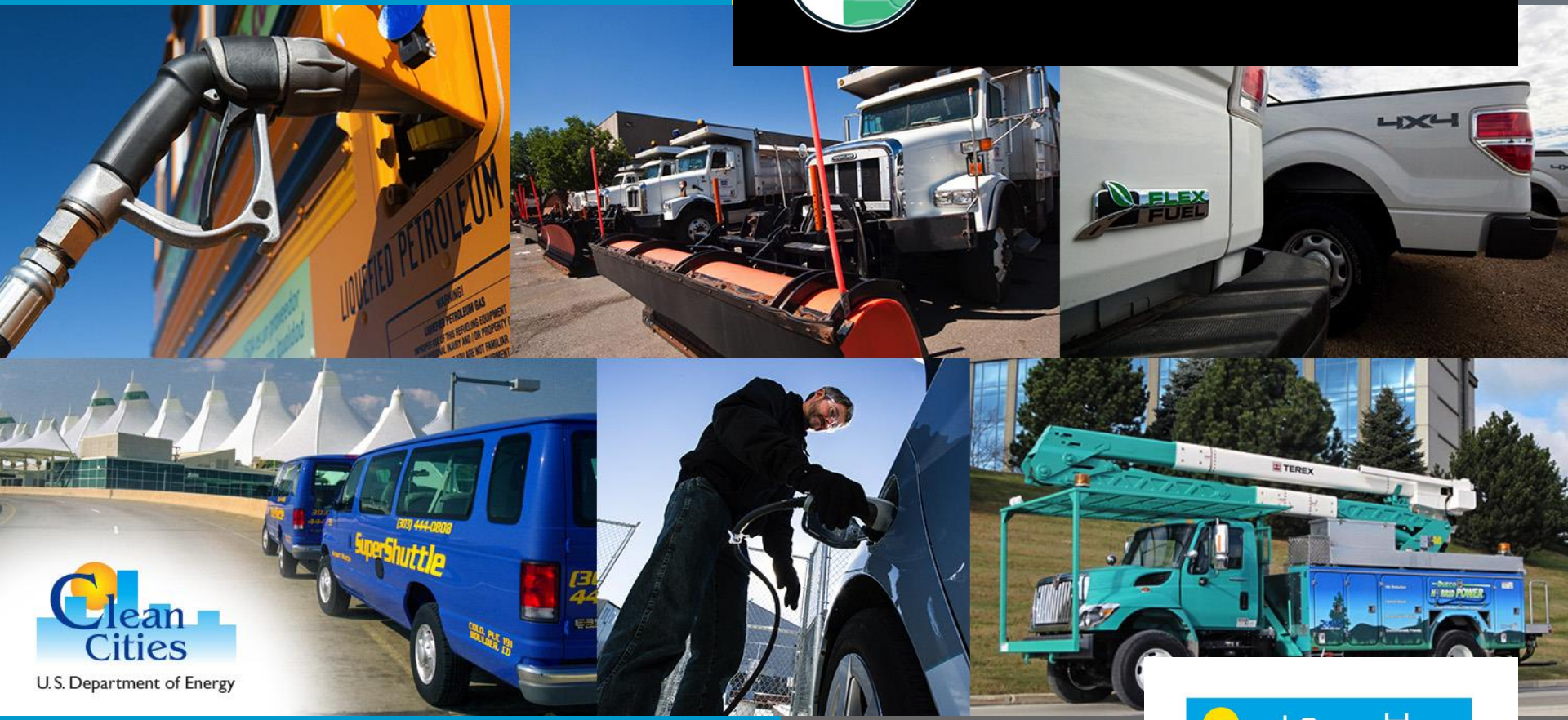
Workplace Charging

CHARGE@WORK



Odyssey Day

October 6, 2023

[Charge@Work — Powering Workplace Charging (chargeatwork.org)]

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PITTSBURGH REGION CLEAN CITIES

PRCC EV Charging & Infrastructure | PRCC (pgh-cleancities.org)

PITTSBURGH REGION CLEAN CITIES

EV Charging Infrastructure Needs are Growing in Western PA – Will We Be Ready?

