DU PAGE COUNTY

Environmental Committee

Final Summary

421 N. COUNTY FARM ROAD
WHEATON, IL 60187
www.dupagecounty.gov

Tuesday, April 1, 2025 **8:30 AM** **Room 3500A**

1. CALL TO ORDER

8:30 A.M. meeting was called to order by Chair Sheila Rutledge at 8:30 A.M.

2. ROLL CALL

MOVER:	Cynthia Cronin Cahill
SECONDER:	Paula Garcia
PRESENT	Cronin Cahill, Evans, Honig, LaPlante, Rutledge, and Garcia
REMOTE	Haider

MOTION TO ALLOW REMOTE PARTCIPATION

Member Cronin Cahill moved and Member Garcia seconded a motion to allow Member Haider to participate remotely.

RESULT:	APPROVED
MOVER:	Cynthia Cronin Cahill
SECONDER:	Paula Garcia
AYES:	Cronin Cahill, Evans, Honig, LaPlante, Rutledge, and Garcia
REMOTE:	Haider

3. CHAIRWOMAN'S REMARKS - CHAIR RUTLEDGE

Chair Rutledge mentions that she is organizing a crew for an upcoming prairie path clean up and anyone is welcome to participate.

4. PUBLIC COMMENT

Kay McKeen, founder and Executive Director of SCARCE (School and Community Assistance for Recycling and Composting Education) stated this month is packed with recycling events-eight in total. Upcoming events include a flag ceremony at Forest Glen School in Glen Ellyn on Earth Day, April 22 and the 19th year of the Sustainable Design Challenge on April 15, which already has 26 teams signed up. A scheduling conflict with SAT testing means some schools won't participate this year, so organizers are considering shifting the date to March in future years. Arbor Day is celebrating its 153rd anniversary and upcoming events include a cleanup along the prairie path and the Great Western Trail on April 26th. She concluded by encouraging the board to participate in these activities, emphasizing how simple actions can make a big difference in caring for the planet.

5. APPROVAL OF MINUTES

5.A. **25-0913**

Environmental Committee Minutes - Regular Meeting - Tuesday, March 4, 2025

RESULT:	APPROVED
MOVER:	Cynthia Cronin Cahill
SECONDER:	Lucy Evans

6. PRESENTATIONS

6.A. **25-0914**

Clean Energy Workforce Analysis

Lisa Schvach, Executive Director at WorkNet DuPage, shared how she and Workforce Board Manager Jamie Brown were approached by Joy Hinz to allocate a portion of the Energy Efficiency Conservation Block Grant funds to explore the clean energy job sector in DuPage County. Their goal was to assess the county's positioning for future opportunities and identify areas with limited potential.

One of the grant's allowable activities was conducting a workforce skills gap analysis, which led them to partner with Lightcast. Over two months (October-December 2024), Lightcast analyzed labor market trends to evaluate DuPage County's workforce strengths and determine the presence of clean energy jobs. Using the Jobs EQ technology platform, they aggregated data from workforce, labor market, and economic development reports to identify trends in job demand.

Schvach noted the challenge in defining "green jobs" since they do not fall under a specific industry sector. To address this, they collaborated with another organization to develop a tagging system, categorizing roles as either "core green jobs" or "green-enabled jobs." The report found that green-enabled jobs currently make up the majority of DuPage County's clean energy workforce. Schvach emphasized that this tagging system was essential for accurately identifying job trends and understanding the region's clean employment landscape.

Lisa Schvach highlighted key findings from the report, noting an increase in workforce training but emphasizing that the overall number of job openings in DuPage County's clean energy sector remains relatively small and furthermore identifies green building and construction as the sector with the most job postings year over year. However, even at its peak, this sector had only 1,400 job openings, making it a small fraction of the county's total labor market.

She cautioned that while the report shows a 200% increase in green jobs, this percentage can be misleading since it starts from a relatively low base compared to the county's overall job market. The report identified the three largest sectors for green or clean jobs in DuPage County: construction, manufacturing, and building maintenance, with automotive being the smallest.

Schvach noted that the findings align with the types of career guidance and training WorkNet DuPage provides to job seekers. With construction-both green and traditional-showing strong growth and manufacturing in high demand, WorkNet DuPage has been expanding training programs in HVAC, programmable logic controllers, and other building science-related fields to meet the evolving workforce needs.

The automotive industry data in WorkNet DuPage's analysis revealed some surprising insights. **Jamie Brown, Workforce Board Manager at WorkNet DuPage**, shared their curiosity about the experience and training required for someone pursuing a career as an Electric Vehicle (EV) Technician.

After reaching out to local mechanics and car dealerships, Brown found that employers overwhelmingly expect a minimum of five years of experience-with some managers requiring at least 10 years-to qualify for an EV technician role. This means that short-term training programs, such as six-week or two-month courses, are not sufficient to enter the EV field. Instead, becoming an EV technician requires extensive mechanical experience, making it a challenging career path for newcomers.

Lisa Schvach noted that this reality can be frustrating for job seekers, who often discover late in their training that the pathway to green jobs is far more complex than they initially thought. The key takeaway from this report, she emphasized, is finding ways to help individuals take those crucial first steps on the career ladder-so they can eventually reach these high-demand, premium positions in the green workforce.

Chair Rutledge invites Member Evans to share any questions, prompting Evans to ask Lisa and Jamie for more details on the report or any presentation slides summarizing the findings.

Lisa reiterates that the top green industries in DuPage County are construction, manufacturing, building maintenance, and automotive, with automotive ranking the lowest among them. She highlights that DuPage County excels in green-enabled jobs at the office and management level, such as project management for environmental companies.

She explains that WorkNet DuPage is closely examining these entry points, identifying potential employer connections, and training programs necessary for job placement. A key challenge is helping individuals secure middle-skills jobs-positions that offer livable wages without requiring extensive training. The report not only validates existing observations but also provides a clearer economic outlook for DuPage County.

As a result, Lisa shares that WorkNet DuPage has connected with a new training provider seeking state approval to offer training programs for both individuals and company employees. She also highlights incumbent worker training grants as a significant tool, providing reimbursement for training costs to help businesses improve their workforce.

Member LaPlante shares her thoughts on the presentation and suggests ways DuPage

County could bridge the gaps in green job opportunities. She asks Lisa and Jamie how the board can help incentivize and encourage more individuals to enter the green sector.

Lisa responds by highlighting a misalignment between job supply and demand-many individuals are pursuing careers that do not necessarily align with the most in-demand roles. She emphasizes the need for a campaign to raise awareness, helping people recognize that green jobs are a viable and growing career sector.

Vice Chair Haider then asks whether mechanics must gain experience solely through on-the-job training to become EV technicians or if formal training programs are available. She also inquiries about the duration of such training.

Lisa explains that while some formal training exists, much of the necessary expertise comes from on-the-job experience, typically requiring five to ten years to advance in the field.

There are automotive training programs incorporating EV technology, which is a positive step in familiarizing new mechanics with the field. However, feedback from dealerships and repair shops suggests that while these programs are beneficial, newer technicians are not being allowed to work directly on EVs. Instead, EV repairs are reserved for senior mechanics, limiting immediate opportunities for those just entering the industry.

7. STAFF REPORTS

7.A. **25-0923**

DuPage County 2024 Waste & Recycling Annual Report

Due to time constraints, Chair Rutledge encourages the board to reach out to Joy Hinz with questions about the DuPage County 2024 Waste and Recycling Annual Report.

7.B. 2025 Document Shredding Events Update

Due to time constraints, Chair Rutledge encourages the board to reach out to Joy Hinz with questions about the 2025 Document Shredding Events Update.

8. OLD BUSINESS

No old business was discussed.

9. NEW BUSINESS

No new business was discussed.

10. ADJOURNMENT

With no further business, the meeting was adjourned at 9:00 A.M.

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File #: 25-0913 **Agenda Date:** 4/1/2025 **Agenda #:** 5.A.

DU PAGE COUNTY

Environmental Committee

Final Summary

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WHEATON, IL 60187
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Tuesday, March 4, 2025 **8:30 AM** **Room 3500A**

1. CALL TO ORDER

8:30 A.M. meeting was called to order by Chair Sheila Rutledge at 8:30 A.M.

2. ROLL CALL

Other members present: Yeena Yoo, Greg Schwarze

PRESENT	Cronin Cahill, Evans, Haider, Honig, LaPlante, and Rutledge

3. CHAIRWOMAN'S REMARKS - CHAIR RUTLEDGE

4. PUBLIC COMMENT

The following individuals made public comment:
Jacqueline Casazza, president and co-founder of Go Green, Glen Ellyn, and an advocate for reducing plastic pollution, spoke about the dangers of single-use plastics, particularly in terms of health and environmental impacts. She emphasized that plastic contains harmful chemicals which can accumulate in the food chain and in our bodies. While she acknowledged that a plastic-free world is unrealistic, she advocates for reducing single-use plastic products where alternatives exist.

Casazza supports the county's consideration to eliminate single-use plastic water bottles from vending machines, citing research that found significant microplastic contamination in bottled water. She also highlighted the environmental cost of bottled water production, which is much higher in energy consumption compared to tap water. She suggested alternatives, such as water bottle refill stations and the use of recyclable aluminum bottles, encouraging the county to ensure proper recycling systems are in place. Casazza voiced her strong support for any actions taken by the county to reduce single-use plastics.

Wendy Vernon, the Plastic Reduction Chair for the River Prairie group of Sierra Club in Carol Stream, spoke in support of eliminating plastic bottles from vending machines in DuPage County government buildings. Vernon emphasized that plastic production emits harmful toxins and contributes to microplastic contamination in the environment and human bodies. Exposure to microplastics has been linked to various health issues, and the burden affects communities near plastic production sites.

She highlighted the high hidden costs of plastic waste management and health care expenses, estimating that plastics contribute $250 billion annually to U.S. health care costs. Vernon also

noted the inefficiency of recycling plastic, with less than 6% being recycled in the U.S. She wants DuPage County to act by removing plastic bottles from government buildings, setting a positive example for businesses and institutions while fostering a cleaner, healthier community.

5. APPROVAL OF MINUTES

5.A. **25-0554**

Environmental Committee Minutes - Regular Meeting - Tuesday, February 4, 2025

RESULT:	APPROVED
MOVER:	Cynthia Cronin Cahill
SECONDER:	Saba Haider

6. DISCUSSION

6.A. Dining Services Plastics Alternatives

Diane Borske, the Manager of Support Services at the Care Center, shared an update on the center's efforts to reduce plastic usage. Key initiatives before 2023 included switching to compostable cups, using unbleached napkins, and providing refillable thermoses for coffee creamers, paper bags and plates. This was not successful due to most customers taking their food to their offices. A discount was offered for bringing refillable cups, and food scraps were recycled to help Animal Services feed small animals.

In 2023-2024, they made more changes, including eliminating foam cups, switching to paper cups and recyclable plastic containers, and biodegradable straws. A trial of aluminum cans for drinks was also implemented. They are now working on eliminating single-use condiment packages.

These changes have had a financial impact. The Care Center's efforts to cut back on plastic have led to an extra $50,000 in expenses annually. The Care Center's vending contract may be affected because vendors anticipate a decrease in sales due to the shift to cans. Some customers prefer plastic bottles over the canned options. Sales have already decreased significantly and there's concern that reduced revenue from the cafeterias and vending will directly affect residents' activities and services. Diane is seeking direction from the committee on how to balance environmental goals with customer preferences and financial impacts.

Member Greg Schwarze inquired about the revenue the care center generates from the vending company. The care center receives $5,500 plus 29% of the sales from the vending company in the first year.

The revenue from the vending company last year was close to $100,000, plus the $5,500. Each year, the revenue structure increases, with both the percentage and the flat fee rising. The largest revenue comes from the cafeterias.

Member Schwarze asked about the disadvantages of using cans for water at the Care Center. Diane explained that plastic costs are a concern, as well as safety issues for residents. Cans are harder to manage because they create a spill hazard for residents using wheelchairs or walkers.

Diane also mentioned limited housekeeping staff to manage these issues.

Diane explained that bottles are better for residents because they are less likely to spill and can be stored in the refrigerator. She also mentioned that nursing staff prefer bottles as they can take them back to the nurse's station. However, due to a recent COVID/Norovirus outbreak there are additional concerns influencing these decisions. She said the twist bottles are always better. Diane mentioned that for some residents, drinking from cans poses a safety risk, as they might cut their mouths or hands.

Member Saba Haider asked about the $100,000 revenue and how much is from the water bottles that are being sold? Diane stated that she would have to get more details from vending company as it's hard to get estimates.

Member Haider stated when we look at the number of cans we have sold in the month of February which was 5, but don't know in comparison to how many water bottles were sold in previous months, we don't have that comparative number to decide if we are going in the right direction.

Member Haider mentioned that a cultural shift takes time, effort and doesn't happen in an instant. She added it's important to see numbers in comparison to cans and how many water bottles are selling every month and what that revenue looks like. Member Haider asked about refillable water dispensers and suggested a campaign to encourage people to use refillable water dispensers and bring their own water bottles, as this could significantly help in achieving the environmental goals.

Member Cahill inquired about potential revenue losses from vending machines and cafeterias due to a shift from bottles to cans, asking if there's an estimate of the decline. Diane explained that the trial of selling only cans is currently happening only in the 421 building, and making this change is a complex process. Member Cahill mentioned that there was an 81% decrease in water sales, and Diane clarified that sales between bottles and cans are roughly 50/50, but cans are cheaper.

Member Cahil emphasized that a reduction in revenue would be detrimental to the Care Center. They suggested alternatives like refillable stations or giving each person a personalized cup, but also noted the sanitary concerns. Member Cahill expressed that she is inclined not to remove all plastic bottles.

Member Evans clarified that she does not want to negatively impact the Care Center. She emphasized that it shouldn't create additional work or difficulties for the staff or residents. Her primary worry was about the products sold in cafeterias and vending machines. Member Evans also voiced concern that if plastic bottles were removed, no one would be willing to bid on the vending contracts if plastic bottles aren't included.

Diane says there are 50 machines in all the county buildings and the scope is big. Chair Rutledge asked Diane to have the numbers the members asked for and the discussion will be continued.

7. PRESENTATIONS

7.A. SCARCE

Kay McKeen from SCARCE presented several successful initiatives in DuPage County. The "Pumpkin Smash" event had the highest participation with three locations in Naperville and growing involvement from scout groups. The vegetable cooking oil collection saw over 200 gallons collected in one morning, and efforts are being made to expand collections in underserved areas. Other achievements included successful holiday light collections, recycling of over half a million pounds of paper and metal, and increased reuse of books for literacy projects.

There were 89 programs offered, including energy conservation and composting, reaching 1,252 participants. Medinah schools had a STEM night and 80 kids participated in energy conservation projects. The fifth Repair Fair saw 90 attendees and 190 items repaired. Collaboration with sustainability specialists in towns like Naperville and Downers Grove is ongoing, and there were educational initiatives, such as a hazardous waste site tour for teachers. Kay highlighted the importance of the Green Your Gig program and how much growth has occurred.

A design challenge will take place on April 15, and the Earth Flag ceremony will be held on Earth Day, April 22. The Sheriff's department is adding a fourth location for syringe and medicine collection, and Downers Grove is reintroducing a Recycling Extravaganza after a decade. Other upcoming events include Lisle Sustainability Saturday on March 15 and 27 scheduled events for the year.

8. STAFF REPORTS

8.A. **25-0621**

Switch Together Solar: Northern Illinois 2025

Joy Hinz mentions that her team is collaborating with Citizens Utility, the Midwest Renewable Energy Association, and the collar counties on a group-buy initiative for solar energy. This program involves soliciting reputable solar firms to offer discounted group pricing, which has saved residents about $0.24 on solar installations. Over the years, the initiative has resulted in 80 solar installations.

8.B. **25-0622**

Waste Hauler Survey

Joy discusses the waste hauler survey, noting that an ordinance was passed requiring waste haulers to report their commercial, industrial, and residential numbers. This data will be used to implement the solid waste management plan in the future, providing a clearer understanding of the commercial sector's waste activities.

9. OLD BUSINESS

No old business was discussed.

10. NEW BUSINESS

No new business was discussed.

11. ADJOURNMENT

With no further business, the meeting was adjourned at 9:03 A.M.

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WHEATON, IL 60187
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File #: 25-0914 **Agenda Date:** 4/1/2025 **Agenda #:** 6.A.

Lightcast

Clean Energy Workforce Analysis

DuPage County Workforce Development Division

DECEMBER 2024

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About

Lightcast is the world's leading authority on job skills, workforce talent, and labor market dynamics, providing expertise that empowers businesses, education providers, and governments to find the skills and talent they need and enabling workers to unlock new career opportunities. Headquartered in Boston, Massachusetts, and Moscow, Idaho, Lightcast is active in more than 30 countries and has offices in the United Kingdom, Italy, New Zealand, and India. The company is backed by global private equity leader KKR.

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Acknowledgements

Lightcast gratefully acknowledges the support of the DuPage County Workforce Development Division, including Lisa Schvach for her leadership and collaboration. This report is prepared for the DuPage County Workforce Development Division by Lightcast. The content is solely the responsibility of the author and does not necessarily represent the official views of the DuPage County Workforce Development Division. Proper acknowledgement of Lightcast should be included in publications, presentations, or other developed materials.

Contents

Introduction

The State of Illinois has set ambitious goals to reduce carbon emissions, highlighted by the passage of the Clean Energy Jobs Act (CEJA) in 2021. This landmark legislation aims to develop a statewide workforce capable of driving the transition to clean energy. As part of the Chicago-Naperville-Elgin, IL-IN Metropolitan Statistical Area (Chicago MSA), DuPage County is working to define its role in this transition by identifying opportunities for growth and development within the Clean Energy sector. A critical first step is gaining a clear understanding of the sector's current state in the County and the region, alongside an assessment of its future workforce needs. This will help pinpoint gaps and challenges that must be addressed to build a robust, future-ready workforce for the sector.

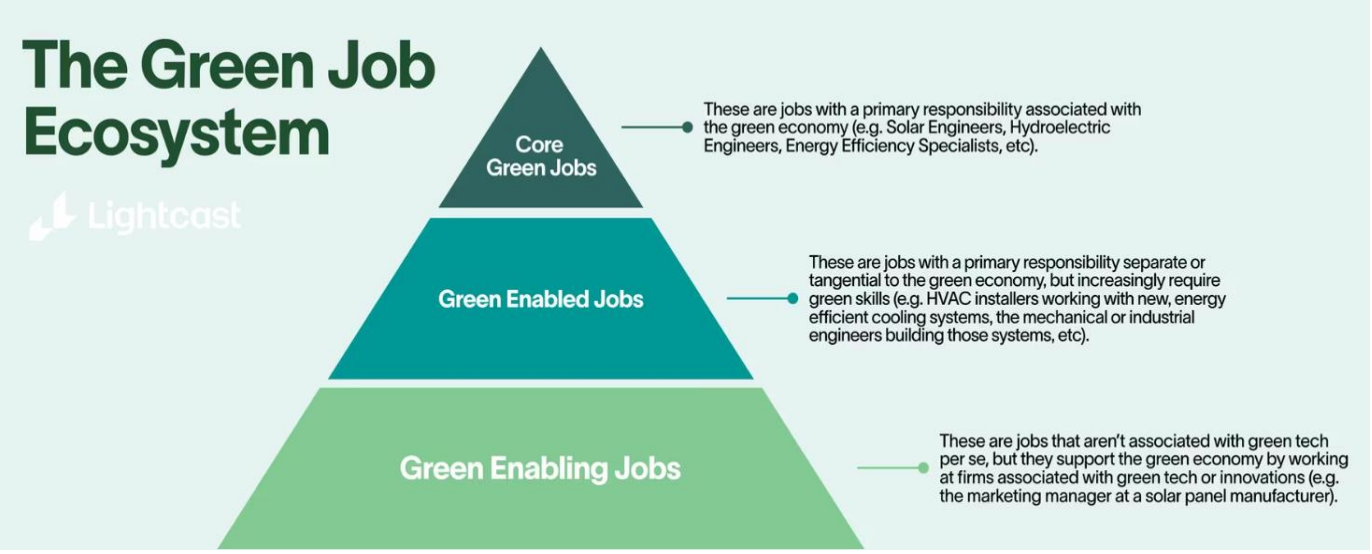
To support this effort, the DuPage County Workforce Development Division has engaged Lightcast to deliver comprehensive data and analysis on the Clean Energy sector and its key occupations. This insight will guide strategic decisions around funding and programming, enabling the County to better support the sector's growth and help residents navigate clean energy career pathways effectively.

Methodology

Defining Clean Energy

Lightcast has developed a comprehensive database of online job postings, which can be queried to reveal trends in the Clean Energy sector related to in-demand skills, credentials, and occupations. Lightcast's spidering technology extracts information from more than 50,000 online job boards, newspapers, and employer sites daily and de-duplicates postings for the same job, whether it is posted multiple times on the same site or across multiple sites. Lightcast extracts employer name, job title, requested degrees and certifications, and skills referenced in job postings, among other information. Lightcast then maps extracted information to standardized taxonomies for industry (NAICS), occupation (SOC), and educational programs (CIP).

