Environmental Advisory Committee
Meeting Minutes
June 27, 2019
Barrington Village Hall, 200 S. Hough Street
Community Conference Room

I. Call to Order

The regular meeting of the Environmental Advisory Committee of the Barrington Board of Trustees was called to order by Chairperson Daluga at 7:09 p.m. on Thursday, June 27, 2019 at Barrington Village Hall, 200 S. Hough Street, Barrington, Illinois.

II. Roll Call

Upon roll being called the following answered present: Faye Sinnott, Janet Agnoletti, Renee Blue, Susan Lenz, Matt Hokanson, Dan Goitein, and Chairperson Jim Daluga

III. Introductions

Each committee member introduced themselves and provided some background information. Jim Daluga noted that this committee is an AdHoc committee, meaning it has a specific purpose to advise the Village Board and make recommendations relative to appropriate environmental changes. He also explained the differences between being a Home Rule and Non-Home Rule community. This committee is only responsible for recommendations to the Village of Barrington – we cannot make recommendations to other governmental entities.

Public Comment: Jennifer Lucas, represents Go Green Barrington, noted that if this committee is charged with the task of investigating electric car charging stations, she has already done some investigation and distributed handouts (attached).

IV. Presentation Re: Current State of Recycling

Renee Blue presented the Current State of Recycling (a copy of the presentation is attached to these minutes)

A question was raised regarding whether paper shredding is recycled. Renee will do some further investigation into this.

Based on this presentation, Jim Daluga noted that it is possible that this committee could ask staff to investigate educational materials that could be distributed to residents.

It was noted that legislation dictates whether restaurants allow customers to bring their own reusable take home containers. Suggestions were made as to how to handle reusable take-home and to-go containers.

A discussion was held about the possibility for zero waste events.

A discussion was held regarding what the resistance is to recycling and what type of education can be provided to overcome the existing apathetic attitude. A suggestion was made to refine 2 or 3 points of resistance and address those specifically in any education pieces.

Staff will research whether Groot provides residential garbage can cleaning or will allow youth service organizations to clean garbage cans at residential homes.

Jim Daluga asked if Renee would consider making a video that makes recycling easy to understand and explains the implications of doing nothing.

A suggestion was made to survey our businesses to find out how they recycle. Staff will ask Groot if they have tipping rates for commercial vs. residential. Is it possible to use the Chamber of Commerce to help educate the businesses?

Do we know how many people compost in Barrington. Has it gone away? It's that time of year – can we remind people that it's a possibility. Data from Prairieland (No Barrington) would be helpful

A discussion was held regarding home composting and the impacts of using a garbage disposal.

V. Discussion Re: Car Charging Station Options

Jeremie distributed some questions to consider and will check with the City of Evanston to see how they've handled installation and maintenance, and what the trigger point was for installing the stations.

Jim Daluga noted that businesses may want to be strategic about offering charging stations in order to allow for customers to use their business while charging. A suggestion was made to consider a public/ private partnership to incentivize businesses to install charging stations at specific locations.

Does the DMV have any information about how many electric cars are located in 60010?

Jennifer Lucas encouraged the committee to investigate charging stations and invite representatives from charging stations to present to the committee and answer questions.

VI. Other Business

It was noted that there is some frustration that the sales tax proposal was defeated in the Village. People are unaware that all water flows to Flint Creek and that we need figure out how to educate the residents to help them understand this infrastructure money is needed. Is there something this committee can do to increase the awareness of how connected we are to the infrastructure of our Village and what impacts our area, i.e. stormwater, meeting higher IEPA standards, and costs of environmental impacts on the community?

VII. Adjournment

MOTION: A motion was duly made seconded to adjourn the Regular Meeting of the Environmental Advisory Board on Thursday, June 27, 2019.

A voice vote was then called following which Chairperson Daluga declared the motion to adjourn had been unanimously adopted and the meeting was adjourned. The time was 8:57 p.m.

Bob Spatz
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Commercial Service Plan

The best way to connect with EV drivers

With ChargePoint, you're connected to the world's largest and most open EV charging network with over 19,000 charging locations. ChargePoint's cloud-based Commercial Service Plan provides you with everything you need to manage your EV charging operations, including flexible management tools, rich data analysis, payment processing and 24x7x365 driver support. We connect stations to ChargePoint over a secure, cellular data network allowing station owners to manage all their charging operations from a single dashboard.

