

Clean, Green Economy Insights

In this short report we highlight information around the clean, green economy. Our definitions around what industries comprise this sector are modeled after Workforce WindsorEssex’s methods that highlight 41 key industriesⁱ that support the green economy. These industries can be divided into sectors like energy production, energy efficiency, and environmental management.

It is important to note that that data around the jobs in these industries are not necessarily clean, green jobs. However, they are in industries that would support the clean, green economy.

When we consider the industries that comprise the clean, green economy, in December of 2023 Niagara housed 1,115 business with employees (57.8% had fewer than 5 employees) and 1,930 sole proprietor businesses (see Table 1).¹

Table 1. Business counts by number of employees, Niagara, December 2023ⁱⁱ

Businesses	Count	Percentage
Without employees	1,930	
With Employees	1,115	
Micro (1-4 employees)	645	57.8%
Small (5-99 employees)	457	41.0%
Medium (100-499 employees)	12	1.1%
Large (500+ employees)	1	0.1%

Data from Lightcast² provides information about the number of jobs that exist in industries across Niagara. In Figure 1 we see the estimated number of jobs between 2019 and 2023, and the projected number of jobs and estimated job growth between 2023 and 2030. Between

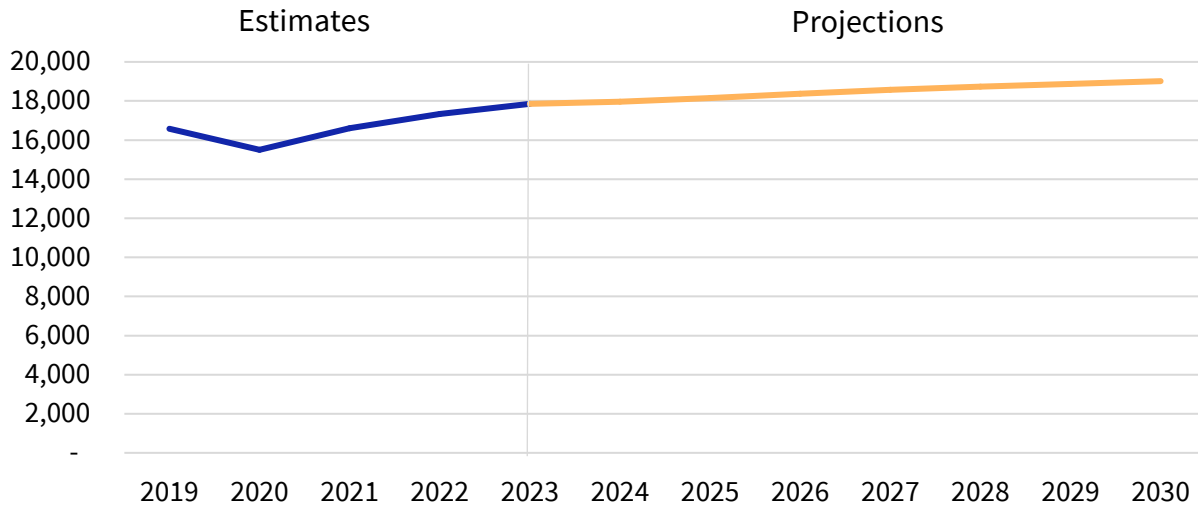
¹ Note: these data are available at a 4-digit NAICS code so smaller industries (i.e., at a 6-digit NAICS level) are grouped into their larger industry category.

² Note: these data also are only available at a 4-digit NAICS code so smaller industries (i.e., at a 6-digit NAICS level) are grouped into their larger industry category.



