



# pTrack<sup>®</sup> Performance Historical Report



JANUARY 2024

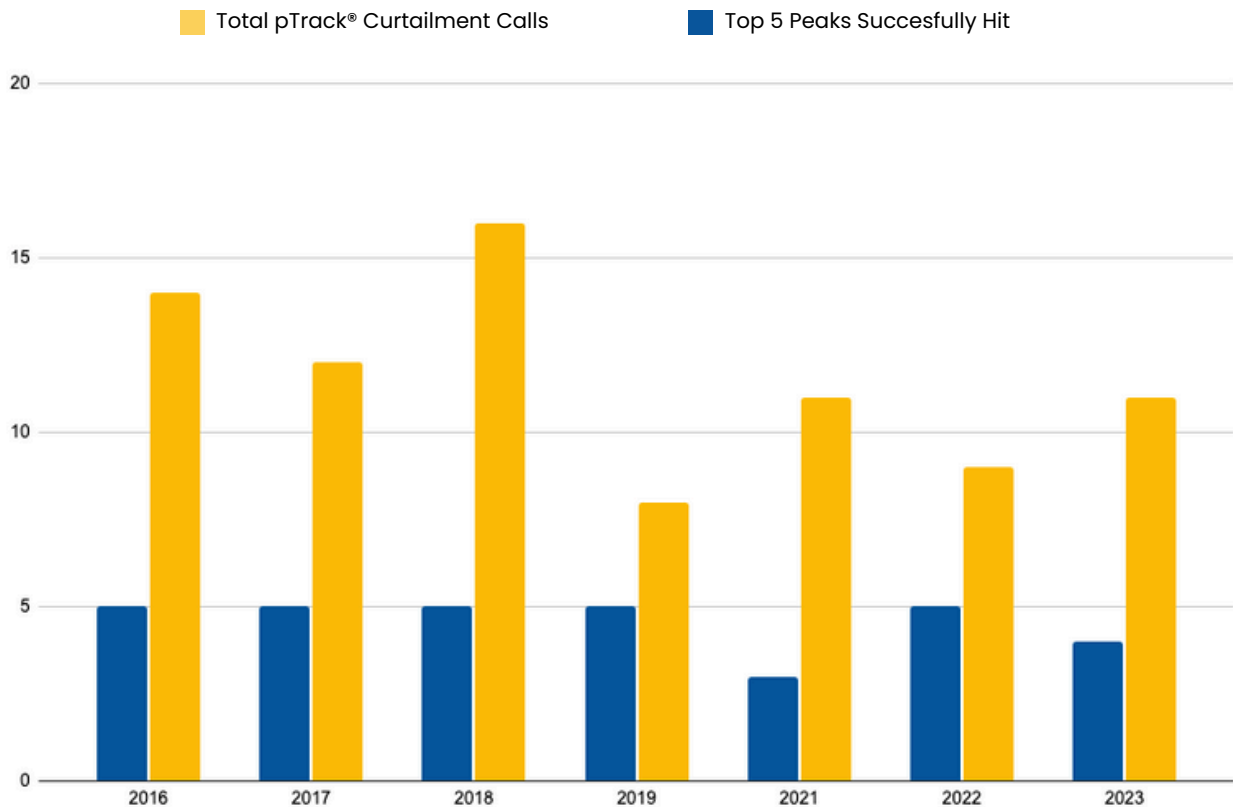


# pTrack® Notification Summary

	2016	2017	2018	2019	2021	2022	2023
Effective Base Period	May 1, 2016 to April 30, 2017	May 1, 2017 to April 30, 2018	May 1, 2018 to April 30, 2019	May 1, 2019 to April 30, 2020	May 1, 2021 to April 30, 2022	May 1, 2022 to April 30, 2023	May 1, 2023 to April 30, 2024
Total Number of Alerts (+Cancelled Calls)	14	12(+6)	16(+1)	8	11	9	11
Top 5 ICI Peaks Correctly Notified	5	5	5	5	3	5	4

Base period 2020-2021 is omitted as the Ontario Government introduced an ICI peak hiatus to allow businesses to focus on recovering from the impacts of COVID-19.

