



CHARGE@WORK
POWERING WORKPLACE CHARGING

EVNO  **RE**

Driving Change: Implementing EV Charging at your Workplace

Want to install EV Chargers for your employees? We can help.

Workplace Charging with Charge@Work

chargeatwork.org



Presentation Overview

- Charge@Work Overview
- Questions





CHARGE@WORK

POWERING WORKPLACE CHARGING

Information Session

The need – EVs are on the rise

40-50 +%

By 2030, EVs will represent 40 to 50+% of total passenger car sales.

Source: Various

52%

EV registrations in the US rose 52% in 2023 compared to 2022.

Source: S&P Global Mobility Data

The need - American drivers want EVs

- Cleaner air and a healthier environment
- Greater local energy independence
- Lower fuel and maintenance costs for owners
- A stronger, more technically advanced, competitive economy

Why workplace charging?

74%

Of current EV owners have strong interest in workplace charging

Source: Drive Clean

60%

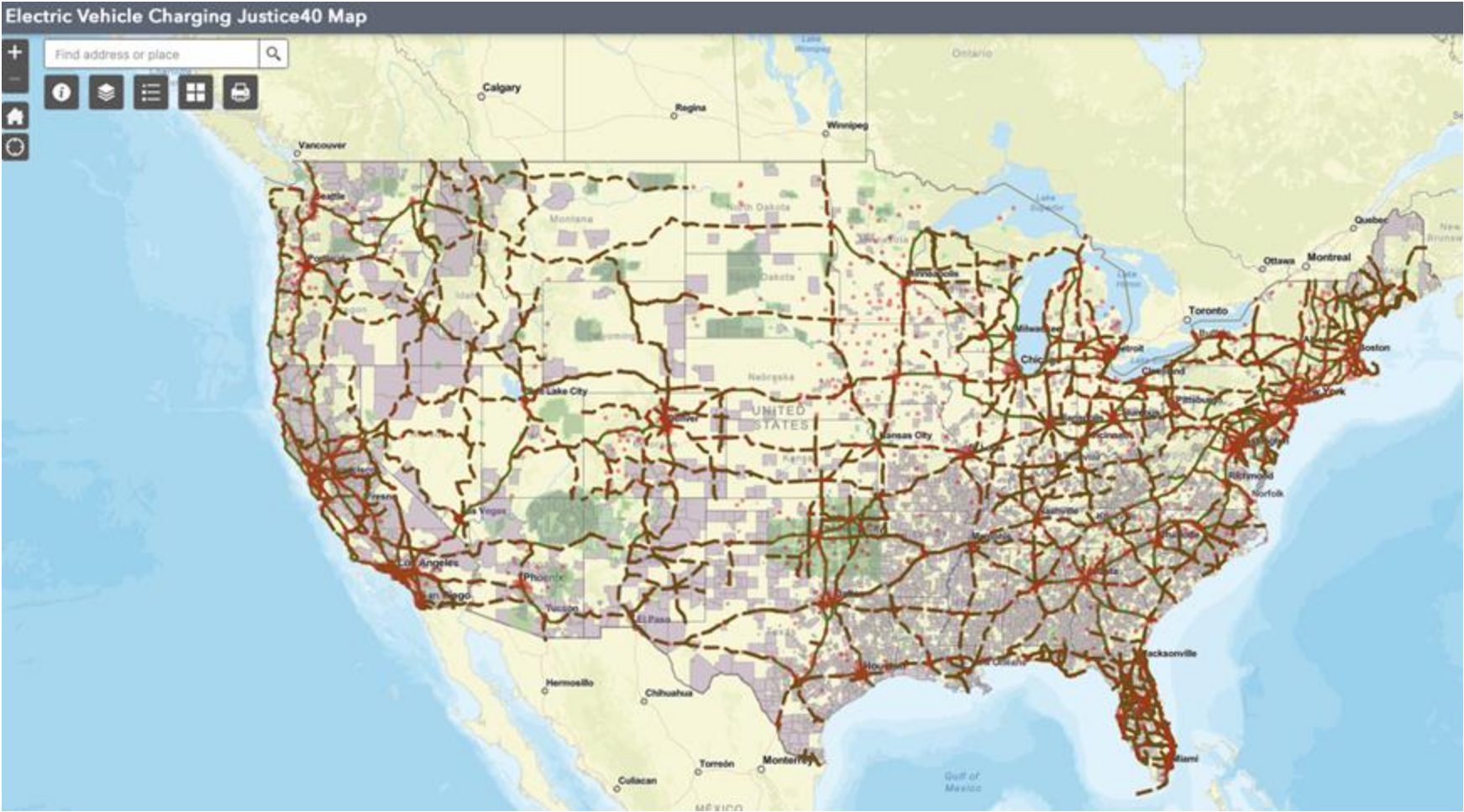