Lightcast collaborated with Working Nation to understand the breadth of clean jobs across the country. This work resulted in a series of reports viewing the national land-scape for clean jobs, as well as in individual states (including Illinois): Green Jobs Now. Through this work, Lightcast tagged job postings within the clean jobs space. By tagging clean jobs, communities and researchers can explore the demand for Clean jobs in their own region, or within specific industries. Historic postings have been tagged, enabling a look at how the sectors have changed over the years. Clean jobs have been split into three categories: Core Green jobs; Green Enabled jobs; and Green Enabling jobs. This universe of job postings, with a few adjustments to reduce false positives, forms the basis of the analysis in this project.



Defining Clean Energy Sectors

The Illinois Department of Commerce & Economic Opportunity defines six key Clean Energy sectors of focus for the state (listed below). In order to understand the unique opportunity in DuPage County and the surrounding region, Lightcast developed custom definitions for querying each sector using a set of O*NET occupation codes from the Illinois Clean Energy Jobs Report, as well as recommended additions by the Lightcast team. Sector definitions can be found in the Appendix.

- Automotive (EV focus)
- Building Maintenance
- Electrical
- Green Building and Construction
- Manufacturing Clean Energy Technologies
- Solar & Wind

Clean Energy Employment

Clean Energy Employment

The Clean Energy Sector in DuPage County, Illinois has grown to nearly 8,500 employees and over the past five years, has been growing at a faster rate than that of the Chicago MSA. Lightcast estimates this employment number by first measuring the percentage of each O*NET's job vacancies in the Chicago MSA that are tagged as clean jobs. We then assume that each O*NET's historical percentage of clean jobs coincides with the percent of employment that is green in that O*NET. For example, 5.2% of Project Management Specialist (13-1082.00) job vacancies in the Chicago MSA request green skills historically. As such, we classify 5.2% of employment of Project Management Specialists as green employment.

Figure 1: Clean Energy O*NET Employment in DuPage County (2010-2023)

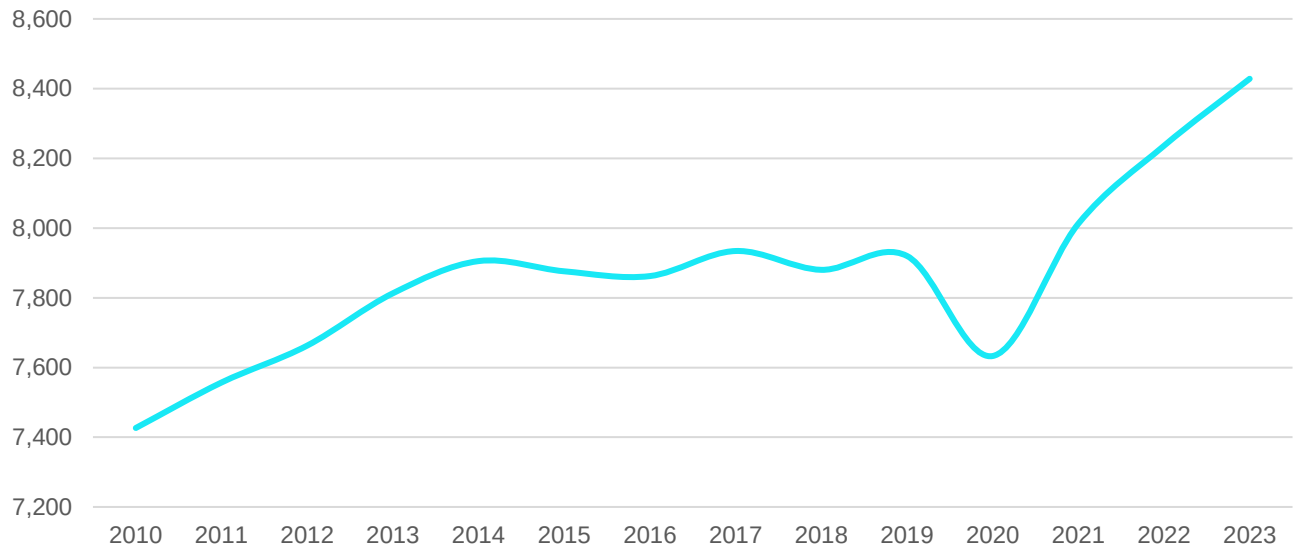
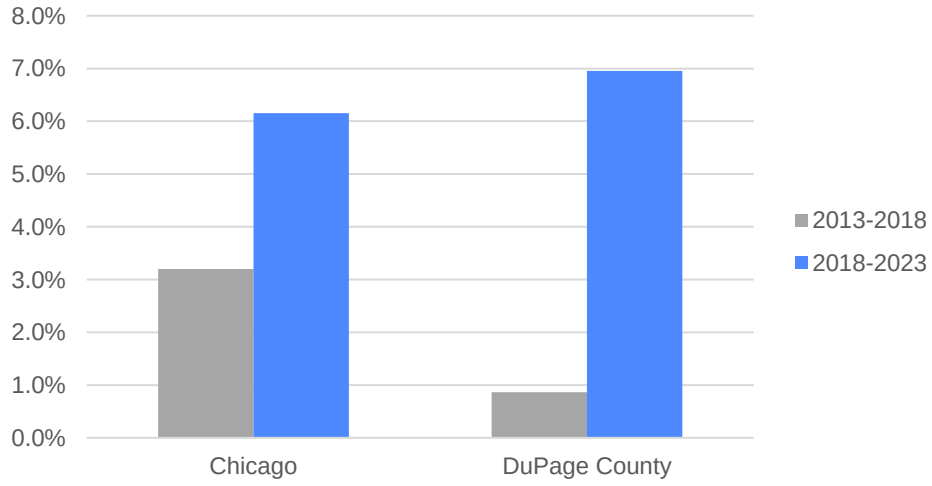


Figure 2: Clean Energy O*NET Employment Growth Rates



Within the Clean Energy economy in DuPage County, most jobs are not concentrated in a single sector but rather span the broader Clean Energy landscape. Among specific sectors, **Green Building and Construction** accounts for the largest share of Clean Energy jobs in the County and has experienced the most significant growth since 2010. Additionally, the **Manufacturing** and **Building Maintenance** sectors have shown consistent growth over the same period. These sector-level trends align closely with those observed across the Chicago MSA.

Figure 3: DuPage County Clean Energy Employment by Sector

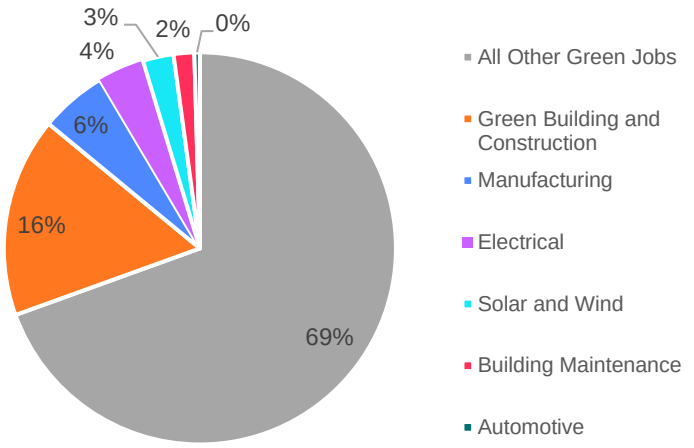
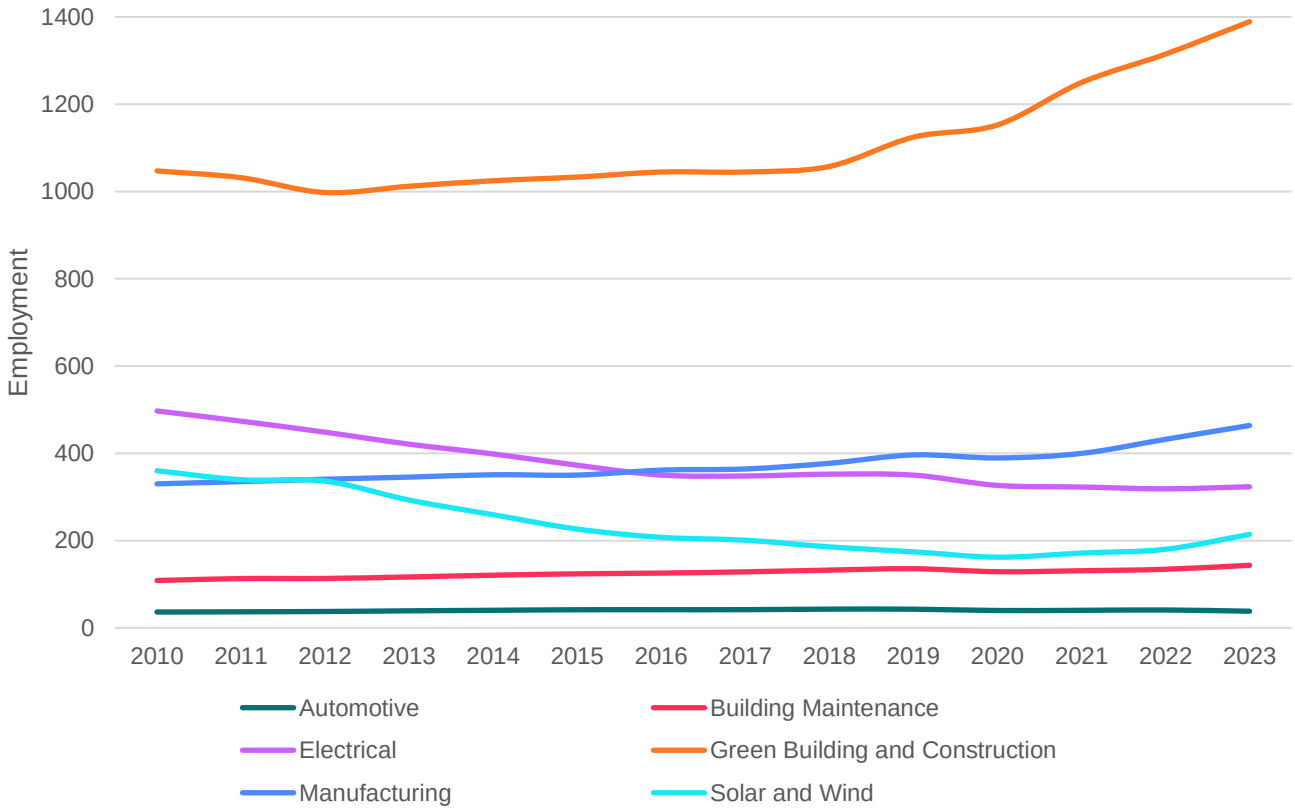


Figure 4: Clean Energy Sector Employment - DuPage County (2010-2023)



Clean Energy Demand

Clean Energy Demand

This section of the report highlights employer demand for Clean Energy Jobs as identified through job postings in DuPage County and the Chicago MSA. Clean Energy demand has grown in both regions over the past 15 years, peaking in 2022 and slowing slightly over the past two years.

Figure 5: Total Clean Energy Postings Over Time by Region

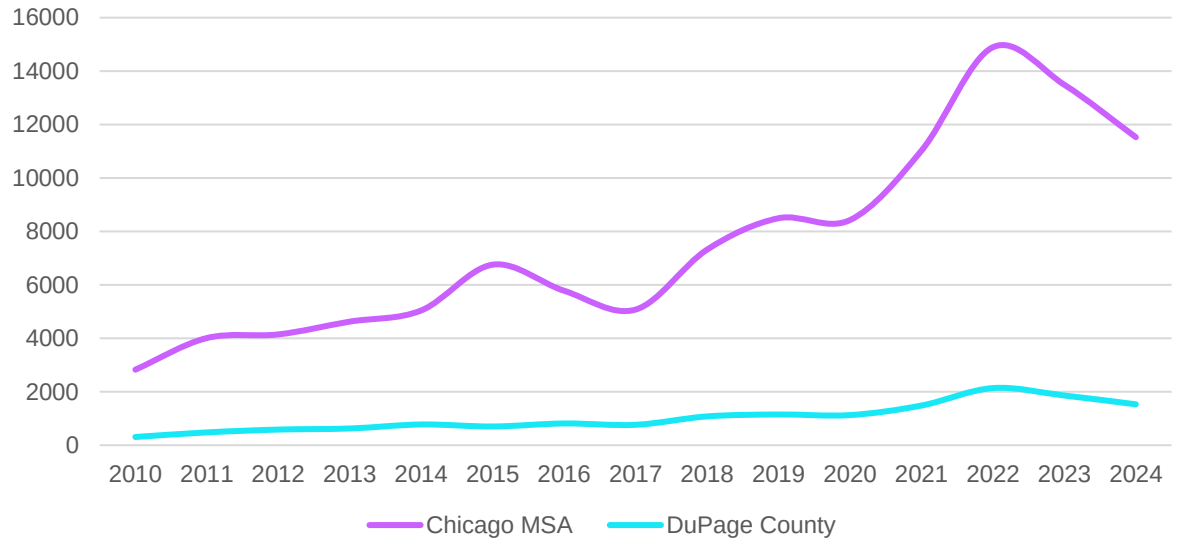
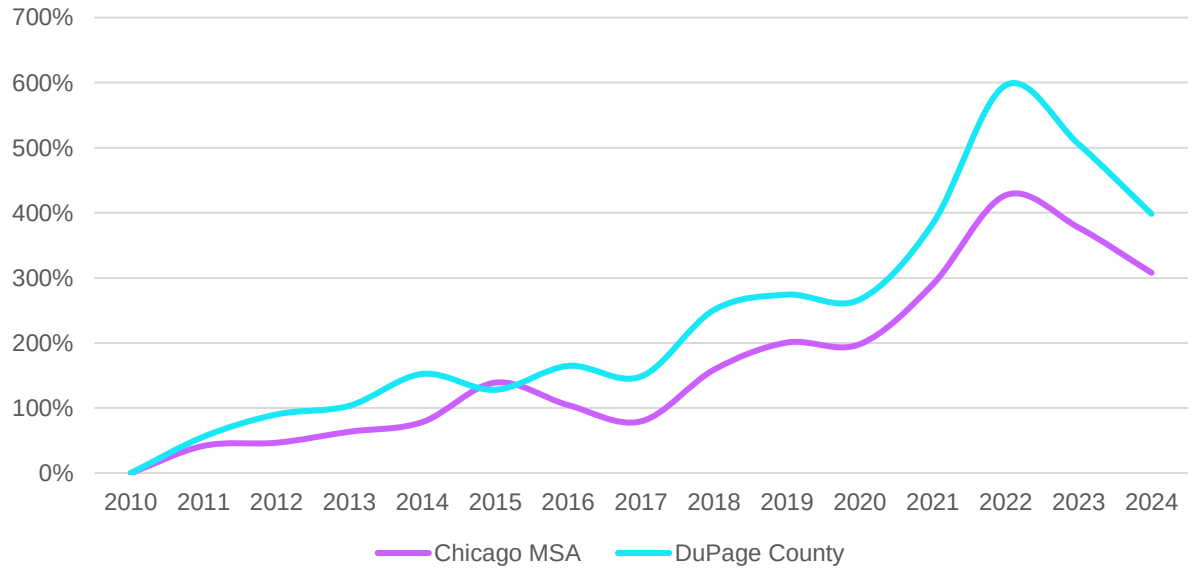


Figure 6: Growth in Clean Energy Postings Over Time by Region



As described in the methodology section, Lightcast categorizes clean jobs into one of three types: Core, Enabled, and Enabling. Core Clean Jobs are those primarily associated with the green economy and the creation and management of green technologies and policies; Enabled clean jobs are those tangential to the green economy that require skills associated with the green economy; and Enabling clean jobs are any jobs at companies operating in a clean energy industry. Figures 7 and 8 display trends in the distribution of job postings by these three green job categories in the Chicago MSA and DuPage County, respectively. In each region, an increasing percentage of clean jobs are Enabled clean jobs, suggesting that a higher percentage of the labor market tangential to the clean economy is required to have some green skills. While Core clean job vacancies have broadly trended upwards in total volume in each region since 2010, growth in these sectors has not matched growth in Enabled clean jobs.

Figure 7: Percent of Chicago Vacancies by Clean Job Category

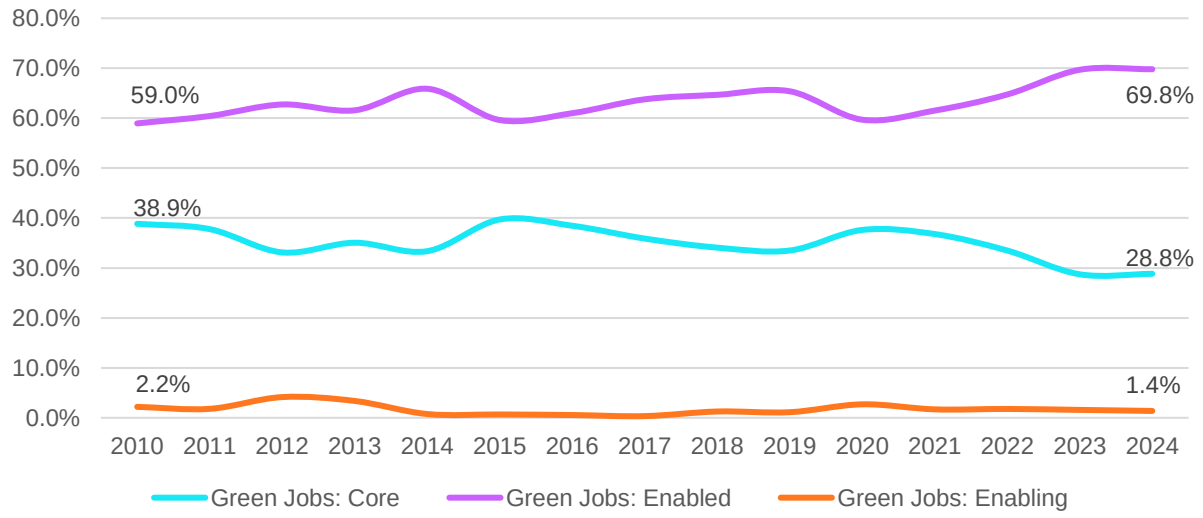
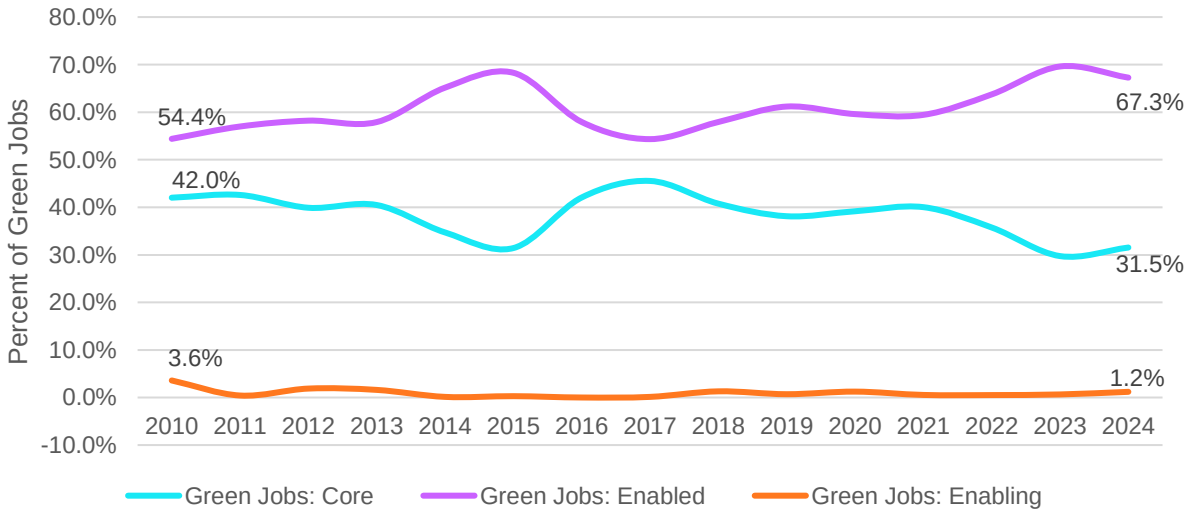


Figure 8: Percent of DuPage County Vacancies by Clean Job Category



Across all Clean Jobs postings, the tables below show the top posting employers in DuPage County and the Chicago MSA. Many of these firms are large engineering consulting firms with a focus on sustainability and clean energy consulting and/or building construction.