## Top 5 Peaks Successfully Hit and Total pTrack Curtailment Calls



# Annual Performance Summary: 2016

Notice	Date	Weekday	Chance of Peak	Curtailement Window	Ontario Demand Peak Hour	Top 5 Peaks	Total Ontario Demand
1	Jun 20, 2016			5PM-9PM			
2	Jun 27, 2016			2PM-7PM			
3	Jul 5, 2016			4PM-9PM			
4	Jul 6, 2016			5PM-8PM			
5	Jul 7, 2016			4PM-8PM			
6	Jul 13, 2016			3PM-7PM	6PM-7PM	<b>Yes</b>	22,659
7	Jul 14, 2016			3PM-7PM			
8	Jul 21, 2016			4PM-6PM			
9	Jul 22, 2016			2PM-8PM			
10	Jul 27, 2016			5PM-8PM			
11	Aug 10, 2016			5PM-9PM	6PM-7PM	<b>Yes</b>	23,100
12	Aug 11, 2016			4PM-8PM	5PM-6PM	<b>Yes</b>	22,812
13	Aug 12, 2016			4PM-8PM	5PM-6PM	<b>Yes</b>	22,402
14	Sep 7, 2016			5PM-9PM	5PM-6PM	<b>Yes</b>	23,213

Highlighted row indicates a top 5 peak

# Annual Performance Summary: 2017

Notice	Date	Chance of Peak	Curtailement Window	Ontario Demand Peak Hour	Top 5 Peaks	Total Ontario Demand (MW)	AQEW (MW)
1	Jun 12, 2017		5PM-9PM	5PM-6PM	<b>Yes</b>	21,168	20,702
2	Jul 12, 2017		2PM-7PM				
3	Jul 19, 2017		4PM-9PM				
4	Jul 21, 2017		5PM-8PM				
5	Jul 31, 2017		4PM-8PM				
6	Aug 1, 2017		3PM-7PM				
7	Aug 2, 2017		3PM-7PM				
8	Aug 3, 2017		4PM-6PM				
9	Aug 21, 2017		2PM-8PM				
10	Sept 23, 2017		5PM-8PM				
11	Sept 24, 2017		5PM-9PM				
12	Sept 25, 2017		4PM-8PM	5PM-6PM	<b>Yes</b>	21,786	21,171
13	Sept 26, 2017		4PM-8PM	5PM-6PM	<b>Yes</b>	21,542	21,039
14	Dec 14, 2017		5PM-9PM				
15	Jan 2, 2017		5PM-8PM				
16	Jan 4, 2018		5PM-8PM				
17	Jan 5, 2018		5PM-8PM	5PM-6PM	<b>Yes</b>	20,906	20,238
18	Jan 6, 2018		5PM-8PM	5PM-6PM	<b>Yes</b>	20,768	20,046