Of EV drives need chargers at work

Source: Plug In America

EV charging benefits workplaces

- Employee retention and satisfaction
 - Lower fueling and maintenance costs
 - Range confidence for employees with longer commutes
 - Equal access to charging for employees who are unable to charge at home
- Alignment with sustainability goals and company values
- Smart, community-driven leadership
- Healthier air and communities
- Reduces barriers to owning an EV

Charging Access & EV Charging Justice40



What is Charge@Work and how Charge@Work can help

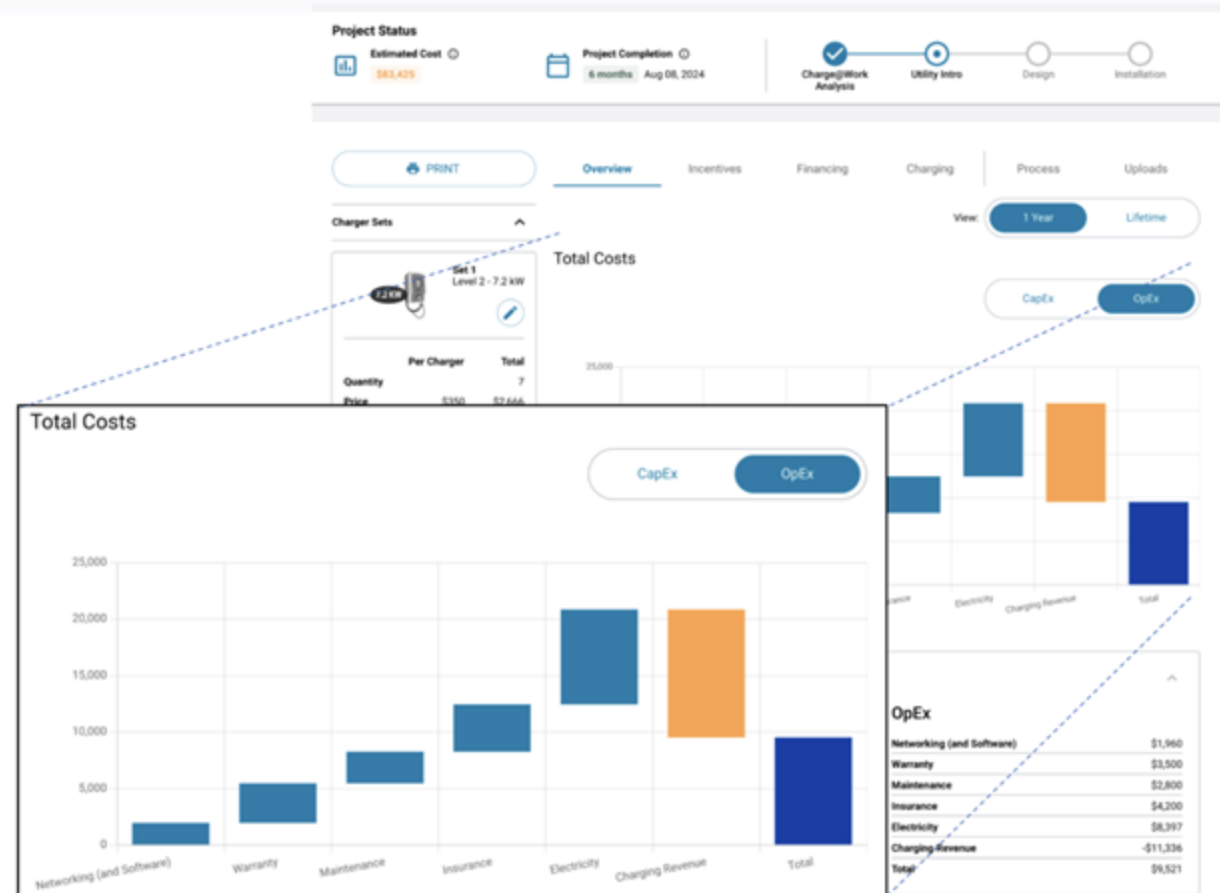
- A DOE-funded national workplace charging program with a focus on education, outreach, and technical assistance
- Helping employers go from idea to implementation
- Objectives
 1. **Spur greater EV adoption** by enhancing driver confidence in charger accessibility
 2. **Expand access** to electric mobility in underserved communities
 3. **Create a self-sustaining market** for workplace charging



