

# Winston-Salem

## DEPARTMENT OF SUSTAINABILITY

### Annual Update

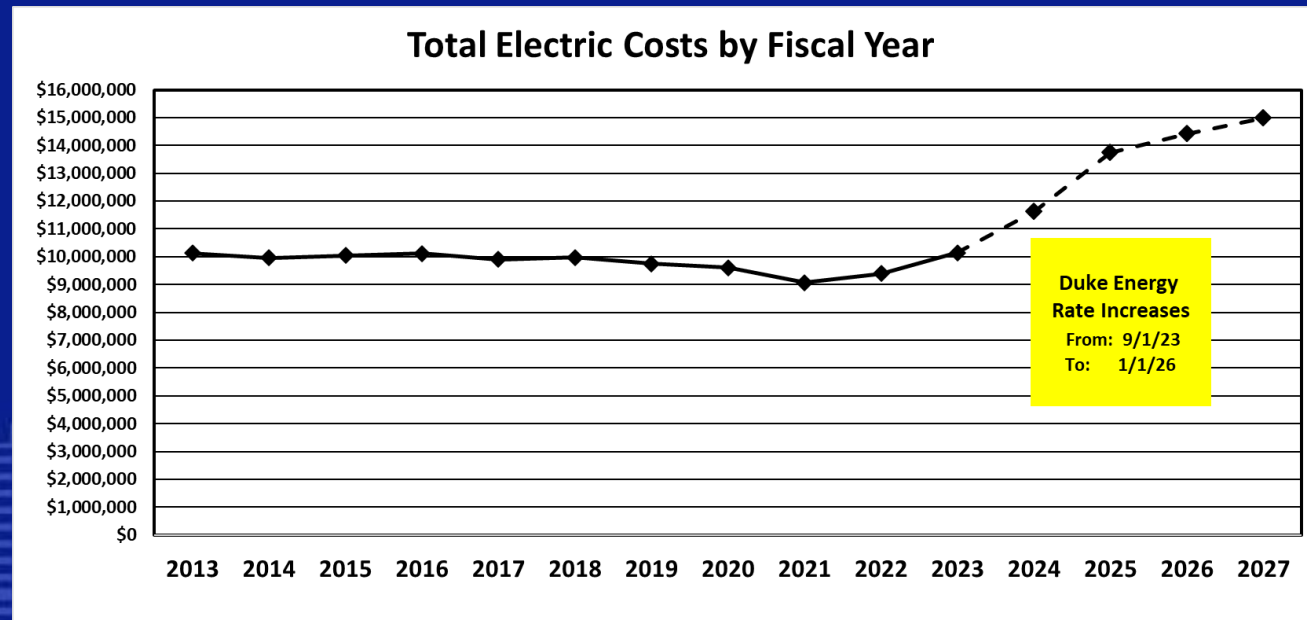
May 2024



# GHG

SUSTAINABILITY	Actual CY 2021	Actual CY 2022	Estimated CY 2023	Projected CY 2024
Total City Carbon Dioxide Output (Excluding Utilities Department) - Tons Using 2.1 lbs/kWh)	63,754	64,875	63,990	61,000
Total City Carbon Dioxide Output – Utilities Department - Tons Using 2.1 lbs/kWh	89,528	89,030	86,706	86,000
Total City Carbon Dioxide Output (Excluding Utilities Department) - Tons Using Duke's actual 0.8 lbs/kWh)	36,512	37,044	36,777	36,100
Total City Carbon Dioxide Output – Utilities Department - Tons Using Duke's actual 0.8 lbs/kWh	40,283	39,553	38,044	38,000

# Electricity



# City Electricity Use & Requested LED light upgrade

City of Winston-Salem Electricity Use (kWh)				
Description	Before LED Upgrade		After LED Upgrade	
	Annual KWH	Percent of Total	Annual KWH	Percent of Total
DOT- Street Lights provided by Duke	19,394,270	16.6%	9,282,600	8.7%
Non-Utilities	21,503,880	18.4%	21,503,880	20.2%
Utilities	75,765,074	64.9%	75,765,074	71.1%
<b>TOTAL</b>	<b>116,663,224</b>	<b>100.0%</b>	<b>106,551,554</b>	<b>100.0%</b>