Table 1: Top Posting Clean Jobs Employers by Region

Top Posting Employers, Chicago MSA	Top Posting Employers, DuPage County
Sunrun	Exelon
Invenergy	Regal Rexnord Corp
AECOM	Navistar International
Argonne National Laboratory	Sunrun
University of Chicago	Burns & McDonnell
Jacobs Solutions	Forest Preserve District Of DuPage County
Exelon	Terracon Consultants
Clean Harbors	CDM Smith
Burns & McDonnell	V3 Companies
CBRE	Civil & Environmental Consultants, Inc.

Among the top occupations in demand in the region, the Clean Jobs occupation mix differs slightly between the Chicago MSA and DuPage County. DuPage County has a higher percentage of demand for Project Management Specialists, Environmental Science and Protection Technicians, and Civil Engineers.

Table 2: Top Clean Occupations Posted (O*NET) in Chicago MSA

Occupation (O*NET)	Sector	Number of Postings	Percent of Chicago Clean Jobs Postings
Recycling and Reclamation Workers	All Other	2261	4.4%
Project Management Specialists	All Other	2178	4.3%
Environmental Science and Protection Technicians, Including Health	All Other	1709	3.4%
Occupational Health and Safety Specialists	All Other	1470	2.9%
Environmental Restoration Planners	Green Building and Construction	1427	2.8%
Environmental Scientists and Specialists, Including Health	All Other	1207	2.4%
Civil Engineers	Green Building and Construction	1176	2.3%
Occupational Health and Safety Technicians	All Other	1156	2.3%
Environmental Engineers	Green Building and Construction	1064	2.1%
Food Scientists and Technologists	All Other	993	1.9%

Table 3: Top Clean Occupations Posted (O*NET) in DuPage County

Occupation (O*NET)	Sector	Number of Postings	Percent of Chicago Clean Jobs Postings
Project Management Specialists	All Other	404	5.8%
Environmental Science and Protection Technicians, Including Health	All Other	320	4.6%
Recycling and Reclamation Workers	All Other	293	4.2%
Civil Engineers	Green Building and Construction	254	3.6%

Occupation (O*NET)	Sector	Number of Postings	Percent of Chicago Clean Jobs Postings
Occupational Health and Safety Specialists	All Other	220	3.1%
Food Scientists and Technologists	All Other	194	2.8%
Environmental Scientists and Specialists, Including Health	All Other	181	2.6%
Environmental Engineers	Green Building and Construction	176	2.5%
Occupational Health and Safety Technicians	All Other	163	2.3%
Solar Sales Representatives and Assessors	Solar and Wind	162	2.3%

The tables below shows the top requested specialized skills across the Clean Jobs sector in Chicago, as well as the emerging sector skills. Lightcast also identified certifications requested across Clean Jobs and only two show up in at least five percent of job postings – Valid Driver's License and LEED Accredited Professional (AP).

Emerging skills are those skills that appear in at least four percent of Clean Jobs postings and where skill recall rate from 2021-2024 is higher than that of 2016-2019. These skills are also forecast to grow at a strong pace at a national level through at least 2026. Chemistry, Data Analysis, Procurement, Finance, Stormwater Management, Data Collection and Regulatory Compliance are all emerging skills that, while small, will be important to the future of the sector.

Table 4: Top Requested Specialized Skills in Chicago MSA 2021-2024

Specialized Skills	Skill Recall Rate
Project Management	26%
Environmental Science	14%
Construction	11%
Auditing	11%
Biology	10%
Marketing	9%
Environment Health And Safety	8%
Business Development	8%
Continuous Improvement Process	7%
Environmental Engineering	7%

Table 5: Top Emerging Clean Jobs Skills in Chicago MSA by recall rate, 2021-2024

Certifications	Skill Recall Rate	Skill Growth Rate	National Skill Projection
Environmental Science	14%	24.6%	Rapidly Growing
Biology	10%	8.9%	Rapidly Growing
Continuous Improvement Process	7%	18.9%	Rapidly Growing
Chemistry	7%	7.5%	Rapidly Growing
Data Analysis	6%	25.9%	Rapidly Growing
Procurement	6%	18.2%	Growing
Finance	5%	51.7%	Rapidly Growing
Stormwater Management	5%	17.2%	Rapidly Growing
Data Collection	5%	44.3%	Rapidly Growing
Regulatory Compliance	4%	9.9%	Growing

Subsector Analysis

Job postings data by sector shows that the Green Building and Construction sector is the largest in both the Chicago MSA and DuPage County and Automotive is the smallest sector. All other Clean Job sectors are very similar in size by demand.

Figure 9: DuPage County Postings by Sector

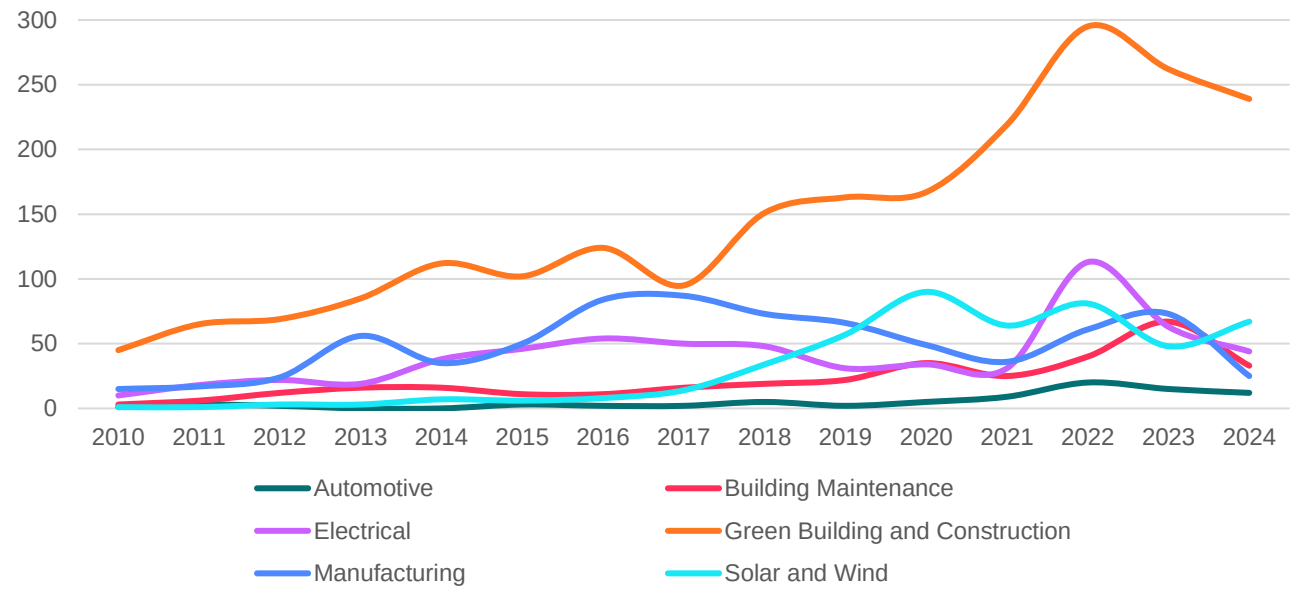
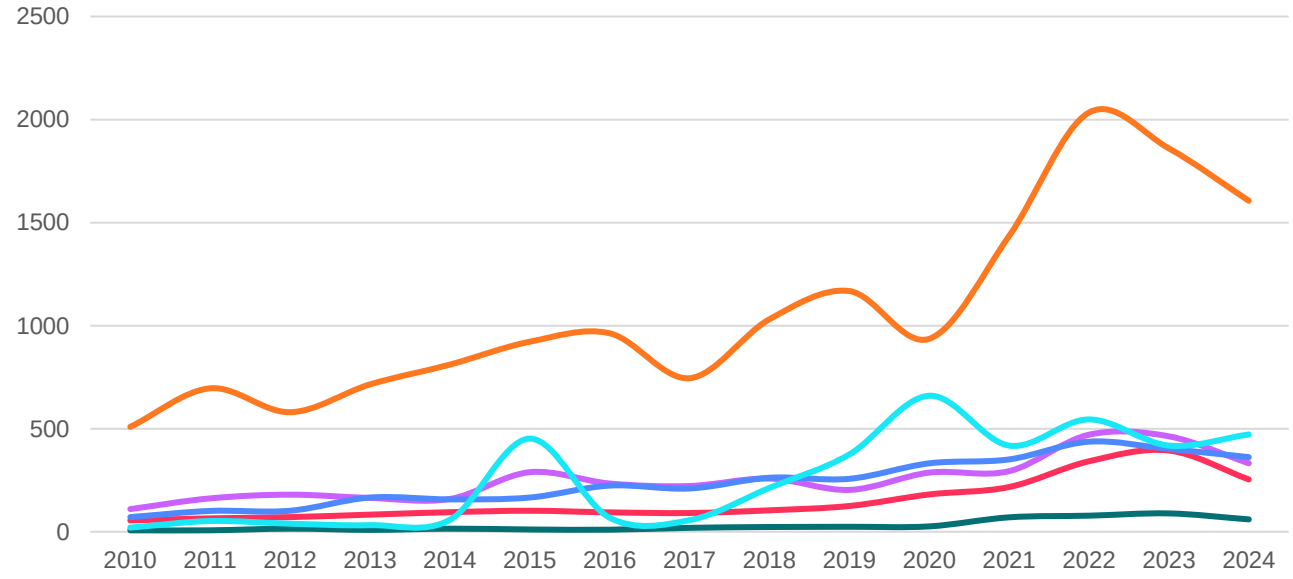


Figure 10: Chicago MSA Postings by Sector



The following section highlights key data points for each sector based on job postings within the Chicago MSA, as well as demographics within DuPage County.

Key Sector Findings

- Demand is growing across all Clean Sectors in the Chicago MSA.
- HVAC and Project Management skills cross a number of sectors as the top requested skills by employers.
- Building Maintenance, Manufacturing and Solar & Wind are at the highest risk of impending retirements. The percentage of workers at age 55 and older for these sectors are higher than the DuPage workforce average.
- Women are underrepresented in every sector, indicating an opportunity to further engage this population in the Clean Energy workforce.
- Hispanic and Latino populations are overrepresented in lower-wage occupations across clean energy jobs, but especially in the Construction and Manufacturing sectors.
- There is an opportunity to further engage diverse populations in target occupations in the Clean sector, especially those that are or lead to high-wage jobs.

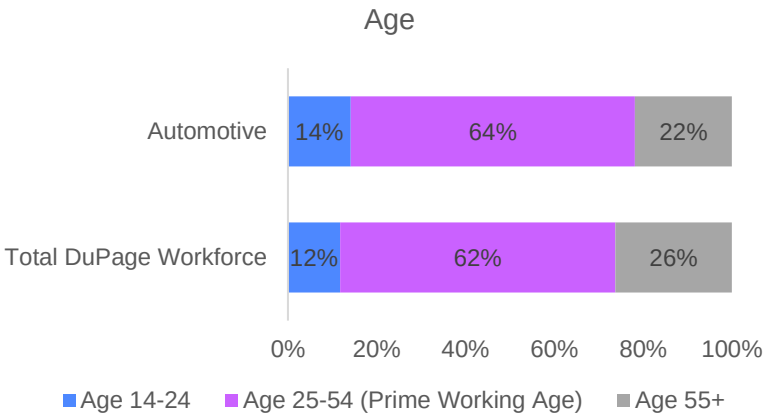
Considering employment trends, demand, and growth potential, Lightcast recommends that DuPage County prioritize the **Green Building and Construction**, **Building Maintenance**, and **Solar and Wind** sectors within the broader Clean Jobs sector. Additionally, DuPage County demonstrates a notable specialization in engineering services related to the Clean Energy sector, providing a strong foundation for further development and investment.

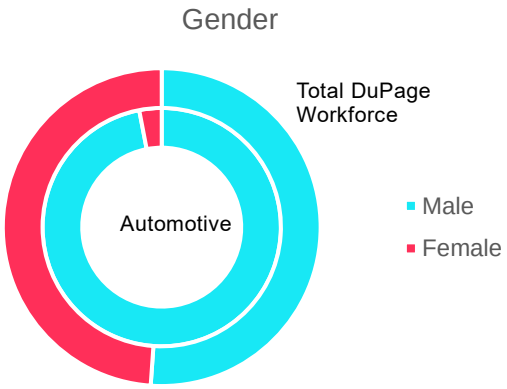
Automotive

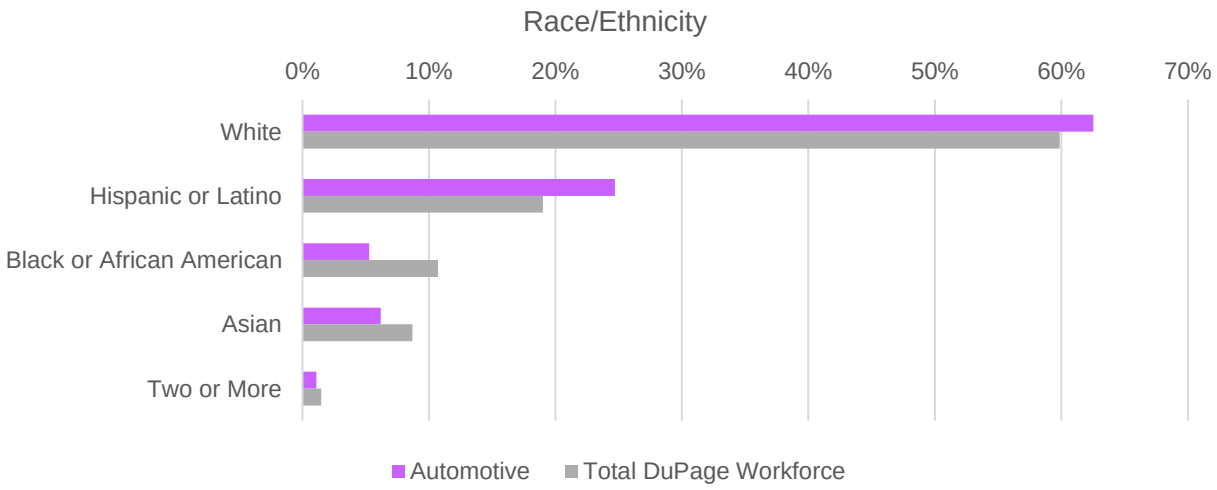
597	-2.7%	0.69	297	287%
Green Employment in Chicago MSA 2023	Employment Growth 2020-2023	Chicago MSA Sector Location Quotient	Total Postings in Chicago MSA 2021-2023	Demand Growth 2018-2023

Top Posting Employers, Chicago MSA
Tesla
Radius Recycling
UL Solutions
Gordon Food Service

Top Requested Specialized Skills and Certifications
Electric Vehicles
Valid Driver's License
Automotive Service Excellence (ASE) Certification
HVAC
Continuous Improvement Process





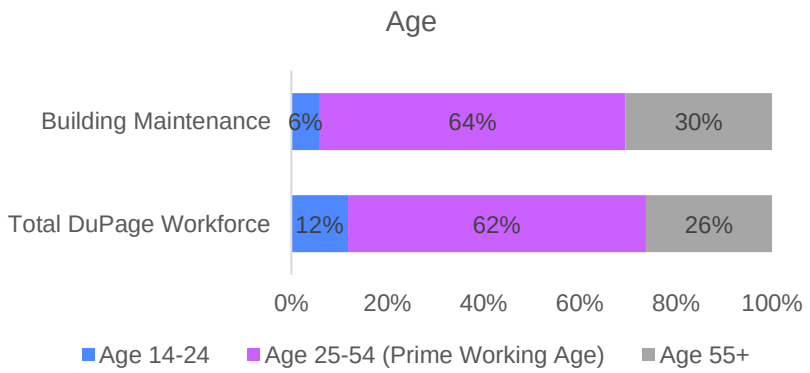


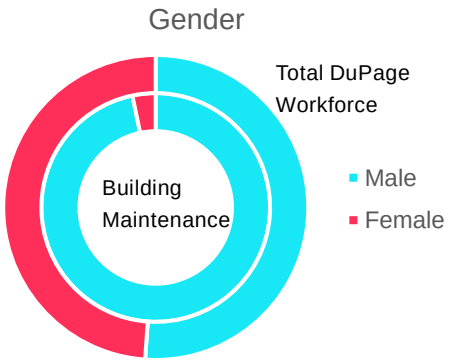
Building Maintenance

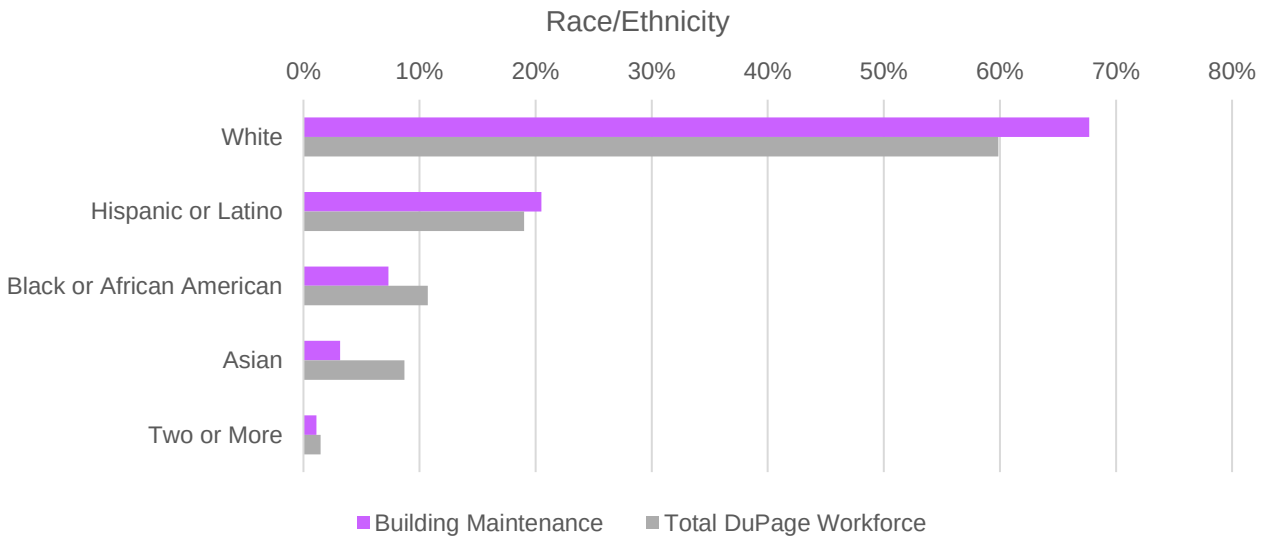
1,438	4.3%	0.76	1,207	279%
Green Employment in Chicago MSA 2023	Employment Growth 2020-2023	Chicago MSA Sector Location Quotient	Total Postings in Chicago MSA 2021-2023	Demand Growth 2018-2023

Top Posting Employers, Chicago MSA
Stantec / Cardno
Resource Environmental Solutions
Chicago Botanic Garden
Eaton Corporation
Invenergy

Top Requested Specialized Skills and Certifications
Valid Driver's License
Ecological Restoration
HVAC
Hand Tools
Plumbing