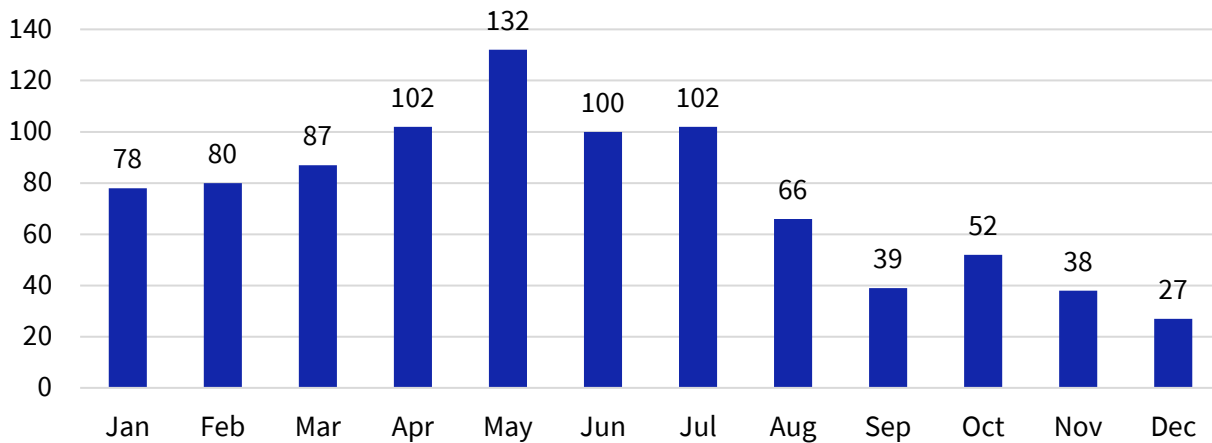
2019 and 2023 there was an estimated growth of 7.7% in the number of jobs. There is projected to be an additional 6.5% growth in jobs between 2023 and 2030.

Figure 1. Job Counts, Niagara, December 2023ⁱⁱⁱ



Insights from Workforce Collective’s job aggregation tool show that there were 903 new jobs related to these industries throughout 2024 (see Figure 2).

Figure 2. New monthly job posts, Niagara, 2024^{iv}



Data from Niagara Region's Employer Survey^v provides us further insight into the conditions of the Green Economy from the employer perspective.

- In 2023, there were 328 employers who responded to their survey and who are involved in an industry that is related to the Clean, Green Economy.
 - Approximately 268 (81.7%) identified one of the Green Economy industries as their primary sector. These employers employ about 7,380 people
 - The remaining 18.2% noted a clean economy industry as a secondary sector

The following sections highlight employer counts and sizes, and the estimated number of jobs and projected job growth for each of the three key areas

- [Energy Production](#)
- [Energy Efficiency](#)
- [Environmental Management](#)

ENERGY PRODUCTION

This area houses industries with activities that support the production, transmission, and distribution of clean energy.

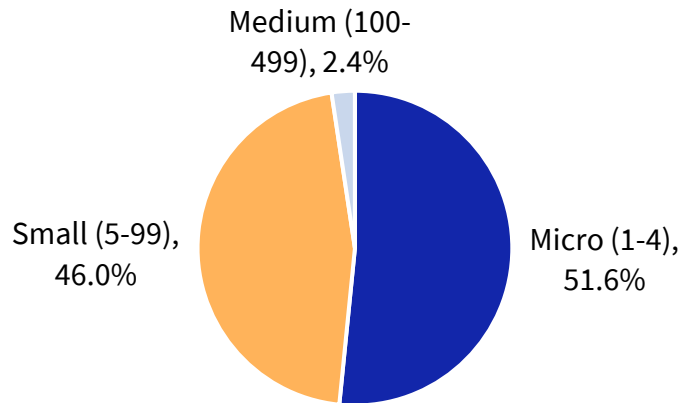
Employer counts

Table 2 outlines the number of businesses in each industry in this sector. We see that there are 224 businesses without employees (i.e., they are sole proprietors) and most of the businesses with employees have fewer than 100 employees (see Figure 3).

