

To: Community and Operations Services Committee

From: Kevin Alexander, Commissioner,  
Community and Operations Services Department

Report Number: CO-23-66

Date of Report: November 29, 2023

Date of Meeting: December 4, 2023

Subject: Update on Electric Vehicle (EV) charging stations in Downtown Oshawa

Ward: Ward 4

File: 03-05

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## **1.0 Purpose**

The purpose of this report is to respond to Council direction CS-22-41 from its April 25, 2022 meeting and associated Correspondence, dated April 6, 2022 from the OPUC (now Oshawa Power):

“That Community Services staff provide a report to the Community Services Committee in the 4th Quarter 2023 on the results of this initiative addressing such matters as the amount of use of the electric vehicle charging spaces, a cost/benefit analysis and any enforcement concerns/complaints and that the report include input from the OPUC and affected downtown property owners, residents and businesses near the spaces.”

Attachment 1 is a map of the Electric Vehicle charging stations.

Attachment 2 is a copy of monthly usage reports from the vendors.

## **2.0 Recommendation**

That the Community and Operations Services Committee recommend to City Council:

1. That Report CO-23-66 concerning the Update on Electric Vehicle (EV) charging stations in Downtown Oshawa, dated November 29 2023, that staff continue to collaborate with Oshawa Power on the operation and enforcement of the EV charging stations in Downtown Oshawa; and,
2. That staff report back on the usage data and cost analysis results 12 months after Oshawa Power begins collecting revenue at the EV charging stations in Downtown Oshawa; and,

3. That staff work with Corporate Communications and Business and Economic Development Services to promote the EV charging station program in 2024.

### **3.0 Executive Summary**

Not applicable.

### **4.0 Input From Other Sources**

- Business and Economic Development Services
- Corporate Communications
- Municipal Law Enforcement and Licensing Services (M.L.E.L.S.)
- Facilities Management Services
- Oshawa Power (O.P.U.C.)

### **5.0 Analysis**

#### **5.1 Locations of Electric Vehicle Charging Stations**

The collaboration project between the City of Oshawa and Oshawa Power to install Electric Vehicle (EV) charging stations in Downtown Oshawa as part of the Zero-Emission Vehicle Infrastructure Program (ZEVIP) from the Department of Natural Resources Canada was completed in 2022.

The EV charging stations were installed in on-street parking spaces at the following locations:

- 2 parking spaces on King Street, north side, west of Prince Street (across from the Michael Starr Building)
- 2 parking spaces on King Street, south side, west of Albert Street (in front of the Regent Theatre)
- 2 parking spaces on Simcoe Street, west side, north of Metcalfe Street (in front of the Oshawa Power Building)
- 2 parking spaces on Bond Street West, south side, east of Simcoe Street (across the street from Municipal Parking Lot #20 and the future downtown park)
- 1 parking space on Bruce Street, north side, west of Charles Street (adjacent to the Tribute Communities Centre)
- 1 parking space on Charles Street, east side, south of Athol Street (adjacent to the Tribute Communities Centre)

Please note the EV charging station location on Charles Street was damaged and is currently in a state of repair by Oshawa Power.

A map of the EV charging stations is appended as Attachment 1.

## 5.2 Electric Vehicle Usage Statistics

Oshawa Power has two vendors that operate the EV charging stations, ChargePoint Inc. and HyperCharge Networks Corporation. HyperCharge Networks Corporation operates all the EV charging stations with the exception of one location on Bruce Street, which is operated by ChargePoint Inc.

The EV charging stations usage statistics are collected by Oshawa Power on a monthly basis. Usage report data indicates that holidays, weekends and months with winter weather conditions had the fewest charging sessions by customers. Weekdays 7 a.m. to 7 p.m. was the most common time for charging sessions by customers and the average charging durations ranged from two to four hours per session. A copy of monthly usage reports from both vendors are appended as Attachment 2.

Table 1 shows the EV charging station locations with most charging sessions completed to least charging sessions completed. Table 2 shows the EV charging station locations with most charging duration to least charging duration along with total energy consumption in Kilowatt Hour (kWh). Usage data was evaluated from November 2022 to August 2023. Statistics were not collected from the damaged EV charging station on Charles Street.

**Table 1 – Electric Vehicle Charging Session Data**

<b>Rank of Charging Sessions (highest to lowest)</b>	<b>Site Address</b>	<b>Location Detail</b>	<b># of Charging Sessions Completed</b>
1	45 King Street East	King Street, south side, west of Albert Street (in front of the Regent Theatre)	704
2	3 Bond Street West	Bond Street W, south side, east of Simcoe Street (across the street from Municipal Parking Lot #20 and the future downtown park)	322
3	105 Bruce Street	Bruce Street, north side, west of Charles Street (adjacent to the Tribute Communities Centre)	285

Rank of Charging Sessions (highest to lowest)	Site Address	Location Detail	# of Charging Sessions Completed
4	100 Simcoe Street South	Simcoe Street, west side, north of Metcalfe Street (in front of the Oshawa Power Building)	280
5	40 King St West	King Street, north side, west of Prince Street (across from the Michael Starr Building)	232
* Charging session data was collected from November 2022 to August 2023			

**Table 2 – Electric Vehicle Charging Duration and Energy Consumption Data**

Rank of Charging Duration (highest to lowest)	Site Address	Location Detail	Total Charging Duration (Days, Hours, Minutes)	Total Energy (kWh)
1	45 King Street East	King Street, south side, west of Albert Street (in front of the Regent Theatre)	63 Days 18 Hours 40 Minutes	5827 kWh
2	3 Bond Street West	Bond Street W, south side, east of Simcoe Street (across the street from Municipal Parking Lot #20 and the future downtown park)	44 Days 21 Hours 3 Minutes	4345 kWh

Rank of Charging Duration (highest to lowest)	Site Address	Location Detail	Total Charging Duration (Days, Hours, Minutes)	Total Energy (kWh)
3	100 Simcoe Street South	Simcoe Street, west side, north of Metcalfe Street (in front of the Oshawa Power Building)	37 Days 22 Hours 54 Minutes	2849 kWh
4	105 Bruce Street	Bruce Street, north side, west of Charles Street (adjacent to the Tribute Communities Centre)	32 Days 18 Hours 36 Minutes	*No Energy Data provided from Vendor*
5	40 King St West	King Street, north side, west of Prince Street (across from the Michael Starr Building)	27 Days 3 Hours 58 Minutes	3033 kWh
* Charging duration data was collected from November 2022 to August 2023				

### 5.3 Cost Analysis

Oshawa Power has not commenced collecting revenue from customers for electricity charging costs at any of the locations in Downtown Oshawa and have advised that they would like to introduce pricing in 2024. In advance of Oshawa Power charging for electricity, staff will work with Oshawa Power, Corporate Communications and Business and Economic Development Services to communicate the change in practice.

Cost analysis results will be prepared 12 months after Oshawa Power begins collecting revenue at the EV charging stations in Downtown Oshawa.

### 5.4 Municipal Law Enforcement & Licensing Services

Electric Vehicles parked at the charging stations are required to pay for on-street parking fees and must be actively charging. The downtown paid parking maximum time limit is 2 Hours between 8 a.m. – 6 p.m. Monday – Friday and 3 hours maximum at all other times.

Municipal Law Enforcement and Licensing Services (M.L.E.L.S.) currently enforce the on-street parking time limits and parking fees at the EV charging parking spaces. M.L.E.L.S. staff reported no issues in regards to the Enforcement of EV charging parking spaces.

### **5.5 Downtown Residents, Businesses, and Property Owners**

In consultation with Business and Economic Development Services, most businesses like having electric charging stations available in the downtown (on-street & in parking garages). Businesses noted that if the Oshawa Centre provides EV charging stations, the downtown must also offer this parking option to be a competitive shopping/dining district. In blocks with newly expanded sidewalks, the majority of businesses are of the opinion that there is already a shortage of regular on-street parking, so having two EV charging station parking spots is not ideal. They would prefer to have only one spot or none in these blocks. Businesses noted they do not know a lot about the charging stations, and do not promote it to their customers. Staff will work with Corporate Communications and Business and Economic Development Services to promote the program to downtown businesses in 2024, and also to downtown customers.

It should be noted that the City undertook a separate EV charger initiative as part of the 2022 and 2023 capital budget. Expansion of this initiative will be explored as part of future capital budget considerations.

### **6.0 Financial Implications**

There are no financial implications associated with the recommendations of this report.

### **7.0 Relationship to the Oshawa Strategic Plan**

This Report addresses the Oshawa Strategic Plan Goal of Social Equity.