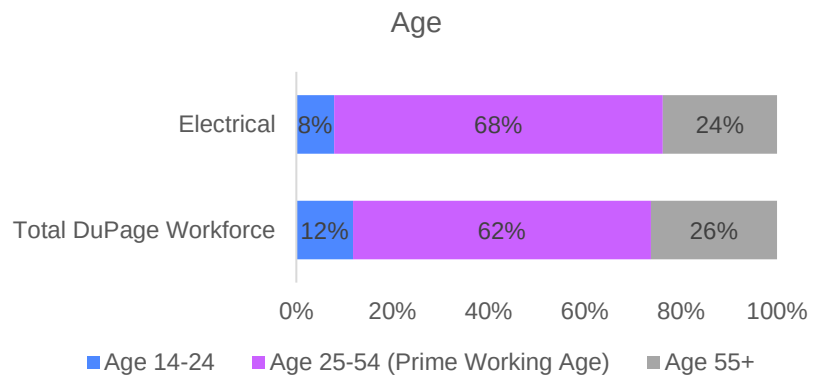


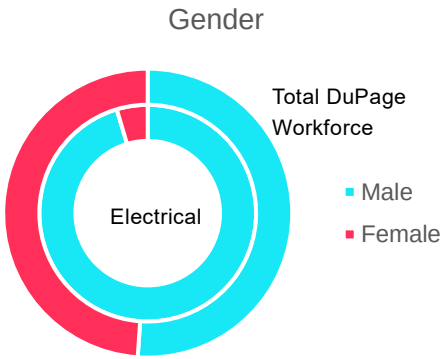
Electrical

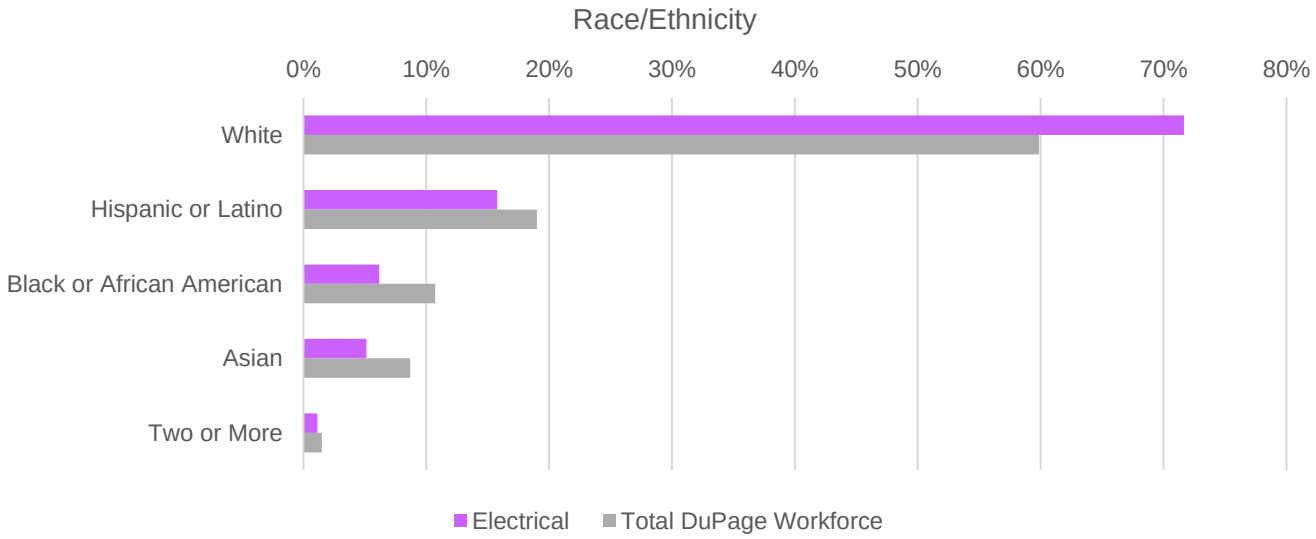
1,915	-2.8%	0.80	1,560	79%
Green Employment in Chicago MSA 2023	Employment Growth 2020-2023	Chicago MSA Sector Location Quotient	Total Postings in Chicago MSA 2021-2023	Demand Growth 2018-2023

Top Posting Employers, Chicago MSA
Sargent & Lundy
Invenergy
Siemens
Leidos
UL Solutions

Top Requested Specialized Skills and Certifications
Electrical Engineering
Electrical Systems
Project Management
AutoCAD
Engineering Design Process





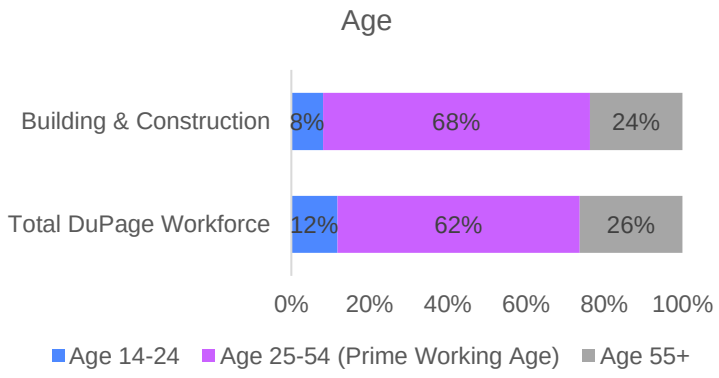


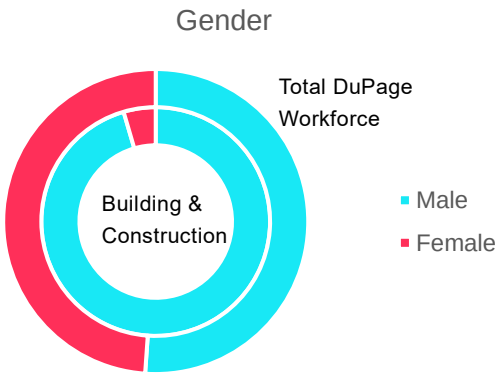
Green Building and Construction

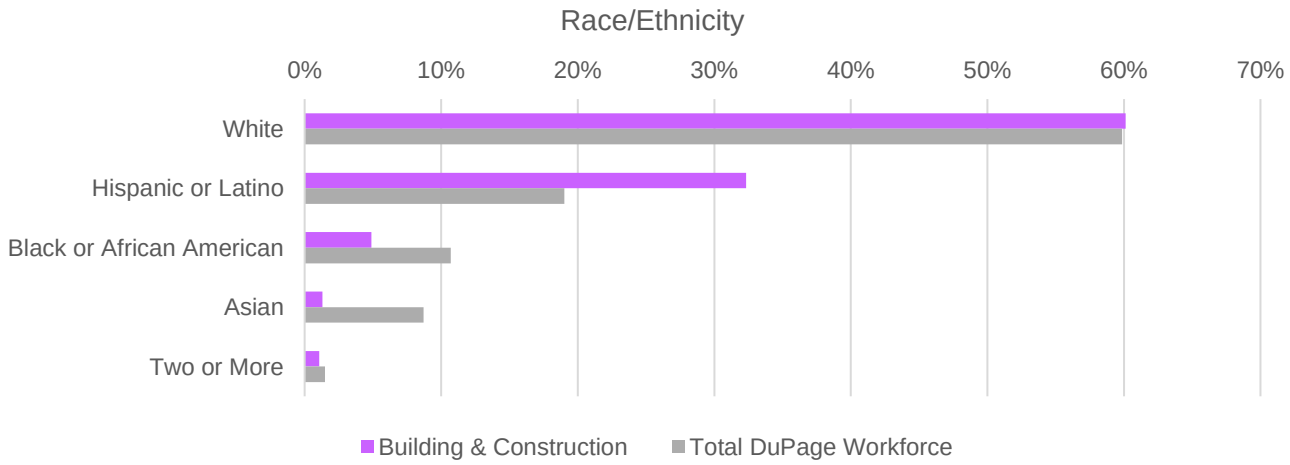
9,743	20.9%	0.77	6,935	80%
Green Employment in Chicago MSA 2023	Employment Growth 2020-2023	Chicago MSA Sector Location Quotient	Total Postings in Chicago MSA 2021-2023	Demand Growth 2018-2023

Top Posting Employers, Chicago MSA
Invenergy
AECOM
CBRE
Burns & McDonnell
Jacobs Solutions

Top Requested Specialized Skills and Certifications
Project Management
Valid Driver's License
Construction
Accounting
Renewable Energy





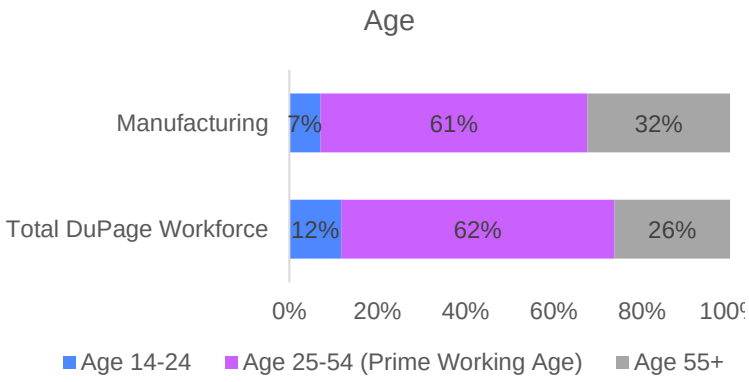


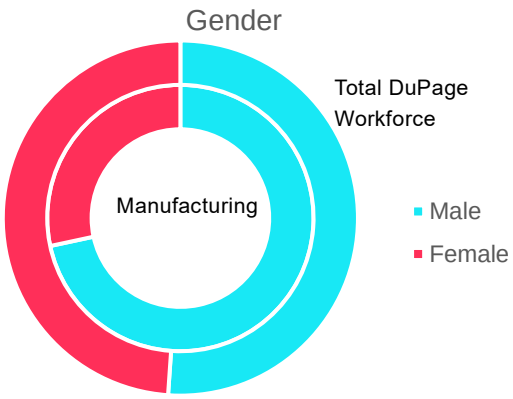
Manufacturing

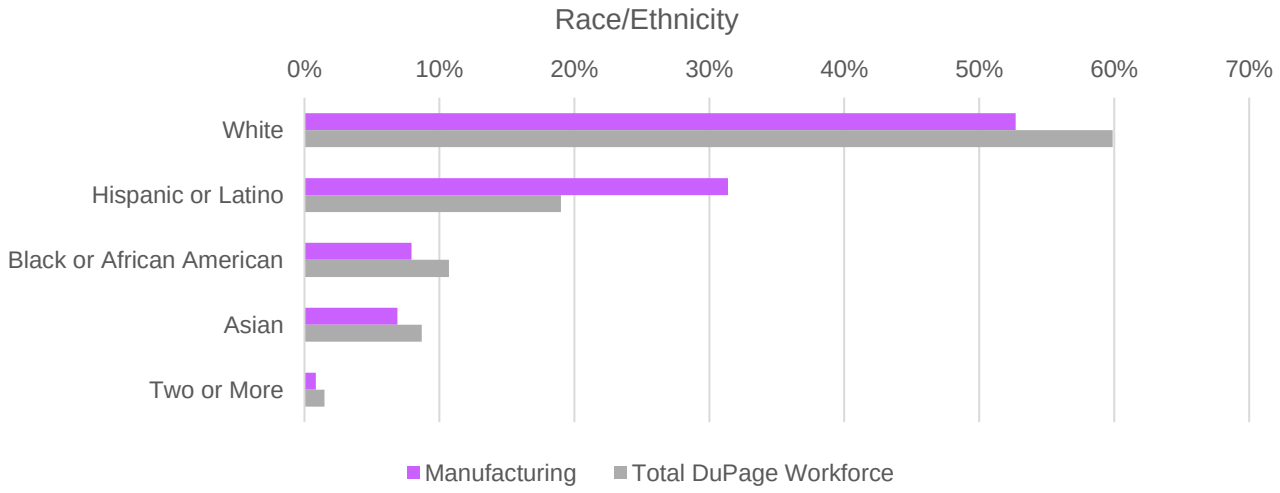
3,249	2.9%	0.75	1,552	53%
Green Employment in Chicago MSA 2023	Employment Growth 2020-2023	Chicago MSA Sector Location Quotient	Total Postings in Chicago MSA 2021-2023	Demand Growth 2018-2023

Top Posting Employers, Chicago MSA
Regal Rexnord Corp
Exelon
Dover Corporation
S&C Electric Company
Abbott Laboratories

Top Requested Specialized Skills and Certifications
Environmental Monitoring
Auditing
Good Manufacturing Practices
Machinery
Project Management





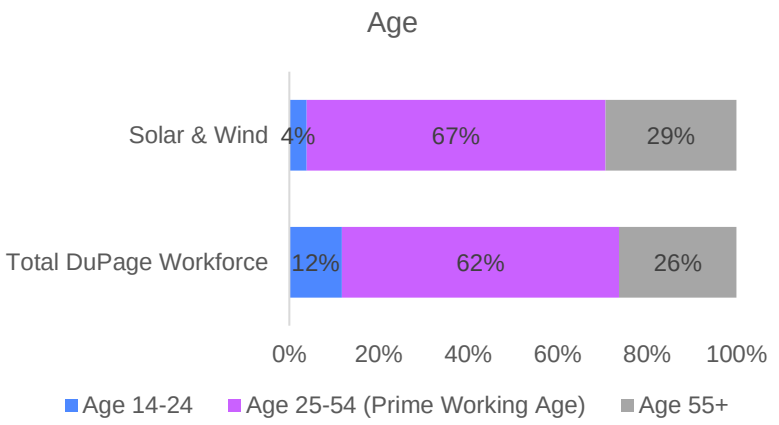


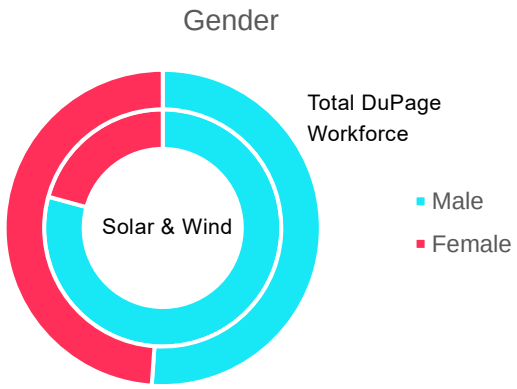
Solar & Wind

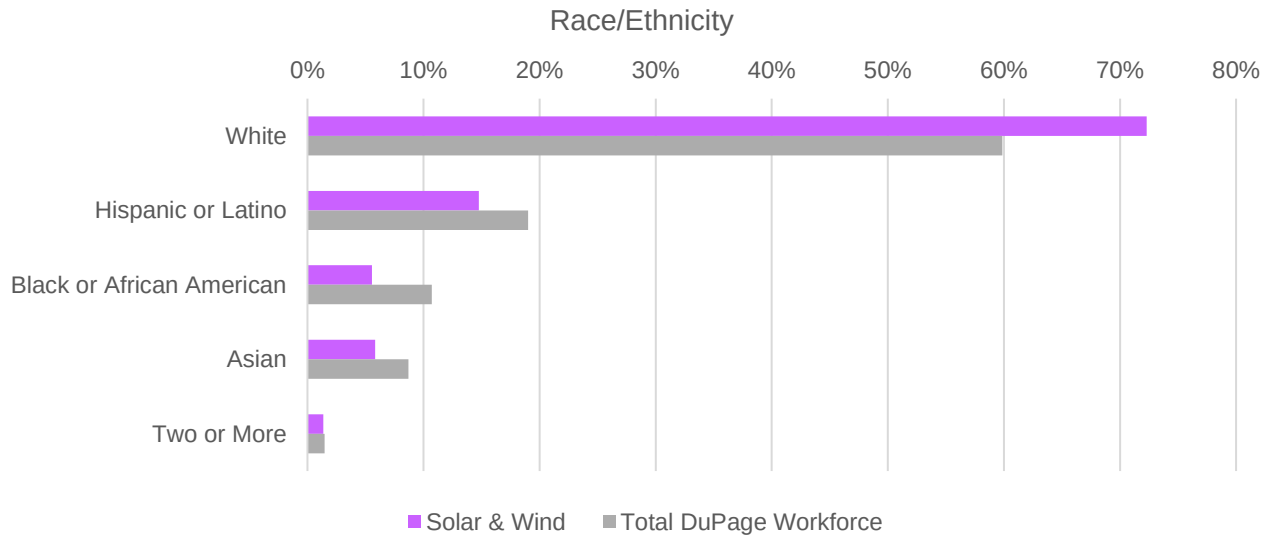
1,170	18.9%	0.54	1,853	96%
Green Employment in Chicago MSA 2023	Employment Growth 2020-2023	Chicago MSA Sector Location Quotient	Total Postings in Chicago MSA 2021-2023	Demand Growth 2018-2023

Top Posting Employers, Chicago MSA
Sunrun
Invenergy
Blue Raven Solar
Vivint
SunPower Corp.

Top Requested Specialized Skills and Certifications
Solar Sales
Valid Driver's License
Construction
Solar Energy Systems Installation
Project Management







Target Occupations

Target Occupations

The following section examines the specific occupations that make up the Clean Jobs sector in the region based on the O*NET codes defined in the Methodology. Data shown in this section will allow DuPage County to better understand employer demand within the sector and which occupations may provide the most opportunity for DuPage County residents.

Table 4 below shows the top 20 in-demand occupations in the Chicago MSA and in DuPage County, de-duplicated and ranked by total Chicago Postings 2021-2023. Nearly all these occupations have experienced growth since 2018, with the exception of Food Scientists and Technologists. Notably, Sustainability Specialists and Maintenance and Repair Workers have shown the highest growth in demand over the past five years. About half of these occupations are associated directly with one of the identified sectors of focus and the others fall in the broader Clean Jobs sector. Location quotient (LQ) indicates where a region has occupational specialization. An LQ above 1.0 (in bold below) signifies a higher concentration than the US average. Most of these occupations also have wages above the regional living wage, based on MIT's living wage calculator. It should be noted that while a majority of these occupations tend to require a Bachelor's degree, there are opportunities that are accessible for workers without a degree.

Table 6: Top Clean Job Occupations

Occupation (O*NET)	DuPage Postings 2021-2023	Chicago Postings 2021-2023	Chicago Demand Growth 2018-2023	DuPage LQ	Chicago LQ	Median Advertised Salary
Recycling and Reclamation Workers	293	2,261	104%	0.84	0.89	$33,800
Project Management Specialists	404	2,178	99%	**1.09**	0.86	**$112,500**
Environmental Science and Protection Technicians, Including Health	320	1,709	93%	**1.15**	0.85	$41,600
Occupational Health and Safety Specialists	220	1,470	63%	**1.18**	**1.14**	**$100,000**
Environmental Restoration Planners	159	1,427	54%	0.73	0.82	**$57,500**
Environmental Scientists and Specialists, Including Health	181	1,207	76%	0.69	0.59	**$69,938**
Civil Engineers	254	1,176	114%	0.91	0.63	**$88,148**
Occupational Health and Safety Technicians	163	1,156	108%	0.96	0.92	**$75,000**
Environmental Engineers	176	1,064	43%	0.81	0.82	**$78,282**
Food Scientists and Technologists	194	993	-25%	**2.15**	**1.55**	**$70,500**
Solar Sales Representatives and Assessors	162	881	141%	0.65	0.51	**$105,500**
Sustainability Specialists	67	783	478%	0.87	**1.32**	**$83,501**
Architectural and Engineering Managers	134	781	100%	**1.00**	0.84	**$107,500**
Mechanical Engineers	127	757	165%	0.78	0.82	**$98,800**
Energy Auditors	100	744	62%	**1.20**	**1.02**	**$80,000**
Maintenance and Repair Workers, General	104	729	426%	0.91	0.82	$45,094
Water/Wastewater Engineers	99	680	101%	0.71	0.63	**$89,250**
Energy Engineers, Except Wind and Solar	99	645	68%	**2.00**	**1.25**	**$93,150**
Sales Managers	69	640	126%	0.97	**1.13**	**$112,500**
Solar Photovoltaic Installers	73	621	83%	0.51	0.52	$47,840
Electrical Engineers	114	620	134%	0.77	0.79	**$105,000**
Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	123	577	110%	**1.43**	**1.01**	**$90,000**
Software Developers	108	399	39%	0.98	0.71	**$107,500**

Target Jobs in the Clean Energy Sector for DuPage County

Leveraging the data above, Lightcast worked with the DuPage team to prioritize target occupations within the Clean Energy sector that show the most promising opportunity for DuPage Couty residents and workers. These selected occupations meet *at least two* of the following criteria, indicating a strong opportunity for regional workers:

- Positive past job growth in DuPage County and/or Chicago MSA
- High demand in DuPage County and/or Chicago MSA
- High concentration of workers in DuPage County
- Median advertised salary above $55,000
- Alignment with one of the Clean Jobs Sectors

For each target occupation, Lightcast has created an Occupational Profile which highlights the following data, which will help inform workforce strategies for DuPage County Workforce Development Division:

- Lightcast Recommended Strategy – An overview of the most impactful strategies to address talent needs/gaps for each occupation.
- O*NET Occupation Definition
- Typical Entry-Level Education from O*NET
- Chicago MSA Postings (2021-2023)
- Chicago MSA Demand Growth (2018-2023)
- Chicago Location Quotient (LQ) – Location Quotient indicates occupational concentration in a given region compared to the national average
- Median Advertised Salary – From job postings data
- Regional Educational Program Completions (2022) from relevant programs from IPEDS
- Minimum Requested Education and Experience Levels from job postings
- Top Requested Skills by Regional Employers and the associated national growth projections for each skill
- Relevant Regional Education Programs (CIP) to show which programs are most closely tied to the target occupation
- Top Feeder Occupations – These represent pools of workers in the region that can be upskilled or reskilled to meet employer demand for the target occupation.
- Top Next Step Occupations – These represent common next step occupations in career pathways.

Project Management Specialists (O*NET 13-1082.00)

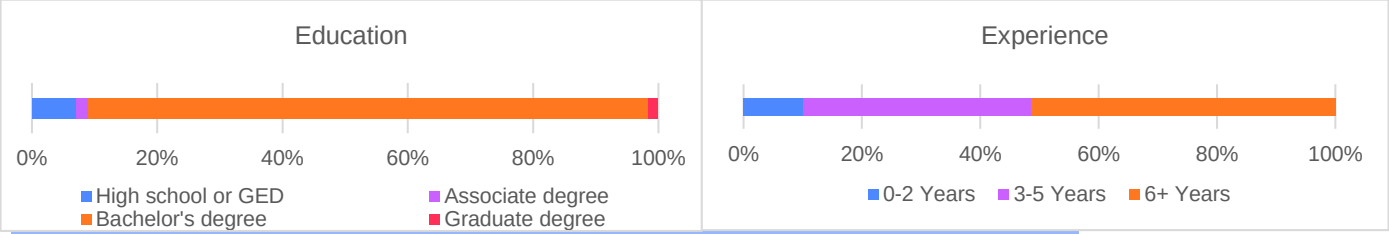
Lightcast Recommended Strategy: While presenting as a key clean energy occupation, many Project Management Specialist vacancies are outside of the clean energy sector. Meanwhile, younger generations cite the highest concerns for climate change. Target lateral transitions of millennial and gen-Z Project Management Specialists from outside the clean energy sector into the clean energy sector.