Table 2. Business counts by number of employees, Niagara, December 2023ⁱⁱ

Industry (4-digit NAICS)	Without employees	Micro (1-4)	Small (5-99)	Medium (100-499)	Large (500+)
Electric power generation, transmission & distribution	53	2	6	2	0
Water, sewage & other systems	1	0	0	0	0
Utility system construction	4	6	6	0	0
Other heavy & civil engineering construction	15	6	8	0	0
Building equipment contractors	147	114	94	2	0
Boiler, tank & shipping container manufacturing	0	0	0	1	0
Engine, turbine & power transmission equipment manufacturing	3	0	0	1	0
Electrical equipment manufacturing	0	1	0	0	0
Other electrical equipment & component manufacturing	1	1	2	0	0
Total Employers	224	130	116	6	0

Figure 3. Business size, Niagara, December 2023ⁱⁱ



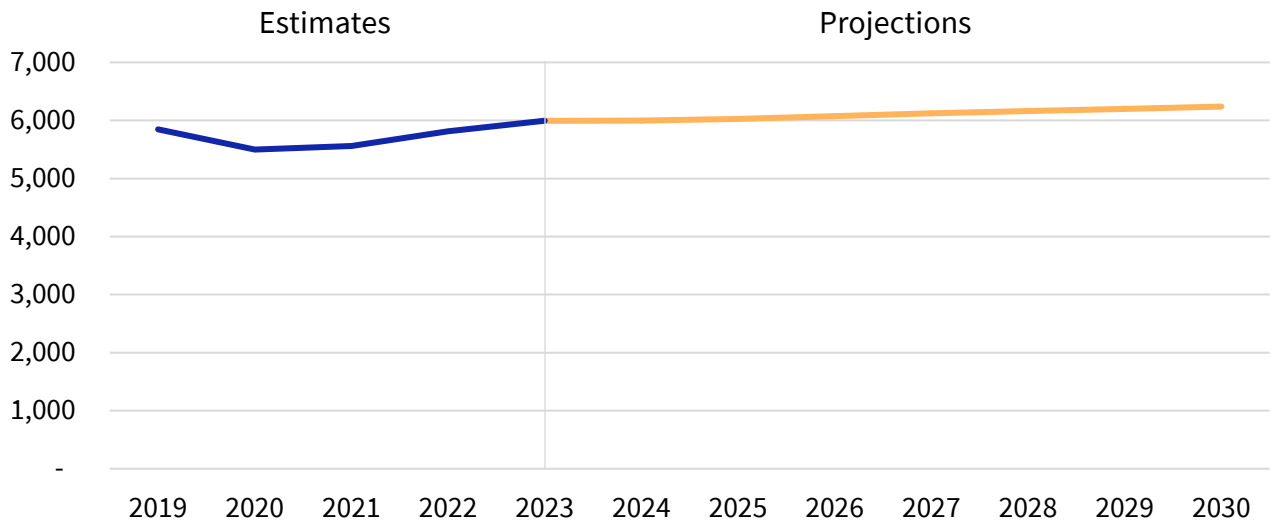
Job Counts

In Table 3 we see the estimated number of jobs between 2019 and 2023, and the projected number of jobs and estimated growth between 2023 and 2030. Between 2019 and 2023 there was 2.5% growth in the number of jobs. There is projected to be an additional 4.1% growth in jobs between 2023 and 2030 (see Figure 4).

Table 3. Job Counts, 2019 - 2023 and 2023 - 2030 Projected Change, Niagaraⁱⁱⁱ

Industry (4-digit NAICS)	2019 Jobs	2023 Jobs	2030 Jobs	Avg. Wages (2023)	National LQ	% Change 2019-23	% Change 2023-30
Electric power generation, transmission & distribution	1,196	1,017	1,017	\$101,438	0.90	-14.9%	0.0%
Water, sewage & other systems	239	222	221	\$75,013	1.80	-7.2%	-0.4%
Utility system construction	592	636	666	\$126,584	0.76	7.5%	4.7%
Other heavy & civil engineering construction	211	157	136	\$73,063	0.43	-25.8%	-13.1%
Building equipment contractors	3,140	3,523	3,791	\$65,534	1.04	12.2%	7.6%
Boiler, tank & shipping container manufacturing	259	224	204	\$62,706	1.81	-13.3%	-9.3%
Engine, turbine & power transmission equipment manufacturing	135	161	161	\$91,411	3.34	19.4%	-0.3%
Electrical equipment manufacturing	47	39	33	\$77,667	0.22	-17.4%	-14.8%
Other electrical equipment & component manufacturing	27	14	11	\$60,163	0.09	-47.5%	-23.5%