ChargePoint leads the market with revolutionary new ways to make EV charging good for business, and easy and convenient for drivers. ChargePoint® service plans simplify station management and administration, allowing you to build a relationship with drivers who frequent your stations in order to keep them coming back.

The Commercial Plan is perfect for organizations looking to make EV charging part of their daily operations.

Set pricing your way

Set charging fees by time, session, kWh, or any combination thereof. You can set fees for different drivers or groups of drivers, or different times of the day.

Automated payment services

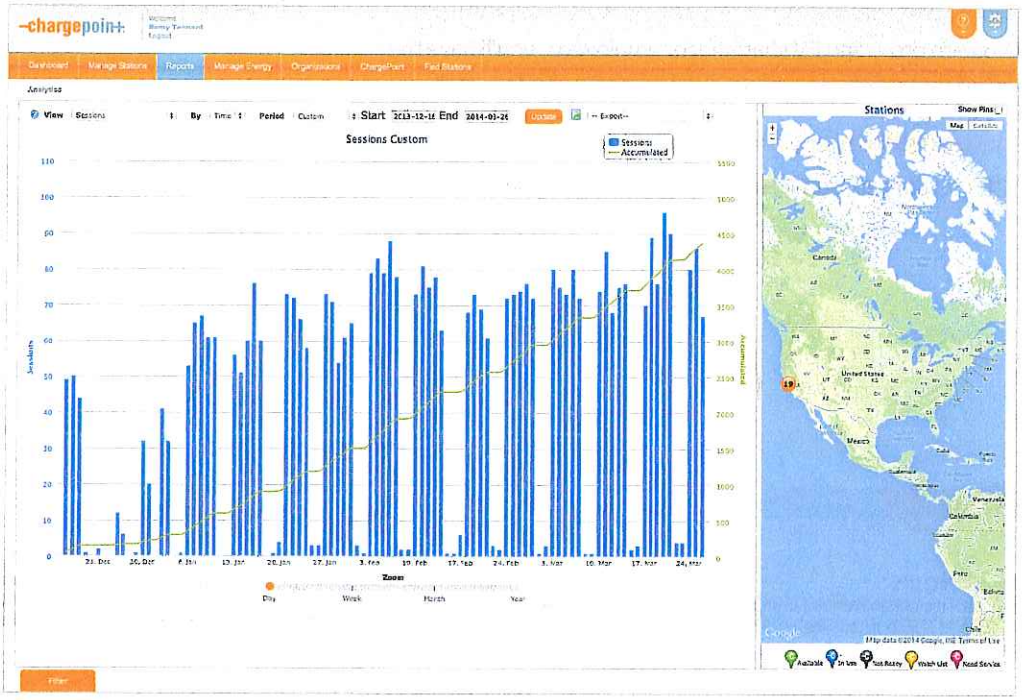
ChargePoint handles all payment processing for you with a PCI-compliant solution known as Flex Billing. You set the price; we handle the money on your behalf and send you a check every month.

Connect with drivers

ChargePoint Connections creates a relationship between drivers and organizations. Connections gives you control and helps you manage who can charge on your stations and how much they pay. Drivers request to connect with your organization and you decide whojoins.

Grant rights to other ChargePoint organizations

Through Rights Granting, you can easily approve an organization to view and manage your stations, allowing you to outsource some or all of your EV charging-related operations such as



The Charging Sessions report provides granular data on how frequently EV drivers are using charging stations and when.

provisioning and troubleshooting stations. Focus on your core business instead of station maintenance.

24x7X365 driver support from ChargePoint

Every ChargePoint networked station displays a ChargePoint customer support phone number for fast, 24x7x365 station-side driver support by ChargePoint experts. We take care of the EV drivers using your stations, saving you and your staff valuable time and money.

Map your stations

Station owners have the option of making their stations visible to all drivers or specific groups of drivers such as employees or customers. Drivers with access will see the real-time availability and status of your stations and the price you've set on the ChargePoint website, mobile apps, and in the navigation systems of top-selling EVs.

