

Delaware County Office of Sustainability (DCOS) 2022 Annual Sustainability Report

Presenters:

- Francine Locke, Chief Sustainability Officer
- Becca Yurkovich, Sustainability & Resilience Manager

December 7, 2022



Climate Change

“Climate change is the most pressing concern and threat to people’s health.” - The World Health Organization

Out of 653 Delaware County residents surveyed, 490 reported (75%) being greatly concerned about the impacts of climate change.



Climate Change Consequences/Impacts:

- Human health
- Economy
- Environmental justice and equity - Climate change will not affect all Pennsylvanians equally
- Agriculture
- Recreation and tourism
- Energy and other economic activity
- Forests, ecosystems, and wildlife
- Built infrastructure



Socioeconomic Costs of Climate Change in Pennsylvania

The deep recurring socioeconomic costs of Climate Change in Pennsylvania are from:

- public health stresses (healthcare)
 - evacuations and closings (access to services)
 - flooded, buckled, and washed-out roads and bridges (transportation)
 - downed trees and power outages (electricity)
 - large-scale cleanups
 - destroyed homes, businesses, and harvests (food)
- Example: PEMA estimated 2018's severe weather to have caused approximately \$125 million in damage to public infrastructure due to flooding and landslides. Nearly half of damages were not covered by federal disaster aid, imposing strain on local, county, and PA's budgets.



Reducing GHGs can Change the Course

Delaware County is incorporating sustainability into the County's operations to reduce emissions from buildings, waste and vehicle sources, and increasing the amount of green space to absorb or offset carbon.



Local Climate Action Plan

Climate change is a global challenge that requires local solutions.



Delaware County's Local Climate Action Plan

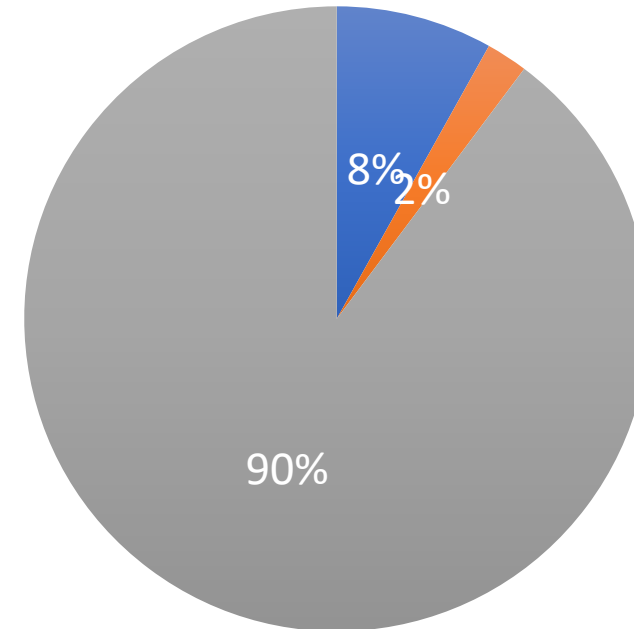
Submitted to PADEP by DCOS on August 31, 2022

Baseline Greenhouse Gas (GHG) Inventory County Operations

- Solid Waste - 1,523 MtCO₂/Yr
- Vehicle Fleet - 40 MtCO₂/Yr
- Facilities - 16,878 MtCO₂/Yr

90% of GHG from 70+ County Buildings

2020 CO₂e County Operations Greenhouse Gas Emissions



■ Solid Waste ■ Vehicle Fleet ■ Facilities



Delaware County GHG Reduction Plan

County Operations: Reduce Baseline GHG through Operations that County Controls

- Use energy conservation measures in County buildings.
- Procure renewable energy.
- Electrify County's vehicle fleet and build charging infrastructure.
- Increase walking/biking infrastructure.
- Zero waste in all County buildings.
- Increase green and open space.

County-wide: Define what County Controls, Influences and Provides Outreach and Education for to reduce GHGs

- Delaware County's Sustainability Plan will provide goals, targets and actions for County-wide GHG emission reduction.
- More on later slides.