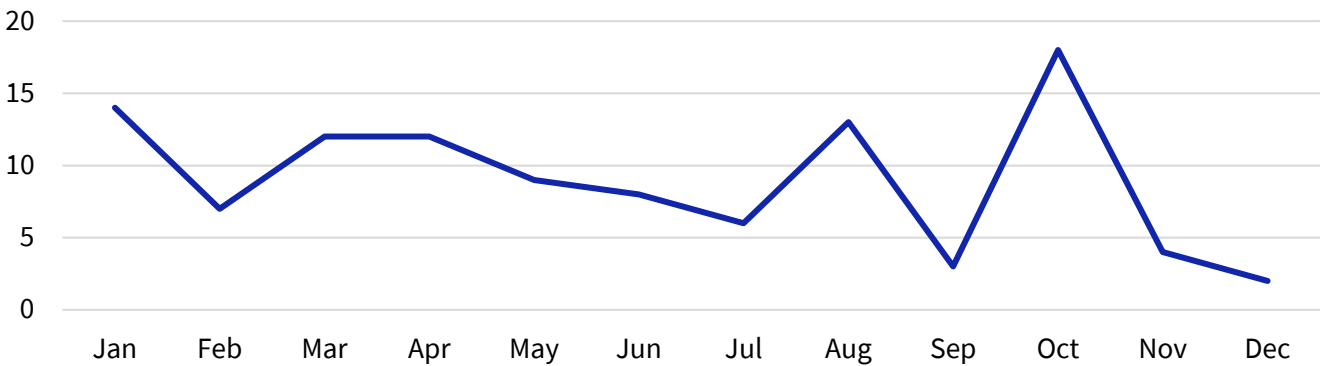
Figure 4. Job Change, 2019-2023 and 2023-2030 Projected Change, Niagaraⁱⁱⁱ



Job Demand

Insights from Workforce Collective’s job aggregation tool highlight the number of new jobs that were posted throughout each month in 2024 (see Figure 5). The most posted job was electricians (except for industrial and power systems).

Figure 5. New monthly job posts, Niagara, 2024^{iv}



ENERGY EFFICIENCY

This area houses industries with activities that support energy efficiency through either the creation of efficient products, construction of buildings that are energy-efficient, or providing services that promote energy efficiency.

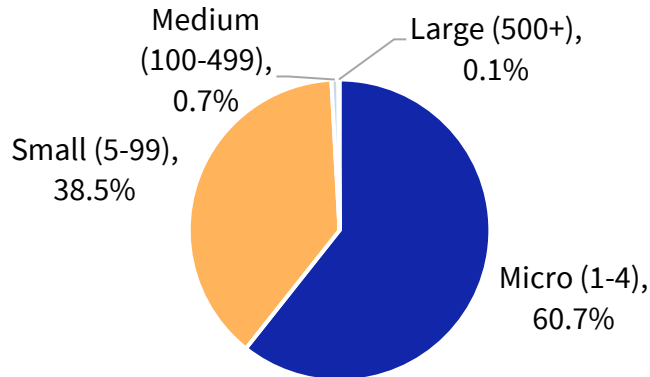
Employer counts

Table 4 outlines the number of businesses in each industry in this sector. We see that there are 1,654 businesses without employees (i.e., they are sole proprietors). Just over 60% of employers have fewer than 5 employees (see Figure 6).