In the first quarter of 2021, electric vehicles (EVs) accounted for 15% of U.S. passenger vehicle sales. All indicators point to vehicle electrification gaining even more ground through 2030, meaning EVs will play a significant role in Pennsylvania's transportation future. As the premier mode of emissions-free transportation – an increasingly important consideration for Western Pennsylvania's climate-conscious citizens – EV benefits also include lower total operating and maintenance costs, which should make EV adoption a no-brainer. Yet the lack of access to public EV charging amenities remains a major barrier to adoption, particularly for those who cannot charge at home. Convenient, affordable, publicly-available charging stations improve the feasibility of EVs by allowing drivers to recharge or 'top-off' their cars' batteries while away from home.

In the International Council on Clean Transportation's 2015 U.S. City Electric Vehicle Profile Project, which analyzed the 25 most-populous U.S. metro areas, Pittsburgh ranked 22nd for most extensive public electric charging infrastructure. Gas stations outnumber EV charging stations by about 7:1 in the region, underscoring the need for further investment in charging stations to encourage rapid, widespread EV adoption in the Pittsburgh area.

Across PA, more than 4,300 DC Fast Charging stations and nearly 50,000 public and workplace Level 2 charging stations are needed by 2035 to support the growing number of electric vehicles.

Charging for All

While most EV drivers do the majority of their charging at home, not everyone has the ability to charge at home, such as those living in multi-unit dwellings or with on-street parking only. Drivers across all EV applications must be supported with adequate access to charging infrastructure for transportation electrification to be successful. Convenience and accessibility of public EV charging infrastructure will be a limiting factor to more widespread EV adoption. Additional charging is needed in these locations:

At Workplaces
Employees with access to workplace charging are six times more likely to consider driving an EV.

In Public
Helps EV drivers that need a moderate amount of charging while on the go, especially for those without home charging.

Along Transit Corridors
Installing DC Fast Charging stations allows EV drivers to plan and complete long road trips with ease.

Additionally, charging infrastructure needs to be deployed equitably to include disadvantaged communities. The public needs ongoing education about the features, advantages, and benefits of driving and fueling an electric vehicle and all must have opportunities to experience electric mobility.

Highlighting Success

Eastside Bond
In 2019, Mosites Development Company added eight Level 2 charging station ports to the Eastside Bond Garage in the East Liberty neighborhood of Pittsburgh. Conveniently located in a transit-oriented development next to the MLK Jr. East Busway, this project was supported by Duquesne Light Company.

Giant Eagle's GetGo
Based in Pittsburgh, Giant Eagle's GetGo opened its first public charging station in Washington, PA in 2019 and plans to soon launch its own proprietary, universal charging station to place at GetGo locations across its markets, including western Pennsylvania.

Pennsylvania State Parks
In 2018, the Pennsylvania Department of Conservation and Natural Resources began installing 40 charging stations at state parks throughout the Commonwealth, including Raccoon Creek, Moraine, Presque Isle, Ohiopyle, McConnells Mill, Oil Creek, Cooks Forest, Pymatuning and Keystone state parks in western Pennsylvania to help reduce greenhouse gases, lessen smog, and improve air quality statewide.