Delaware County Sustainability Commission (DCSC)

- Formed in 2020 by Council Resolution No. 2020-4
- Comprised of eight members of County senior management and nine members of the public.
- Charged with providing reviews and recommendations to Delaware County Council and pertinent County departments regarding the preservation and protection of the natural and cultural environment of Delaware County.



DCSC 2022 Monthly Public Meetings



Next Meeting is this Friday, December 9th, from 2:00 - 4:00 PM

Schedules, Agendas and Meeting Minutes:

<https://www.delcopa.gov/sustainability/commission/schedule.html>

Residents can email their public comment, suggestions and questions to SustainDelco@co.delaware.pa.us

Date	Day & Time	Registration	Agendas	Meeting Minutes	Recordings
January 13	Thursday, 6pm		N / A	Minutes	Video
February 11	Friday, 2pm		Agenda	Minutes	Video
March 10	Thursday, 6pm		Agenda	Minutes	Video
April 8	Friday, 2pm		Agenda	Minutes	Video
May 12	Thursday, 6pm		Agenda	Minutes	Video
June 10	Friday, 2pm		Agenda	Minutes	Video
July 14	Thursday, 6pm		Agenda	Minutes	Video
August 12	Friday, 2pm		Agenda	Minutes	Video
September 8	Thursday, 6pm		Agenda	Minutes	Video
October 14	Friday, 2pm		Agenda	Minutes	Video
November 10	Thursday, 6pm		Agenda	Minutes	Video
December 9	Friday, 2pm	Register	Agenda	Minutes	Video



Delaware County Office of Sustainability (DCOS)

Mission:

Make Delaware County and its operations more sustainable and resilient to the effects of climate change by:

- Examining government operations
- Engaging with the community
- Working with the new Sustainability Commission to develop a long-term Sustainability and Climate Action Plan.

Goals:

- Create and implement County's Sustainability Plan
- Operationalize sustainability in six County Departments:
 - Public Works
 - Planning
 - Facilities Mgmt
 - Fleet/Motor Vehicle Mgmt
 - Parks and Recreation
 - Conservation District



2022 Delaware County Office of Sustainability

Office of Sustainability Staff

GIS, Julie DelMuto

Public Works, Danielle Floyd, Director

Planning, Gina Burritt, Director

Parks and Recreation, Marc Manfre, Director

Facilities Management, Ed Orner, Manager

Fleet Management, Joe Ciavarelli, Interim Director

Conservation District, Ed Magargee, Director



New Talent in 2022

Feb. 2022

Public Works Director,
Danielle Floyd

Sep. 2022

Public Works Architect,
Nicole Ward, R.A.

