



# FLEET CHARGING

## PROGRAM GUIDE

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## A Message From DLC

At Duquesne Light Company (DLC), we're proudly working towards a larger than light, clean energy future for all, which requires us to deliver exceptional results today and boldly harness opportunities for tomorrow. We recognize electricity is fueling a new era of mobility in the Pittsburgh region and we're here to help customers like you navigate the transition so you and your organization can experience the benefits of electric mobility.

As the number of electric vehicles (EVs) on our roadways quickly accelerates, we can help ensure you're prepared to achieve operational savings by electrifying your fleet and installing charging. Through our Electric Fleet Advisory Service, we'll analyze your fleet data and work closely with you to understand your fleet requirements so we can provide you with a free customized roadmap to fleet electrification.

Once you complete the Electric Fleet Advisory Service or create an electric fleet plan of your own, you may be able to receive incentives and assistance for the installation of fleet charging infrastructure through DLC's Fleet Charging Program. For eligible projects, we'll design and build the electric infrastructure from the power grid to the charging station, and you also may be eligible for a rebate covering up to 50% of the charging station cost.

Whether you're already electrifying your fleet or you're just getting started, we're here to be your trusted partner on fleet electrification and charging. If you have any questions as you explore this information, please don't hesitate to reach out to our team of EV Specialists here at DLC at [electricvehicles@duqlight.com](mailto:electricvehicles@duqlight.com).

# Market Overview

## ELECTRIC FLEETS ARE ON THE RISE



# 60%

According to a 2021 BloombergNEF report, nearly 60% of light-duty and more than 30% of medium-duty commercial vehicle sales are expected to be electric by 2040.



# 1/3

Fueling electric fleet vehicles is significantly cheaper than gas- or diesel-powered vehicles as an electric gallon equivalent is 1/3 the cost of a gallon of gas.



# 20%+

Transportation makes up more than 20% of greenhouse gas emissions in Pennsylvania, giving your organization an opportunity to reduce its carbon footprint with zero emission fleet vehicles.

## ELECTRIC FLEET COMMITMENTS

# All-electric by 2035

### U.S. Federal Fleet

The federal fleet is made up of more than 600,000 vehicles and they have committed to electrifying 100% of their fleet by 2035, including 100% of their light-duty fleet by 2027.

# \$100 Billion Invested

### Amazon

In 2021, Amazon invested more than \$100 billion in electric automaker, Rivian, and ordered 100,000 electric delivery vans from the company.