O*NET Definition: Analyze and coordinate the schedule, timeline, procurement, staffing, and budget of a product or service on a per project basis. Lead and guide the work of technical staff. May serve as a point of contact for the client or customer.

Typical O*NET Education/Experience Level Required: Typically, a four-year bachelor's degree is required, along with several years of work-related experience, on-the-job training, and/or vocational training.

2,178	99%	0.86	$112,500	2,300
Chicago MSA Postings (2021-2023)	Chicago Demand Growth (2018-2023)	Chicago LQ	Median Advertised Salary	Regional Completions from Programs 2022

Education/Experience Level Requested by Employers



Skills	Skill Recall Rate	National Skill Projection
Project Management	94.7%	7.1%
Construction	27.2%	10.5%
Project Schedules	22.9%	17.0%
Business Development	21.3%	5.5%
Environmental Science	20.7%	19.6%
Procurement	20.6%	13.8%
Construction Management	20.0%	6.9%
Subcontracting	17.4%	9.4%
Marketing	14.9%	23.0%
Project Documentation	14.8%	15.4%

Relevant Regional Educational Programs (CIP)	
14.01	Engineering, General
03.01	Natural Resources Conservation and Research
52.2	Construction Management
52.02	Business Administration, Management and Operations
40.06	Geological and Earth Sciences/Geosciences

Feeder Occupations

- Information Technology Project Managers
- First-Line Supervisors of Office and Administrative Support Workers
- Management Analysts

Next Step Occupations

- Construction Managers
- Architectural and Engineering Managers
- Sales Managers

Sustainability Specialists (O*NET 13-1199.05)

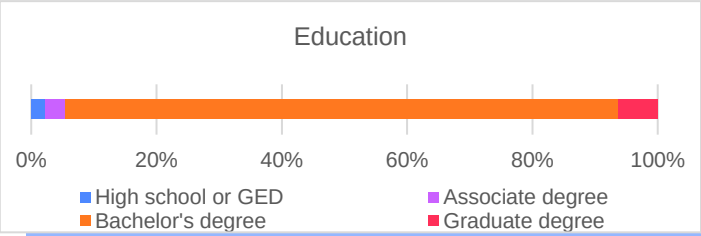
Lightcast Recommended Strategy: This role almost exclusively hires from postsecondary programs. Collaborate with local universities to ensure that curriculum aligns with top skills.

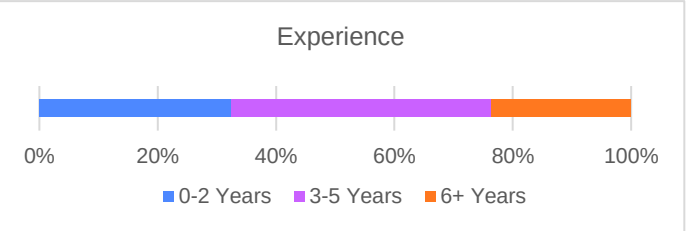
O*NET Definition: Address organizational sustainability issues, such as waste stream management, green building practices, and green procurement plans.

Typical O*NET Education/Experience Level Required: Typically, a four-year bachelor's degree is required, along with several years of work-related experience, on-the-job training, and/or vocational training.

783	478%	1.32	$83,501	1,660
Chicago MSA Postings (2021-2023)	Chicago Demand Growth (2018-2023)	Chicago LQ	Median Advertised Salary	Regional Completions from Programs 2022

Education/Experience Level Requested by Employers





Skills	Skill Recall Rate	National Skill Projection
Project Management	35.4%	7.1%
Environmental Science	29.3%	19.6%
Environmental Social And Corporate Governance (ESG)	28.0%	19.7%
Greenhouse Gas	19.1%	20.6%
Sustainability Strategies	19.0%	7.9%
Sustainability Reporting	18.4%	11.2%
Data Analysis	17.0%	21.6%
Supply Chain	16.6%	22.3%
Sustainability Initiatives	16.0%	11.9%
Business Development	15.3%	5.5%

Relevant Regional Educational Programs (CIP)	
14.01	Engineering, General
30.33	Sustainability Studies
03.01	Natural Resources Conservation and Research
52.02	Business Administration, Management and Operations
45.06	Economics

Feeder Occupations

- Project Management Specialists
- First-Line Supervisors of Office and Administrative Support Workers
- Social and Human Service Assistants

Next Step Occupations

- Chief Sustainability Officers
- Management Analysts
- Architectural and Engineering Managers

Civil Engineers (O*NET 17-2051.00)

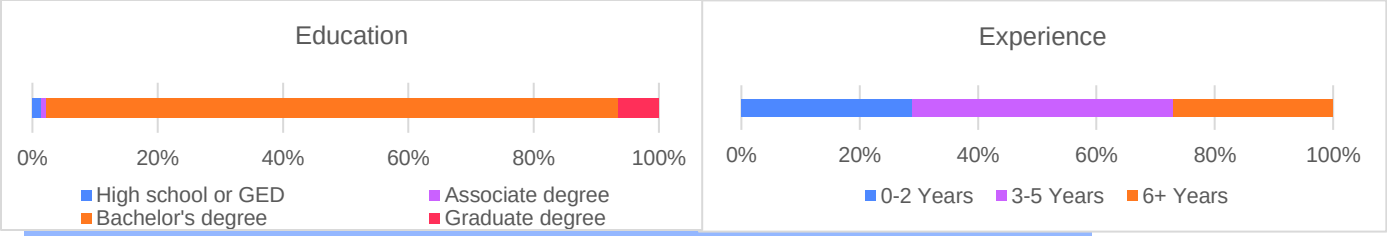
Lightcast Recommended Strategy: Collaborate with state and local governments to ensure that recruitment of this occupation aligns with planned infrastructure building and spending, especially in the wake of recent large fiscal policy expenditure for infrastructural improvements.

O*NET Definition: Perform engineering duties in planning, designing, and overseeing construction and maintenance of building structures and facilities, such as roads, railroads, airports, bridges, harbors, channels, dams, irrigation projects, pipelines, power plants, and water and sewage systems.

Typical O*NET Education/Experience Level Required: Four-year bachelor's degree combined with several years of work-related experience, on-the-job training, and/or vocational training.

1,176	114%	0.63	$88,148	422
Chicago MSA Postings (2021-2023)	Chicago Demand Growth (2018-2023)	Chicago LQ	Median Advertised Salary	Regional Completions from Edu Programs 2022

Education/Experience Level Requested by Employers



Skills	Skill Recall Rate	National Skill Projection
Civil Engineering	47.8%	26.2%
Project Management	41.3%	7.1%
Construction	31.4%	10.5%
AutoCAD	31.2%	16.9%
Environmental Engineering	30.0%	27.0%
Stormwater Management	28.9%	26.1%
Project Engineering	28.1%	11.7%
AutoCAD Civil 3D	20.2%	7.5%
Grading (Landscape)	17.5%	12.1%
Engineering Design Process	17.3%	17.6%

Relevant Regional Educational Programs (CIP)	
14.01	Engineering, General
14.08	Civil Engineering
15.05	Environmental Control Technologies/Technicians
14.14	Environmental/Environmental Health Engineering
14.19	Mechanical Engineering

Feeder Occupations

- Architectural and Civil Drafters
- First-Line Supervisors of Construction Trades and Extraction Workers
- Civil Engineering Technologists and Technicians

Next Step Occupations

- Architectural and Engineering Managers
- Construction Managers
- Project Management Specialists

Environmental Engineers (O*NET 17-2081.00)

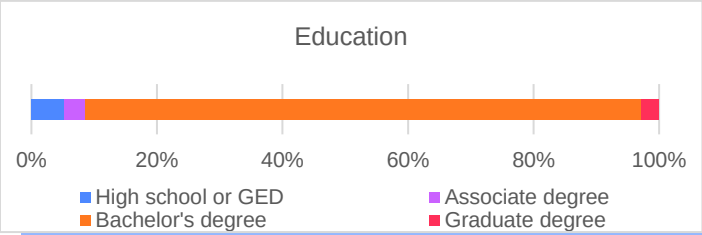
Lightcast Recommended Strategy: With a relatively low level of regional completions compared to regional demand, supply from the local postsecondary system is unlikely to fill vacancies. Meanwhile, opportunities for Environmental Engineers in California and Michigan are declining; focus recruitment to these states.

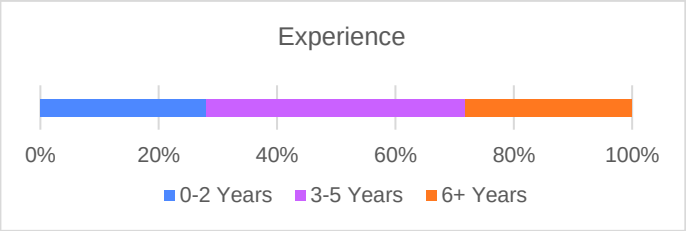
O*NET Definition: Research, design, plan, or perform engineering duties in the prevention, control, and remediation of environmental hazards using various engineering disciplines. Work may include waste treatment, site remediation, or pollution control technology.

Typical O*NET Education/Experience Level Required: Four-year bachelor's degree combined with several years of work-related experience, on-the-job training, and/or vocational training.

1,064	43%	0.82	$78,282	374
Chicago MSA Postings (2021-2023)	Chicago Demand Growth (2018-2023)	Chicago LQ	Median Advertised Salary	Regional Completions from Programs 2022

Education/Experience Level Requested by Employers





Skills	Skill Recall Rate	National Skill Projection
Environmental Engineering	48.9%	27.0%
Project Management	21.0%	7.1%
Environmental Compliance	14.0%	16.3%
Environmental Laws	13.5%	8.5%
Auditing	12.3%	21.8%
Chemical Engineering	12.2%	11.2%
Wastewater	11.4%	17.9%
Environment Health And Safety	11.4%	12.9%
Environmental Science	11.3%	19.6%
Regulatory Compliance	9.6%	18.6%

Relevant Regional Educational Programs (CIP)	
14.01	Engineering, General
15.05	Environmental Control Technologies/Technicians
14.14	Environmental/Environmental Health Engineering
14.07	Chemical Engineering
03.01	Natural Resources Conservation and Research

Feeder Occupations

- Environmental Science and Protection Technicians, Including Health
- Environmental Restoration Planners
- Environmental Compliance Inspectors

Next Step Occupations

- Architectural and Engineering Managers
- Environmental Scientists and Specialists, Including Health
- Civil Engineers

Environmental Scientists and Specialists, Including Health (O*NET 19-2041.00)

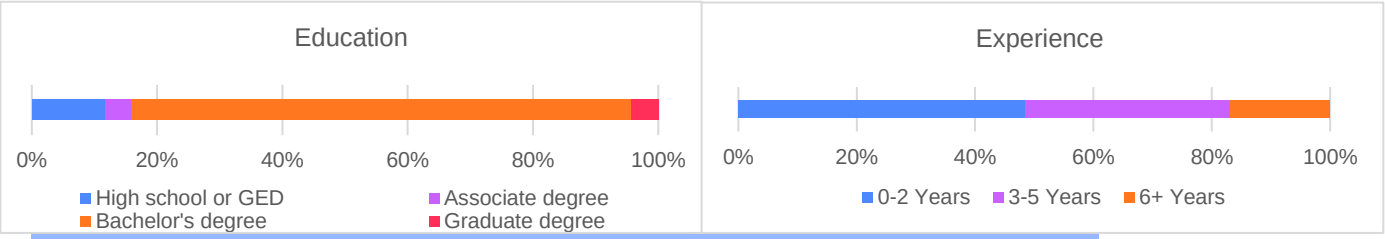
Lightcast Recommended Strategy: Demographics in this occupation in the Chicago MSA are younger than the regional average, with nearly 40% of employment under the age of 34. Advertise to young demographics for this occupation.

O*NET Definition: Conduct research or perform investigation for the purpose of identifying, abating, or eliminating sources of pollutants or hazards that affect either the environment or public health. Using knowledge of various scientific disciplines, may collect, synthesize, study, report, and recommend action based on data derived from measurements or observations of air, food, soil, water, and other sources.

Typical O*NET Education/Experience Level Required: Four-year bachelor's degree combined with several years of work-related experience, on-the-job training, and/or vocational training.

1,207	76%	0.59	$69,938	519
Chicago MSA Postings (2021-2023)	Chicago Demand Growth (2018-2023)	Chicago LQ	Median Advertised Salary	Regional Completions from Programs 2022

Education/Experience Level Requested by Employers



Skills	Skill Recall Rate	National Skill Projection
Environmental Science	49.8%	19.6%
Project Management	24.0%	7.1%
Biology	23.2%	25.7%
Environmental Engineering	22.2%	27.0%
Geology	21.7%	8.1%
Environmental Laws	19.1%	8.5%
Chemistry	18.6%	20.7%
Soil Science	18.1%	13.3%
Environmental Compliance	17.1%	16.3%
Sampling (Statistics)	14.3%	12.6%

Relevant Regional Educational Programs (CIP)	
03.01	Natural Resources Conservation and Research
14.01	Engineering, General
40.06	Geological and Earth Sciences/Geosciences
26.01	Biology, General
40.05	Chemistry

Feeder Occupations

- Environmental Science and Protection Technicians, Including Health
- Life, Physical, and Social Science Technicians, All Other
- Brownfield Redevelopment Specialists and Site Managers

Next Step Occupations

- Environmental Engineers
- Project Management Specialists
- Occupational Health and Safety Specialists

Environmental Restoration Planners (O*NET 19-2041.02)

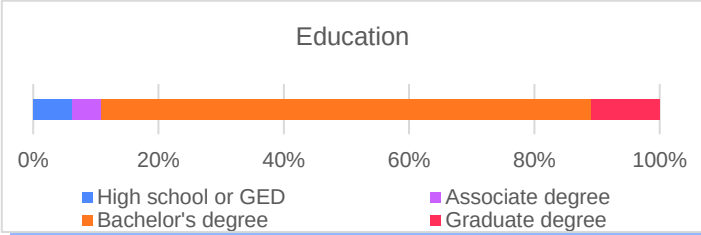
Lightcast Recommended Strategy: Collaborate with local postsecondary institutions for recruiting this role, as important local institutions, such as the University of Chicago, are among the top hiring organizations.

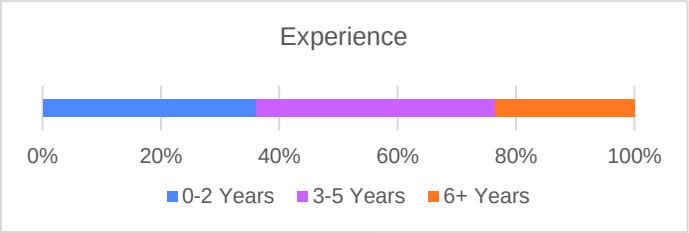
O*NET Definition: Collaborate with field and biology staff to oversee the implementation of restoration projects and to develop new products. Process and synthesize complex scientific data into practical strategies for restoration, monitoring or management.

Typical O*NET Education/Experience Level Required: Most of these occupations require graduate school, and most employers assume that candidates already have the required skills to perform this role.

1,427	54%	0.82	$57,500	911
Chicago MSA Postings (2021-2023)	Chicago Demand Growth (2018-2023)	Chicago LQ	Median Advertised Salary	Regional Completions from Edu Programs 2022

Education/Experience Level Requested by Employers





Skills	Skill Recall Rate	National Skill Projection
Project Management	21.5%	7.1%
Environmental Science	15.0%	19.6%
Auditing	14.8%	21.8%
Biology	14.0%	25.7%
Good Manufacturing Practices	11.5%	13.1%
Ecology	8.6%	13.3%
Marketing	8.2%	23.0%
Biochemistry	8.0%	12.3%
FDA Regulations	7.6%	6.6%
Molecular Biology	7.5%	16.0%

Relevant Regional Educational Programs (CIP)	
26.01	Biology, General
03.01	Natural Resources Conservation and Research
14.01	Engineering, General
26.13	Ecology, Evolution, Systematics, and Population Biology
52.02	Business Administration, Management and Operations

Feeder Occupations

- Project Management Specialists
- Environmental Scientists and Specialists, Including Health
- Business Operations Specialists, All Other

Next Step Occupations

- Environmental Engineers
- Environmental Scientists and Specialists, Including Health
- Urban and Regional Planners

Environmental Science and Protection Technicians, Including Health (O*NET 19-4042.00)

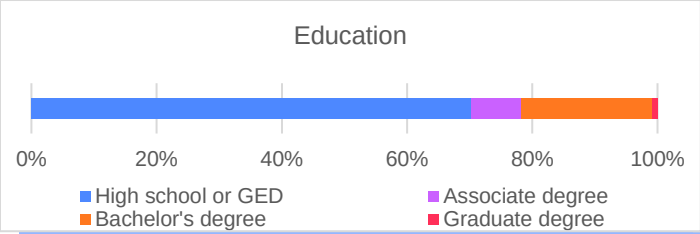
Lightcast Recommended Strategy: Present this role as a significant opportunity for career mobility, as 75% of individuals who start in this occupation move into a higher-paying occupation when transitioning.

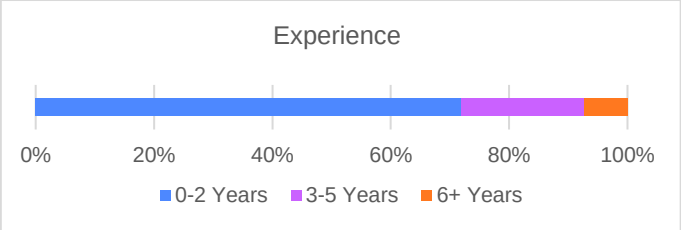
O*NET Definition: Perform laboratory and field tests to monitor the environment and investigate sources of pollution, including those that affect health, under the direction of an environmental scientist, engineer, or other specialist. May collect samples of gases, soil, water, and other materials for testing.

Typical O*NET Education/Experience Level Required: This role typically requires an associate degree with several years of work-related experience, on-the-job training, and/or vocational training.

1,709	93%	0.85	$41,600	716
Chicago MSA Postings (2021-2023)	Chicago Demand Growth (2018-2023)	Chicago LQ	Median Advertised Salary	Regional Completions from Edu Programs 2022

Education/Experience Level Requested by Employers





Skills	Skill Recall Rate	National Skill Projection
Biology	14.1%	25.7%
Emergency Response	13.0%	20.3%
Vacuum Systems	9.2%	8.1%
Environmental Science	9.2%	19.6%
Oil Containment Booms	9.0%	1.2%
Decontamination	8.8%	10.2%
Project Management	7.7%	7.1%
Occupational Safety and Health Administration (OSHA)	7.7%	11.3%
Refinery Experience	7.0%	8.1%
Sampling (Statistics)	6.4%	12.6%

Relevant Regional Educational Programs (CIP)	
03.01	Natural Resources Conservation and Research
40.06	Geological and Earth Sciences/Geosciences
14.01	Engineering, General
26.01	Biology, General
14.19	Mechanical Engineering

Feeder Occupations

- Hazardous Materials Removal Workers
- Life, Physical, and Social Science Technicians, All Other
- Forest and Conservation Workers

Next Step Occupations

- Environmental Engineers
- Environmental Scientists and Specialists, Including Health
- Project Management Specialists

Solar Sales Representatives and Assessors (O*NET 41-4011.07)

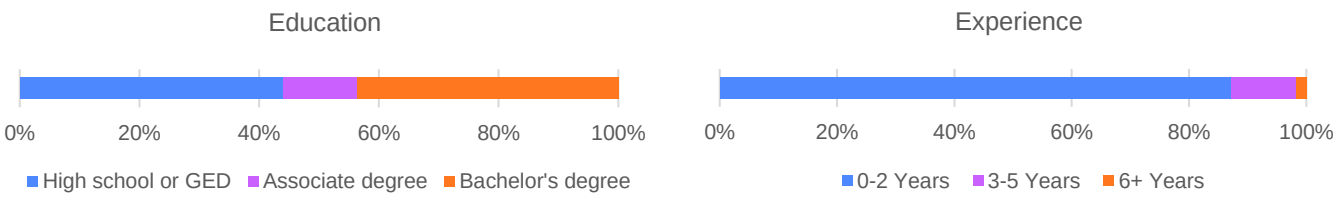
Lightcast Recommended Strategy: Many of these job openings for this occupation are accessible to those without a bachelor's degree. The focus should be on short-term training for the specialized skills below for workers to fill these roles in a more expedited way to meet fast-growing demand.