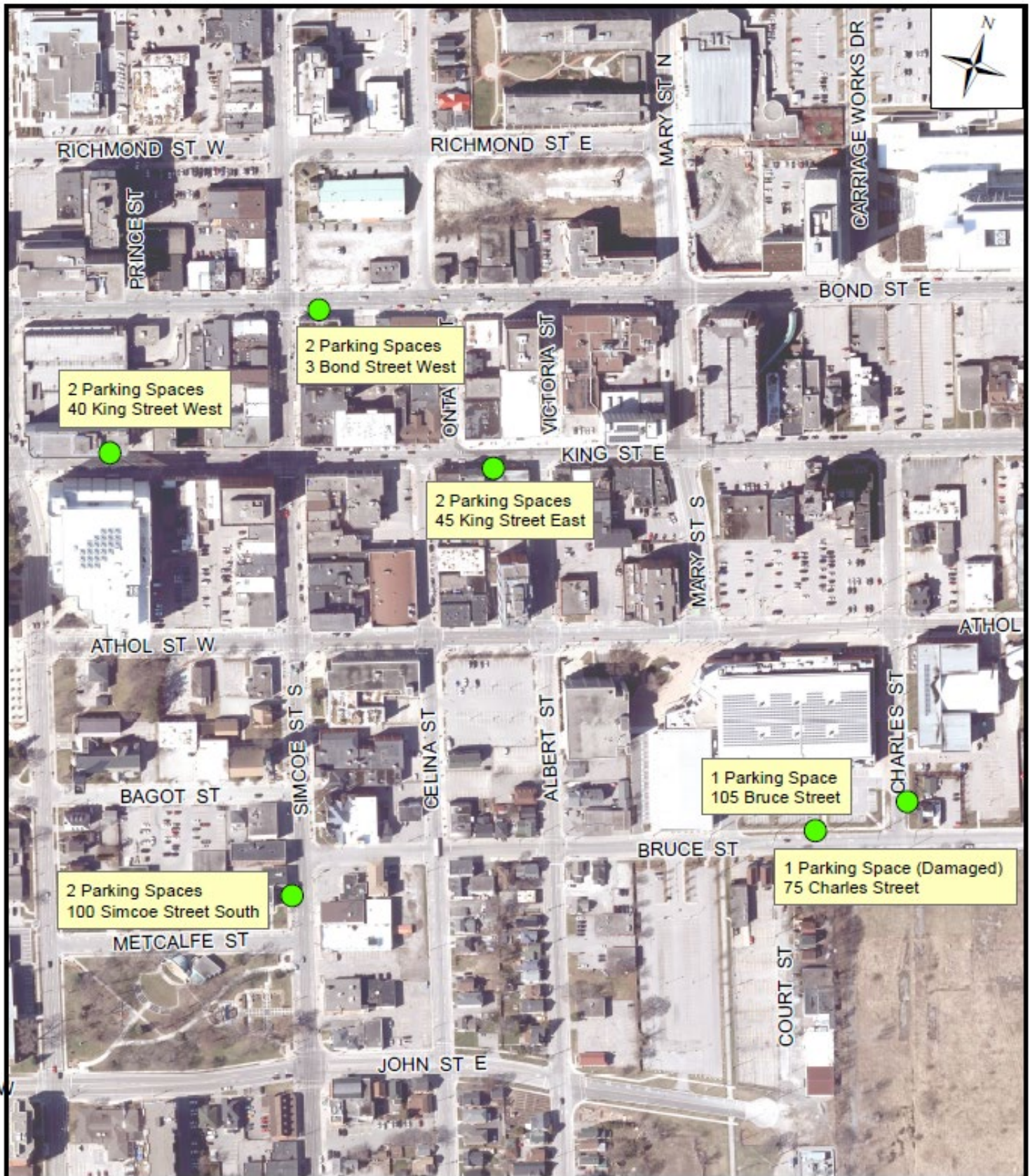


Beth Mullen, Director,  
Community Support Services



Kevin Alexander, Commissioner,  
Community and Operations Services Department





- Electric Vehicle (EV) Charging Station

Item: CO-23-66  
Attachment 1

CITY OF OSHAWA  
COMMUNITY & OPERATIONS SERVICES  
ELECTRIC VEHICLE CHARGING STATIONS  
DOWNTOWN OSHAWA

DATE: 12 04 2023

SCALE: NTS



Hypercharge Networks Corp  
208-1075 West 1st St  
North Vancouver BC V7P 3T4

## November 2022 Utilization Report

Nov 1 12:00am to Dec 1 12:00am (UTC-7)

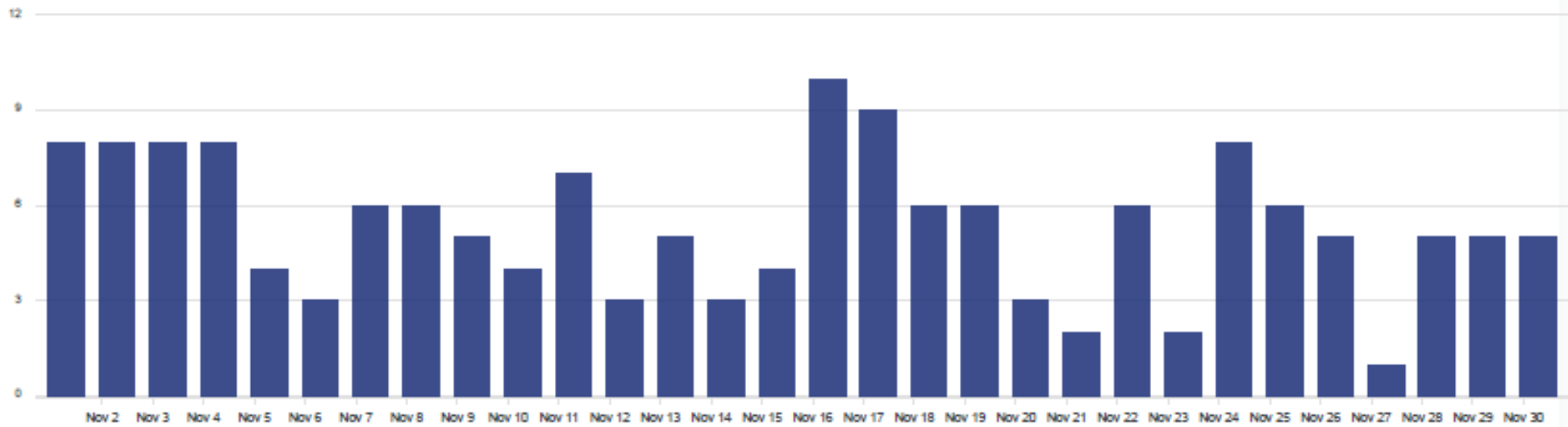
### Oshawa Power

This is a summary of EV charger usage at your sites.

Oshawa Power - 100 Simcoe St S	1007416	2	2022-03-22	7	2h 2m	14h 15m	42	0.00
Oshawa Power - 100 Simcoe St S	1008416	2	2022-03-22	10	3h 33m	1d 11h	0	0.00
Oshawa Power - 3 Bond Street E	1021416	2	2022-03-23	19	48m 6s	15h 14m	50	0.00
Oshawa Power - 3 Bond Street E	1022416	2	2022-03-22	10	6h 57m	2d 21h	233	0.00
Oshawa Power - 40 King St W	1027416	2	2022-04-30	15	4h 26m	2d 18h	313	0.00
Oshawa Power - 40 King St W	1028416	2	2022-04-30	28	6h 11m	7d 5h	728	0.00
Oshawa Power - 45 King St E	1013416	2	2022-03-22	21	3h 33m	3d 2h	432	0.00
Oshawa Power - 45 King St E	1014416	2	2022-03-22	51	1h 50m	3d 21h	378	0.00
Oshawa Power - 45 King St E	2866	2	2023-10-27	0	0s	0s	0	0.00
Total				161	3h 22m	22d 15h	2177	0.00