Nov. 2022

Planning Director, Gina
Burritt

July 2022

Sustainability and
Resilience Manager, Becca
Yurkovich

Sep. 2022

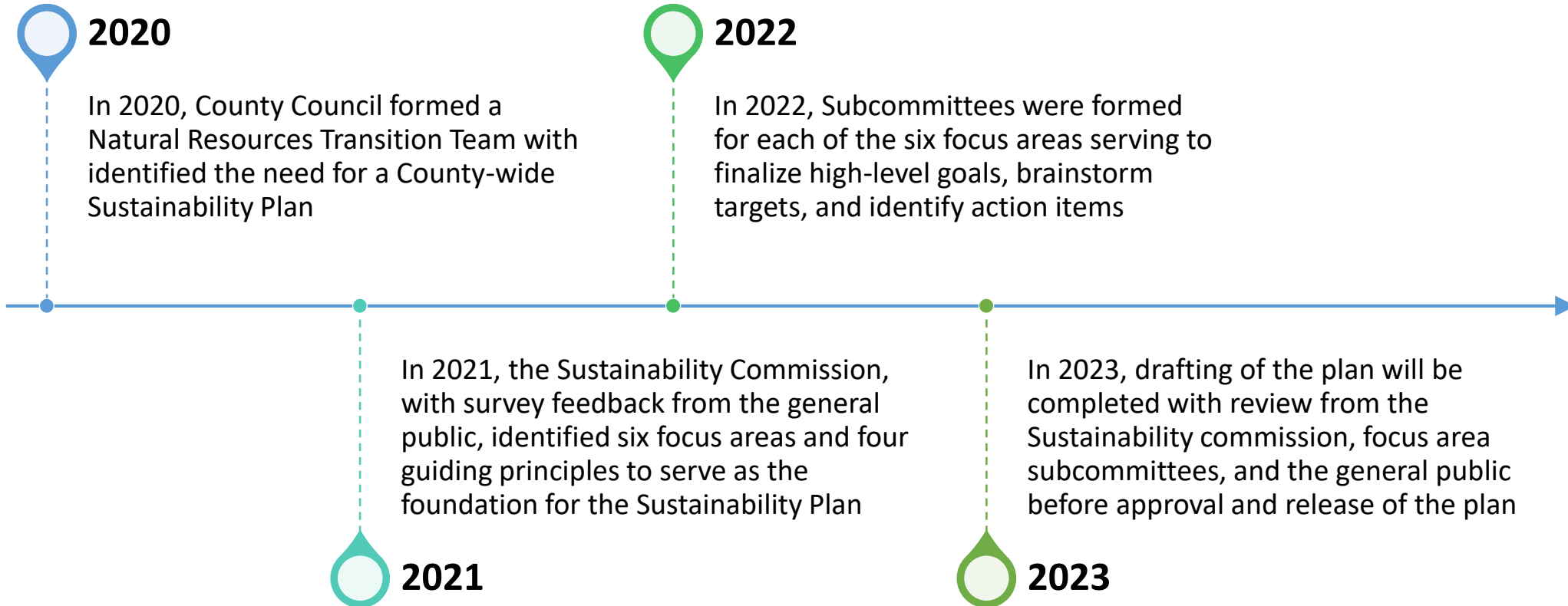
Community Engagement
Specialist, Brittani Hales

DELCO

Sustainability



Sustainability Plan Development



County Sustainability Priorities Identified

Guiding Principles

- Education
- Economic Sustainability
- Equity, Inclusion, and Justice
- Governance

Focus Areas

- Natural Resources
- Energy and Efficiencies
- Transportation
- Zero Waste
- Climate Resiliency
- Health and Wellness



Engagement by the Numbers

Community Prioritization Survey (December 2021)

- 653 Participants
- 40 of 49 Municipalities Represented
- Sustainability Priorities: Natural Resources, Climate Resiliency, and Waste Management

Subcommittee Engagement (August 2022 – Present)

- 74 Participants
- 41 Hours of Active Meetings
- 6 Focus Areas
- 11 Goals
- 19 Areas of Interest

Stakeholder Meetings (October 2022 – Present)

- 18 Meetings with Internal and External Stakeholders
- 8 County Departments
- 10 Community Organizations and Outside Entities



Sustainability Plan Next Steps

- Drafting of the Plan (December 2022 - March 2023)
- Subcommittee Action Item Review (November 2022 – February 2023)
- Public Engagement/Draft Review (January 2023 – April 2023)
- Plan Amendments (April 2023)
- Sustainability Commission Review (March – May 2023)
- Sustainability Commission Approval (May 2023)
- County Council Announcement (May – June 2023)
- Unveil to Public at 2nd Annual Sustainability Conference (June 2023)