Table 4. Business counts by number of employees, Niagara, December 2023ⁱⁱ

Industry (4-digit NAICS)	Without employees	Micro (1-4)	Small (5-99)	Medium (100-499)	Large (500+)
Residential building construction	789	269	141	0	0
Non-residential building construction	98	49	49	2	0
Land subdivision	267	13	8	0	0
Building finishing contractors	137	49	33	0	0
Other specialty trade contractors	264	87	51	1	0
Architectural & structural metals manufacturing	2	1	2	0	0
Ventilation, heating, air-conditioning & commercial refrigeration equipment manufacturing	6	1	4	1	0
Navigational, measuring, medical & control instruments manufacturing	1	2	4	0	0
Electric lighting equipment manufacturing	2	1	3	0	0
Household appliance manufacturing	0	0	0	0	0
Electrical equipment manufacturing	0	1	0	0	0
Other electrical equipment & component manufacturing	1	1	2	0	0
Motor vehicle manufacturing	1	0	0	0	0
Motor vehicle body & trailer manufacturing	0	0	0	0	0
Motor vehicle parts manufacturing	4	1	7	2	1
Railroad rolling stock manufacturing	2	1	1	0	0
Architectural, engineering & related services	80	16	7	0	0
Total Employers	1654	492	312	6	1

Figure 6. Business size, Niagara, December 2023ⁱⁱ



Job Counts

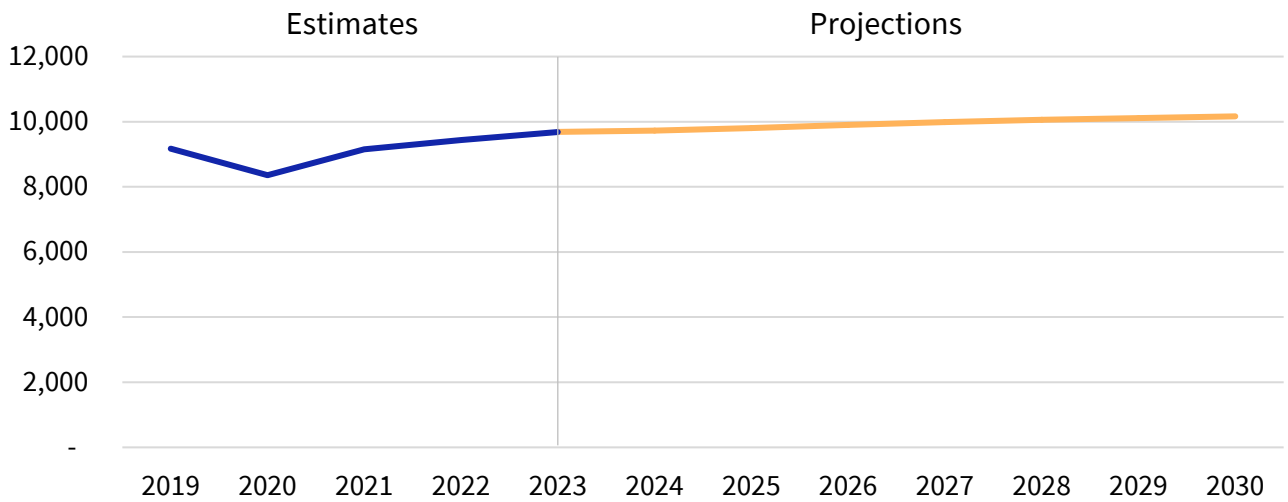
In Table 5 we see the estimated number of jobs between 2019 and 2023, and the projected number of jobs and estimated growth between 2023 and 2030. Between 2019 and 2023 there was an estimated growth of 5.7% in the number of jobs. There is projected to be an additional 4.9% growth in jobs between 2023 and 2030 (see Figure 7).

Table 5. Job Counts, 2019 - 2023 and 2023 - 2030 Projected Change, Niagaraⁱⁱⁱ

Industry (4-digit NAICS)	2019 Jobs	2023 Jobs	2030 Jobs	Avg. Wages (2023)	National LQ	% Change 2019-23	% Change 2023-30
Residential building construction	1,485	1,818	2,028	\$52,664	1.00	22.4%	11.5%
Non-residential building construction	815	874	925	\$71,620	0.66	7.2%	5.8%
Land subdivision	78	132	156	\$65,849	0.92	69.7%	18.1%
Building finishing contractors	1,158	1,305	1,405	\$58,471	1.11	12.7%	7.7%
Other specialty trade contractors	990	969	964	\$57,871	0.68	-2.1%	-0.5%
Architectural and structural metals manufacturing	727	878	916	\$65,343	1.26	20.7%	4.4%
Ventilation, heating, air-conditioning & commercial refrigeration equipment manufacturing	167	178	186	\$78,492	0.85	6.6%	4.5%
Navigational, measuring, medical & control instruments manufacturing	93	75	60	\$75,558	0.31	-18.9%	-20.0%

