Opportunities for utilizing green infrastructure to address stormwater system challenges will be investigated.



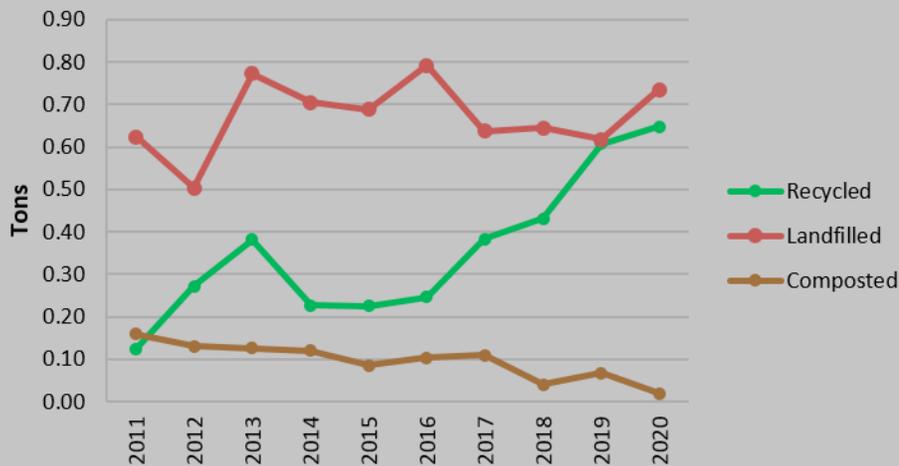
### Community Waste Diversion



#### Additional Information

The Community Waste Diversion chart shows proportional waste, recycling, and composting over time. In 2020, total waste diversion was 48%. The US average recycling rate for 2017, the most recent year reported, is 35.2%, including composting.

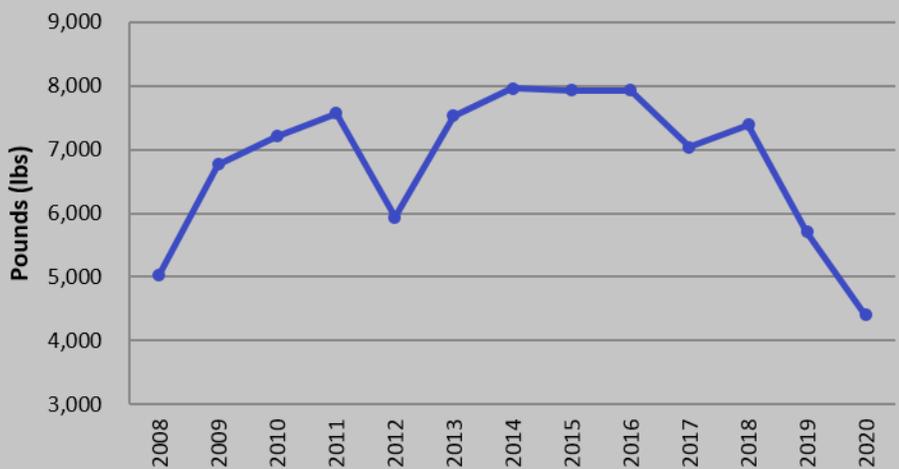
### Per Capita Waste Diversion



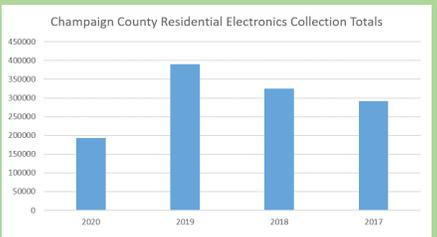
#### Electronics Recycling

Champaign County held only one electronics recycling event in 2020 due to COVID-19 restrictions. The Fall event, held in October, collected 192,690 pounds of electronic devices. In the past four years more than 1.2 million pounds of electronic devices were recycled in Champaign County. Of the electronic devices recycled over the years, TVs were the most collected item comprising 69% of all electronics recycled at the events.

### Community Battery Recycling



The chart below shows that progression to date.