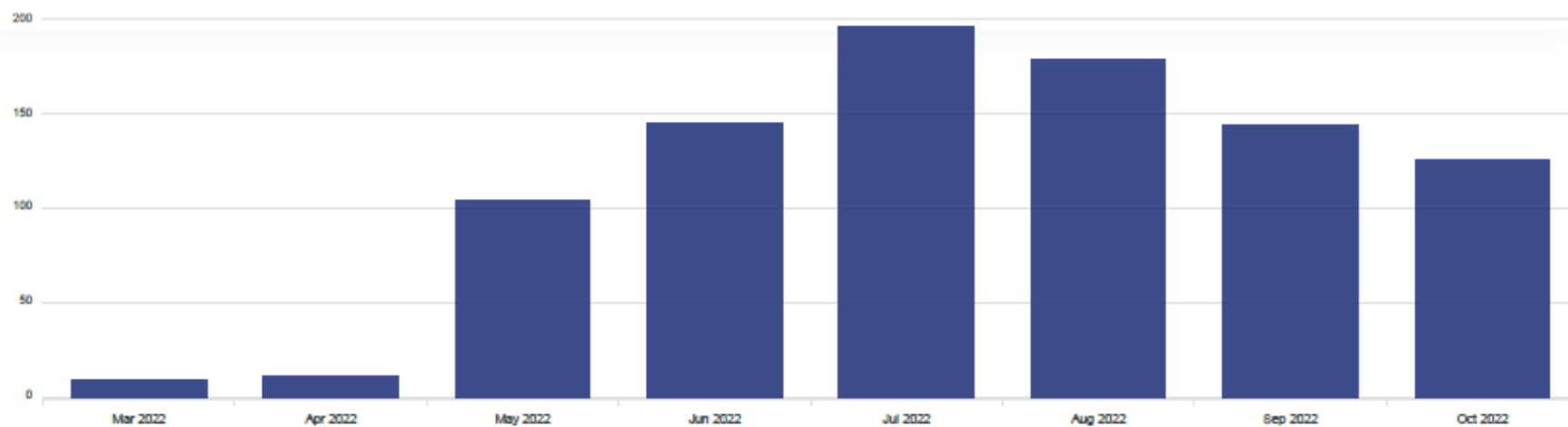
Session count by day



Session count by day of week and time of day

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2am		1	2	2	3	1
3am	1	2	6	3	3	4
4am	1	3	3	8	4	6
5am	1		1	3	1	2
6am		6	4	3	3	1
7am		1	1		2	
8am	2			1		1
9am	2		1			1
10am			1			2
11am	1		2	3	4	2
12pm	3	3	2	2	3	6
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2pm						
3pm						
4pm						
5pm					1	
6pm						
7pm		1	1	1		
8pm	1	2	1	1	1	
9pm		2		2		2
10pm						
11pm		1		1		1
Sunday						
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Session count by month





## December 2022 Utilization Report

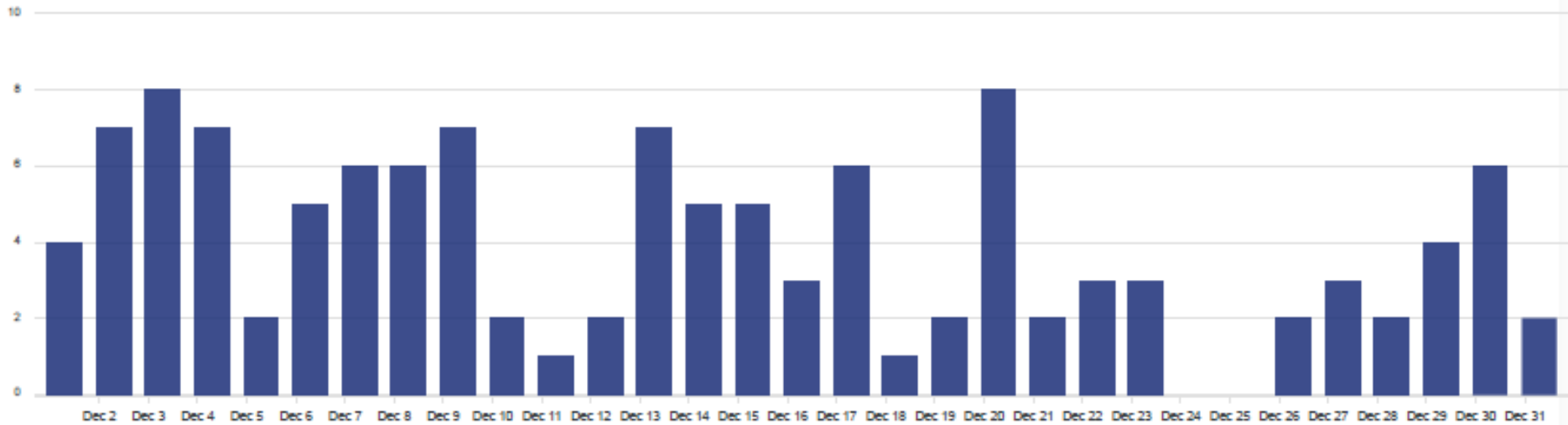
Dec 1 12:00am to Jan 1 12:00am (UTC-7)

### Oshawa Power

This is a summary of EV charger usage at your sites.

SITE	STATION	LEVEL	COMMISSIONED	SESSIONS	AVERAGE DURATION	TOTAL DURATION	TOTAL ENERGY (KWH)	REVENUE (CAD)
Oshawa Power - 100 Simcoe St S	1007416	2	2022-03-22	5	41m 51s	3h 29m	22	0.00
Oshawa Power - 100 Simcoe St S	1008416	2	2022-03-22	10	4h 10m	1d 17h	101	0.00
Oshawa Power - 3 Bond Street E	1021416	2	2022-03-23	9	58m 45s	8h 48m	39	0.00
Oshawa Power - 3 Bond Street E	1022416	2	2022-03-22	5	2h 19m	11h 36m	66	0.00
Oshawa Power - 40 King St W	1027416	2	2022-04-30	5	4h 14m	21h 14m	110	0.00
Oshawa Power - 40 King St W	1028416	2	2022-04-30	14	2h 30m	1d 11h	172	0.00
Oshawa Power - 45 King St E	1013416	2	2022-03-22	20	3h 55m	3d 6h	446	0.00
Oshawa Power - 45 King St E	1014416	2	2022-03-22	53	2h 6m	4d 16h	447	0.00
Oshawa Power - 45 King St E	2866	2	2023-10-27	0	0s	0s	0	0.00
Total				121	2h 35m	13d 38m	1404	0.00

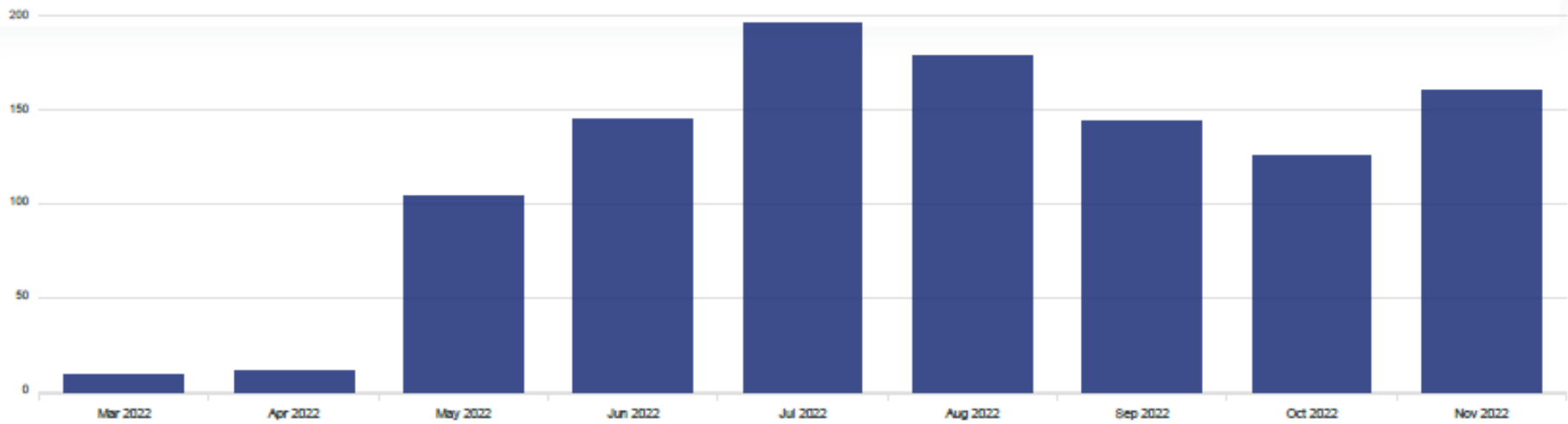
Session count by day



Session count by day of week and time of day

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7pm							
8pm							
9pm						1	
10pm	1		1				1
11pm							1
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Session count by month







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## January 2023 Utilization Report