C@W Resource Center & Project Builder

Free charging project management tool supports employers by providing:

- Equipment and Installation Cost Estimates
- Incentives Database
- Charger Catalog
- Project Planner
- Free Site Assessments



Build Your Project



Let's understand your workplace charging needs

We need to understand your project so we can recommend the appropriate electric chargers, identify incentives, and estimate costs and timelines.

Get Started

Preview An Example Project



Tell us about your organization



Share your workplace details



Choose your chargers



Plan your financing

Dashboard

Project Status

Estimated Cost 🔍
\$115,499

Project Completion 🔍
6 months Oct 24, 2024



- Overview
- Incentives
- Financing
- Charging
- Process
- Uploads

View: 1 Year Lifetime

Charger Sets ⌵

Set 1
Level 2 - 7.2 kW

Per Charger **Total**

Quantity	7	
Price	\$350	\$2,591
Ports	1	7
kW Output	7.2 kW	50.4 kW
Amps	30 amps	210 amps
Plug Type	J1772	

Assumptions ⌵

Zip code

Used to check incentive applicability

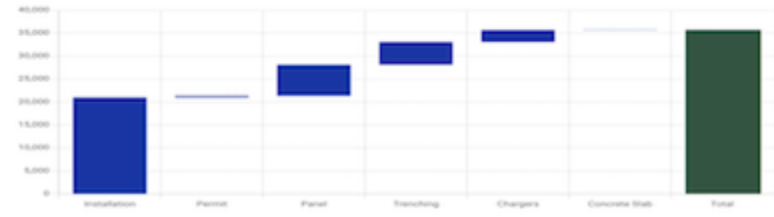
Project number of years of operation

Average vehicle weekday mileage

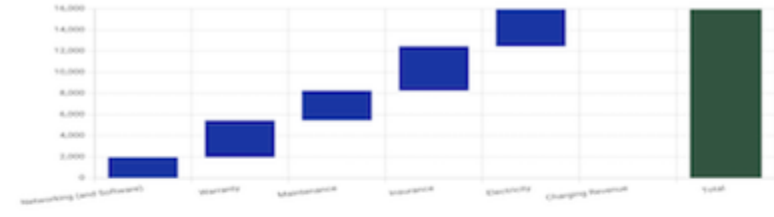
EV efficiency (kWh/Mile)

Charging Revenue

Total Costs (CapEx)



Total Costs (OpEx)



Cost Details - Cash ⌵

CapEx		OpEx	
Installation	\$21,000	Networking (and Software)	\$1,960
Permit	\$350	Warranty	\$3,500
Panel	\$6,750	Maintenance	\$2,800
Trenching	\$5,000	Insurance	\$4,200
Chargers	\$2,591	Electricity	\$3,491
Concrete Slab	\$54	Charging Revenue	\$0
Total	\$35,745	Total	\$15,951