Funding Opportunities

Alternative Fuel Infrastructure Tax Credit	Those installing EVSE may be eligible for a federal tax credit of 30% of the cost, not to exceed $30,000. Consumers who purchase qualified EVSE may receive a tax credit of up to $1,000. For more info, see: https://afdc.energy.gov/laws/10513.
Alternative Fuels Incentive Grant Program	A competitive state grant program that provides reimbursement toward EV charging station installation costs for PA municipal authorities, political subdivisions, non-profits, corporations, and limited liability companies or partnerships incorporated or registered in the Commonwealth. Grant amounts and calls for applications vary annually. For more info, see: https://www.dep.pa.gov/Citizens/GrantsLoansRebates/Alternative-Fuels-Incentive-Grant/Pages/default.aspx.
Driving PA Forward Electric Vehicle Supply Equipment (EVSE) Rebate	A non-competitive state rebate for the acquisition, installation, operation, and maintenance of Level 2 EVSE. Eligible projects must be on publicly accessible government-owned or non-government-owned property, at workplaces, or at multi-unit dwellings. For more info, see: https://gis.dep.pa.gov/DrivingPAForward.
Driving PA Forward Electric Vehicle Supply Equipment (EVSE) Infrastructure Grants	A competitive state grant program for the acquisition, installation, operation, and maintenance of publicly available DCFC infrastructure. Eligible project locations are transportation corridors, destination locations, and locations that serve as community charging or fueling hubs. For more info, see: https://gis.dep.pa.gov/DrivingPAForward.

Charge to Work USA is a nationwide workplace charging acceleration program consisting of education, outreach and technical assistance

Objectives

1. **Create a self-sustaining market** for workplace charging
2. **Spur greater EV adoption** by enhancing driver confidence in charger availability
3. **Expand access** to electric mobility in disadvantaged communities

Targets

- 1,000
- Employer commitments to adopt workplace charging programs and install charging ports at their workplaces
- 100,000
- Electric vehicle support equipment port installations

Charge to Work USA has four tasks: a national influence/recognition campaign, employer recruitment, WPC technical assistance, and data collection

National Influence and Recognition Campaign

- **Strategy to engage and mobilize public officials** to be key influencers and support employer recruitment, including recognition of participating employers

Employer Recruitment

- **Campaign to promote awareness and incentivize WPC adoption** by businesses, through social and earned media, events and conferences.

WPC Technical Assistance

- The **Workplace Charging Resource Center (WCRC)** will be a one-stop shop on WPC for employers and employees, with interactive tools for WPC program design and adoption including an implementation portal for companies to access **site assessment and EVSE installation support**.

Data Collection and Analysis

- **Data collection strategy** on program performance that includes installation, behavioral and planning data about employers and employees. Data will inform strategies and track progress.

Charge@Work

Charge@Work is devoted to:

- Increasing the availability of electric vehicle (EV) charging at workplaces nationwide
- Decreasing the impacts of transportation pollution on the climate and public health
- Supporting active leadership from both the public and private sector to create an effective and efficient national electric vehicle charging network
- Helping workplaces and workers take advantage of the environmental and economic benefits of electric transportation

Supporting American workplaces in the development of clean transportation resources and technologies by providing technical, practical, and financial solutions

- We are committed to working with Charge@Work to include electric vehicle charging and clean transportation access at our workplace

1: Three Main Benefits

Environment

Employees

Leadership

1: Reducing Environmental Impact

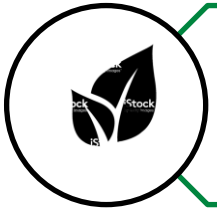
Environment

Employees

Leadership

- Reduces Scope 3 greenhouse gas (GHG) emissions
- Reduces tailpipe emissions
- Provides recognition

1: Supporting Employees



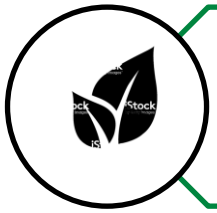
Environment

Employees

Leadership

- Supports employees
- Doubles commuting range
- Differentiates employers

1: Demonstrating Leadership



Environment

Employees

Leadership

- Demonstrates adoption of new technologies
- Shows public commitment to environment

2: Networks

3: Involved Players

3: Evaluating Demand

- Employee Surveys
- Employer Goals

CHARGE@WORK
POWERING WORKPLACE CHARGING

Sign the pledge to accelerate workplace charging!

chargeatwork.org/pledge

We are your EV workplace charging concierge.

Questions

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Charge at Work