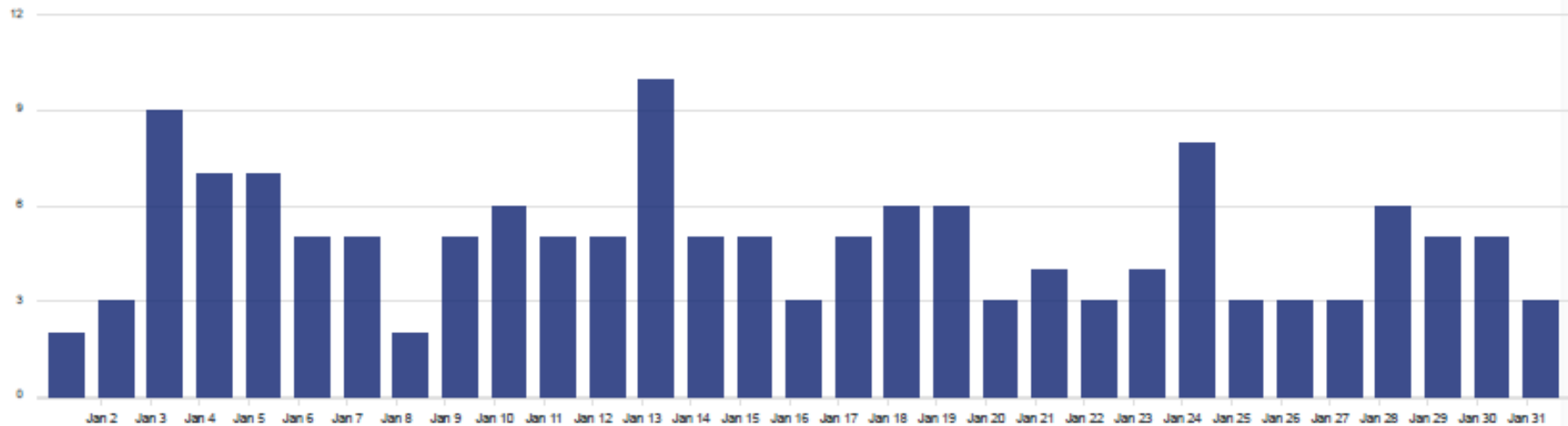
Jan 1 12:00am to Feb 1 12:00am (UTC-7)

### Oshawa Power

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SITE	STATION	LEVEL	COMMISSIONED	SESSIONS	AVERAGE DURATION	TOTAL DURATION	TOTAL ENERGY (KWH)	REVENUE (CAD)
Oshawa Power - 100 Simcoe St S	1007416	2	2022-03-22	1	29m 35s	29m 35s	3	0.00
Oshawa Power - 100 Simcoe St S	1008416	2	2022-03-22	9	5h 7s	1d 21h	188	0.00
Oshawa Power - 3 Bond Street E	1021416	2	2022-03-23	11	1h 31m	16h 42m	113	0.00
Oshawa Power - 3 Bond Street E	1022416	2	2022-03-22	28	2h 15m	2d 15h	418	0.00
Oshawa Power - 40 King St W	1027416	2	2022-04-30	7	2h 41m	18h 50m	97	0.00
Oshawa Power - 40 King St W	1028416	2	2022-04-30	10	2h 14m	22h 26m	148	0.00
Oshawa Power - 45 King St E	1013416	2	2022-03-22	12	3h 10m	1d 14h	247	0.00
Oshawa Power - 45 King St E	1014416	2	2022-03-22	73	1h 37m	4d 22h	514	0.00
Oshawa Power - 45 King St E	2866	2	2023-10-27	0	0s	0s	0	0.00
Total				151	2h 8m	13d 11h	1728	0.00

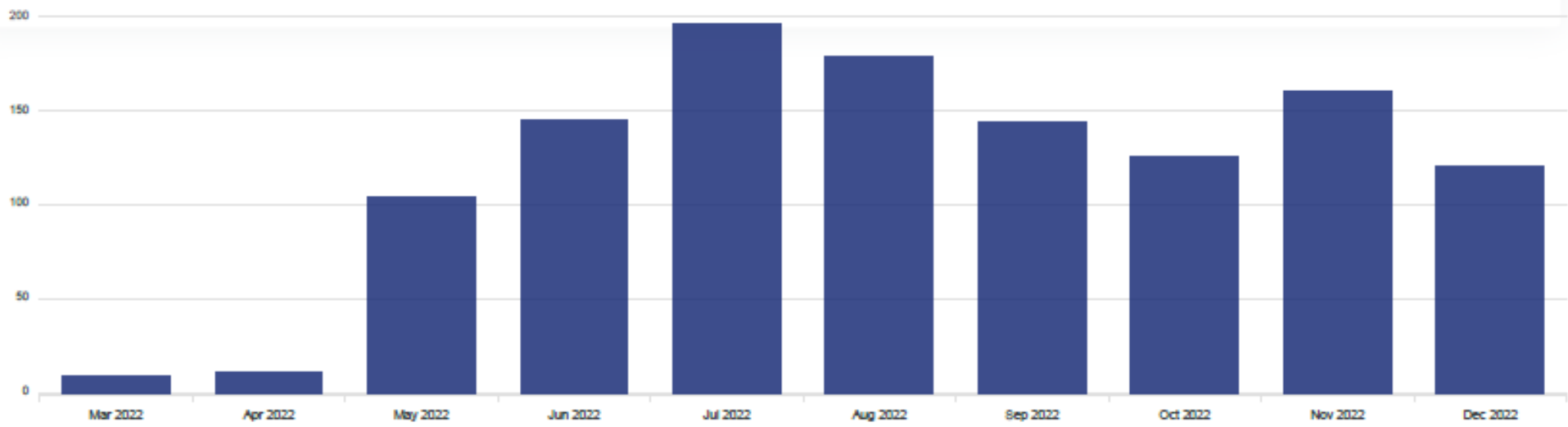
Session count by day



Session count by day of week and time of day

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8am	3	1	1		2	
9am	2	1	2			2
10am	1	3	3			3
11am		3	3	4	1	1
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2pm	1					
3pm		1	2			
4pm	1	1				
5pm						1
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8pm				1		
9pm						
10pm						
11pm			1			
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday

Session count by month





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North Vancouver BC V7P 3T4

## February 2023 Utilization Report

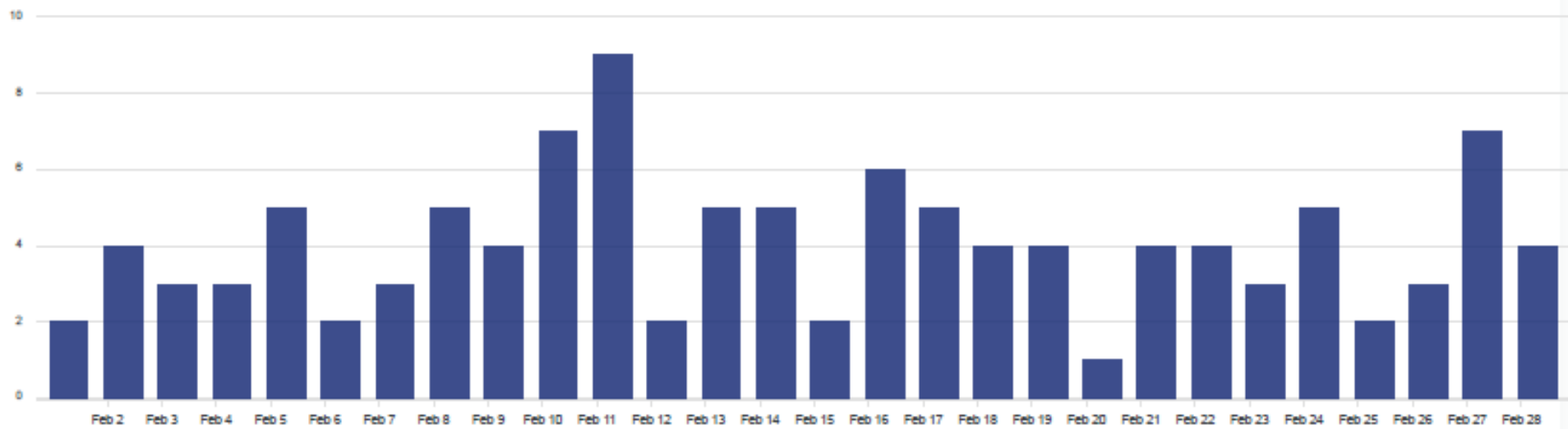
Feb 1 12:00am to Mar 1 12:00am (UTC-7)

### Oshawa Power

This is a summary of EV charger usage at your sites.