Cost Worksheet

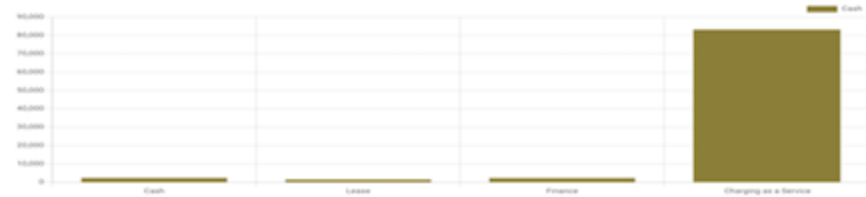
Charger Set: Set 1 | Finance Type: Cash

Financing Cost Assumptions

Sales Tax (%): 5.75
5.75% sales tax would be \$141

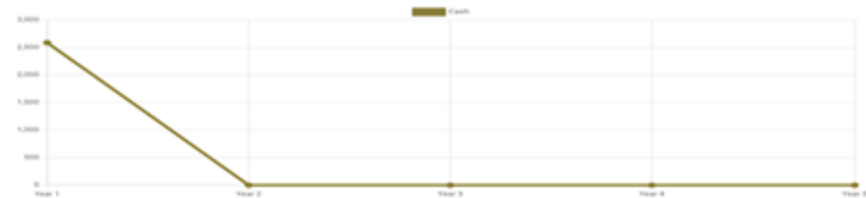
SIMPLE | DETAILED

Financing Costs



Modeling total costs in present dollars, excluding consideration of discount rate. On chart hover labels, principal includes taxes and fees, less discount. The total includes the principal and interest amounts.

Cash Flow



Showcasing cash type based on your input.

Resale Value Assumptions

We use the following standard depreciation formula for calculating resale value:
$$\text{resale value} = \text{purchase cost} - (\text{purchase cost} * (1 - \text{annual depreciation rate} / 100)^{\text{project lifetime}})$$

Charger Costs

Edit your charger set from the left panel to update these cost estimates.

Total estimated purchase costs: \$2,591

Average monthly electricity cost: \$291

Project Planner

Project Status

Estimated Cost **\$115,499**

Project Completion **6 months** **Oct 24, 2024**

Charge@Work Analysis **Utility Intro** **Design** **Installation**

1

Charge@Work Analysis

Not started **On time**

Projected Completion: 05/13/24 **Estimated 27 days until completion**

[Upload](#) [Complete](#)

2

Utility Intro

Interest Form

In Progress **On time**

Projected Completion: 05/14/24 **Estimated 28 days until completion**

A form to connect with your utility account manager, share your business and charging needs, and begin the planning process.


[Upload](#) [Complete](#)

Intro Call

Not started **On time**

Projected Completion: 05/15/24 **Estimated 29 days until completion**

In an introductory call for charging infrastructure installation, your utility will determine where you are at in your charging journey, what your goals are, and how the utility can help you achieve them. The utility may assess your location's electrical capacity and provide options for charging infrastructure based on their assessment. Early interaction can help the utility address load forecasting and ensure that EVs have a viable place to charge.

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chargeatwork.org

Electrify Your Workplace with Charge@Work

1. Sign up for updates – www.chargeatwork.org
2. Start planning with our Project Builder
3. Sign up for a free site assessment
4. Take the Charge@Work pledge

Employer Engagement with Charge@Work

- Announce new chargers at your worksites!
- Announce incentive and rebate programs
- Host webinars, ribbon-cuttings, and ride-and-drive events
- Share resources and case studies
- Sign the Charge@Work pledge!

Examples of Current Pledges



Questions?



CC&C Northeast Regional Call

BECOME A LEADER IN WORKPLACE CHARGING

Aleksandra Evert

August 27, 2024





Forth's mission is to electrify transportation by bringing people together to create solutions that **reduce pollution** and **barriers to access**.

Electric Vehicle Adoption in the U.S.

In **2023**, a record **1.4 million** electric vehicles were sold in the U.S., approximately a **50%** increase from the year prior.