**Additional Information**

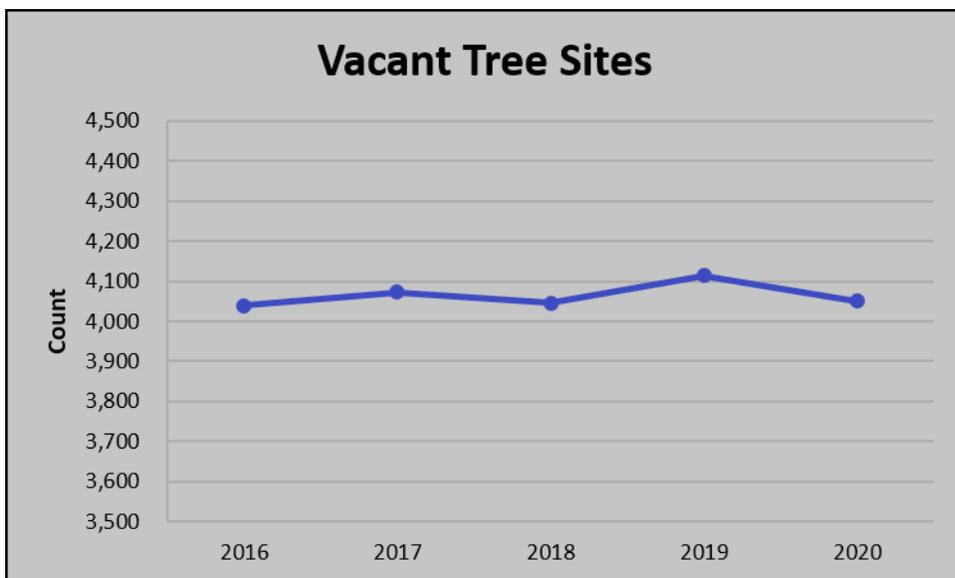
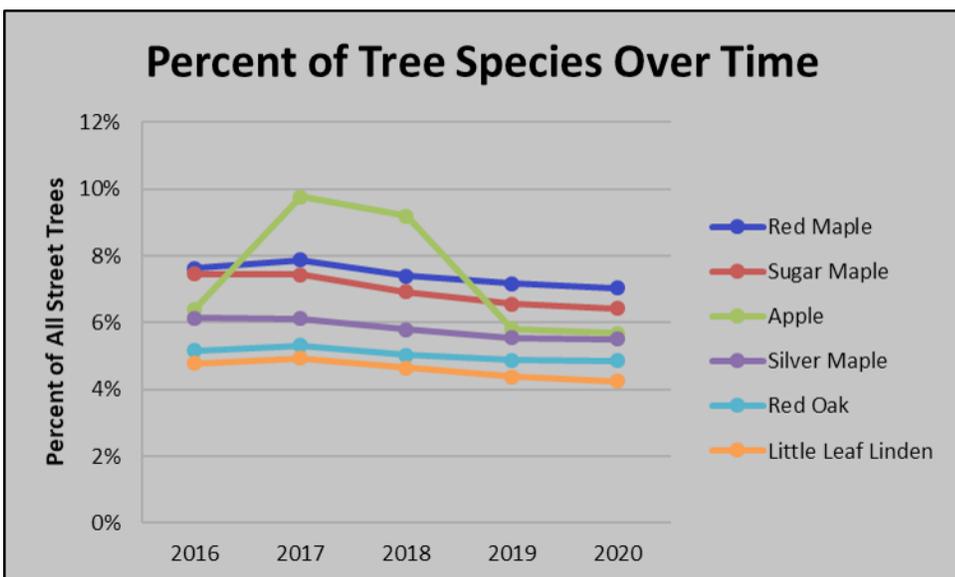
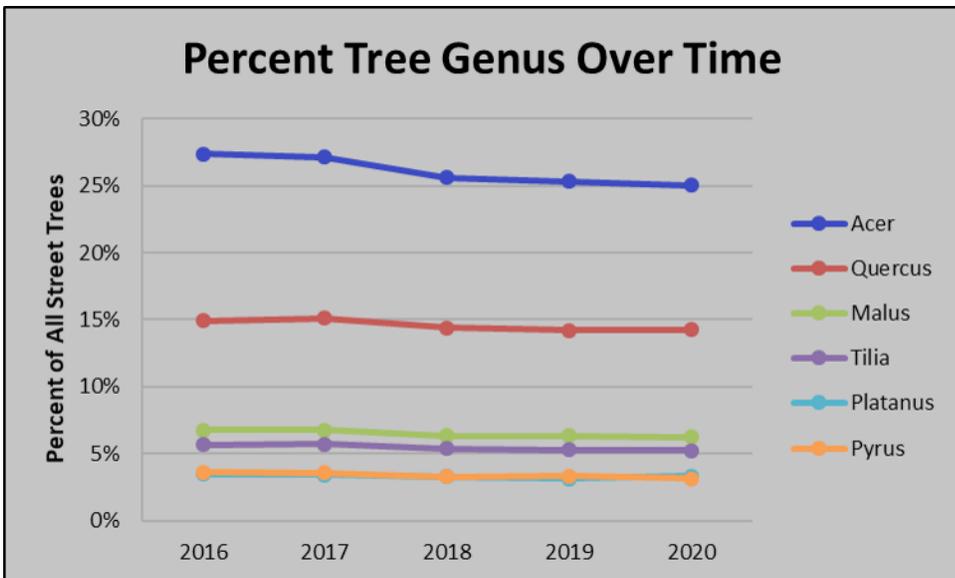
The Arbor Division has committed to maintain the percentage of trees in any one Family below 30%, the percentage in any one Genus below 15%, and the percentage in any one Species below 5%.

The City had 4,050 vacant street tree sites at end of 2020.

**Tree Species Diversity**

The City has been focusing on increasing tree Family, Genus, and Species diversity among its urban forest for years. This effort ensures strength through diversity. No single tree disease or stressor is likely to affect a significant proportion of the urban forest.

Urbana's tree data is publicly accessible at <https://urbana.mytreekeeper.com>.





The City has been awarded a grant from the Lumpkin Family Foundation to evaluate potential correlation of the spatial distribution of vacant street tree sites, canopy coverage, and urban heat with the spatial distribution of race and income. The grant also funds initial remedial street tree plantings. Results of the study will be publicly accessible.