SITE	STATION	LEVEL	COMMISSIONED	SESSIONS	AVERAGE DURATION	TOTAL DURATION	TOTAL ENERGY (KWH)	REVENUE (CAD)
Oshawa Power - 100 Simcoe St S	1007416	2	2022-03-22	2	1h 35m	3h 10m	14	0.00
Oshawa Power - 100 Simcoe St S	1008416	2	2022-03-22	8	5h 6m	1d 16h	183	0.00
Oshawa Power - 3 Bond Street E	1021416	2	2022-03-23	14	1h 15m	17h 31m	118	0.50
Oshawa Power - 3 Bond Street E	1022416	2	2022-03-22	13	1h 59m	1d 1h	137	0.00
Oshawa Power - 40 King St W	1027416	2	2022-04-30	5	2h 26m	12h 13m	48	0.00
Oshawa Power - 40 King St W	1028416	2	2022-04-30	8	1h 8m	9h 4m	71	0.00
Oshawa Power - 45 King St E	1013416	2	2022-03-22	4	3h 45m	15h 2m	72	0.00
Oshawa Power - 45 King St E	1014416	2	2022-03-22	59	2h 15m	5d 13h	491	0.00
Oshawa Power - 45 King St E	2866	2	2023-10-27	0	0s	0s	0	0.00
Total				113	2h 16m	10d 17h	1134	0.50

Session count by day

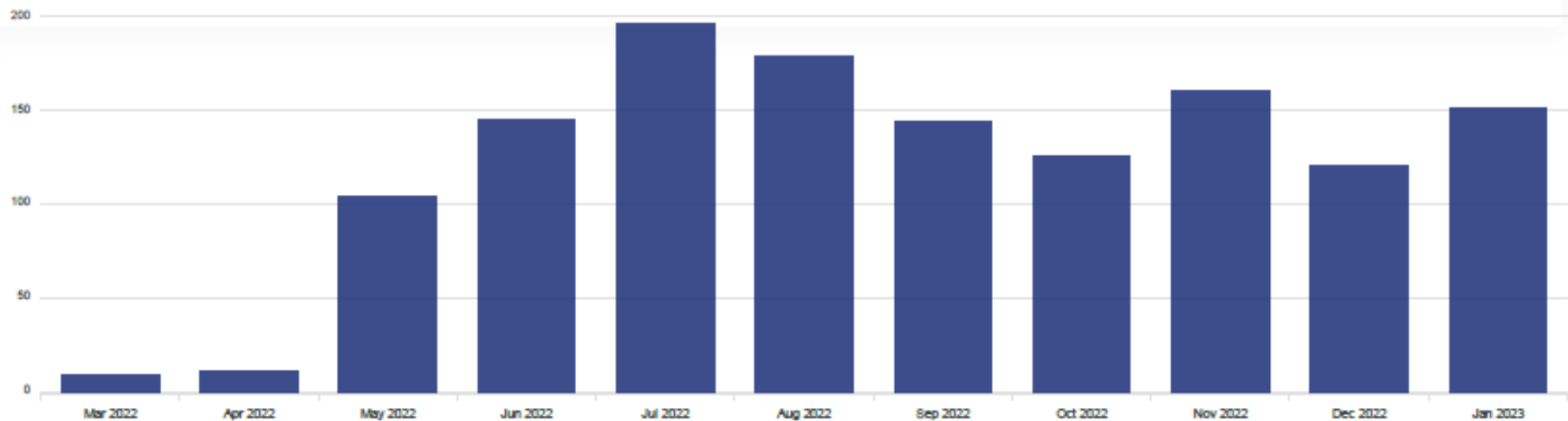


Session count by day of week and time of day

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7am	2	2			1	1
8am	1	1			2	
9am	1	1	1	2	1	1
10am	1	1	1			2
11am	3	2	2	3	1	2
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11pm			1			1
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday



Session count by month





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North Vancouver BC V7P 3T4

## March 2023 Utilization Report

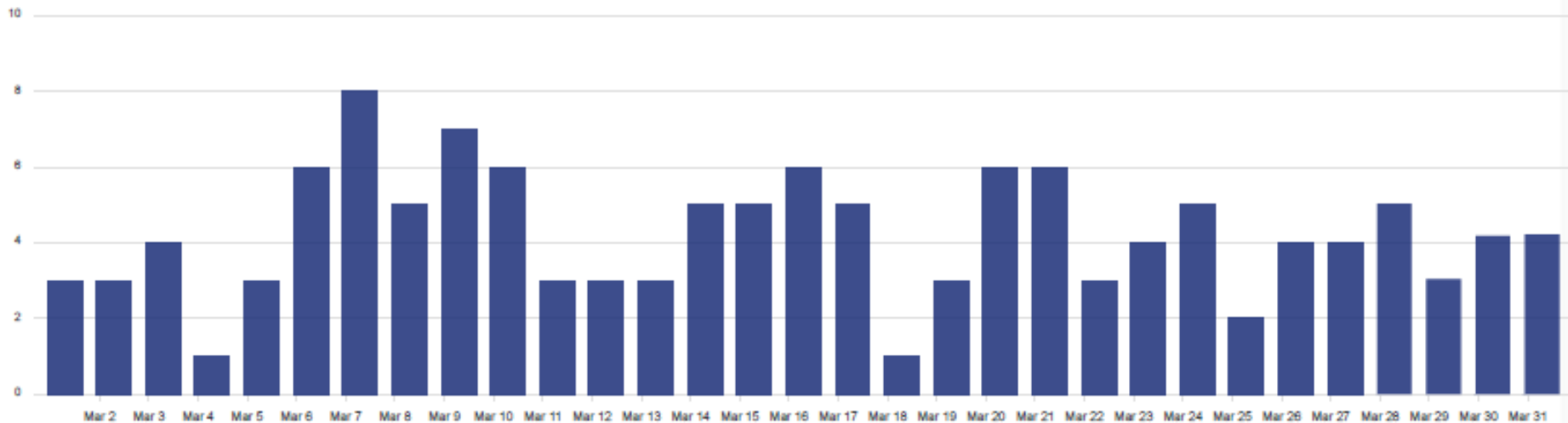
Mar 1 12:00am to Apr 1 12:00am (UTC-7)

### Oshawa Power

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SITE	STATION	LEVEL	COMMISSIONED	SESSIONS	AVERAGE DURATION	TOTAL DURATION	TOTAL ENERGY (KWH)	REVENUE (CAD)
Oshawa Power - 100 Simcoe St S	1007416	2	2022-03-22	6	1h 55m	11h 34m	71	0.00
Oshawa Power - 100 Simcoe St S	1008416	2	2022-03-22	20	5h 40m	4d 17h	412	0.00
Oshawa Power - 3 Bond Street E	1021416	2	2022-03-23	10	1h 13m	12h 12m	74	0.00
Oshawa Power - 3 Bond Street E	1022416	2	2022-03-22	11	2h 15m	1d 47m	166	0.00
Oshawa Power - 40 King St W	1027416	2	2022-04-30	6	2h 19m	13h 57m	64	0.00
Oshawa Power - 40 King St W	1028416	2	2022-04-30	6	1h 40m	10h 19s	35	0.00
Oshawa Power - 45 King St E	1014416	2	2022-03-22	71	1h 53m	5d 14h	558	0.00
Oshawa Power - 45 King St E	2866	2	2023-10-27	0	0s	0s	0	0.00
Total				130	2h 27m	13d 8h	1381	0.00

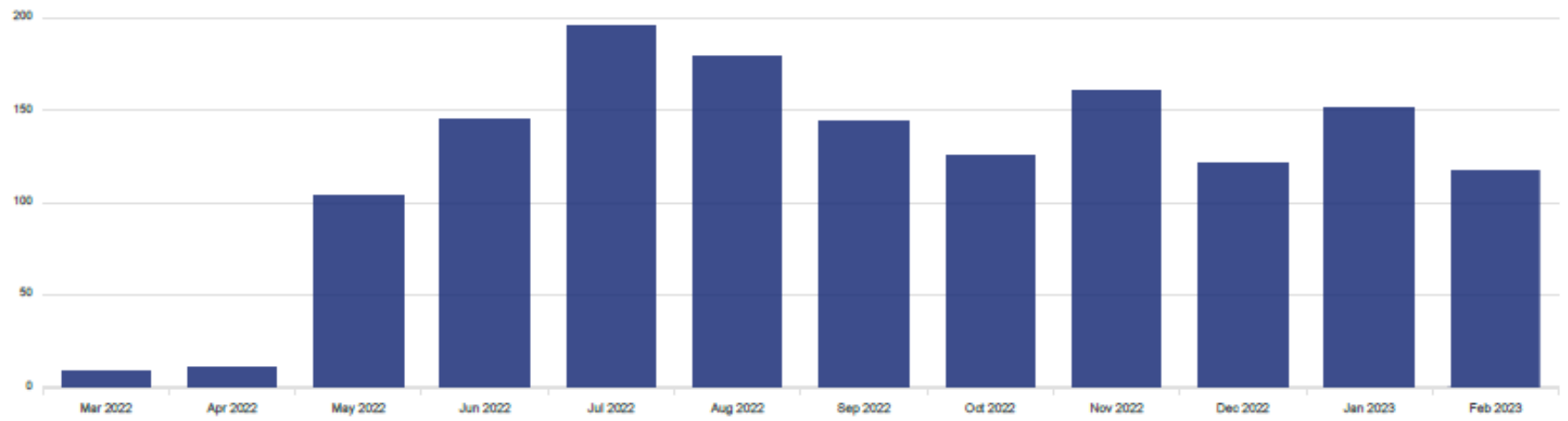
Session count by day



Session count by day of week and time of day

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4am	2	4	6	1	2	3
5am	1	3		4	4	3
6am	1	1	2	2	2	
7am				1	2	2
8am	1	1	2		3	1
9am	1	1		1	1	1
10am		1	3	1	1	
11am	2	2	1	3	2	4
12pm	1	1	3	2	1	1
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2pm						
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8pm						1
9pm						
10pm						
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Session count by month