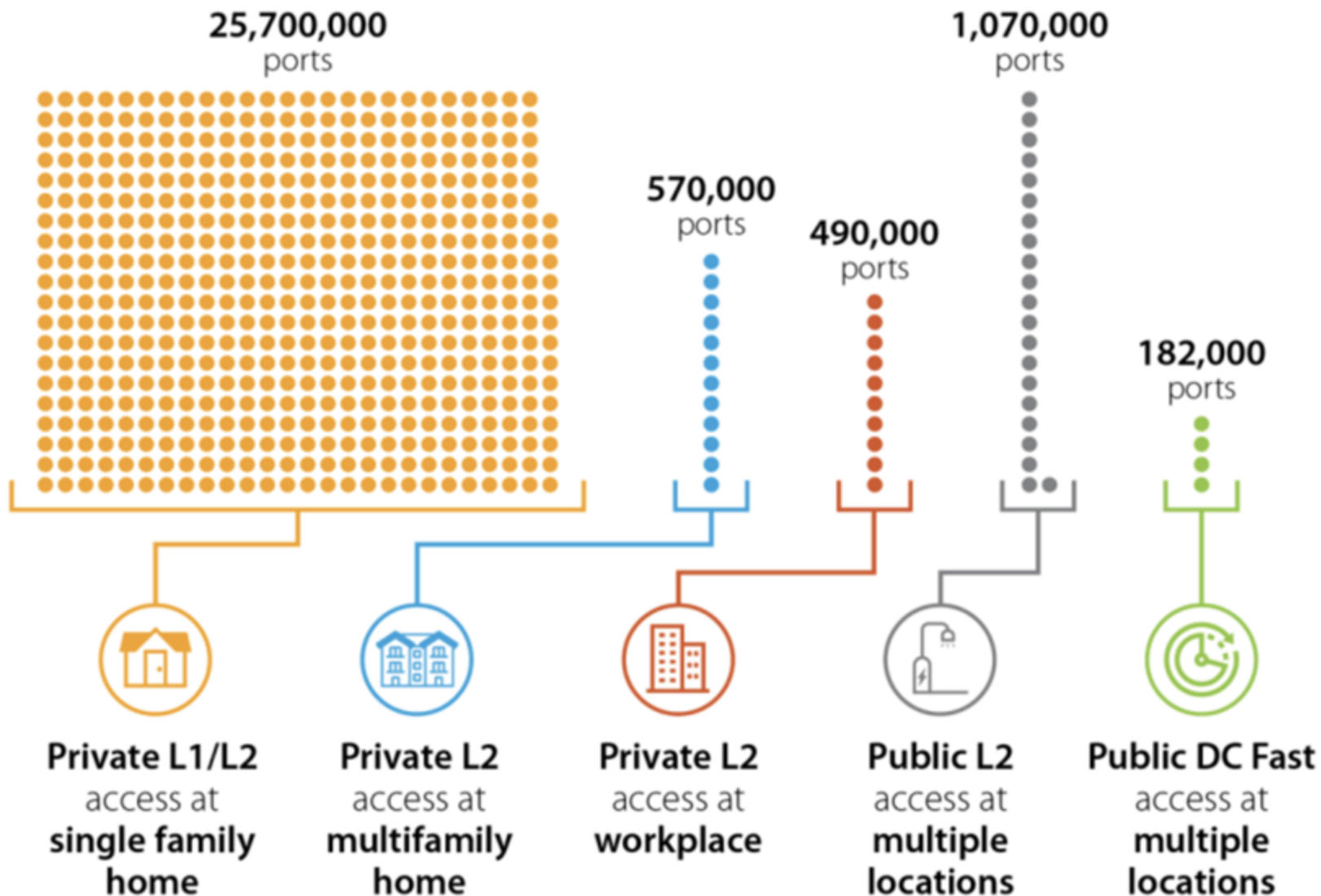
Statement by U.S. Energy Secretary Jennifer M. Granholm on 2023 EV Sales



2030 National EV Charging Network Size

Each ● represents 50,000 charging ports

Estimated Number of EV Charging Ports Needed to Support 33 Million EVs (Total of 28 Million Ports)