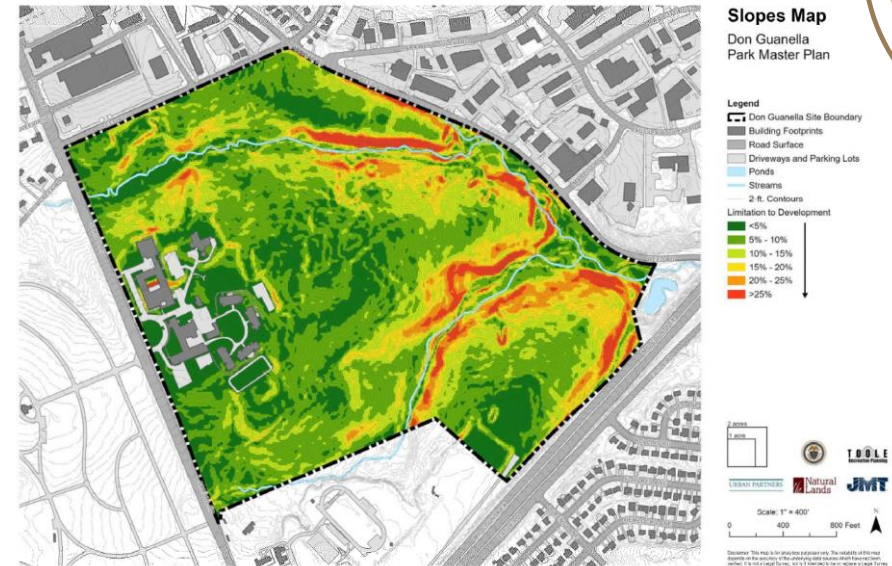
GIS 2022 Highlights

- Mapping Community Resources
 - Municipal Dashboard (Census Data)
 - Share Food Pantry Locations
 - Delaware County Libraries
 - Veteran's Discount Program
 - Broadband Access Dashboard
- Improving Efficiency in County Functions through Mapping
 - County Parks and Recreation Facilities
 - County Rental Assistance Program Applicants
 - County Bridge Data and Conditions
 - Delco Greenways Grant Applications
 - Election Day Collections



GIS 2022 Highlights

- Analyzing information for Strategic Action
 - Former Don Guanella Site Analysis
 - Analyzing the greatest need areas for local hospitals
 - Evaluating communities with high incidence of lead poisoning
 - Mapping incidences of illegal dumping in Chester City
 - Vaccine Disbursement to Homebound Residents
 - Opioid Incidents



Public Works 2022 Highlights

- Council approved largest Capital Improvement Program (CIP) **\$75 Million** 2022-2023
- CIP was Informed by Steering Committee & Driven by Facility Condition and Needs Assessment (FCNA) Data
- Briefings with all County Department Directors on results of FCNA for their respective buildings
- Designing Delaware County Health Department Headquarters - County's first building designed to achieve LEED-Existing Building (EB) certification!



Significant Capital Investment in Parks and Open Space

1. \$1,429,513 for Rose Tree County Park Playground Project
2. \$1,134,755 for Little Flower Open Space Park Development
3. \$1,443,775 for Upland County Park Playground Redevelopment and Athletic Field Project

Director: Danielle Floyd

Collaboration between Planning, Parks & Recreation and Public Works Departments

Delaware County Park Improvements



Planning Department 2022 Highlights

- Green Ways Grant Round III!
- Countywide Stormwater Management Planning (Act 167) – Model Ordinance – focus on GSI and low impact development
- EPA Air Quality Environmental Justice Grant Awarded in collaboration with Johns Hopkins University and DEP
- Vision Zero Plan in Development
- Route 291 Road Diet Feasibility Study Funded
- Former Don Guanella Site Master Plan Development
- America250PADelco Planning Team