Highlighted row indicates a top 5 peak

# Annual Performance Summary: 2018

Notice	Date	Chance of Peak	Curtailement Window	Ontario Demand Peak Hour	Top 5 Peaks	Total Ontario Demand (MW)	AQEW (MW)
1	May 28, 2018	<b>68%</b>	5PM-9PM			20,473	
2	June 18, 2018	<b>100%</b>	2PM-6PM			21,369	
3	Jul 3, 2018	<b>80%</b>	5PM-9PM			21,761	
4	Jul 4, 2018	<b>100%</b>	5PM-9PM	6PM-7PM	<b>3</b>	22,518	22,123
5	Jul 5, 2018	<b>85%</b>	3PM-7PM	3PM-4PM	<b>2</b>	23,046	22,415
6	Jul 16, 2018	<b>91%</b>	2PM-6PM			21,536	
7	Jul 24, 2018	<b>82%</b>	4PM-8PM			21,451	
8	Aug 5, 2018	<b>81%</b>	5PM-9PM			21,090	
9	Aug 07, 2018	<b>69%</b>	5PM-8PM			21,008	
10	Aug 14, 2018	<b>76%</b>	5PM-9PM			21,362	
11	Aug 15, 2018	<b>81%</b>	3PM-7PM			21,344	
12	Aug 27, 2018	<b>88%</b>	5PM-9PM			21,103	
13	Aug 28, 2018	<b>87%</b>	4PM-8PM	5PM-6PM	<b>4</b>	21,990	21,644
14	Aug 29, 2018	<b>81%</b>	3PM-7PM			21,242	
15	Sept 04, 2018	<b>85%</b>	5PM-9PM	5PM-6PM	<b>5</b>	21,885	21,379
16	Sept 05, 2018	<b>85%</b>	4PM-8PM	5PM-6PM	<b>1</b>	23,240	23,240
17	Jan 30, 2019	<b>87%</b>	4PM-9PM			20,986	

Highlighted row indicates a top 5 peak

# Annual Performance Summary: 2019

Notice	Date	Weekday	Chance of Peak	Curtailment Window	Ontario Demand Peak Hour	Top 5 Peaks	Total Ontario Demand
1	Jul 4, 2019	Thursday	<b>82%</b>	5PM - 9PM	6PM - 7PM	<b>5</b>	20,956
2	Jul 5, 2019	Friday	<b>94%</b>	1PM-6PM	5PM-6PM	<b>1</b>	21,275
3	Jul 16, 2019	Tuesday	<b>88%</b>	3PM-7PM	5PM-6PM		20,053
4	Jul 18, 2019	Thursday	<b>73%</b>	4PM-8PM	6PM-7PM		20,348
5	Jul 19, 2019	Friday	<b>93%</b>	12PM-5PM	12PM-1PM	<b>4</b>	21,006
6	Jul 20, 2019	Saturday	<b>73%</b>	3PM-7:20PM	5PM-6PM	<b>2</b>	21,147
7	Jul 29, 2019	Monday	<b>92%</b>	3PM-7PM	5PM-6PM	<b>3</b>	21,068
8	Aug 21, 2019	Wednesday	<b>73%</b>	4PM-6:45PM	5PM-6PM		20,831

Highlighted row indicates a top 5 peak

# Annual Performance Summary: 2021

## Highlights

- 15 peaks were called in total
- Peaks 2 and 5 were shifted due to change in AQEW demand

Notice	Date	Chance of Peak	Curtailement Window	Ontario Demand Peak Hour	Top 5 Peaks	Total Ontario Demand (MW)	AQEW (MW)
1	Jun 28, 2021	<b>76%</b>	4PM-8PM	6PM-7PM		22,258	21,678
2	Jun 29, 2021	<b>78%</b>	2PM-6PM				
3	Jul 5, 2021	<b>81%</b>	5PM-9PM				
4	Jul 6, 2021	<b>78%</b>	2PM-6PM				
5	Jul 19, 2021	<b>63%</b>	4PM-8PM				
6	Jul 26, 2021	<b>72%</b>	5PM-9PM				
7	Aug 9, 2021	<b>92%</b>	2PM-7PM	5PM-6PM	<b>4</b>	22,428	21,813
8	Aug 11, 2021	<b>91%</b>	3PM-7PM				
9	Aug 12, 2021	<b>85%</b>	4PM-8PM				
10	Aug 19, 2021	<b>83%</b>	4PM-8PM				
11	Aug 20, 2021	<b>85%</b>	4PM-8PM				
12	Aug 23, 2021	<b>92%</b>	3PM-7PM	5PM-6PM	<b>3</b>	22,309	22,055
13	Aug 24, 2021	<b>89%</b>	4PM-8PM	5PM-6PM	<b>1</b>	22,986	22,428
14	Aug 25, 2021	<b>87%</b>	1PM-6PM	5PM-6PM	<b>*5</b>	22,360	21,735
15	Aug 26, 2021	<b>90%</b>	4PM-8PM	3PM-4PM	<b>*2</b>	22,707	22,425