Besides Home, Charging at Work is the Preferred Option

WORKPLACES ARE THE SECOND MOST LIKELY LOCATION FOR EV OWNERS TO CHARGE



On the
Road

At Work

At Home

20% of Americans, and an even higher percentage of low-and moderate-income drivers, live in buildings that do not have access to off-street parking to charge an EV



Workplace Charging is **Good** for the Environment

Greenhouse Gas

Commuters

Carbon Emissions

30%

of all greenhouse gas emissions are generated by the transportation sector



Workplace Charging is **Good** for the Environment

Greenhouse Gas

Commuters

Carbon Emissions

4.6

metric tons of CO₂ emitted
from a typical passenger
vehicle per year



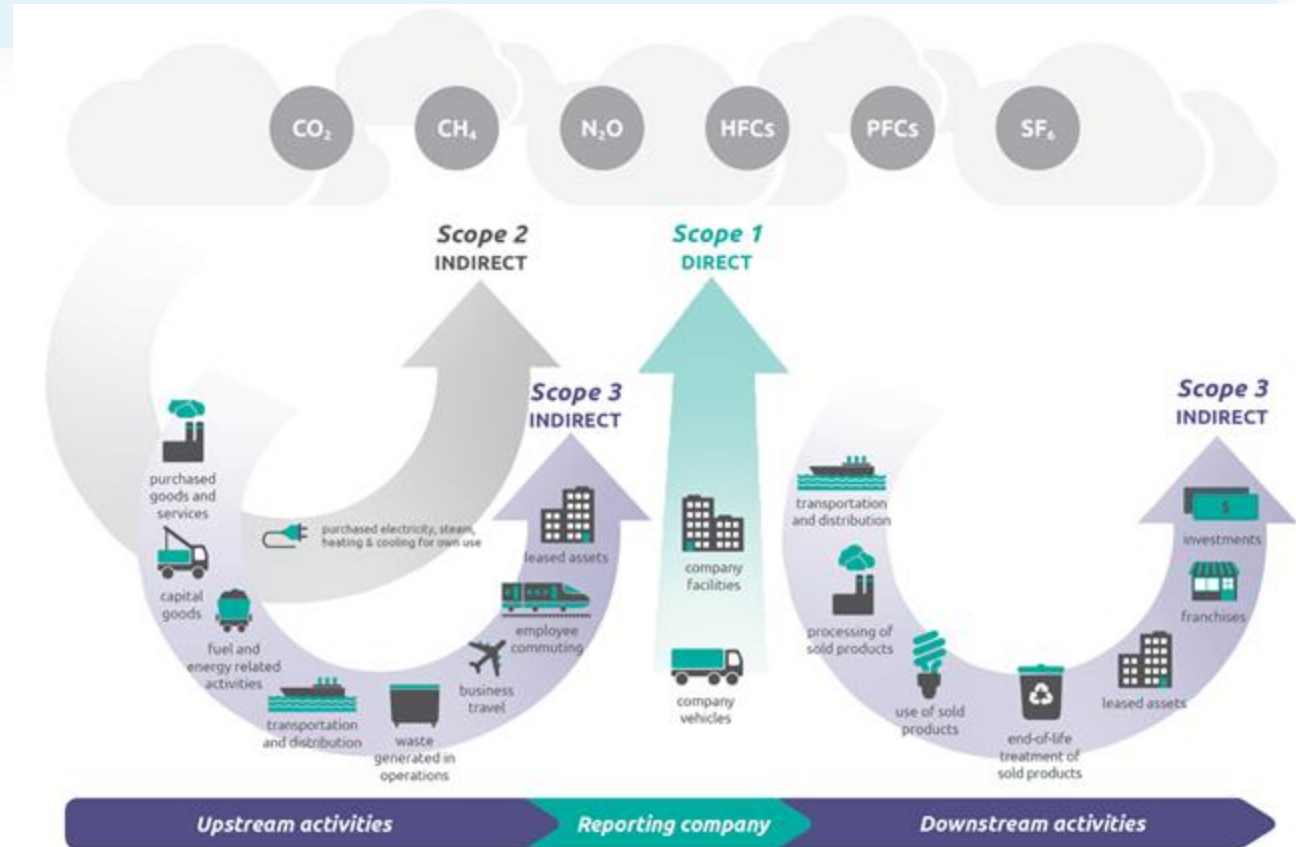
Workplace Charging is **Good** for Employers

Employers

- Improve employee retention and recruitment
- Align and enhance company values
- Support ESG reporting by lowering Scope 3 emissions

Employees

- Increase access to EV charging
- Range confidence for employees
- Free or discounted charging



Helping Businesses Promote Sustainable Employee Commute

Proudly presented by



What is EVAL?