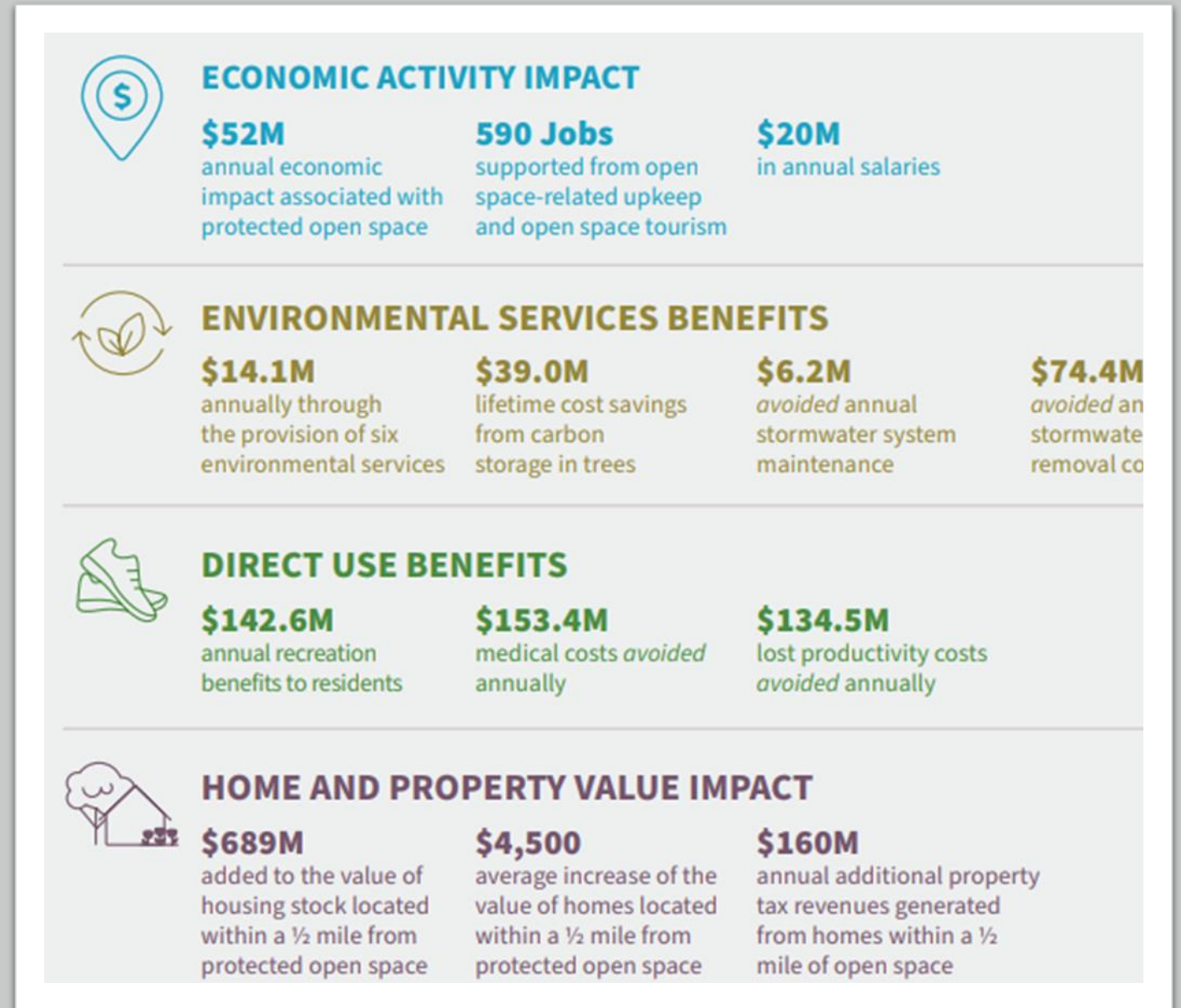


2022 Return on Environment Report

Goal: To quantify the economic value of protected open space specific to Delaware County.



Director: Gina Burritt



Parks & Recreation 2022 Highlights

- 65 Events Organized by Parks and Recreation in 2022
- 30,000+ Attendees at Events
- Successful Delaware County Senior Games
- Converting to Electric Groundskeeping Equipment
- Strong Collaboration with Penn State Extension and Pennsylvania Resources Council



Summer Concert Series Goes Zero Waste!

Estimated Grand Total
Waste Diverted:

2,058 lbs



Director: Marc Manfre



**BE A ZERO WASTE GOALIE
AT ROSE TREE PARK!**



Parks Partnership with Pennsylvania Resources Council (PRC)

ELECTRONICS RECYCLING COLLECTION

SPONSORS
 Pennsylvania Resources Council




DELAWARE COUNTY
Upland County Park
 280 6th Street, Upland, PA 19015
Tuesday, Oct 4, 2022
 9 am - 1 pm

NO RECYCLING FEE CHARGED

ITEMS ACCEPTED:

- Televisions (2 per registration)
- Computer monitors and printers
- CPU (towers), laptops, mice and keyboards
- Desktop copiers and scanners
- Tablets, routers and modems
- Home and cell phones
- Cable boxes and electronic cables
- DVD players, VCRs, stereos and video game consoles
- Vacuum cleaners



EVENT DETAILS

- PRC accepts all forms of payment.
- Place all items in car trunk/truck bed.
- PRC follows all federal/state/local health and safety guidelines. Visit website for details.