Electric lighting equipment manufacturing	114	156	191	\$54,048	2.34	37.4%	22.2%
Electrical equipment manufacturing	47	39	33	\$77,667	0.22	-17.4%	-14.8%
Other electrical equipment & component manufacturing	27	14	11	\$60,163	0.09	-47.5%	-23.5%
Motor vehicle manufacturing	1,127	1,059	1,187	\$90,600	2.56	-6.1%	12.1%
Motor vehicle body & trailer manufacturing	30	18	17	\$49,021	0.10	-41.1%	-6.6%
Motor vehicle parts manufacturing	755	592	521	\$70,018	0.74	-21.5%	-12.1%
Railroad rolling stock manufacturing	93	134	170	\$61,954	1.98	45.3%	26.4%
Architectural, engineering & related services	1,464	1,447	1,396	\$82,929	0.57	-1.2%	-3.5%

Figure 7. Job Change, 2019-2023 and 2023-2030 Projected Change, Niagaraⁱⁱⁱ



Job Demand

Insights from Workforce Collective’s job aggregation tool highlight the number of new jobs that were posted throughout 2024 (see Figure 8). Table 6 highlights the top positions that were posted throughout 2024.

Figure 8. New monthly job posts, Niagara, 2024^{iv}

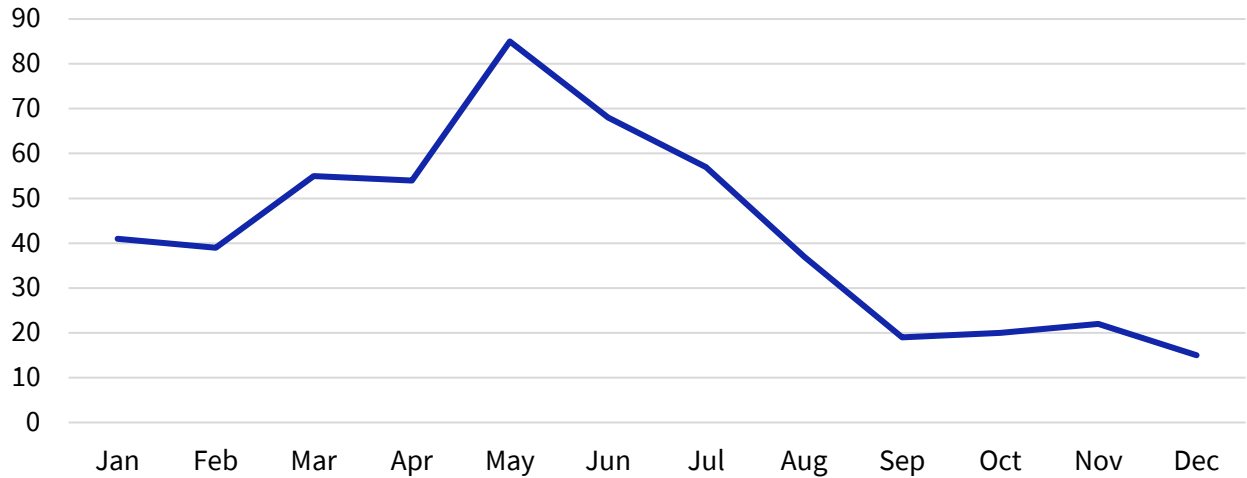


Table 6. Top in-demand Occupations, 2024^{iv}

Occupation	Count job Posts
Construction trades helpers and labourers	51
Construction managers	37
Carpenters	27
Administrative officers	19
Home building and renovation managers	18

ENVIRONMENTAL MANAGEMENT

This area houses industries with activities that support environmental management, conservation, and natural resources.