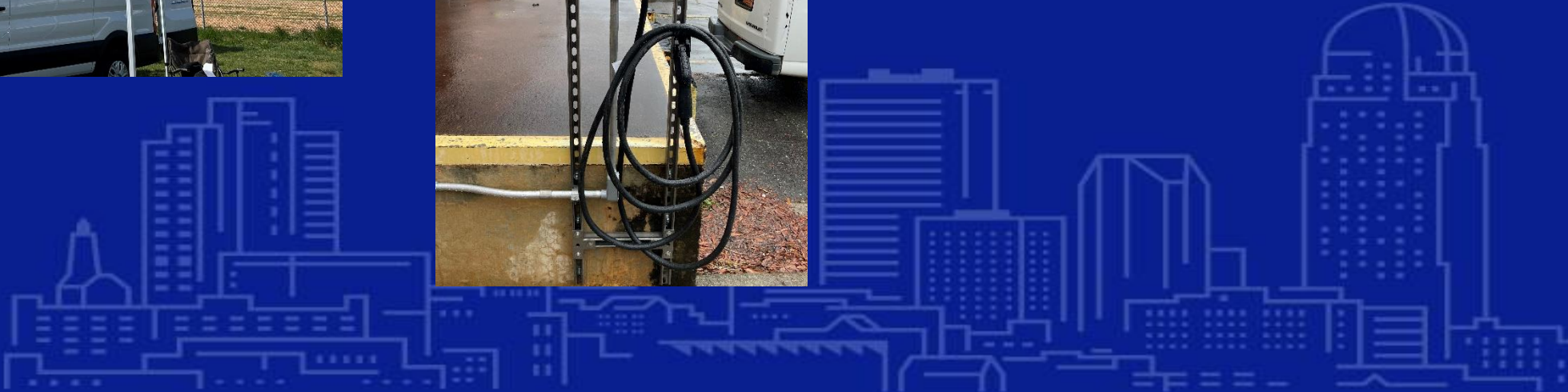
8.67% Reduction in overall energy consumption

# Bryce A. Stuart Solar PV

- 70 KW system installed Dec. 2023
- Duke Rebate \$52,500 received
- Waiting on low-income bonus IRA grant outcome before turning on



# EV Vehicles



# Second Street Park Demonstration Garden

- \$3,500 Audubon donation
- Bashavia Gardens and Matthew Mayers volunteer to plant and upkeep



  
Winston Salem

  
Natural  
Landscape  
Area



  
BEE  
CITY  
USA  
WINSTON-SALEM

# Bee City, USA

- 1,900 sq ft - Bee City Pollinator Beds
  - 2 beds at Washington Park (10 X 20 sq foot)
  - 2 beds at Reynolds Park (25 X 30 Sq foot)
- 3,565,640 sq ft – Parks & Recreation habitat spaces
  - Long Creek Conservation Easement Meadow (75 acres)
  - Pollinator Garden at Quarry Park (1 acre)
  - Pollinator Garden at Washington Park (4 acres)
  - Pollinator Garden at Historic Bethabara Park (1.5 acres)
  - Flower Bed Gardens at Sedge Garden & William Anderson Centers (15,500 sqft)

Happy Hill Meadow Project- Spring 2025



# Hydroponics

- In Q1 of 2024, they produced 1,998 pounds of food and planted 16,346 seeds.
- Value of food for Q1 alone was \$10,337.79
- H.O.P.E. of Winston-Salem uses to feed 445 families on a weekly basis.





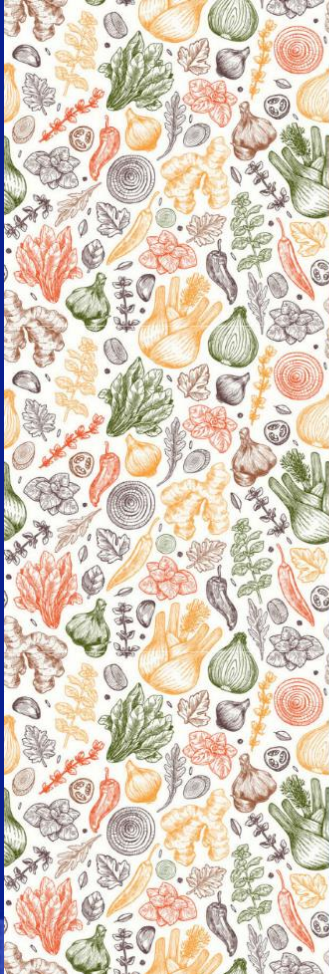
# Food Resilience

## Partner Feedback

- Food Space partner asset form
- Local roundtables

## Resident Feedback



- Online Survey
- Summer Community Meetings






CITY OF WINSTON-SALEM  
DEPARTMENT OF SUSTAINABILITY  
RESIDENT FOOD RESILIENCE SURVEY &  
COMMUNITY MEETINGS


Are you a Winston-Salem Resident? The City needs your feedback! Let us know where and how you access groceries. What is important to you about food resources?

Scan the QR Code or visit  
[wsfoodsurvey.mysocialpinpoint.com](https://wsfoodsurvey.mysocialpinpoint.com)



 June 14th at 4PM at Hanes Hosiery Community Center  
 June 20th at 12PM at Rupert Bell Neighborhood Center  
 June 26th at 7PM at Sprague Street Park Community Center  
 July 11th at 6PM at City Hall Committee Room  
 July 15th at 5:30PM - VIRTUAL over Zoom

Developing Food Resiliency Strategies



Winston-Salem

Visit the City of Winston-Salem website for more information at [www.cityofws.org/870/Sustainability](http://www.cityofws.org/870/Sustainability)