 **ENTERPRISE**
 the gold standard for socially and environmentally responsible electronics recycling and reuse

ADVANCE REGISTRATION REQUIRED
prc.org/DelcoCollection • 610-353-1555 x3

 JOIN OUR EMAIL LIST

Grand Total: 29,660 lbs.

LEARN TO COMPOST
Saturday, May 14, 2022
1-2 pm
Upland County Park

FOR RESIDENTS OF CITY OF CHESTER, CHESTER TOWNSHIP & UPLAND BOROUGH




Receive a **FREE** compost bin following class!

PRE-REGISTRATION IS REQUIRED FOR THIS FREE BACKYARD COMPOSTING WORKSHOP



ELECTRONICS RECYCLING COLLECTION

SPONSORS
 Pennsylvania Resources Council





DELAWARE COUNTY
Rose Tree Park
 1671 N. Providence Rd, Media, PA 19063
 Entrance on Route 252
Tuesday, May 10, 2022
 9 am - 1 pm

2022 FEE STRUCTURE

NO COST:

- CPU (towers), laptops, mice, & keyboards
- home/cell phones
- tablets, routers and modems
- cable boxes
- DVD players, VCRs and stereos
- desktop copiers and scanners
- electronic cables
- video game consoles
- vacuum cleaners

FEE CHARGED:

• printer	\$5
• computer monitor	\$20
• television	\$30
• projection or console TV	\$40



EVENT DETAILS

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- Place all items in car trunk/truck bed.
- PRC follows all federal/state/local health and safety guidelines. Visit website for details.

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 JOIN OUR EMAIL LIST

Grand Total: 19,000 lbs.

Community Garden

Rose Tree Park's popular Community Garden club has **over 100 dedicated members** each year who diligently tend plots throughout the growing season. The gardeners supply their own tools and utilize organic methods to grow everything from fragrant flowers and aromatic herbs to delectable heirloom fruits and vegetables. Garden plots are leased annually from April through November for the nominal fee of \$30.

Director: Marc Manfre



Facilities Management 2022 Highlights

- Worked closely with Public Works on developing CIP for building improvements based upon FCNA and Work Order data
- Enhanced County Work Order System with Intranet Site
- Instituted Preventative Maintenance Program
- Solar Array on Government Center:
 - Generated 250,116.3 kW/h
 - Produced 5.1% of Energy,
 - Saved \$37,517.45 in electricity costs



1st County Campaign Sign Recycling Event

- 2,280 pounds of metal to scrap yard!
- Received payment of \$164 for metal.
- Over 2,000 pounds of plastic was taken to recycling facility.

Manager: Ed Orner

Recycling Events

Nov. 18th-19th & Dec. 2nd -3rd

8:00 AM—4:00 PM

Delaware County Emergency Services Training Center
1600 Calcon Hook Road, Sharon Hill, PA



All Campaign Signs (plastic-coated, cardboard and vinyl signs) and accompanying metal stands will be accepted free-of-charge. All collected materials will be recycled.

Delaware County's Sustain...



Zero Waste

Delaware County embarked on a planning process to update its Municipal Waste Management Plan in 2021 to coincide with the development of the Sustainability and Climate Action Plan and to comply with Pennsylvania's Municipal Waste Planning, Recycling and Waste Reduction Act (Act 101 of 1988).

Plan to be finalized in early 2023!

- **20 Listening Sessions** with over 140 participants
- **3 Public Workshops** with nearly 200 participants In person, with a concurrent meeting online via Zoom covering the same material.
- **4 Solid Waste Advisory Committee Meetings**



In Person June 30, 2022, Meeting in Chester

- Close to 100 residents participated
- Held at the Chester City Hall Community Room.
- Reviewed the Guiding Principles, Initiatives, and draft implementation plan.
- Guest speaker was Marvin Hayes, a Fellow at the Open Society Initiative and runs the Baltimore Compost Collective.
- Marvin gave an inspiring talk about the importance of composting to Zero Waste and how communities can use compost to educate youth and provide nutrients to grow food locally.