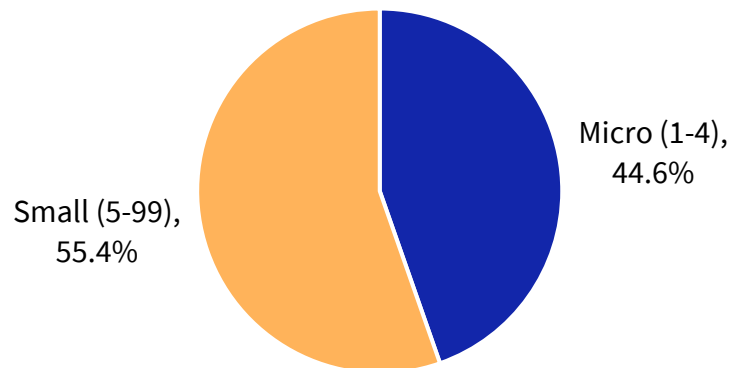
Employer counts

Table 7 outlines the number of businesses in each industry in this sector. We see that there are 53 businesses without employees (i.e., they are sole proprietors). Just over 55% of employers have between 5 and 99 employees (see Figure 9).

Table 7. Business counts by number of employees, Niagara, December 2023ⁱⁱ

Industry (4-digit NAICS)	Without employees	Micro (1-4)	Small (5-99)	Medium (100-499)	Large (500+)
Management, scientific & technical consulting services	28	15	12	0	0
Waste collection	7	1	4	0	0
Waste treatment & disposal	7	2	10	0	0
Remediation & other waste management services	11	7	5	0	0
Total Employers	53	25	31	0	0

Figure 9. Business size, Niagara, December 2023ⁱⁱ



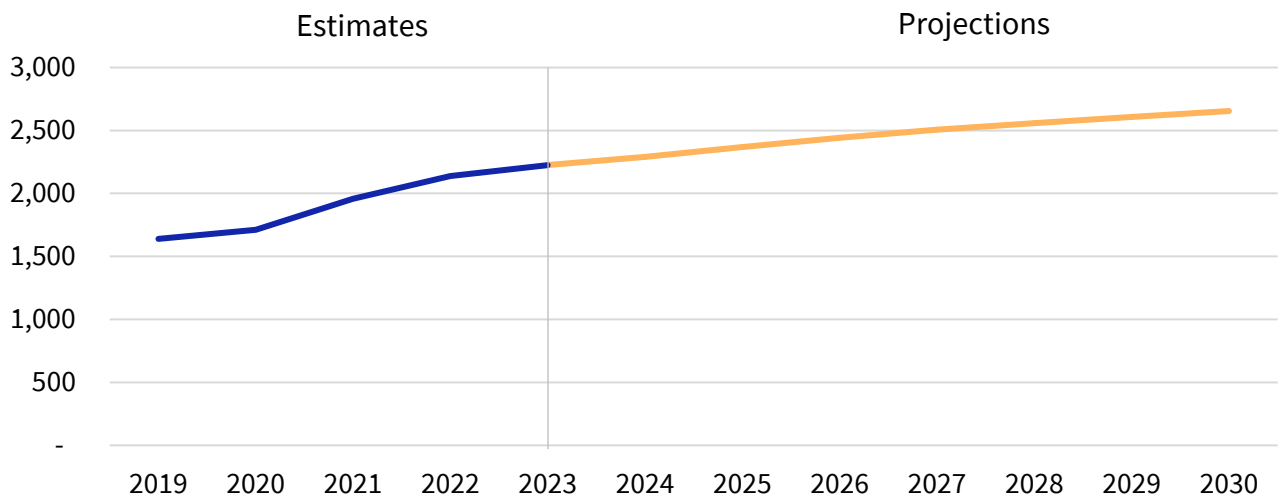
Job Counts

In Table 8 we see the estimated number of jobs between 2019 and 2023, and the projected number of jobs and estimated growth between 2023 and 2030. Between 2019 and 2023 there was an estimated growth of 35.8% in the number of jobs. There is projected to be an additional 19.3% growth in jobs between 2023 and 2030 (see Figure 10)³.