Hypercharge Networks Corp  
208-1075 West 1st St  
North Vancouver BC V7P 3T4

## April 2023 Utilization Report

Apr 1 12:00am to May 1 12:00am (UTC-7)

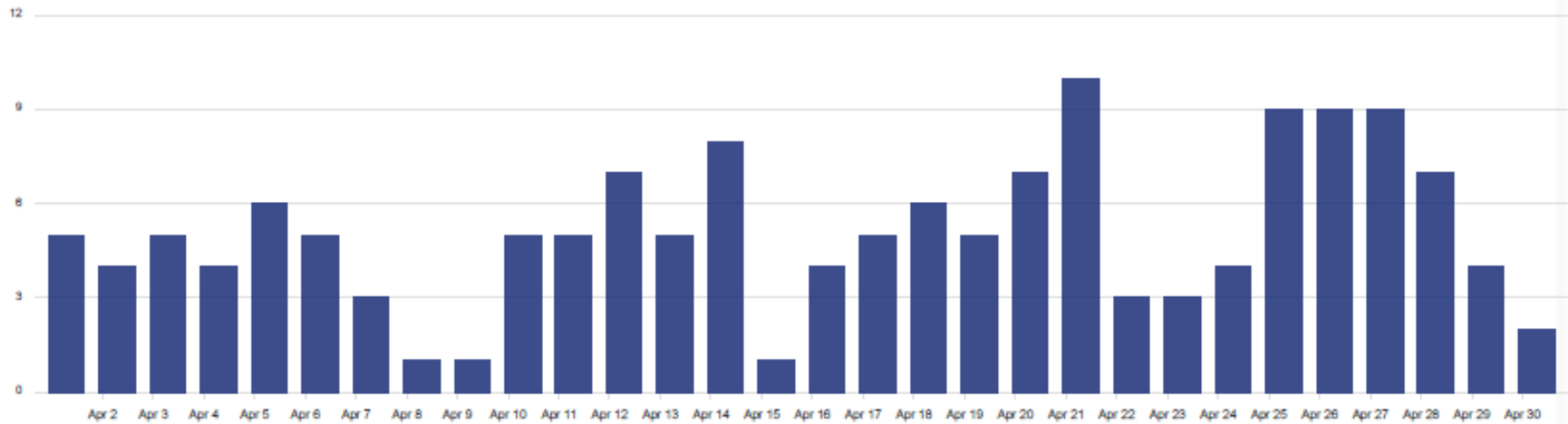
### Oshawa Power

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SITE	STATION	LEVEL	COMMISSIONED	SESSIONS	AVERAGE DURATION	TOTAL DURATION	TOTAL ENERGY (KWH)	REVENUE (CAD)
Oshawa Power - 100 Simcoe St S	1007416	2	2022-03-22	11	2h 15m	1d 54m	64	0.00
Oshawa Power - 100 Simcoe St S	1008416	2	2022-03-22	19	5h 9m	4d 2h	0	0.00
Oshawa Power - 3 Bond Street E	1021416	2	2022-03-23	23	1h 51m	1d 18h	230	0.00
Oshawa Power - 3 Bond Street E	1022416	2	2022-03-22	15	5h 39m	3d 12h	280	0.00
Oshawa Power - 40 King St W	1027416	2	2022-04-30	8	2h 31m	20h 11m	60	0.00
Oshawa Power - 40 King St W	1028416	2	2022-04-30	10	1h 33m	15h 30m	77	0.00
Oshawa Power - 45 King St E	1014416	2	2022-03-22	66	2h 27m	6d 17h	508	0.00
Oshawa Power - 45 King St E	2866	2	2023-10-27	0	0s	0s	0	0.00
Total				152	2h 56m	18d 16h	1218	0.00



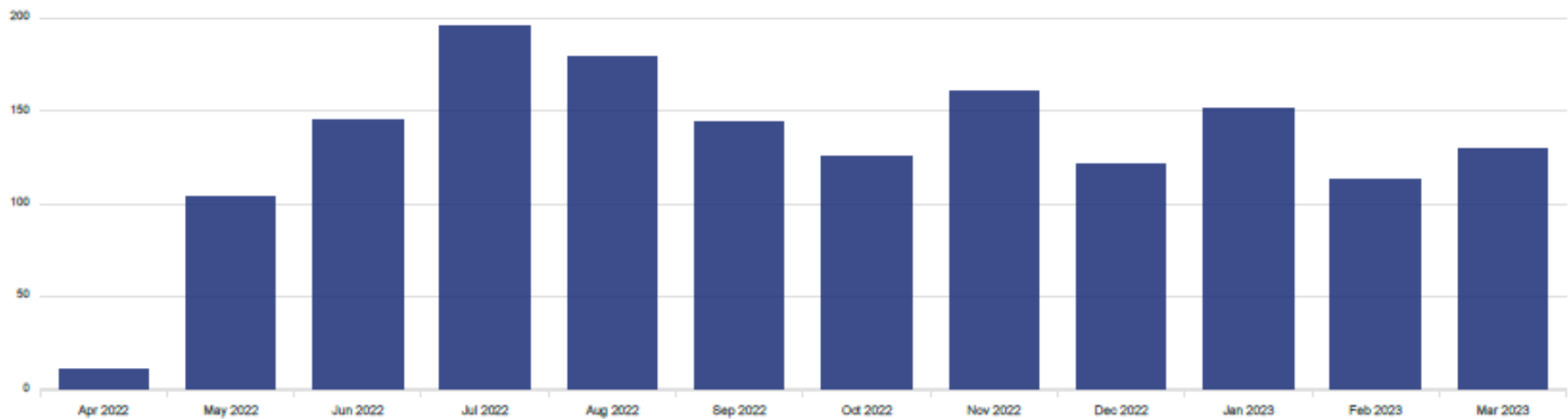
Session count by day



Session count by day of week and time of day

	0 - 1	1 - 2	2 - 3	3 - 4	4 - 5	5 - 6	
12am	2	4	5	3	5	6	
1am		1	3	1	1	2	1
2am	1	1		6		4	
3am		4	5	2	5	2	2
4am	2	1	1	2	2	4	1
5am	1	3	5	5	1		2
6am	2	3	1	1	4	1	2
7am	1			1	1	1	
8am	1						1
9am							
10am	2	2	3	3	2	2	
11am	2			1	3	2	4
12pm				1			
1pm							
2pm							
3pm							
4pm							
5pm							
6pm							
7pm							
8pm							
9pm							
10pm					2		
11pm		1	1	2	2	1	
Sunday							
Monday							
Tuesday							
Wednesday							
Thursday							
Friday							
Saturday							

Session count by month





Hypercharge Networks Corp  
208-1075 West 1st St  
North Vancouver BC V7P 3T4

## May 2023 Utilization Report

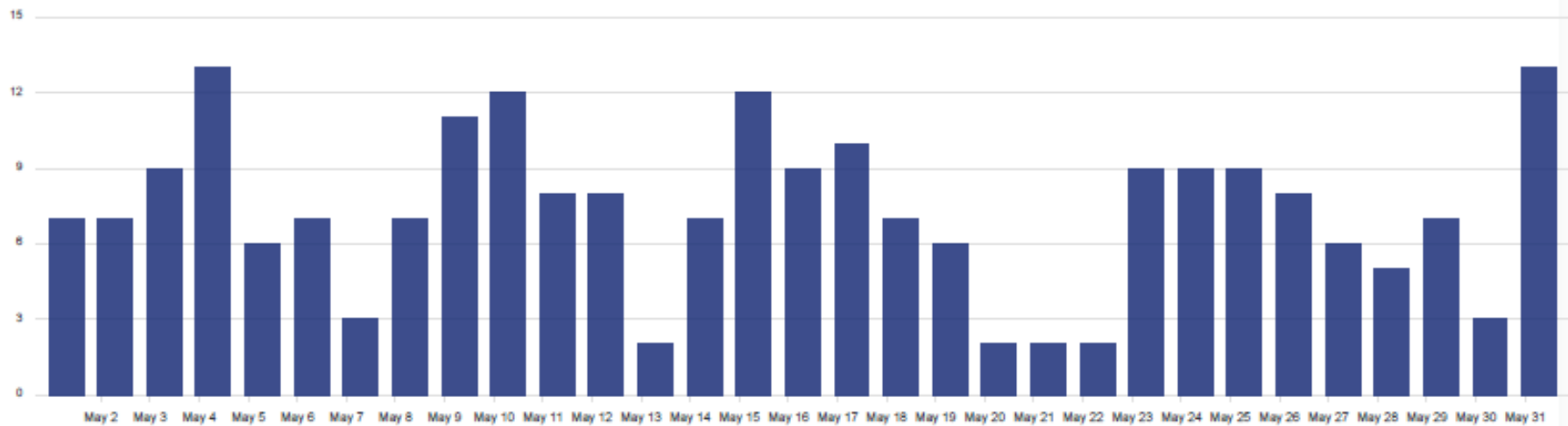
May 1 12:00am to Jun 1 12:00am (UTC-7)

### Oshawa Power

This is a summary of EV charger usage at your sites.