O*NET Definition: Contact new or existing customers to determine their solar equipment needs, suggest systems or equipment, or estimate costs.

Typical O*NET Education/Experience Level Required: Training in vocational schools, related on-the-job experience, or an associate's degree

881	141%	0.51	$105,500	9,009
Chicago MSA Postings (2021-2023)	Chicago Demand Growth (2018-2023)	Chicago LQ	Median Advertised Salary	Regional Completions from Edu Programs 2022

Education/Experience Level Requested by Employers



Skills	Skill Recall Rate	National Skill Projection
Solar Sales	78.1%	12.3%
Marketing	14.1%	23.0%
Warehousing	13.3%	13.0%
Field Marketing	13.0%	12.7%
Outside Sales	12.3%	1.2%
Selling Techniques	12.1%	-1.2%
Lead Generation	10.7%	7.5%
Sales Process	10.2%	15.5%
Customer Relationship Management	9.2%	22.1%
Community Marketing	8.6%	-2.7%

Relevant Regional Educational Programs (CIP)	
52.02	Business Administration, Management and Operations
15.17	Energy Systems Technologies/Technicians
03.01	Natural Resources Conservation and Research
14.01	Engineering, General
52.14	Marketing

Feeder Occupations

- Retail Salespersons
- Customer Service Representatives
- Energy Auditors

Next Step Occupations

- Sales Managers
- General and Operations Managers
- Project Management Specialists

Energy Auditors (O*NET 47-4011.01)

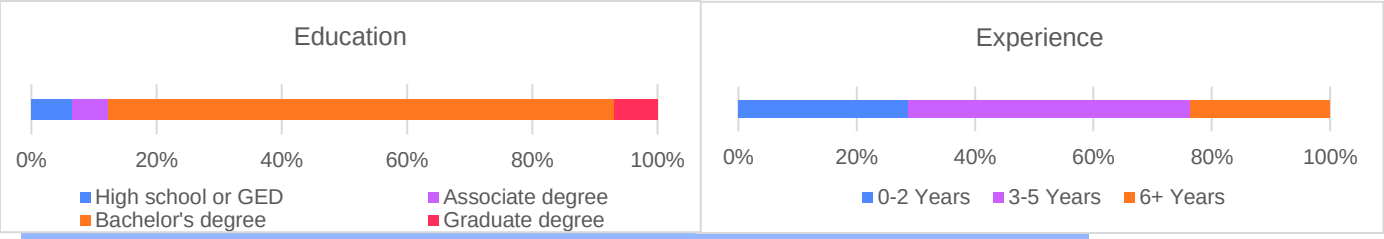
Lightcast Recommended Strategy: Advertise this occupation's significant earnings potential relative to its common educational requirements, as this occupation presents opportunities for those with less than a bachelor's degree.

O*NET Definition: Conduct energy audits of buildings, building systems, or process systems. May also conduct investment grade audits of buildings or systems.

Typical O*NET Education/Experience Level Required: Training in vocational schools, related on-the-job experience, or an associate degree.

744	62%	1.02	$80,000	2,163
Chicago MSA Postings (2021-2023)	Chicago Demand Growth (2018-2023)	Chicago LQ	Median Advertised Salary	Regional Completions from Edu Programs 2022

Education/Experience Level Requested by Employers



Skills	Skill Recall Rate	National Skill Projection
Project Management	24.2%	7.1%
Auditing	19.9%	21.8%
Accounting	18.9%	24.0%
Renewable Energy	18.6%	22.6%
Finance	15.7%	27.3%
Economics	13.6%	22.7%
Marketing	13.6%	23.0%
Data Analysis	12.6%	21.6%
HVAC	10.7%	7.5%
Business Development	8.1%	5.5%

Relevant Regional Educational Programs (CIP)	
14.01	Engineering, General
52.02	Business Administration, Management and Operations
45.06	Economics
52.01	Business/Commerce, General
52.08	Finance and Financial Management Services

Feeder Occupations

- Power Plant Operators
- First-Line Supervisors of Mechanics, Installers, and Repairers
- Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products

Next Step Occupations

- Energy Engineers, Except Wind and Solar
- Sustainability Specialists
- Project Management Specialists

Maintenance and Repair Workers, General (O*NET 49-9071.00)

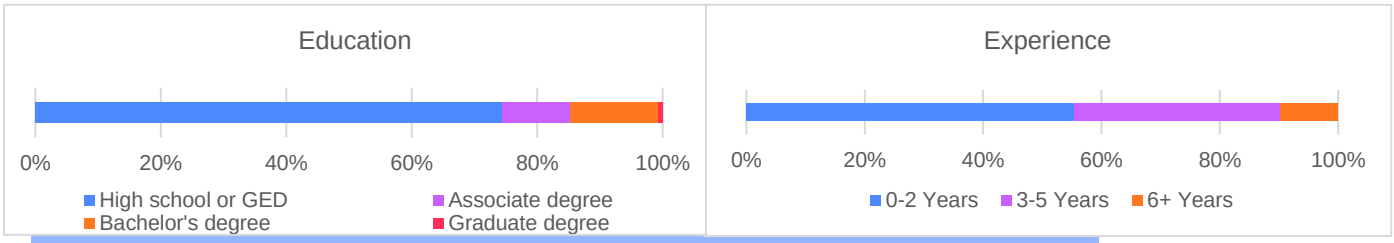
Lightcast Recommended Strategy: Collaborate with employers to ensure strong career mobility opportunities for this occupation, given its relatively low advertised salary relative to other clean energy occupations.

O*NET Definition: Perform work involving the skills of two or more maintenance or craft occupations to keep machines, mechanical equipment, or the structure of a building in repair. Duties may involve pipe fitting; HVAC maintenance; insulating; welding; machining; carpentry; repairing electrical or mechanical equipment; installing, aligning, and balancing new equipment; and repairing buildings, floors, or stairs.

Typical O*NET Education/Experience Level Required: Training in vocational schools, related on-the-job experience, or an associate's degree.

729	426%	0.82	$45,094	432
Chicago MSA Postings (2021-2023)	Chicago Demand Growth (2018-2023)	Chicago LQ	Median Advertised Salary	Regional Completions from Edu Programs 2022

Education/Experience Level Requested by Employers



Skills	Skill Recall Rate	National Skill Projection
Herbicides	29.7%	7.5%
Ecological Restoration	27.6%	2.9%
Chainsaws	25.6%	5.1%
Invasive Species Management	24.5%	1.2%
Mowing	21.0%	12.1%
Hand Tools	20.6%	6.1%
Plant Identification	19.9%	4.5%
Field Service Management	19.8%	18.2%
Erosion Control	18.7%	8.5%
Ecology	18.5%	13.3%

Relevant Regional Educational Programs (CIP)	
26.13	Ecology, Evolution, Systematics, and Population Biology
46.05	Plumbing and Related Water Supply Services
03.01	Natural Resources Conservation and Research
26.01	Biology, General
15.03	Electrical/Electronic Engineering Technologies/Technicians

Feeder Occupations

- Industrial Machinery Mechanics
- Electrical and Electronic Engineering Technologists and Technicians
- Bus and Truck Mechanics and Diesel Engine Specialists

Next Step Occupations

- Automotive Service Technicians and Mechanics
- Mechanical Engineers
- Industrial Engineers

Appendix

List of Occupations by Clean Energy Sector

Automotive: Automotive Engineers (17-2141.02), Bus and Truck Mechanics and Diesel Engine Specialists (49-3031.00), Automotive Service Technicians and Mechanics (49-3023.00), Automotive Glass Installers and Repairers (49-3022.00), Automotive Body and Related Repairers (49-3021.00)

Building Maintenance: Plumbers, Pipefitters, and Steamfitters (47-2152.00), Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021.00), Maintenance and Repair Workers, General (49-9071.00), Industrial Machinery Mechanics (49-9041.00)

Electrical: Electrical and Electronic Engineering Technologists and Technicians (17-3023.00), Electrical and Electronics Drafters (17-3012.00), Electrical Engineers (17-2071.00), Energy Engineers, Except Wind and Solar (17-2199.03), Helpers--Electricians (47-3013.00), Electricians (47-2111.00), Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095.00), Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094.00), Electrical Power-Line Installers and Repairers (49-9051.00), Electrical and Electronic Equipment Assemblers (51-2022.00), Electrical and Electronics Installers and Repairers, Transportation Equipment (49-2093.00)

Green Building and Construction: Construction Managers (11-9021.00), Architectural and Engineering Managers (11-9041.00), Sustainability Specialists (13-1199.05), Civil Engineers (17-2051.00), Environmental Engineers (17-2081.00), Environmental Restoration Planners (19-2041.02), Roofers (47-2181.00), Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters (47-3015.00), Brickmasons and Blockmasons (47-2021.00), Carpenters (47-2031.00), Floor Layers, Except Carpet, Wood, and Hard Tiles (47-2042.00), Insulation Workers, Floor, Ceiling, and Wall (47-2131.00), Helpers, Construction Trades, All Other (47-3019.00), Construction and Building Inspectors (47-4011.00), Construction and Related Workers, All Other (47-4099.00), Floor Sanders and Finishers (47-2043.00), Operating Engineers and Other Construction Equipment Operators (47-2073.00), Glaziers (47-2121.00), First-Line Supervisors of Construction Trades and Extraction Workers (47-1011.00), Boilermakers (47-2011.00), Painters, Construction and Maintenance (47-2141.00), Segmental Pavers (47-4091.00), Construction Laborers (47-2061.00), Energy Auditors (47-4011.01), Weatherization Installers and Technicians (47-4099.03), Cement Masons and Concrete Finishers (47-2051.00), Fence Erectors (47-4031.00), Hazardous Materials Removal Workers (47-4041.00)

Manufacturing: Sheet Metal Workers (47-2211.00), Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders (51-4122.00), Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic (51-4191.00), Plating Machine Setters, Operators, and Tenders, Metal and Plastic (51-4193.00), Chemical Equipment Operators and Tenders (51-9011.00), Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061.00), Medical Appliance Technicians (51-9082.00), Painting, Coating, and Decorating Workers (51-9123.00), Structural Metal Fabricators and Fitters (51-2041.00), Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4033.00), Power Plant Operators (51-8013.00), Jewelers and Precious Stone and Metal Workers (51-9071.00), Electromechanical Equipment Assemblers (51-2023.00), Bakers (51-3011.00), Patternmakers, Metal and Plastic (51-4062.00), Gas Plant Operators (51-8092.00), Packaging and Filling Machine Operators and Tenders (51-9111.00), Semiconductor Processing Technicians (51-9141.00), Photographic Process Workers and Processing Machine Operators (51-9151.00), Helpers--Production Workers (51-9198.00), Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic (51-4031.00), Tool and Die Makers (51-4111.00), Cabinetmakers and Bench Carpenters (51-7011.00), Water and Wastewater Treatment Plant and System Operators (51-8031.00), Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders (51-9051.00), Computer Numerically Controlled Tool Operators (51-9161.00), Machinists (51-4041.00), Sawing Machine Setters, Operators, and Tenders, Wood (51-7041.00), Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders (51-9012.00), Coating, Painting, and Spraying

Machine Setters, Operators, and Tenders (51-9124.00), Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders (51-9192.00), Production Workers, All Other (51-9199.00), First-Line Supervisors of Production and Operating Workers (51-1011.00), Slaughterers and Meat Packers (51-3023.00), Food Processing Workers, All Other (51-3099.00), Printing Press Operators (51-5112.00), Sewing Machine Operators (51-6031.00), Fabric and Apparel Patternmakers (51-6092.00), Furniture Finishers (51-7021.00), Power Distributors and Dispatchers (51-8012.00), Stationary Engineers and Boiler Operators (51-8021.00), Computer Numerically Controlled Tool Programmers (51-9162.00), Engine and Other Machine Assemblers (51-2031.00), Food Batchmakers (51-3092.00), Welders, Cutters, Solderers, and Brazers (51-4121.00), Print Binding and Finishing Workers (51-5113.00), Laundry and Dry-Cleaning Workers (51-6011.00), Tailors, Dressmakers, and Custom Sewers (51-6052.00), Mixing and Blending Machine Setters, Operators, and Tenders (51-9023.00), Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders (51-9041.00), Molders, Shapers, and Casters, Except Metal and Plastic (51-9195.00), Tire Builders (51-9197.00), Team Assemblers (51-2092.00), Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4032.00), Tool Grinders, Filers, and Sharpeners (51-4194.00), Textile Cutting Machine Setters, Operators, and Tenders (51-6062.00), Nuclear Power Reactor Operators (51-8011.00), Chemical Plant and System Operators (51-8091.00), Plant and System Operators, All Other (51-8099.00), Grinding and Polishing Workers, Hand (51-9022.00)

Solar and Wind: Solar Energy Systems Engineers (17-2199.11), Wind Energy Engineers (17-2199.10), Wind Energy Operations Managers (11-9199.09), Solar Energy Installation Managers (47-1011.03), Solar Photovoltaic Installers (47-2231.00), Solar Sales Representatives and Assessors (41-4011.07), Solar Thermal Installers and Technicians (47-2152.04), Structural Iron and Steel Workers (47-2221.00), Wind Turbine Service Technicians (49-9081.00)

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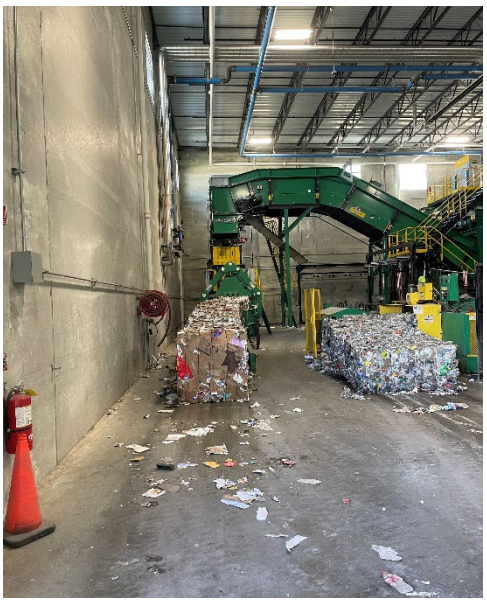
File #: 25-0923 **Agenda Date:** 4/1/2025 **Agenda #:** 7.A.

DUPAGE COUNTY

ENVIRONMENTAL DIVISION

2024 Solid Waste & Recycling Annual Report



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INTRODUCTION

This document endeavors to measure waste and recycling rates in DuPage County as included in the Solid Waste Management and Recycling Act. The Environmental Division surveys local governments and waste haulers for waste generation and collection information to establish a recycling rate for the County. These gauge the success of the County's Solid Waste Management Plan and help plan for future activities. This report serves as both a reflection of our progress and a roadmap for continued success in waste management and sustainability.

NATIONAL UPDATES

Among U.S. EPA's priorities, the agency sought to address PFAS chemicals in the environment and focused on plastic pollution. They continued efforts and activities that support safer ways to produce, label and handle batteries. Lithium batteries were reported to have been the source of 373 fire incidents at waste and recycling systems.[1] The industry reported the highest level of fire incidents in 2024 with more than 418 fires. [2]

The Agency continued its shift to the perspective of Sustainable Materials Management which dives deeper into the full life-cycle analysis of products as opposed to strictly focusing on end-of-life management. In addition, the Agency enhanced efforts to reduce food waste's impact on climate by creating the Avoided Landfilled Food Waste Methane Emissions Calculator. Municipal solid waste and recycling data has not been updated on a national level since 2018.

The Agency published the 2020 Recycling Economic Information (REI) Report with the goal of understanding the economic implications of material reuse and recycling. The Report found that 526 million metric tons of recycled goods were produced; 681,000 jobs including $37.8 billion in wages and $5.5 billion in tax revenue were generated[3].

STATE UPDATES

The Paint Stewardship Act was anticipated to launch in January 2025; however, regulatory issues arose, and the start was delayed. Paint Care was selected as the product stewardship organization and has been working to identify collection sites that fulfill the requirements of the law. The Portable Battery Stewardship Act was passed for the responsible collection and recycling of portable batteries. The bill was supported by the waste and recycling industry, local governments and others. It takes effect January 1, 2026, and includes producer responsibility, convenient collection, public awareness campaigns and annual reporting. Batteries included are small-to-medium-sized portable batteries.

[1] Waste 360, Ryan Fogelman, Vice President of Strategic Partnerships, January 4, 2024.
[2] Waste 360, Ryan Fogelman, Vice President of Strategic Partnerships, November 19, 2024
[3] https://www.epa.gov/sites/default/files/2020-11/documents/rei_report_508_compliant.pdf

DUPAGE COMMUNITY WASTE & RECYCLING SURVEY RESULTS

DuPage County requests annual waste and recycling information from all communities in addition to the three townships that franchise for the collection. This report contains data from January 1, 2024 - December 31, 2024, collected through a waste and recycling survey. Twenty-eight communities responded to the survey representing 224,295 single-family homes. Table 1 provides a summary of those responses.

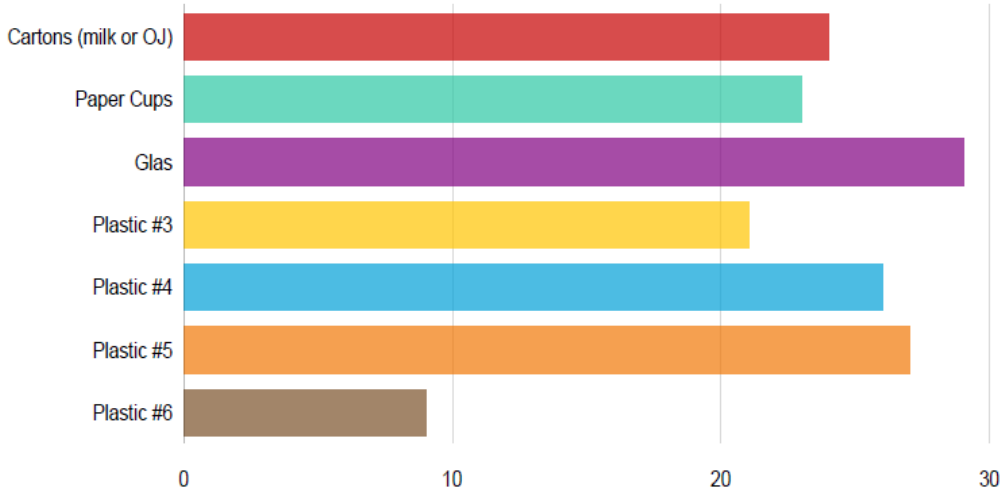
Table 1: Curbside Waste & Recycling Collection in Tons from 2024 Survey

Municipalities	Waste collected (tons)	Landscape Waste collected (tons)	Recycling Collected (tons)	Food Scrap Collected (tons)
28	201,655.51	31,521.12	70,152.05	979.43

The recycling rate has been calculated by dividing the recycled tonnage by the total waste tonnage. The diversion rate is calculated by dividing the recycled tonnage and landscape waste by the total waste tonnage. The average recycling rate based on the respondents is 23% with a diversion rate of 33%.

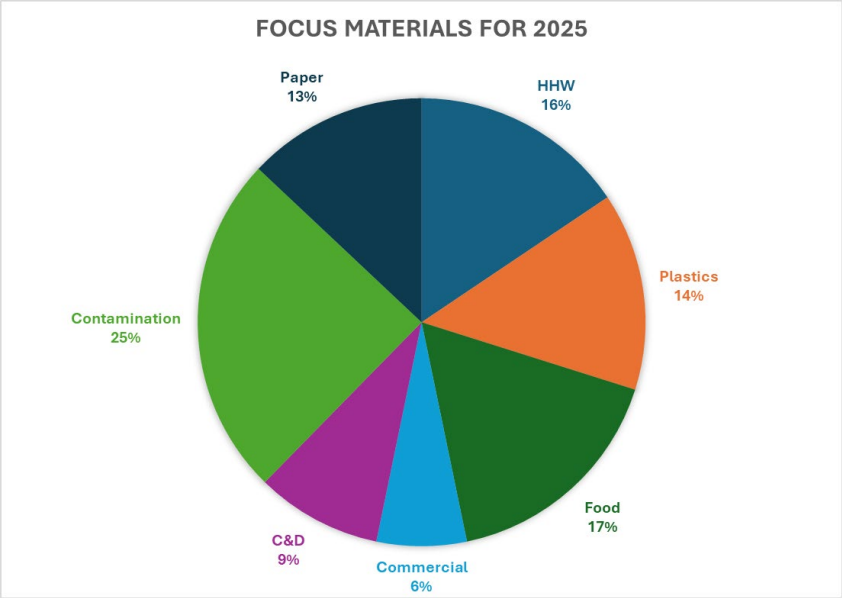
Communities were asked what materials were accepted in their curbside recycling program. There was a slight variation in the plastics that were accepted but most, if not, all communities accepted cartons, glass, paper cups, plastics and paper (Figure 1). Thirteen communities indicated that their municipal hauling contract provided service to multi-family units and/or included a commercial franchise program. All communities provide landscape waste pickup and twelve have a food scrap "ride along" option and six provide separate food scrap composting collection. Three contracts include curbside pickup for household hazardous waste and nearly half offer electronics recycling.