Table 8. Job Counts, 2019 - 2023 and 2023 - 2030 Projected Change, Niagaraⁱⁱⁱ

Industry (4-digit NAICS)	2019 Jobs	2023 Jobs	2030 Jobs	Avg. Wages (2023)	National LQ	% Change 2019-23	% Change 2023-30
Management, scientific & technical consulting services	752	951	1,047	\$96,261	0.7	26.4%	10.1%
Waste collection	359	352	399	\$66,318	1.6	-2.0%	13.3%
Waste treatment & disposal	177	308	405	\$85,558	1.7	74.2%	31.7%
Remediation & other waste management services	352	616	804	\$53,798	2.7	75.0%	30.6%

Figure 10. Job Change, 2019-2023 and 2023-2030 Projected Change, Niagaraⁱⁱⁱ



³ Note that percentage changes are large given the smaller size of the industries.

Job Demand

Insights from Workforce Collective’s job aggregation tool highlight the number of new jobs that were posted throughout 2024 (see Figure 11). Table 9 highlights the top positions that were posted throughout the year.

Figure 11. New monthly job posts, Niagara, 2024^{iv}

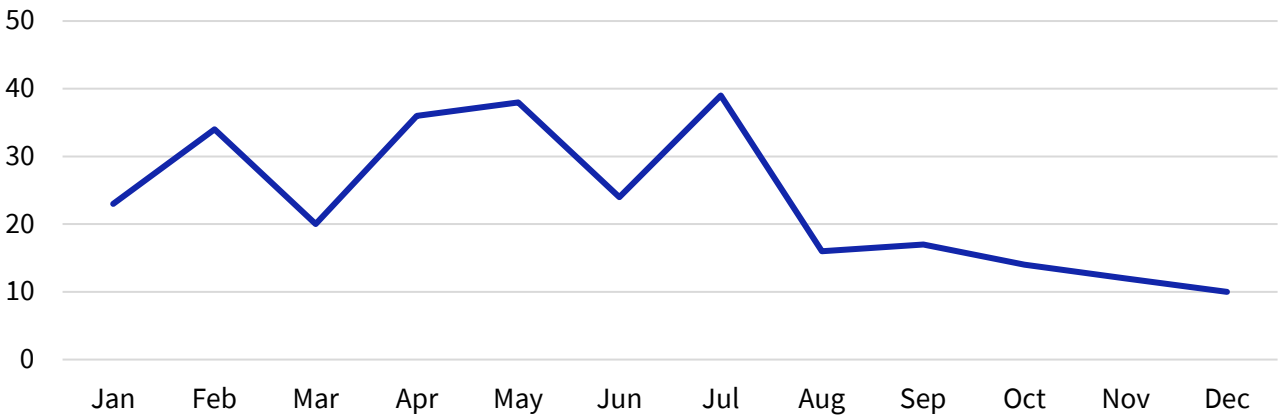


Table 9. Top in-demand Occupations, 2024^{iv}

Occupation	Count job Posts
Transport truck drivers	32
Automotive service technicians, truck & bus mechanics & mechanical repairers	19
Material handlers	13
Machine operators of other metal products	11

ⁱ Workforce WindsorEssex (2024) The Green Economy in Windsor-Essex. Available [here](#).

ⁱⁱ Canada Business Counts, December 2023, data provided by Niagara Region Economic Development; analysis conducted by WFC

ⁱⁱⁱ Lightcast 2024.3 run, employees. Access to Lightcast is supported through the Ministry of Agriculture, Food and Rural Affairs (OMAFRA). The views expressed in this report do not necessarily reflect those of OMAFRA.

^{iv} Workforce Collective job demand aggregation tool. New job posts between January 1-December 31, 2024.

^v 2023 Niagara Employer Inventory, data provided by Niagara Region Economic Development, analysis conducted by WFC