Electric Vehicle Adoption Leadership (EVAL) is a certification program that provides technical assistance and recognition to organizations that support the adoption of clean transportation.



15 - 39
points



40 - 54
points



55 - 69
points



70 - 100
points

EVAL Objectives

Our goal is to execute a **nationwide workplace charging program** comprised of education, outreach and technical assistance activities that enables a large-scale increase in workplace charging.



EVAL Eligibility

Organizations of all sizes from all industries, including community-based organizations and nonprofits, are eligible to apply.

Home offices and organizations providing charging for fleet vehicles exclusively are *not* eligible to apply.

Easy Certification Process

1

Create an account by completing an onboarding survey

2

Add your worksite and complete the EVAL certification questionnaire

3

Connect with Forth or partners for technical assistance


4

Achieve a certification tier and join a community of sustainability leaders!

Easy Registration Process

Create an Account

1 About You 2 About Your Organization 3 About Your Role



1. About You
Let's start with some introductions... Who do we have the pleasure of meeting?

1) Name & Contact Info


FILL IN FIELDS BELOW

First Name *

Last Name *

Create an Account

1 About You 2 About Your Organization 3 About Your Role



2. About Your Organization
Let's learn a little bit more about your organization...

1) Name of Your Organization

FILL IN FIELDS BELOW

Name of Your Organization *

Organization's Legal Name (if different)

Certification Includes:

Employee
Engagement

Understanding employee e-mobility needs

Planning &
Evaluation

Initiating planning and evaluation for the workplace charging program

Mobility
Incentives

Incentivizing the adoption of e-mobility

EV Charging

Expanding access to EV charging stations

Innovation

Showcasing sustainability leadership through innovative and regional programs

One Application for Multiple Worksites

Site Locations

Use the table below to add locations that you would like to certify.
If you have hundreds of locations to add, you can [use a spreadsheet](#) to streamline the process.

ADD AN OFFICE / LOCATION

Location Name	City, State	Certification Status	Details
Add a Location:			
<input type="text" value="Location Name *"/>			
<input type="text" value="Street Address *"/>		<input type="text" value="City *"/>	<input type="text" value="State ▼"/> <input type="text" value="Zip *"/>
<input type="text" value="# Parking Spaces *"/> 0	<input type="text" value="# L1 Ports *"/> 0	<input type="text" value="# L2 Ports *"/> 0	<input type="text" value="# DCFC Ports *"/> 0
<input type="button" value="DISCARD"/>		<input type="button" value="SAVE"/>	

How Much Does It Cost?

- The EVAL Certification application fee is waived until October 2024.
- After November 1, 2024, a fee will be implemented to certify each location.
- EVAL is a lifetime certification that does not require recertification.

Recognition

Industry Energy & Utilities

City of Passaic honored nationally for EV charger installation

Municipality earned gold-level EVAL certification for EV Charging Stations

By Benjamin Bergeron (Passaic) - August 13, 2024



Dynalectric Oregon

1,085 followers
3w · 🌐

+ Follow ...

We recently installed four new electric vehicle (EV) chargers in our parking lot, which our employees are able to use for free. This investment in sustainability earned us the Electric Vehicle Adoption Leadership (EVAL) certification from the U.S. Department of Energy!

Transportation is the biggest source of greenhouse gas emissions in the country, with the average passenger vehicle emitting 4.6 metric tons of CO2 annually. By supporting EVs, we're helping reduce our environmental impact.

We're proud to be a leader in clean commutes!