Get detailed reports

To get the most value out of your charging stations, you need to maximize station utilization by managing pricing, controlling access, and expanding infrastructure where it's needed most. To make informed decisions about how to manage your stations, you must have access to granular data on how EV drivers are using them.

ChargePoint Analytics provides a wide range of automated reports showing everything from energy usage and greenhouse gases avoided, to station usage by time-of-day, peak occupancy, number of drivers, session duration and much more. You can access logs and reports for all stations via a single login and dashboard.

Track and report data for taxes and compliance

If you are providing EV charging for employees, you'll have the data for employee benefit reporting required by tax codes.

Customization and branding

With customized signage and tailored videos, you can use ChargePoint's stations to communicate timely and targeted messaging to drivers.

Allow reservations

As a station owner, you decide whether you want to make your stations reservable. With reservations, drivers can make, cancel and change reservations for charging sessions.

Get Started

Join the EV revolution and purchase a ChargePoint Commercial Service Plan today. Contact us to discuss what plans and features meet your needs. Visit chargepoint.com for more information.

About ChargePoint

With access control, flexible pricing and advanced cloud services, ChargePoint makes EV charging good for your business. With ground-breaking features and advanced functionality, ChargePoint makes it easier than ever to monitor and track charging station usage and costs, create viable pricing structures for charging services and inspire driver loyalty.

For More Information

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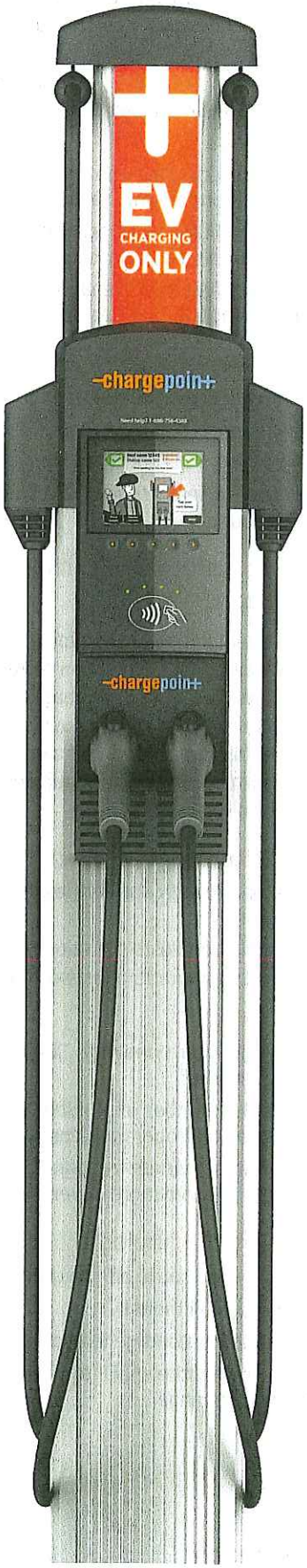
CT4000 Family

ChargePoint® Level 2 Commercial Charging Stations



The CT4000 family is the latest generation of ChargePoint commercial charging stations. Refined yet rugged, these stations set the industry standard for functionality and aesthetics.

The CT4000 full motion color LCD display instructs drivers and supports dynamic updates of custom branded videos and advertisements.

Intelligent power management options double the number of parking spaces served by allowing two charging ports to share a single circuit. Sites with single port EV stations can upgrade to dual port stations without requiring additional electrical services.

All CT4000 models offer one or two standard SAE J1772™ Level 2 charging ports with locking holsters, each port supplying up to 7.2kW. With this standard connector, ChargePoint level 2 stations can charge any EV.

Stations are available in bollard and wall mount configurations for easy installation anywhere. All stations are fully software upgradeable remotely over the air.

Stations come in both 6' and 8' tall models with 18' and 23' cords, respectively. With multiple options for size and cord reach, your station can service up to four parking spaces, reach all car models regardless of parking style or car sizes and increase the usability of your EV spots.