Figure 1: Types of Recyclables Collected in Curbside



Communities were also asked to provide information on their haulers' outreach efforts. The most prevalent educational method was a flyer or printed materials followed by a dedicated website and then a specialized app. To help guide the County's outreach efforts, the survey asks communities for their top 3 waste/recyclable materials that they would like to target. Contamination was the top priority with food waste and household hazardous waste the second and third.

Figure 2: Top 3 Items for Increased Division in 2025



The County has been collaborating with regional organizations to address contamination and has been participating in the Illinois Recycling Contamination Task Force as well as the Chicago Metro Recycling Education and Outreach Grant Program being led by the Metropolitan Mayors Caucus. Both focus on reducing contamination and increasing recycling overall.

In December 2024, the County launched Recycle Coach, a new online widget and app that will support recycling education throughout the State of Illinois. It is funded by the Illinois EPA and has been offered at no cost to all local governments. Over the year, the County provided outreach via short videos, social media and through the website. The Environmental & Sustainability sections of the County's website were viewed more than 100,000 times with the recycling and recycling guide pages receiving the most views at 38,271 and 25,803 with recycling events at 19,736 between January 1, 2024 – December 31, 2024. Information on recycling and disposal remain the most popular of the environmental pages.

COMMUNITY RECYCLING EVENTS

During 2024, sixteen communities held recycling events for items not accepted in curbside programs. Items collected included electronics, eyeglasses, musical instruments, keys, holiday lights, flags, sharps, medications, textiles, lightbulbs and other hard-to-manage items.

The County again offered funding for Document Shredding Events to local governments. Twelve communities received funding, and the County held one event at the campus. Shredding events have become an important outlet for the recycling of important documents. Home shredded paper is not

typically accepted in curbside recycling due to its tendency to impact material recovery facility machinery.

In addition to the shredding events, the County hosted a tire recycling opportunity with the Illinois EPA. Tires from local governments were accepted and recycled by the State's contractor. The program resulted in the recycling of more than 1,200 waste tires.

HOUSEHOLD HAZARDOUS WASTE (HHW)

The City of Naperville continued to operate a regional Household Hazardous Waste Facility which accepts chemical waste from any resident in the State of Illinois. The facility is funded by the City, DuPage, Kane and Will counties and the Illinois EPA provides a contractor and funds the safe disposal of collected waste. The facility was launched in 1990 and is open year-round. In recent years, the IL EPA has instituted a cap on disposal costs creating some potential for limitations to be placed. The Agency has also pursued more evenly distributed one-day events at locations around the State. They avoid hosting events within proximity to a permanent facility which has increased the use of the site. In 2024, the City reported that in 2024, 22,759 vehicles visited the site with 13,626 from DuPage County. The site collected more than 133,226 gallons of waste (See Appendix C).

SIGN & MEDICINE BOTTLE RECYCLING EVENT

A sign recycling event was held in the fall. Corrugated plastic and cardboard signs were accepted along with the metal stands. This year empty medicine containers without labels were collected. Approximately 50 cubic yards were collected and recycled by LRS.

ELECTRONICS RECYCLING

DuPage County continued its participation in the Illinois Electronics Recycling program with the Illinois Clearinghouse. The County worked with RLG and eWorks to collect covered electronics at the fourteen locations listed in Table 2. Items included in the program are computers, televisions, monitors, printers, fax machines, scanners, DVD players, VCRs, portable digital music players keyboards, mice, video game consoles, cell phones and computer peripherals. Vehicles are tracked at the Burr Ridge and Naperville locations with a total of 15,292 In addition, 13 communities offered curbside collection of electronics in their hauling contracts. This resulted in an additional 123,000 pounds of electronic material being recycled.

Table 2: 2024 Electronics, Textiles, Cardboard & Book Collection Totals

Partner Location	Electronics Total Collected in 2024 (lbs.)	Textiles, Cardboard & Books (lbs.)
Addison Township (3/year)	28,023	2,843
Bensenville	7,289	155
Bloomingdale Township (3x/year)	45,440	1,997
Burr Ridge Mon-Fri	258,259	14,225
Carol Stream (one-day event)	15,734	1,456
Elmhurst (quarterly)	68,813	20,514
Glendale Heights (one-day event)	7,084	516
Lisle (quarterly)	65,162	11,100
Lisle Township (Mon-Fri)	66,528	9,210
Naperville (Mon-Fri)	531,020	1,090
Westmont (2x/year)	34,185	4,690
Wheaton (1x/month)	194,852	23,920
Woodridge	36,784	3,695
eWorks Wheeling	2,543	
TOTAL	**1,361,716**	**95,411**

PUMPKIN COLLECTIONS

Over the last decade, communities have been hosting pumpkin collection/smash events to divert these organics for composting. SCARCE and the Illinois Food Scrap and Composting Coalition have been mapping regional drop off locations and created a toolkit located at https://www.scarce.org/pumpkins/. Throughout the region, sites reported diverting 164.7 tons of waste from IL landfills. Sixteen entities reported that they had held events and had collected a total of 44.36 tons in DuPage County.

DuPAGE COUNTY WASTE, RECYCLING AND COMPOSTING HAULER REPORTING ORDINANCE

This was the first year that haulers were required to report waste collection data pursuant to EN-O-0001-24 enacted by the Board April 9th. Information was requested for tons of waste, recycling and composting collected from residential, commercial and industrial accounts. Below is a summary of the information reported.

Table 3 - 2024 DuPage Waste Hauler Reporting

Hauler	Municipal Waste (tons)	Recyclables (tons)	Food Scrap (tons)	Landscape Waste (tons)
C. Hoving	1,997 Total 499 Residential 600 Commercial 897 Industrial	1,700 Total 199 Residential 499 Commercial 1002 Industrial	0	0
Economy Disposal	12,358 Total 6,179 Residential 6,179 Commercial	13,374 Total 6,687 Residential 6,687 Commercial	0	0
WM	160,785 Total 8,800 Residential 78,100 Commercial 73,900 Industrial	16,586 Total 6,600 Residential 6,300 Commercial 3,700 Industrial	19 Total 16 Commercial 3 Industrial	850 Total 703 Residential 147 Industrial
Groot Recycling & Waste, Inc.-Elgin	41,670 Total 22,700 Residential 19,000 Commercial	10,372 Total 8,400 Residential 2,000 Commercial	0	2,783 Total 2,777 Residential 6 Commercial
Groot, Recycling & Waste, Inc.-McCook	30,099 Total 11,700 Residential 18,400 Commercial	5,492 Total 4,400 Residential 1,100 Commercial	0	1,400 Total 1,400 Residential
Groot Recycling & Waste, Inc.-Elk Grove	5,805 Total 5,805 Commercial	930 Total 930 Commercial	0	0

Hauler	Municipal Waste (tons)	Recyclables (tons)	Food Scrap (tons)	Landscape Waste (tons)
Republic Services	50,691 Total 47,116 Residential 3,575 Industrial	15,859 Total 15,533 Residential 326 Industrial	0	6,285 Total 6,285 Residential
Flood Bros Disposal Co	85,419 Total 21,189 Residential 44,057 Commercial 20,173 Industrial	19,317 Total 8,382 Residential 4,038 Commercial 6,897 Industrial	0	3,576 Total 3,278 Residential 298 Industrial
Lakeshore Recycling Systems	56,793 Total 56,793 Residential	17,900 Total 17,900 Residential	0	7,094 Total 7094 Residential
Groot Recycling & Waste-Aurora	93,070 Total 44,708 Residential 31,735 Commercial 16,627 Industrial	28,703 Total 24,500 Residential 3,999 Commercial 204 Industrial	0	717 Total 642 Residential 63 Commercial 12 Industrial
E&J Disposal Co.	0	6,820 Total 6,095 Residential 725 Commercial	0	0
Republic Services-Mount Prospect	16,154 Total 11,166 Residential 4,740 Commercial 248 Industrial	3,021 Total 2,793 Residential 172 Commercial 56 Industrial	0	1,525 Total 1,525 Residential
Wastebox, Inc.	2,899 Total 2,319 Residential 580 Commercial	966 Total 773 Residential 193 Commercial	0	0
Total	**557,742 Tons**	**141,043 Tons**	**19 Tons**	**24,217 Tons**

SUMMARY

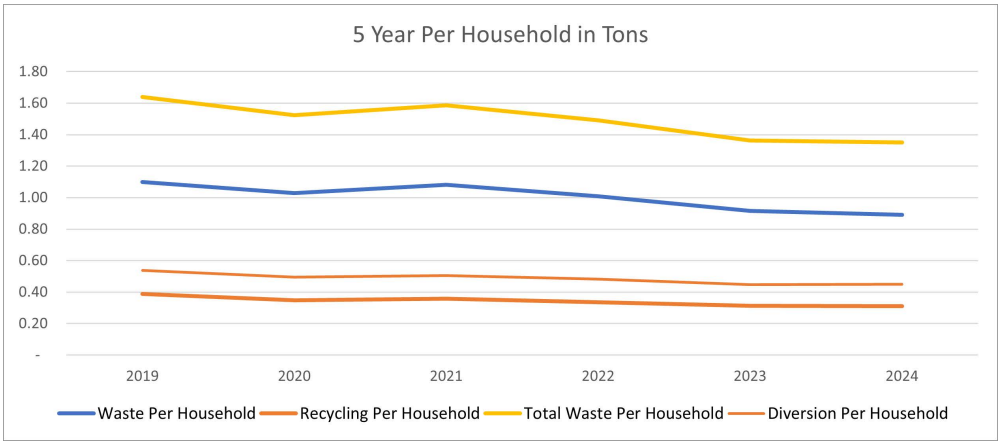
Total Waste Residential, Commercial, Industrial (tons)	Total Recycling Residential, Commercial, Industrial (tons)	Total Landscape Waste Residential, Commercial, Industrial (tons)	Total Other Recycling Residential, Commercial, Industrial (tons)	Total Food Scrap/Pumpkins Residential, Commercial, Industrial (tons)
526,129.05	108,939.15	32,046.45	830.08	1,042.79

On the residential side of the waste stream, communities reported a combined recycling rate of 23% and a diversion rate of 34%. The commercial and industrial recycling rate is 11% and diversion rate of slightly more at 11.2 %. When commercial and industrial are included, the rates decline to 16% recycling and 21.35% diversion.

Figure 3 provides a 5-year perspective on residential waste in the County. Waste generation per household is declining with recycling and diversion remaining constant.

The data supports ongoing need for promotion of recycling and efforts to improve commercial recycling and diversion.

Figure 3: 5-yr compiled data from annual community surveys.



APPENDIX A

City/Township	Hauler	Waste (tons)	Recycling (tons)	Landscape Waste (tons)	Total Diverted (tons)	Total Waste (tons)	Recycling Rate %	Diversion Rate %
Addison	Republic Services	10,593	2,675	1,700	4,375	14,967	18%	29%
Bartlett	Groot Industries	12,322	3,186	1,219	4,405	16,727	19%	26%
Bensenville	Republic Services	5,143	1,106	0	1,106	6,249	18%	18%
Bloomingdale	SBC Waste Solutions	6,690	2,575	115	2,690	9,381	27%	29%
Burr Ridge	Groot	3,795	1,220	378	1,598	5,393	23%	30%
Carol Stream	Flood Brothers	809	259	1,982	2,240	3,049	8%	73%
Clarendon Hills	LRS	2,224	955	431	1,386	3,610	26%	38%
Darien	LRS	6,045	2,297	0	2,297	8,342	28%	28%
Downers Grove	Republic	12,546	4,939	1,696	6,635	19,181	26%	35%
Elmhurst	Republic Services	12,650	4,583	1,501	6,084	18,734	24%	32%
Glen Ellyn	Groot	6,232	2,523	1,303	3,826	10,058	25%	38%
Glendale Heights	Republic Services	8,194	1,958	997	2,954	11,149	18%	27%
Hinsdale	Republic Services	5,466	1,967	492	2,459	7,925	25%	31%
Itasca	Republic Services	2,972	836	528	1,364	4,336	19%	31%
Lisle	LRS	3,824	1,891	881	2,772	6,596	29%	42%
Lombard	Waste Management	11,658	3,576	1,641	5,217	16,875	21%	31%
Naperville	Groot Industries	38,680	14,300	9,965	24,265	62,945	23%	39%
Oak Brook	Flood Bros Disposal Co	3,201	788	70	858	4,060	19%	21%
Oakbrook Terrace	Flood Bros. Disposal Co.	430	304	80	384	814	37%	47%
Roselle	Flood Bros. Disposal Co.	6,811	2,648	560	3,207	10,018	26%	32%
Villa Park	LRS	5,536	1,949	960	2,908	8,444	23%	34%
Warrenville	Groot	3,758	1,155	560	1,715	5,473	21%	31%
West Chicago	Groot Industries, Inc.	5,549	2,344	570	2,914	8,463	28%	34%
Wheaton	LRS	11,213	4,652	1,416	6,069	17,281	27%	35%
Willowbrook	Groot	1,429	601	159	760	2,189	27%	35%
Winfield	SBC Waste Solutions	3,225	1,115	810	1,925	5,150	22%	37%
Wood Dale	Flood Bros Disposal Co	4,193	1,180	660	1,840	6,033	20%	31%
Woodridge	Groot	6,468	2,571	848	3,419	9,887	26%	35%

APPENDIX B

DuPage County Solid Waste & Recycling 2024

Community Name	Contractor	Program Type	Monthly Refuse Rate	Contract Expiratio	Senior Rate	Landscape Waste	Landscape waste Specifics	White Goods	Bulk Items	Composting	Special Collections	Notes	Column1
Addison	Republic	Flat	$53.76	2028	Y	April - November 30th	30-33 gallon, Sticker Decal No Charge	$30.00/item	$25/ yd	Y	$25/yd	Composting Prices: 65 gal - $14.68 95 gal - $21.60 2 cu-yd dumpster - $86.40	
Aurora	Groot	Hybrid	35-gal $11.94 65-gal $15.38 95-gal $22.10	2027	Y	April - November (1st Fri)	30 gal Kraft yard bag, need sticker $2.75	1 sticker/item	1 sticker/item	N	Call for pricing		
Barlett	Groot	Flat	$22.27	2029	Y	April - November 30th	Stickers $2/bag	Included	Included	N		E-waste accepted	
Batavia	Groot	Hybrid	35-gal $17.42 65-gal $22.30 95-gal $24.38	2028	Y	April - November	Sticker $3.12	1 sticker	1 sticker	Y	Call for pricing	E-Waste accepted/ Organics with Yard Waste	
Bensenville	Republic	Flat	$26.49	2026	Y	April - November 5th	Garbage container 35 gal or Kraft bag-need Yard Waste decal	Included	Included	N	$21.95/Cu Yd		
Bloomingdale	SBC Waste Solutions	Flat	$19.70	2026	Y	April - November 30th	Can 34 gal or Kraft 33 gal bag - $2.85/Sticker	Included	Call for pricing	N		E-Waste collected upon request 1 day per month.	
Bolingbrook	Flood Brothers	Flat	$21.67	2029	N	April- December	33 gal bag Kraft bag - included	Included	Included	N			
Burr Ridge	Groot	Flat	$19.91	2029	Y	April - December 15th	Included	$29.56/item	Included	N			
Carol Stream	Flood Brothers	Flat	$21.88	2024	Y	April-November	Stickers, $1.32/bag for leaves and $2.43/bag for yard waste	Included	$5.69/item	N	$21.63/Cu Yd (2 yd minimum)		
Clarendon Hills	Lakeshore Recycling Systems	Flat	$21.04	2031	Y	April-December	$3/bag or $163.91/season toter curbside pickup	Included	1 item/wk	Y	$15.00/Cu Yd (2 yd Minimum)	Composting no additonal charg. Part of yard waste Bi-annual curbside E-Waste charge: $.55/per month	
Darien	Lakeshore Recycing Systems	Flat	$22.00	2027	Y	April-December	Inluded WITH option for renting 65 or 95 gallon cart $3.00 monthly	$26.27/item	1 item/wk	Y	$15.75/Cu Yd	Composting no additonal charg. Part of yard waste. 2 e-waste home collections provided	
Downers Grove	Republic	Hybrid	35-gal $19.96 65-gal $22.72 95-gal $29.73	2026	N	April-December	Stickers $4.44/bag OR Purchase Cart for the season	1 sticker/50 lbs	1 sticker/50 lbs.	Y	$20.00/yd^3	Composting: Can rent additional garbage cart or buy 33-gal. clearly labeled yard waste bag.	
Downers Grove Township	Groot	Other (unlimited, sticker & fixed amount)	Unlimit $22.68 Fixed $20.00 Sticker $8.42	2024		April - November	Stickers $4.04	Yes. $ TBD	Yes $ TBD	N	2-yd roll off $72.12	`	
Elk Grove Village	Groot	Flat	$21.69	2029	Y	April - December 15th	Kraft Bags, max 33 gal - Sticker $3 or Cart $175 annually	$50.00/item	Included	N		2 E-Waste items weighing less than 50 pounds per home each week on an appointment basis. Items that exceed 50 pounds will require a fee.	
Elmhurst	Republic	Hybrid	35-gal $19.60 65-gal $20.41 95-gal $26.31	2026	N	April- November 30th	Kraft Bag - Sticker $4/bag	2 stickers/item	1 sticker/item	Y		Compost: $19.00/mo	
Glendale Heights	Republic	Flat	$27.13	2025	N	April- November	Included	Included	Included	N		E-waste every 2nd regularly scheduled collection day of the month with at least one day prior notice	
Glen Ellyn	Groot	Hybrid	35-gal $14.31 65-gal $18.91 95-gal $21.60	2029	Y	April- November 30th	Yard Waste $3.15/bag and leaf $1.86/bag	1 sticker/item	1 sticker/item	Y		Composting Prices: 35 gal - $13.26; 65 gal- $15.41; 95 gal- $19.19	
Hanover Park	Groot	Flat	$23.77	2025	Y	April- November 25th	Stickers $3.11, waste cart $31.60	$43.71/item		N	$28.96/Cu Yd	Leaf pickup free in November	Free Electronics Recycling of 2 items
Hinsdale	Republic Services	Hybrid	65-gal $23.35 95-gal $26.01	2026	Y	April- November	32 gal Kraft bag or 34 gal container - Sticker $4.02/bag	2 stickers	2 stickers/item	Y		Composting Prices: 65 gal- $21.73/month; 95 gal- $27.78/month	
Itasca	Republic Services	Flat	$21.56	2025	N	April- November	Included	Included	Included	N			
Lemont	Waste Management	Flat	$28.63	2025	Y	April-November 30th	May rent 96 gal cart $4.00/mo OR purchase for $105	Included	Included	N	Subject to fee	HHW Door Collection	
Lisle	Lakeshore Recycling Systems	Hybrid	35-gal $24.10 65-gal $25.15 95-gal $27.83	2028	N	Mid-March-November	Stickers $3.95/bag	5 stickers/item	5 stickers/item	Y		Composting 65g - $131.33/season; 95g - $157.59/season E-Waste 5 stickers/item	
Lisle Township	Lakeshore Recycling Systems	Other	35-gal $21.84 65-gal $22.71 95-gal $29.95	2029	Y	April - December	Stickers $4.90/bag		2 stickers/item			Unlimited Program includes Unlimited weekly yard waste, 1 white good, and 1 bulk item.	