#EMCOR #Sustainability #ElectricVehicles #CarbonFootprint



Maryland Department of General Services Receives EVAL Gold Certificate for State Center EV Chargers

March 25, 2024

BALTIMORE, MD – The Maryland Department of General Services was awarded Forth's [Electric Vehicle Adoption Leadership \(EVAL\)](#) Gold certification for leadership in promoting the transition to zero emission vehicles through workplace charging. Forth is a nonprofit organization dedicated to increasing equitable access to electric transportation. The EVAL program is a national workplace charging certification program that provides recognition and technical assistance to organizations supporting the adoption of clean transportation.



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Technical Assistance

- Webinars
- Template surveys and forms
- Directory of local providers and installers
- Employee education resources
- Program Implementation Guide
- Best practices



CHARGING 101

So, you're thinking about going electric. Great! The number of charging stations keeps increasing, making getting from point A to point B as easy as 1, 2, 3. Plus, charging is becoming more convenient and faster – you can charge at home, on your road trips, and even at work!

Charging Levels

- Level 1**
 - Plug into a 120-volt grounded outlet
 - Adds 2-5 miles of range per hour
 - Fully charge in 12+ hours
 - Great for short commutes under 50 miles or infrequent car use
- Level 2**
 - Plug in through a 240-volt outlet
 - Adds roughly 25 miles of range per hour depending on vehicle
 - Fully charge in 8+ hours
 - Ideal for charging at home or work
- DC Fast Charging**
 - CHAdeMO
 - CCS Combo
 - Tesla
 - Public sites only due to electrical constraints
 - Adds up to 200 miles of range per hour
 - Fully charge within 1 hour
 - Ideal for charging on long road trips with quick stops, or when short on time

Quick Facts

- There are over 900 public charging stations & 2,300 charging ports in Oregon
- Chargers range from simple plug-and-go to smart chargers that can be programmed to start and stop when you choose
- The average commute for Americans is 35 miles per day

Public Charging Networks

When charging at a public station, you'll likely use a charger that's serviced by a network. Many have membership programs or subscriptions (you can download the app on your phone) and you can often pay as you go.

Membership with these networks usually includes a member discount or if you're not a member you can call the 24-hour customer service line to pay on the spot.

Rates vary by network – some charge by session, per energy unit, by the hour, and some are free.

ChargePoint, Electrify America, Blink Charging, Tesla, EVgo, Shell Recharge, and SemaConnect are the most common network providers in the U.S.

Finding Public stations

Resources and apps like PlugShare, ChargeMap, or the Alternative Fuels Data Center give real-time information on charging station locations, pricing, nearby amenities, and availability. Google Maps also now shows charging station locations.

Charging stations can be anywhere – at grocery stores and shopping centers, rest stops on the highway, and even at your workplace. You can run errands and grab a meal while you're charging up, plus some charging stations can communicate with your car and phone so you control when charging occurs.



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Charge@Work provides tools, resources and technical assistance to make workplace charging a reality.

How?

- Connect with federal and local incentive programs
- Create a site plan
- Identify which technologies work best for organizations
- Gauge worker interest in EVs

EVAL Statistics



39 Worksites
Platinum
Certified

172 Worksites
Certified,
including:

- 7 Universities
- 15 Cities
- 4 Major Utilities

54 Worksites
Gold Certified



Join the Certified Sustainability Leaders



What's Next?

- Join the upcoming workplace charging webinar series: <https://www.bestworkplaces.org/events>
 - 8/29: Workplace Charging for Nonprofits
 - 9/5: Workplace Charging for Small Businesses
 - 9/12: Workplace Charging for Governments
 - ➔ 9/19: Workplace Charging for Transportation Management Associations (TMA)
- Review technical assistance resources: <https://www.evalcertification.org/resources>
- Start the **EVAL Certification**: <https://www.evalcertification.org/certification>
- Sign the [Charge@Work Pledge!](#)

A scenic landscape photograph showing a winding asphalt road that curves through a valley. The road is flanked by green grass and scattered trees. In the background, a range of mountains is visible under a dramatic sunset sky with warm orange and yellow tones. The sun is positioned behind a mountain peak, creating a lens flare effect.

Questions?



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