SITE	STATION	LEVEL	COMMISSIONED	SESSIONS	AVERAGE DURATION	TOTAL DURATION	TOTAL ENERGY (KWH)	REVENUE (CAD)
Oshawa Power - 100 Simcoe St S	1007416	2	2022-03-22	27	2h 28m	2d 18h	184	0.00
Oshawa Power - 100 Simcoe St S	1008416	2	2022-03-22	18	4h 42m	3d 12h	308	0.00
Oshawa Power - 3 Bond Street E	1021416	2	2022-03-23	25	2h 44m	2d 20h	317	0.00
Oshawa Power - 3 Bond Street E	1022416	2	2022-03-22	22	5h 25m	4d 23h	400	0.00
Oshawa Power - 40 King St W	1027416	2	2022-04-30	15	1h 11m	17h 46m	92	0.00
Oshawa Power - 40 King St W	1028416	2	2022-04-30	9	1h 3m	9h 28m	41	0.00
Oshawa Power - 45 King St E	1013416	2	2022-03-22	35	2h 23m	3d 11h	277	0.00
Oshawa Power - 45 King St E	1014416	2	2022-03-22	75	2h 7m	6d 14h	560	0.00
Oshawa Power - 45 King St E	2866	2	2023-10-27	0	0s	0s	0	0.00
Total				226	2h 41m	25d 9h	2179	0.00

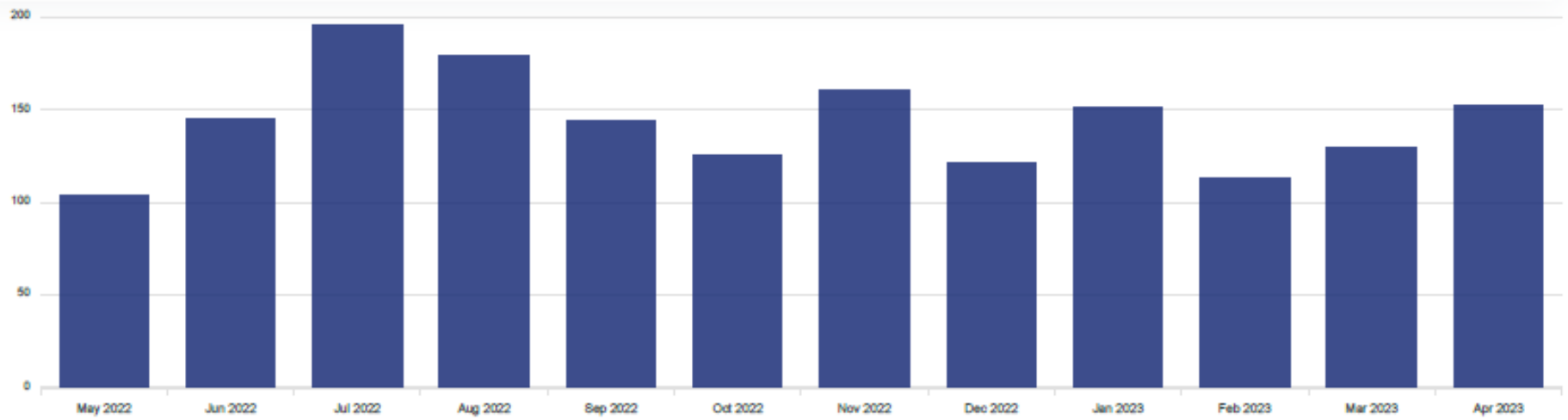
Session count by day



Session count by day of week and time of day

	0 - 1	1 - 2	2 - 3	3 - 4	4 - 5	5 - 6	6 - 7	7 - 8
12am	1	7	5	7	6	6	1	
1am	1	1	2	5	3	1		
2am		8	1	6	3		1	
3am	3	2	1	3	2	6		
4am	1	3	5	7	4		1	
5am	1	2	1	4	2	1	2	
6am		4	3	7	3	2	3	
7am	3		2		2		2	
8am	1		2	1	1	1	1	
9am	1	1			1	2		
10am	3	2	3	2	5	1	2	
11am	1	1	4	4	1	2	2	
12pm				1		2		
1pm								
2pm								
3pm			1					1
4pm								
5pm						1		
6pm								
7pm	1							
8pm			1		1			1
9pm			1					
10pm		2	1	1	1			
11pm	3	7	3	3	2			
Sunday								
Monday								
Tuesday								
Wednesday								
Thursday								
Friday								
Saturday								

Session count by month







Hypercharge Networks Corp  
208-1075 West 1st St  
North Vancouver BC V7P 3T4

## June 2023 Utilization Report

Jun 1 12:00am to Jul 1 12:00am (UTC-7)

### Oshawa Power

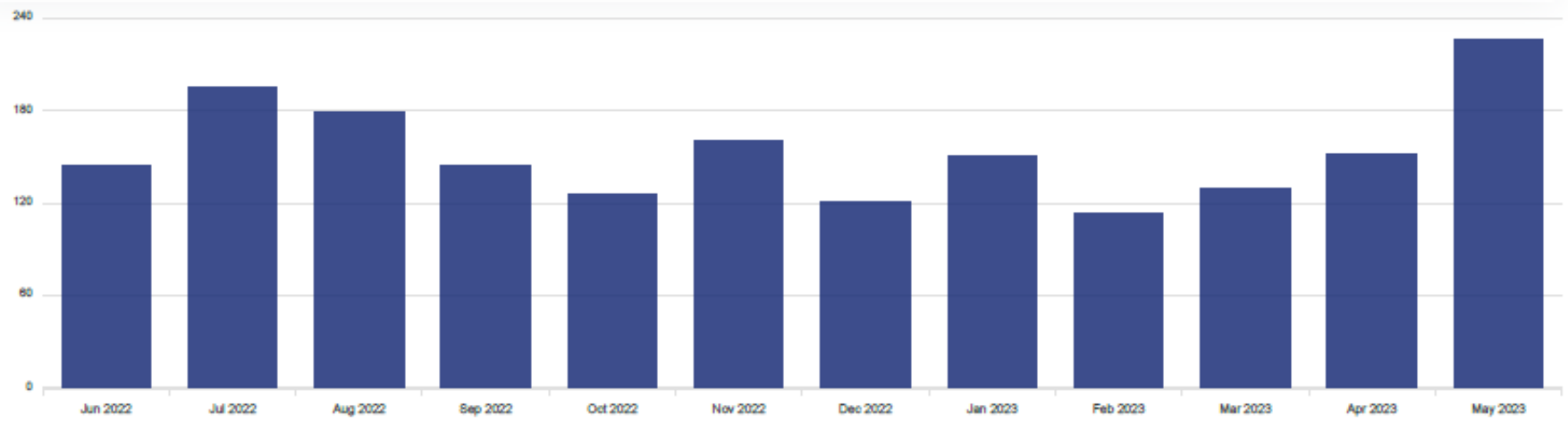
This is a summary of EV charger usage at your sites.

SITE	STATION	LEVEL	COMMISSIONED	SESSIONS	AVERAGE DURATION	TOTAL DURATION	TOTAL ENERGY (KWH)	REVENUE (CAD)
Oshawa Power - 100 Simcoe St S	1007416	2	2022-03-22	49	1h 53m	3d 20h	249	0.00
Oshawa Power - 100 Simcoe St S	1008416	2	2022-03-22	16	3h 36m	2d 9h	284	0.00
Oshawa Power - 3 Bond Street E	1021416	2	2022-03-23	25	2h 33m	2d 16h	316	0.00
Oshawa Power - 3 Bond Street E	1022416	2	2022-03-22	22	3h 57m	3d 14h	317	0.00
Oshawa Power - 40 King St W	1027416	2	2022-04-30	16	3h 13m	2d 3h	183	0.00
Oshawa Power - 40 King St W	1028416	2	2022-04-30	25	1h 48m	1d 21h	295	0.00
Oshawa Power - 45 King St E	1013416	2	2022-03-22	69	2h 20m	6d 17h	225	0.00
Oshawa Power - 45 King St E	1014416	2	2022-03-22	36	1h 52m	2d 19h	267	0.00
Oshawa Power - 45 King St E	2866	2	2023-10-27	0	0s	0s	0	0.00
Total				258	2h 25m	26d 3h	2136	0.00