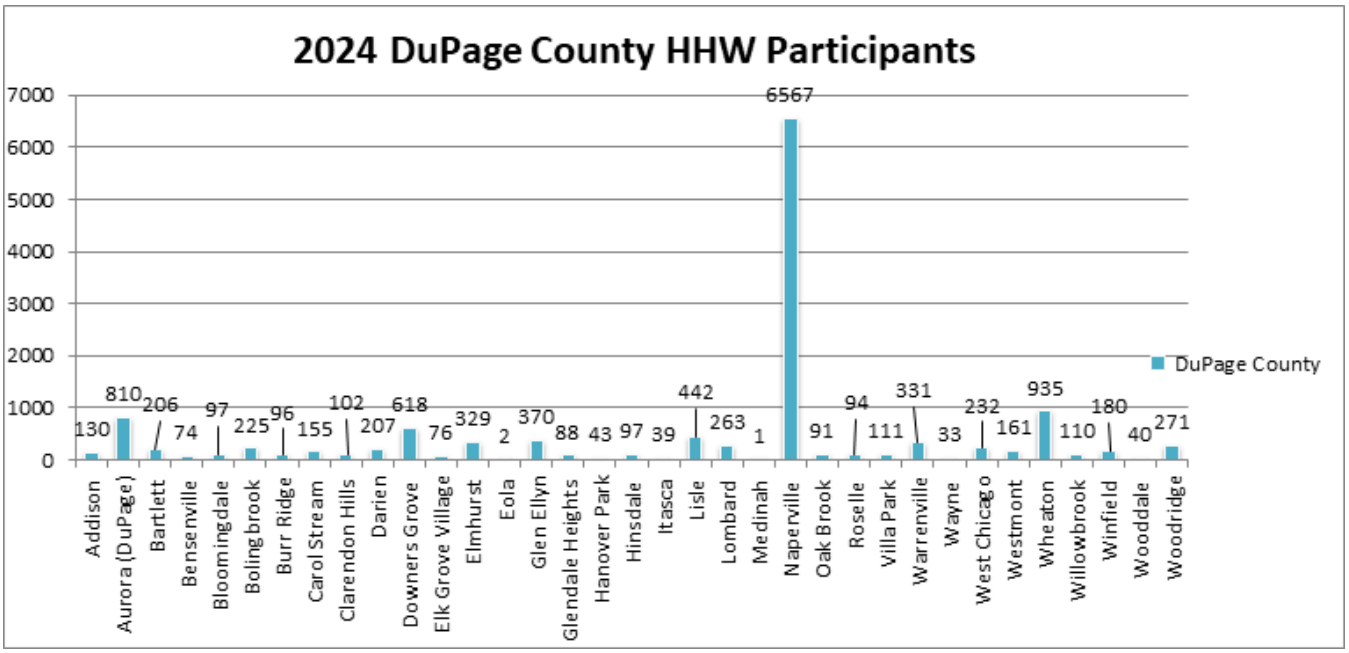
APPENDIX B Cont'd

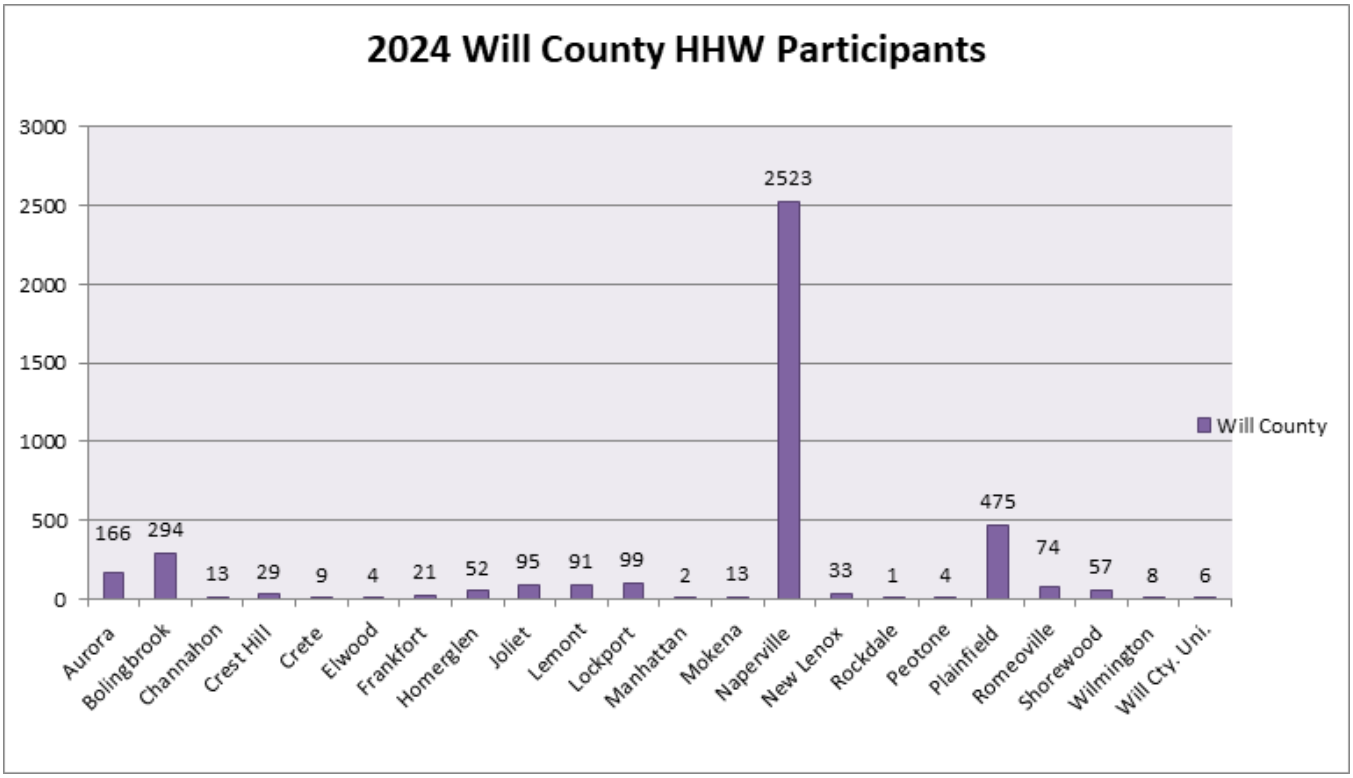
Lombard	Waste Management	Hybrid	35-gal $14.54 65-gal $18.10 95-gal $21.87	2029	N	April- November	Stickers $2.88/bag	$40.00/pick-up	$20/pick-up	Y	$25.00/Cu Yd	Composting - $147.29/yr
Naperville	Groot	Flat	$14.85	2029	N	March- December	Stickers $2.75/bag / free weekly pickup Nov. 7- second wk of Dec.	Included	Included	Y		Composting - 64g - $185/year; 96g - $225/year E-Waste: $35 bundle
Naperville Township	Groot	Flat	$21.43	2024	Y	April - December	Stickers $2.14/bag	Call Groot	1 item/wk free			
Oakbrook	Flood Brothers	Flat	$21.25	2024	N	April- November	Stickers $2.65/bag	Included	Included	N		Offers curbside e-waste collection for certain items. Must call to schedule and fee applies.
Oakbrook Terrace	Flood Brothers	No Charge		2029	N/A	April-December	Included	Included	Included	N	$33/up to 3 cu yd	No Cost, but any additional container need $2.00 refuse sticker
Roselle	Flood Brothers	Flat	$20.92	2025	Y	April - November	Sticker $2.45/bag, $207.65/cart	Call Flood Brothers	Included	N	$25.00/ Cu Yd	E-Waste $25 up to 6 items. HHW $25 up to 6 items
Villa Park	Lakeshore Recycling Systems	Flat	$24.72	2028	N	April- November	Bag or container - Sticker $3.00	Call LRS	Included	N	$30.00/ cu yd	
Warrenville	Groot	Flat	$16.92	2026	Y	April- November 30th	Sticker $2.91 or Container $196.27/season	$35.00	1 item/wk free	N	$25.00/Cu Yd (2 yd Minimum. 1st yd free)	Additional bulk items will require 5 prepaid yard waste stickers
West Chicago	Groot	Hybrid	35-gal $15.00 95-gal $21.33	2029	Y	April- November	Sticker $2.59 or subscription $225.11/Annual	10 stickers/item	1 sticker/item	N		
Westmont	Flood Brothers	Flat	35-gal $34.56 (bimonthly) 65-gal $35.92 95-gal $37.20	2029	Y	April-November 30th	Stickers $2.50/waste $3.45 yard waste	1 bulk item/pickup no charge	Call for pricing	N		
Wheaton	Lakeshore Recycling Systems	Other	35 gal/tip: $3.56 65 gal/tip $5.02 95 gal/tip $5.96	2029	N	April- December	Stickers $3.49	10 stickers/item	5 stickers/item	Y		Fees for recycling: 35-gal $2.33/tip 65-gal $3.21/tip $95-gal $3.79/tip
Willowbrook	Groot	Hybrid	35-gal $18.47 65-gal $19.59 95-gal $20.71	2030	Y	April-December	$3.35	$43.08/item	1item/wk	N	$23.69/Cu yd	2yd^3 of C&D collected/wk
Winfield	SBC Waste Solutions	Other	Sticker $3.60 Flat Rate $20.81	2025	Y	April- November	$3.60	Included		N		Electric, paint, batteries & lightbulb collection
Wood Dale	Flood Brothers	Flat	$22.07	2027	N	April- November	Included for bags under 4ft in length	Included	Included	N		Free pickup for small amounts of Construction Materials that do not exceed 35 gal and weigh less than 50 pounds
Woodridge	Groot	Hybrid	35-gal $19.70 65-gal $23.70 95-gal $25.70	2029	N	April- December 15th	n/a	Call for pricing	Call for pricing	N		E-Waste brown bag of small electronics 5 stickers; TVs or monitors less than 50 pounds.

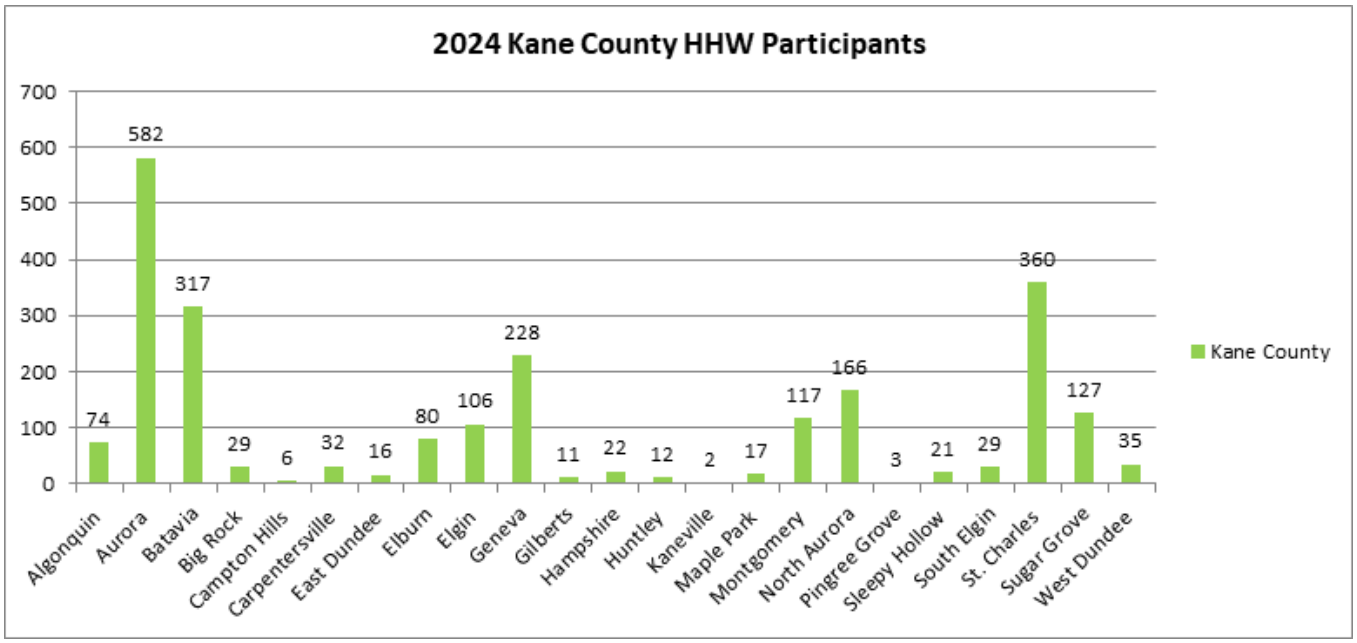
APPENDIX C

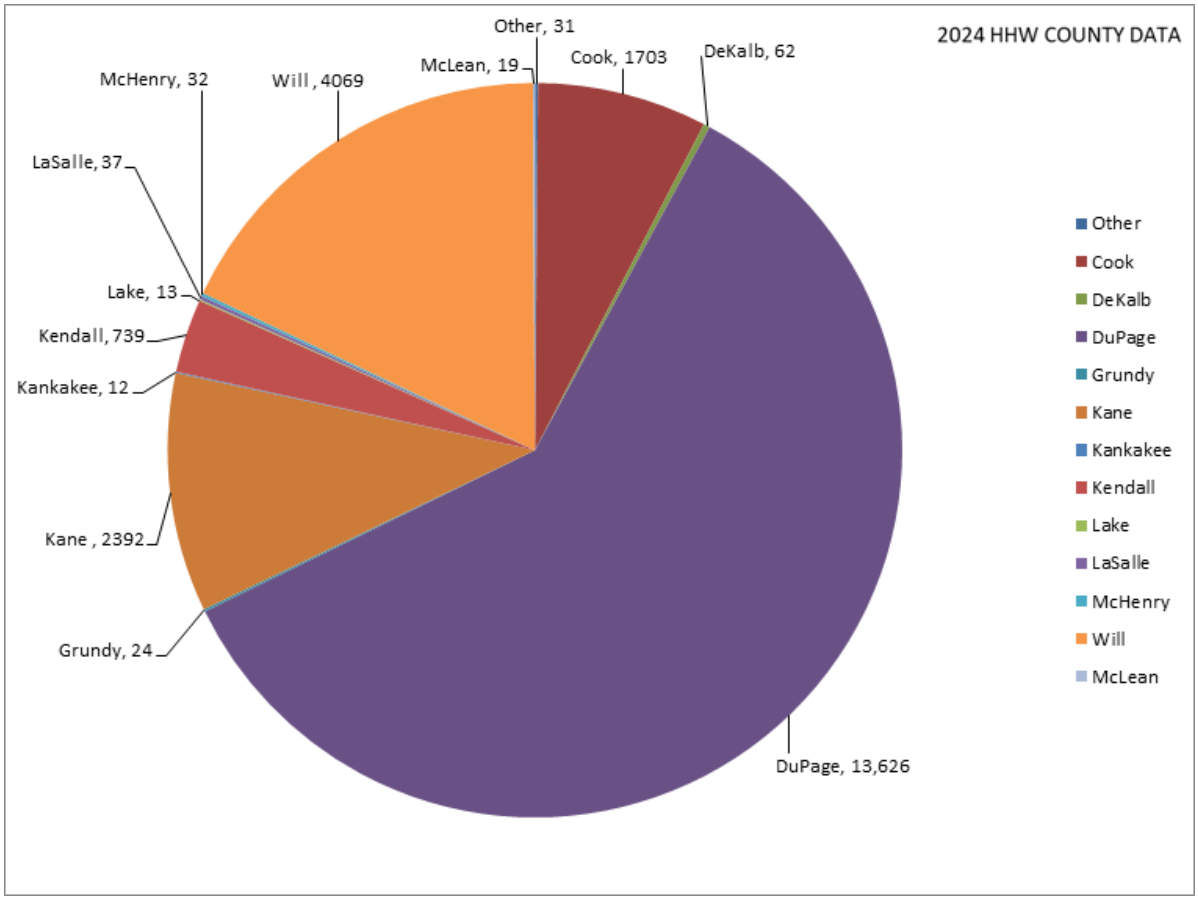
Naperville Regional HHW Facility 2024 Data

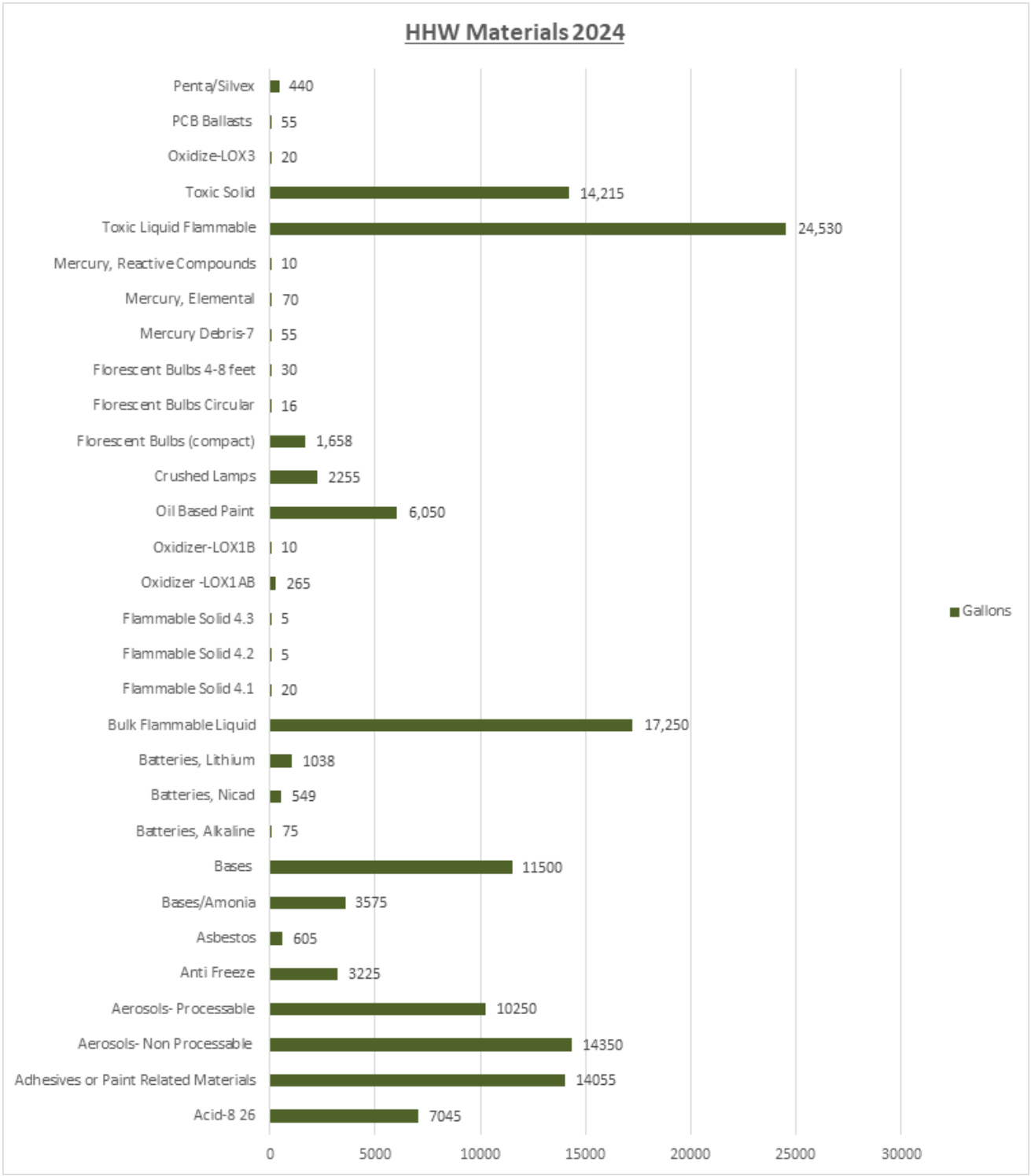
There were 22,759 cars that utilized the Household Hazardous Waste facility in 2024. 13,626 of those cars were from DuPage County, 4069 were from Will County and 2392 were from Kane County. The rest of the vehicles were from Cook, DeKalb, Grundy, Kankakee, Kendall, Lake, LaSalle, McHenry and other counties throughout Illinois. More than 133,226 gallons of hazardous materials were collected.






2024 Kane County HHW Participants
700
600
500
400
300
200
100
0
74
582
317
29
6
32
16
80
106
228
11
22
12
2
17
117
166
3
21
29
360
127
35
Algonquin
Aurora
Batavia
Big Rock
Campton Hills
Carpentersville
East Dundee
Elburn
Elgin
Geneva
Gilberts
Hampshire
Huntley
Kaneville
Maple Park
Montgomery
North Aurora
Pingree Grove
Sleepy Hollow
South Elgin
St. Charles
Sugar Grove
West Dundee
Kane County


2024 HHW COUNTY DATA
Other, 31
McLean, 19
Cook, 1703
DeKalb, 62
McHenry, 32
Will, 4069
LaSalle, 37
Lake, 13
Kendall, 739
Kankakee, 12
Kane , 2392
Grundy, 24
DuPage, 13,626
Other
Cook
DeKalb
DuPage
Grundy
Kane
Kankakee
Kendall
Lake
LaSalle
McHenry
Will
McLean


HHW Materials 2024
Penta/Silvex 440
PCB Ballasts 55
Oxidize-LOX3 20
Toxic Solid 14,215
Toxic Liquid Flammable 24,530
Mercury, Reactive Compounds 10
Mercury, Elemental 70
Mercury Debris-7 55
Florescent Bulbs 4-8 feet 30
Florescent Bulbs Circular 16
Florescent Bulbs (compact) 1,658
Crushed Lamps 2255
Oil Based Paint 6,050
Oxidizer-LOX1B 10
Oxidizer -LOX1AB 265
Flammable Solid 4.3 5
Flammable Solid 4.2 5
Flammable Solid 4.1 20
Bulk Flammable Liquid 17,250
Batteries, Lithium 1038
Batteries, Nicad 549
Batteries, Alkaline 75
Bases 11500
Bases/Amonia 3575
Asbestos 605
Anti Freeze 3225
Aerosols- Processable 10250
Aerosols- Non Processable 14350
Adhesives or Paint Related Materials 14055
Acid-8 26 7045
0
5000
10000
15000
20000
25000
30000
Gallons