\* Peaks 2 and 5 were shifted due to change in AQEW demand

Highlighted row indicates a top 5 peak

# Annual Performance Summary: 2022

Notice	Date	Weekday	Chance of Peak	Curtailement Window	Ontario Demand Peak Hour	Top 5 Peaks	Total Ontario Demand (MW)
1	Jun 22, 2022	Wednesday	<b>87%</b>	2PM-7PM	5PM-6PM	<b>2</b>	21,954
2	Jul 19, 2022	Tuesday	<b>88%</b>	4PM-8PM	6PM-7PM	<b>1</b>	22,607
3	Jul 20, 2022	Wednesday	<b>93%</b>	3PM-7PM	4PM-5PM	<b>4</b>	21,850
4	Jul 21, 2022	Thursday	<b>65%</b>	4PM-8PM	5PM-6PM		21,379
5	Jul 22, 2022	Friday	<b>78%</b>	3PM-7PM	6PM-7PM		21,367
6	Aug 6, 2022	Saturday	<b>76%</b>	4PM-8PM	6PM-7PM		21,761
7	Aug 7, 2022	Sunday	<b>88%</b>	3PM-8PM	5PM-6PM	<b>5</b>	21,778
8	Aug 8, 2022	Monday	<b>76%</b>	2PM-6PM	3PM-4PM		21,560
9	Aug 29, 2022	Thursday	<b>88%</b>	4PM-8PM	5PM-6PM	<b>3</b>	21,870

Highlighted row indicates a top 5 peak



# Annual Performance Summary: 2023

## Highlights

- 11 peaks were called in total
- 1 peak took place on a holiday, Monday September 4, 2023
- 4/5 Ontario Demand peaks were correctly called

Notice	Date	Weekday	Chance of Peak	Curtailement Window	Ontario Demand Peak Hour	Top 5 Peaks	Total Ontario Demand (MW)
1	Jun 2, 2023	Friday	<b>86%</b>	4PM-8PM	5PM-6PM		21,463
2	Jul 4, 2023	Tuesday	<b>85%</b>	4PM-8PM	5PM-6PM		21,690
3	Jul 5, 2023	Wednesday	<b>100%</b>	4PM-8PM	6PM-7PM	<b>3</b>	22,686
4	Jul 6, 2023	Thursday	<b>97%</b>	1PM-6PM	12PM-1PM	<b>*4</b>	21,882
5	Jul 11, 2023	Tuesday	<b>86%</b>	3PM-7PM	3PM-4PM		
6	Jul 26, 2023	Wednesday	<b>87%</b>	3PM-7PM	5PM-6PM		
7	Jul 27, 2023	Thursday	<b>95%</b>	4PM-8PM	6PM-7PM		21,558
8	Jul 28, 2023	Friday	<b>87%</b>	4PM-8PM	5PM-6PM		21,551
9	Sept 4, 2023	Monday**	<b>88%</b>	4PM-8PM	6PM-7PM	<b>5</b>	21,725
10	Sept 5, 2023	Tuesday	<b>100%</b>	4PM-8PM	5PM-6PM	<b>1</b>	23,713
11	Sept 6, 2023	Wednesday	<b>100%</b>	4PM-8PM	5PM-6PM	<b>2</b>	22,966

\* Peak was called one hour earlier by Edgcom Energy

\*\* Peak occurred on a holiday

Highlighted row indicates a top 5 peak

# Appendix

## **2016–2018 Period**

During the 2016 to 2018 period, the pTrack® Machine Learning model was being optimized and upgraded, therefore the curtailment notifications were manually overseen by our team of Data Scientists. Starting in 2019 the machine learning algorithm was making predictions with no operator interference, this was after several years of thorough testing and backcasting models which showed the pTrack® model was extremely accurate.