Driver Friendly User Interface

+ Instructional video shows how to use the station
+ Multi-language: English, French, Spanish
+ Touch button interface; works in rain, ice and with gloves
+ Backed by ChargePoint's world class 24/7 driver phone support

Easily Communicate with Your Drivers

Whether you're a retail establishment wanting to advertise your latest product, a workplace looking to communicate with employees or a municipality wanting to welcome visitors, ChargePoint's prominent LCD screen makes it easy to reach EV drivers:

+ Daylight readable, with auto brightness control
+ 640 X 480 resolution active matrix
+ Full motion 30fps video support
+ Upload up to 60 seconds of high quality video on a color LCD screen to individual stations as often as desired
+ Brand your charging stations to communicate with drivers
+ Instructional video in English, Spanish or French

Service Products and Support

ChargePoint offers world-class service products and support that help ensure quality of work, save time and money, protect your investment and enhance the productivity of your charging stations. From site planning to installation and setup, to ongoing care and management, when you choose ChargePoint, you're covered.

- ChargePoint Configuration and Activation: customized setup and activation of your stations
- ChargePoint Station Manager: ongoing and unlimited software tools to meet your changing needs
- ChargePoint Assure: extended parts and labor warranty coverage for up to five additional years

Energy Measurement and Management

- Real-time energy measurement
- 15 minute interval recording
- Time of Day (TOD) pricing
- Load shed by percentage of running average or to fixed power output

Minimize Costs with Flexible Power Management Options

In the vast majority of applications, a full power configuration is the best choice for both station owners and drivers. However, when drivers are parked for a longer time, an intelligent, lower power output can save station owners considerable installation cost while still providing drivers a great charging experience. With flexible power options, station owners can meet the needs of drivers while lowering costs:

Power Select (Patent Pending)

- Allows for a lower capacity (less than 40A) circuit to power each port
- Cuts installation costs by reducing the cost or even avoiding the need to upgrade panels or transformers

Power Sharing

- Dynamically share one 40A, 30A or 20A circuit between two parking spaces
- Doubles the number of parking spots served while reducing installation and operating costs
- Allows station owners to upgrade a single port station to dual port to serve more drivers with no electrical upgrade

Clean Cord Technology

- Keep charging cords off the ground
- Standard on all models
- Ultra-reliable second-generation gravity operated mechanism
- Flexible over entire -40°F to +122°F product temperature range

CT4000 stations come with 18' or 23' cords to increase the usability of your charging spots, on 6' and 8' tall models respectively.

CT4021

Dual-port bollard charging station with 18' charging cables. Standard *EV Charging Only* sign without optional custom branding.

Promote Your Brand and Business

Having your stations installed in a visible location makes a bold statement about your business' commitment to sustainability and shows that you care about your customers. ChargePoint CT4000 stations are built for customization so you can conveniently promote your brand as well. With custom signage and video you can:

+ Increase brand recognition
+ Attract EV drivers by making sure your stations are highly visible
+ Ensure EV charging installations are consistent with the look and feel of your brand
+ Differentiate your stations from standard ChargePoint stations to make them easily identifiable by your driver base

Easily customizable branding area.

All stations come with *EV Charging Only* sign, which can be replaced with your custom signage.

5.7" color LCD display for customizable video content.

Upload up to 60 seconds of high quality video to individual stations as often as desired.

Daylight readable with auto brightness control.

OPTIONAL:
Additional customizable branding areas.

All stations have standard extrusions to hold your custom signage.

Artwork templates and material specifications are conveniently downloadable from chargepoint.com

Branded CT4021
Shown with optional branding on bollard.
18' cords on 6' model.

Branded CT4025
Shown with optional branding on back.
23' cords on 8' model.

Bollard Charging Stations

CT4011

CT4021

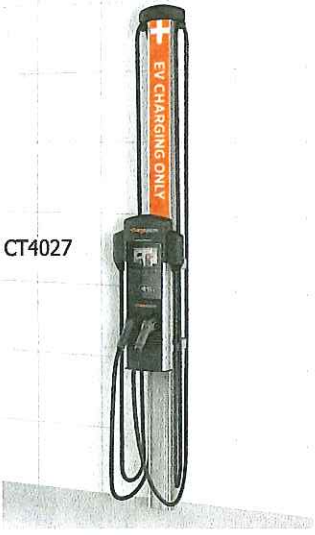
CT4025

Wall Mount Charging Stations

CT4013

CT4023

CT4027



Learn More

To learn more about ChargePoint's CT4000 Family:

- Visit carbondayautomotive.com
- Call +1.518.505.0508
- Email bobs@carbonday.com

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Printed on paper made with 100% post-consumer fiber and 100% certified renewable energy, and processed chlorine free.