Zero Waste Plan Workshop June 30 • 6 PM

CHESTER CITY HALL
COMMUNITY ROOM
1 FOURTH STREET
CHESTER, PA 19013

GUEST SPEAKER • MARVIN HAYES
COME SHARE YOUR INPUT AND
GUIDE DEVELOPMENT OF THE PLAN
LIGHT REFRESHMENTS

SPACE IS LIMITED • PLEASE REGISTER

DELAWARE COUNTY IS
UPDATING ITS
10-YEAR MUNICIPAL WASTE
MANAGEMENT PLAN USING
ZERO WASTE PRINCIPLES

JOIN US FOR THE WORKSHOP
EITHER IN PERSON OR
ONLINE VIA ZOOM



GUEST SPEAKER • MARVIN HAYES • BALTIMORE COMPOST COLLECTIVE



FOR MORE INFORMATION, OR TO
REGISTER FOR THE WORKSHOP,
VISIT THE PROJECT WEBSITE AT
delcopa.gov/workshops



Fleet/Motor Vehicle Management 2022 Highlights

- In 2021, the County received an Alternative Fuels Incentive Grant (AFIG) award from the PADEP used to buy 15 electric vehicles and \$35,740 to install six dual charging stations.
- 29 EV being delivered now.
- The EVs will be dedicated to the County's new health department.
- Supported November 2022 Elections with EVs



2022 Largest PA DEP Grant EV Project Award

- \$600,000 grant awarded by the Pennsylvania Department of Environmental Protection (DEP)
- Used to purchase 69 new electric vehicles and add 22 new charging stations
- Will displace 33,253 gallons of gasoline use per year and reprojected to reduce greenhouse gas emissions by 178 tons per year.



Conservation District 2022 Highlights

- Stormwater basin naturalization project at Fair Acres Campus
- Live Stakes planting at Glen Providence Park
- Rain Garden installed at Kent Park at Dog Park
- Installed down spout planter at Rose Tree Park and Smedley Park
- Compliance that protects the environment:
 - 149 Inspections Performed
 - 189 Erosion & Sediment Control Plans Reviewed
 - 48 Permits Issued
 - 37 Sediment Pollution Complaints Investigated



Partnership with Penn State Extension to Create a Multi-functional Riparian Buffer at Smedley Park

October 8, 2022

- Grant Funded Project
- Six species of shrubs planted
- Live stake nursery to improve stream bank stabilization
- 25 Volunteers



2022 Recognition



April 21, 2022, Inaugural Delaware County Sustainability Conference

200 attendees
>20 speakers
20 Expo Tables





April 26, 2022
2022 Pennsylvania Governor's Award for
Environmental Excellence



GREEN BUILDING UNITED 2022 Sustainability Symposium



**18+ SESSIONS, 4 TOURS,
EXPO FLOOR + HAPPY HOUR!**

**MAY 6, 2022
8:00 AM - 7:00 PM**

March 24, 2022, Presentation
for the League of Women Voters
– New Developments in Sustainability
and Environmental Health

May 6, 2022, Presentation at
GBU Symposium – Public Works
Re-Imagined.

August 31, 2022, Presentation at
EP-ACT annual event – The Start-
up of a County Sustainable Fleet
Management Program

December 19, 2022,
Presentation for the Delaware
County Sierra Club Ready for 100
– Planning for a Sustainable
Delco

November 22, 2022

Delaware County Receives Alternative Fuel Leadership Award



This award is given to an organization that has proven over time that it is committed to deploying, developing or installing alternatively fuel technologies. Leadership organizations have consistently taken risks on new technologies and remain committed to finding new ways to deploy and introduce AFV technologies.



“In Delaware County, the future is sustainability”



Goals for 2023

- Publish 1st Sustainability Plan and Begin Implementation
- Hold 2nd Annual Delaware County Sustainability Conference
- Publish County-wide Zero Waste Plan and Implement Pilot Program
- Expand Vehicle Electrification Program
- Develop County Public Works Design Standards for CIP
- Continue to invest in Parks, Open Space and Trails
- Continue working towards renewable energy through RPPA and PJM CCC

