



Oak Park's ongoing alternative fuels journey.



Oak Park



Ken Crowley Superintendent of Fleet Services

CNG **B20**
EV

- Oak Park is 4.5 square miles.
- Population of 52K.
- Maintain around 250 pieces of equipment.



CNG

Opened our CNG station in 2002, with grant funds covering the majority of the station and vehicle conversions.

- Peak of 24 Bi- fuel CNG vehicles.
- Cleaner burning



CNG

We have used CNG in the past when grant funding made the ROI worth the price of admission.

Pros: CNG is less expensive than gasoline, burns cleaner, increases oil life, and can be used in almost any engine. Great option for vehicles with a lot of use.

Cons: Initial upfront costs, added complexity, tank expiration/replacement costs, tanks taking up valuable space, costs for infrastructure.



VILLAGE OF OAK PARK RIBBON CUTTING CEREMONY

Congratulations on the official
opening of your CNG station
4/22/02
From your partner at General Motors



B20

Started use in 2007 with our new facility.
We use B20 in all our equipment all year.

- Direct replacement for diesel.
- Cleaner burning than diesel.
- Average 32K gallons per year.



B20

We've been using B20 for 17 years without issue. We have around 49 units using this fuel. Some of the engine makes are Cummins, Caterpillar, Dodge, Ford, GMC, John Deere, Kubota, Mercedes, and Navistar.

Pros: Direct replacement, no vehicle modifications required, cleaner burning, sustainable fuel source, produced in Illinois, similar in cost to diesel, sometimes less.

Cons: Legacy infrastructure must be prepped for use, moisture-free, and clean. Due to its solvent nature, equipment fuel filters must be swapped out when switching to B20. Dealing with the opinions of legacy Fleet employees can also be an issue.





EVs

Started adding frontline EVs to the Fleet in 2019 with 5 sedans. In 2024 we will have 19 EVs & 23 level 2 chargers.

- Pricing is comparable to ICE on some models.
- Almost no maintenance.
- The vehicles don't hinder the end user's day-to-day operations.



EVs

We've been using EVs for inspectors, and meter reader vehicles since 2019. We have expanded the EV fleet into our Engineering division, pool cars, Animal Control officer, and our Water Department meter tech.

Pros: Almost no maintenance. Quiet. No tailpipe emissions. Good PR.

Cons: Infrastructure needs expansion. Vehicle use requires some retraining of end users. Limited training for techs.



Charging Report

Apr 06, 2024

Station: **Op_Oak_Park**

Date	
From	Mar 31, 2024
To	Apr 06, 2024
Days	7

Time Zone	
Max Power Limit	America/Chicago
Electric Energy Unit	kWh
Dolometer Unit	miles

Charge Events: Each row corresponds to when charging starts (power > 0 W) to when it stops (power = 0 W).

Start Date	End Date	Location	Zones	Zone Types	Start Charge %	End Charge %
Apr 04, 2024 12:18	Apr 04, 2024 21:17	529 Lyman Ave, Oak Park, IL 60309	Village of Oak Park, VIII Home Zone, Cust		24.00%	99.00%
Apr 02, 2024 11:26	Apr 02, 2024 14:50	529 Lyman Ave, Oak Park, IL 60309	Village of Oak Park, VIII Home Zone, Cust		67.99%	100.00%
Apr 05, 2024 14:31	Apr 05, 2024 21:19	South Blvd /Lombard, Oak Park, IL	Village of Oak Park Home Zone		76.50%	99.00%
Apr 04, 2024 14:41	Apr 04, 2024 19:27	201 South Blvd, Oak Park, IL 60309	Oak Park Public Works, Customer Zone, I-		67.50%	99.00%
Apr 03, 2024 14:35	Apr 03, 2024 22:28	South Blvd & Lombard, Oak Park, IL	Oak Park Public Works, Customer Zone, I-		40.00%	100.00%
Apr 02, 2024 14:28	Apr 02, 2024 21:17	South Blvd /Lombard, Oak Park, IL	Oak Park Public Works, Customer Zone, I-		49.50%	99.00%
Apr 0			Village of Oak Park Home Zone		63.50%	99.00%
Apr 0			Oak Park Public Works, Customer Zone, I-		63.50%	64.00%
Apr 0			Village of Oak Park, VIII Home Zone, Cust		53.01%	98.00%
Apr 0			Village of Oak Park, VIII Home Zone, Cust		72.00%	98.02%
Apr 0			Village of Oak Park, VIII Home Zone, Cust		18.00%	100.00%
Apr 0			Village of Oak Park, VIII Home Zone, Cust		34.00%	100.00%
Apr 0			Oak Park Public Works, Customer Zone, I-		43.02%	17.00%
Apr 0			Oak Park Public Works, Customer Zone, I-		26.00%	48.00%
Apr 0			Oak Park Public Works, Customer Zone, I-		36.00%	36.00%
Apr 0			Village of Oak Park, VIII Home Zone, Cust		25.00%	100.00%
Apr 0			Village of Oak Park, VIII Home Zone, Cust		49.00%	100.00%



chargepoint+ Hello Kim
Logout

Dashboard Stations Drivers

Connection Requests 0

Messages

- Driver Tip** One of these spots an
- Driver Tip** The construction prop
- Driver Tip** The construction prop
- Driver Tip** According to the Villa
- Driver Tip** There is one ChargeP

ChargePoint Now Supports the WEX Fleet Card — 6/76/2019

Real Time Power: 4.38 kW / 112 kW

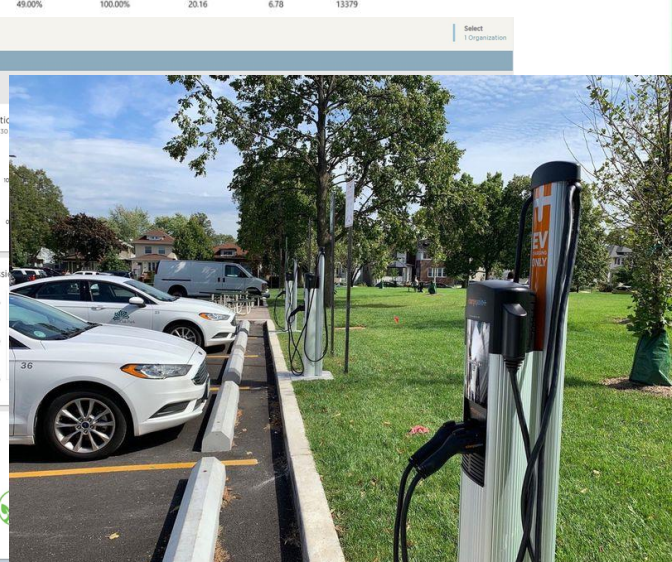
Unique Drivers: 0 Connected Drivers

Financials: \$418.00

Environment: Lifetime

Here's how EV charging has helped:

- You've avoided **5.98 MWh** of electricity over the last 30 days. Recoup your costs by charging a fee. ChargePoint will send you the money.
- Estimated monthly cost based on electricity price of \$0.07 - per kWh.
- You've avoided **84,837 kg** greenhouse gas emissions



Thoughts

1. Cleaner air/budgetary constraints. You need to decide how to get the most bang for your buck.
1. It has to fit.
1. Do something now.



“

Everything works
for someone.
Nothing works for
everyone.

Don't get paralyzed
waiting for
perfection.

Do something now.



**ONE SIZE
DOES NOT
FIT ALL**



Oak Park