100% Recycled Fiber PCF

Listed by Underwriters Laboratories Inc.

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Electric Vehicle Charging Stations

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Tools Available with Chargepoint Stations

- **Waitlist, reservation, valet services, and flex billing**
  - Increase station turnover to service more drivers
  - Optimal driver experience with notifications, mobile apps, tap to charge
- **Access control and connections**
  - Different pricing or accessibility for different driver groups
  - Greater visibility into drivers
- **Power management**
  - Option to install a dual on one 40A circuit rather than the standard two circuits
  - Oversubscribe existing capacity
- **Branding opportunities**
  - Brand stations
  - Upload promotional videos
- **Charging data and analytics**
  - Key reports on station metrics

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Considerations For Your Program

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How would you like to set up your stations?

- Available to the **public**?
- Do you want to set a **fee**?
- If you set a fee, do you want that fee to **escalate** over time?
- Would you like your stations to be **visible** on **maps**?
- Would you like to allow users to be **notified** when stations become available?

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Clean Cord Management Makes a Difference

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+ Clean Cords
+ Clean Look
+ No Tripping Hazard
+ Better Driver Experience

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Industry Leading: ChargePoint Assure

The Most Comprehensive Station Maintenance & Management Program in the Industry

- + 98% Annual Station Uptime Guarantee
- + One Business Day Response Time
- + Proactive Station Monitoring
- + Proactive Dispatch
- + **Labor Coverage for Vandalism & Accidents**
- + Monthly Summary & Quarterly Detailed Reports
- + Unlimited Software Configuration Changes

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Our Automotive Partners: Cars People Love

chargepoint+

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Co-branded Auto OEM Membership Kits

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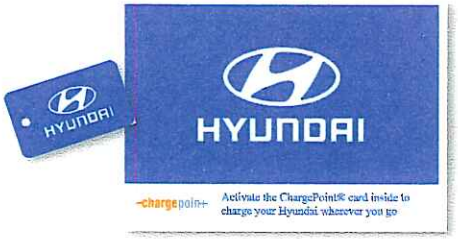
Chevy Bolt/Volt



Hyundai Ioniq

Toyota Prius Prime

VW e-Golf

BMW i3

BMW eDrive

BMW i8

Honda Clarity

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ChargePoint Mobile App

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Find Available Stations

See which stations are available to charge your EV

Start Charging

Just hold your phone by the card reader on the station

Get Notified

Receive notifications when your car is done charging, or when a station opens ups

See Station Pictures

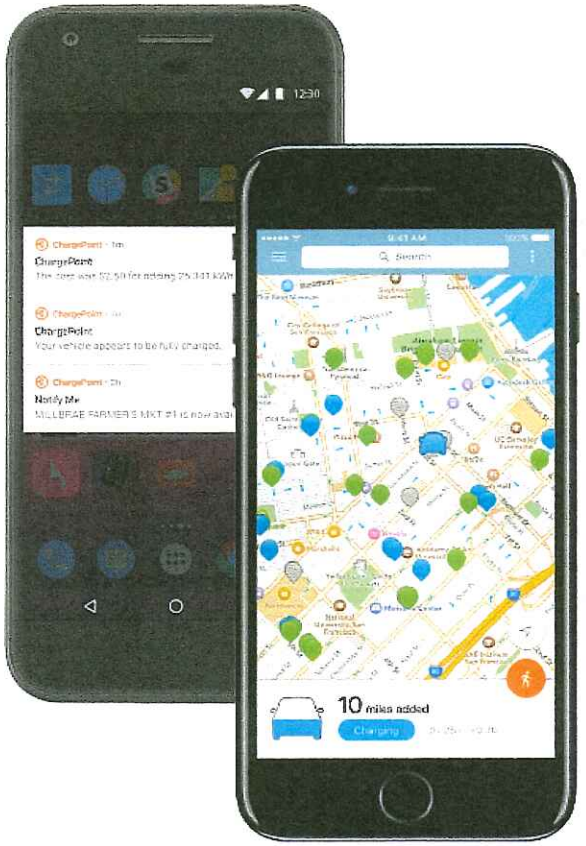
Easily find stations with photos submitted by other drivers