Date	Number of Cases
Jun 1	13
Jun 2	9
Jun 3	7
Jun 4	5
Jun 5	10
Jun 6	8
Jun 7	10
Jun 8	10
Jun 9	9
Jun 10	4
Jun 11	2
Jun 12	6
Jun 13	8
Jun 14	10
Jun 15	10
Jun 16	13
Jun 17	6
Jun 18	5
Jun 19	7
Jun 20	11
Jun 21	13
Jun 22	11
Jun 23	18
Jun 24	8
Jun 25	2
Jun 26	7
Jun 27	11
Jun 28	11
Jun 29	6
Jun 30	9

		0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	
12am		5	6		4				5	10	1	
1am		3	4		5				3	7	2	
2am		1	1		4				2	3	1	
3am			2		1				2	5	1	
4am		3	7		6				6	3	3	
5am	1	7	2		5				9	7		
6am	3	3	1		3				3	3	2	
7am	1	1	3		2				2	1	3	
8am	2				1				1	4	3	
9am	1	2	1		4				3	4	2	
10am	1	1	4		1				1	1	2	
11am	4		3		4				5	7	4	
12pm		1							1	1		
1pm			1								1	
2pm												
3pm										1		
4pm												
5pm												
6pm												
7pm		1										
8pm					2							
9pm												
10pm			4		1						1	
11pm	3	2		4								
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday						

Session count by month





Hypercharge Networks Corp  
208-1075 West 1st St  
North Vancouver BC V7P 3T4

## July 2023 Utilization Report

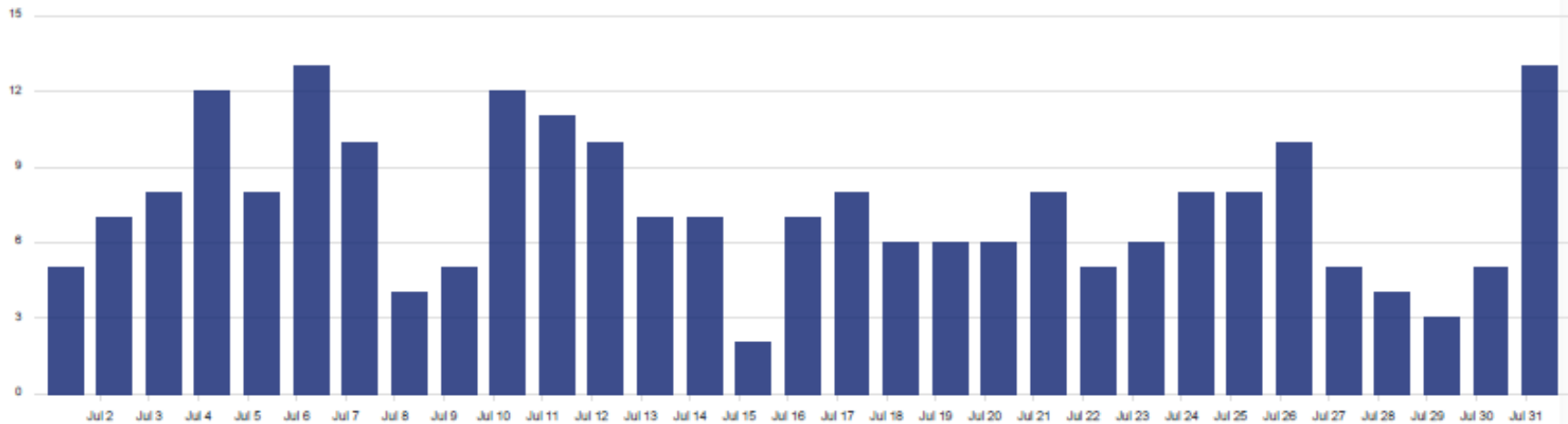
Jul 1 12:00am to Aug 1 12:00am (UTC-7)

### Oshawa Power

This is a summary of EV charger usage at your sites.

SITE	STATION	LEVEL	COMMISSIONED	SESSIONS	AVERAGE DURATION	TOTAL DURATION	TOTAL ENERGY (KWH)	REVENUE (CAD)
Oshawa Power - 100 Simcoe St S	1007416	2	2022-03-22	37	2h 23m	3d 16h	204	0.00
Oshawa Power - 100 Simcoe St S	1008416	2	2022-03-22	21	3h 46m	3d 7h	448	0.00
Oshawa Power - 3 Bond Street E	1021416	2	2022-03-23	32	4h 2m	5d 9h	515	0.00
Oshawa Power - 3 Bond Street E	1022416	2	2022-03-22	28	6h 15m	7d 7h	556	0.00
Oshawa Power - 40 King St W	1027416	2	2022-04-30	26	2h 42m	2d 22h	322	0.00
Oshawa Power - 40 King St W	1028416	2	2022-04-30	22	1h 52m	1d 17h	177	0.00
Oshawa Power - 45 King St E	1013416	2	2022-03-22	63	1h 54m	5d 40m	477	0.00
Oshawa Power - 45 King St E	1014416	2	2022-03-22	0	0s	0s	0	0.00
Oshawa Power - 45 King St E	2866	2	2023-10-27	0	0s	0s	0	0.00
Total				229	3h 4m	29d 8h	2698	0.00

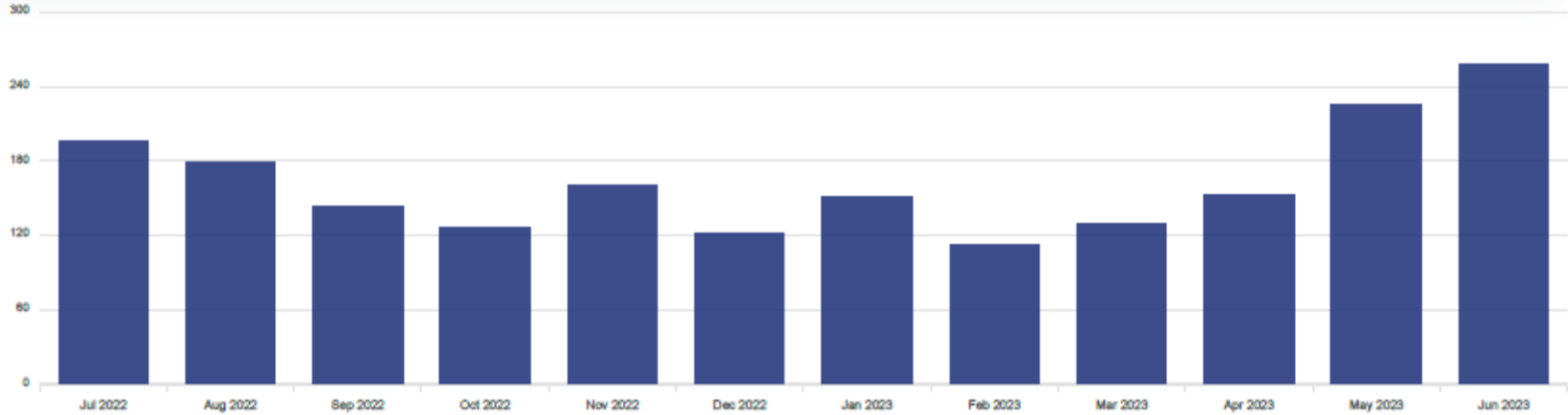
Session count by day



Session count by day of week and time of day

	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8
12am		8	5	3		4	4	1
1am	2	3	4	4		2	1	
2am	2	2	3			1	4	
3am	3	5	3	2		1	2	2
4am		4	3	1		2	2	1
5am	1	3	2	3		3	1	2
6am	1	5	4	6		2		3
7am	2			2		2		1
8am	4	4	2	1		1	2	2
9am	3	4				5	2	1
10am	2	1	2	3		1	4	3
11am	1	1	1	2		2	2	
12pm	2	1	1	2		2		1
1pm	1	1	1					
2pm								
3pm			1				1	
4pm						1		
5pm								
6pm	2					1	1	
7pm	1							3
8pm	2	2						1
9pm								
10pm		2	2			1		
11pm	2	1	3	2		2	1	2
Sunday								
Monday								
Tuesday								
Wednesday								
Thursday								
Friday								
Saturday								

Session count by month



**ChargePoint Data Summary - 105 Bruce St Location**

	Month	Month	Year	Number of sessions	Total Duration (Hours:Min)	Average Duration (Hours:Min)	Active Stations	Utilization Rate
	Nov	11	2022	38	173:16:00	4:33	1	11%
	Dec	12	2022	46	83:47:00	1:49	1	9%
	Jan	1	2023	25	45:38:00	1:49	1	6%
	Feb	2	2023	23	51:21:00	2:13	1	7%
	Mar	3	2023	25	49:36:00	1:59	1	6%
	Apr	4	2023	21	34:16:00	1:37	1	5%
	May	5	2023	35	58:23:00	1:40	1	7%
	Jun	6	2023	26	47:51:00	1:50	1	5%
	Jul	7	2023	46	242:44:00	5:16	1	28%
Total				285	32 Days 18 Hours 36 Minutes			