Read Driver Tips

Get helpful advice from other drivers about charging at a particular station

Connect ChargePoint Home

Schedule charging, set reminders, get notifications and track usage



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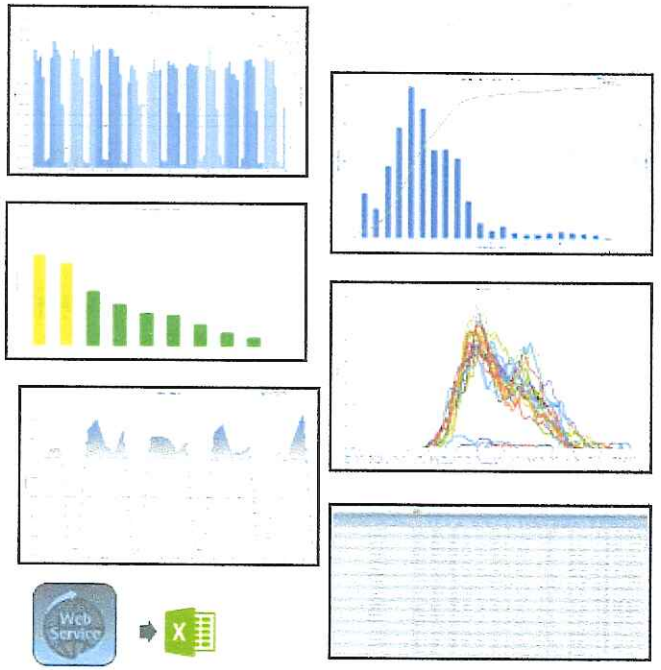
Charging Analytics: Measuring Success

Custom Report Types Include:

+ Energy (kWh)
+ Peak Load, Average Load (kW)
+ GHG Avoidance and Gasoline Savings
+ Station Utilization
+ Unique Drivers
+ Peak Occupancy
+ Session Length Histogram
+ Detailed Transaction and Revenue Data
+ Integrate data into your existing systems



Data Driven Decisions

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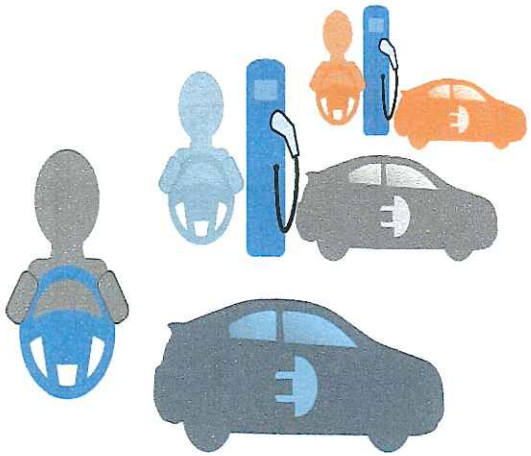
Waitlist

- The problem: Traffic jams at charging stations
- The solution: Waitlist. Drivers get in line at a charging station and receive notifications when it's their turn to plug in
  - Efficiency: Serve more drivers with fewer stations
  - Automatic: No administration required once enabled
  - Simple: Drivers don't have to think about charging



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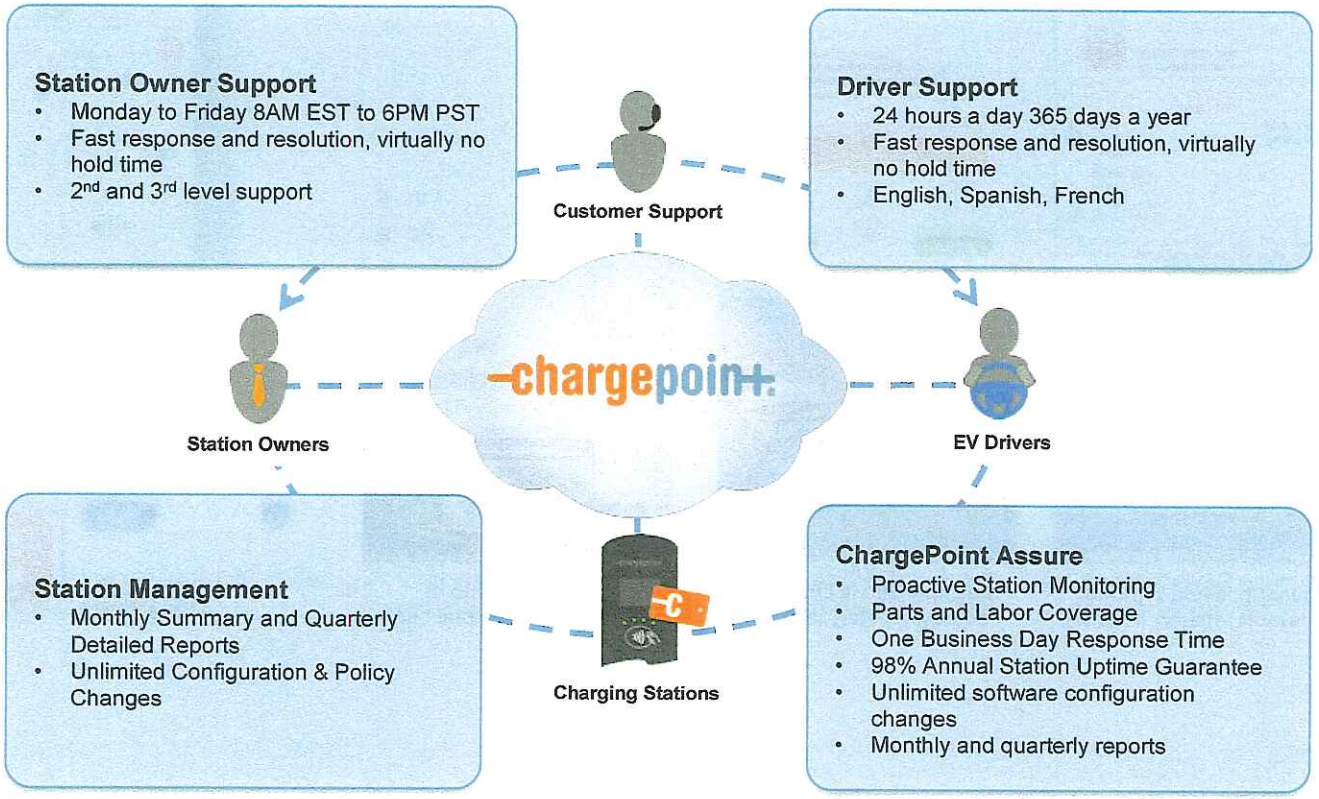
World Class Support



Hassle-free solutions that deliver peace of mind

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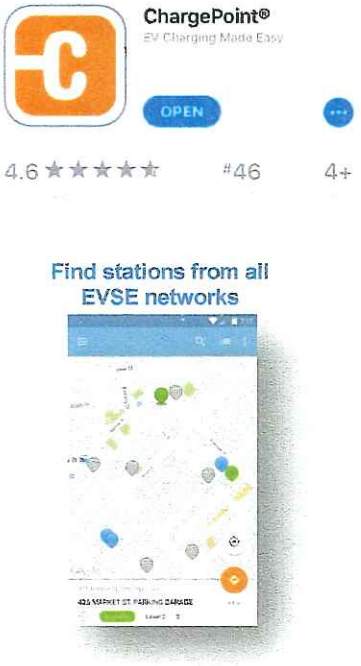
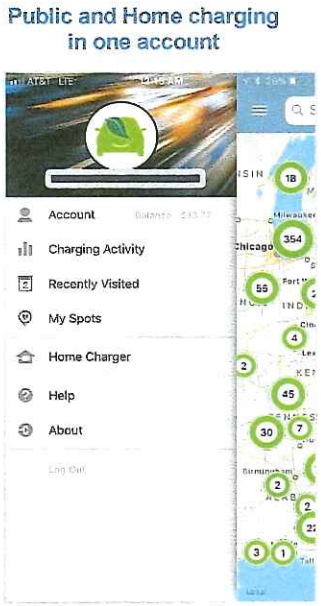
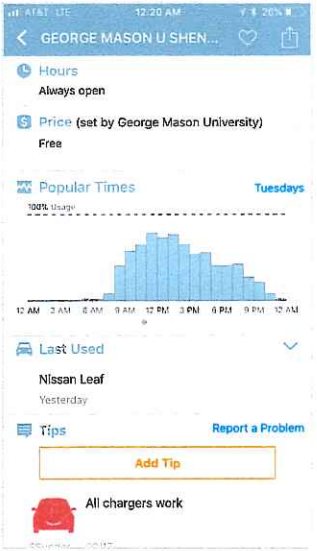
Drivers Love Our App







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Thank You

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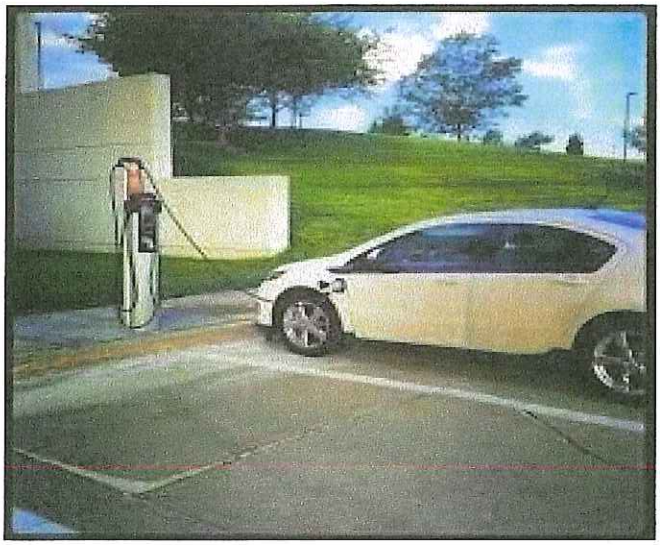
ChargePoint Service Products

Everything you need to make EV charging a success for your business.

Assure

High quality service and support starts with high quality products. ChargePoint stations are the most advanced and reliable charging station in the world. Built on millions of operating hours of EV charging experience, ChargePoint stations are so reliable that we can offer the best warranty in the industry. With Assure coverage, if a station fails due to a manufacturing defect, ChargePoint will roll out a service team to repair or replace that product on site.



Benefits of Assure:

+ One business day dispatched repair labor
+ Proactive Station Monitoring
+ Coverage in all 50 states and Canada
+ All triage and repair coordination responsibilities
+ Remote automated monitoring and proactive dispatch
+ Complete management of station configuration
+ Monthly summary and quarterly detailed reports
+ 100% of labor to include repair due to:
    - Accidental Damage
    - Wear and Tear
    - Vandalism (excluding graffiti)
    - Snow Plow

Note: A successful Site Validation is required to purchase ChargePoint Assure coverage. Without a successful Site Validation, your stations will be covered by our standard Parts-Only exchange warranty.

Carbon Day
Play a Part

Environmental Advisory Committee

June 27, 2019

Electric Vehicle Charging Stations

Village Questions:

- Costs:
  - What is the install cost?
    - Does that include getting power to the site?
    - Buy or lease the equipment?
    - Who can do the installation?
  - What are the maintenance costs?
  - How do you charge for the service
  - What rate is necessary to cover electric, maintenance, and replacement?
  - What happens if the charging station is vandalized?
- Construction:
  - What is required to install the charging station?
  - Where is the power coming from?
    - What is the power draw?
  - How long does the charging station last before needing replacement?
- Technology:
  - What happens if/when technology changes?
  - How do different cars charge?
    - What happens if the type of plug we have becomes obsolete?
  - How do we select the style/manufacturer of the charging station?
  - What software is required?
    - Is this maintained by the Village or a third party?
- General:
  - Where does it get installed?
  - What is the "time limit" on the spot?
    - It needs to match the parking lot/zone time limit.
  - Can this be sponsored?
  - Can it be implemented in a business's parking lot?
  - Can only electric cars use the spots?
    - Is that enforceable?
    - What if they aren't charging?
    - Spaces are limited already, will the businesses support this?
  - Has any other municipality installed charging stations in Village owned lots or right-of-way? Preferably in the Chicagoland area.