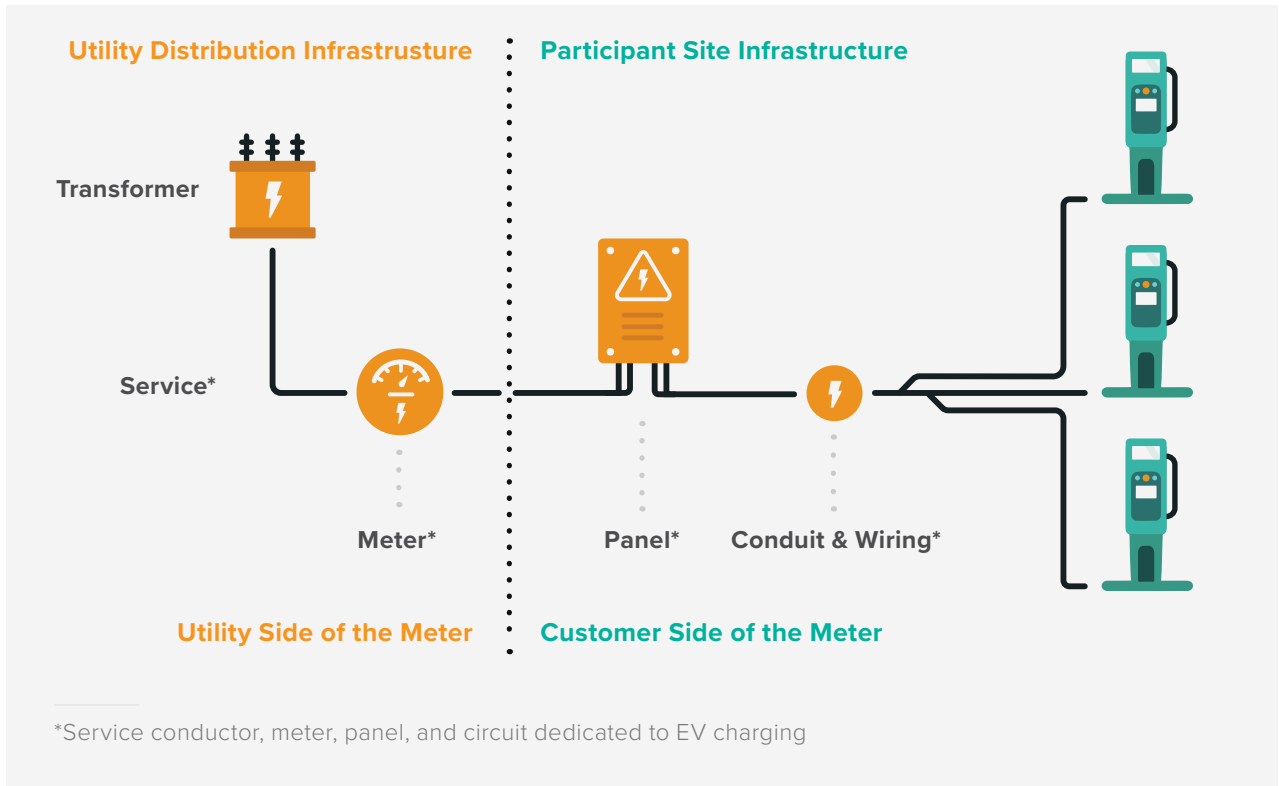
# All-electric by 2040

### FedEx

FedEx has set a goal to operate an all-electric, zero-emission global pickup and delivery fleet by 2040.

# How the Program Works

Through our Fleet Charging Program, we're teaming up with commercial, non-profit, and municipal fleet operators to make installing EV charging easier. For eligible projects, we'll design and build the electric infrastructure from the power grid up to the charging station. All you need to do is install the charging station, and you also may be eligible for a rebate covering up to 50% of the charging station cost.



● Covered by DLC Program

● Covered by Customer

## EV SERVICE CONNECTION

DLC completes distribution service upgrades as needed. In some cases, customers may be required to contribute cost share to the upgrade. Your DLC EV Specialist will help you identify these costs upfront.

## EV MAKE-READY

DLC will design, build, maintain, and cover costs for the EV make-ready infrastructure from your meter to your charging station equipment, such as the panel, conduit, and wiring.

## CHARGING EQUIPMENT

Customer procures, installs, maintains, and operates the charging station equipment. DLC will provide the customer with a rebate of up to 50% of the charging station cost and help them identify if they qualify for any federal or state incentives.

# Program Process Flow

## REVIEW THE PROGRAM REQUIREMENTS

Using this guide, review the program's requirements and discuss your potential project with an EV Specialist at DLC. They'll work with you to design an effective project, answer questions, and guide you through the program process.

STEP  
1

## COMPLETE YOUR APPLICATION

With the help of a DLC EV Specialist, gather all the necessary information for your project, select your charging station, and submit your application to DLC.

STEP  
2

## PROJECT EVALUATION

After we receive your application, we'll evaluate the eligibility and feasibility of your project using the information you provide and by performing an on-site assessment.

STEP  
3

## PROJECT DESIGN

For qualified projects, DLC will prepare an estimated project cost structure and a customer agreement outlining responsibilities for the project. You'll purchase your charging station, and we'll work together to complete site design, engineering, easement, and permitting.

STEP  
4

## CONSTRUCTION & COMMISSIONING

We'll install the electrical make-ready between the power grid and the charging station, and then you or your contractor will install and commission the charging station equipment. Following the commissioning, DLC will provide you with a rebate of up to 50% of the charging station cost.

STEP  
5



## Program Requirements: Customer & Site Expectations

### SITES MUST MEET THE FOLLOWING TO PARTICIPATE:

- Located in DLC's service territory within Allegheny or Beaver County
- Host an on-road fleet of at least six vehicles

### CUSTOMERS MUST MEET THE FOLLOWING TO PARTICIPATE:

- Have authority over the site parking facility and electrical access
- Agree to provide DLC with the right-of-way easement necessary to install and maintain make-ready charging infrastructure
- Demonstrate EVs are currently in-use at the site or provide proof of purchase.
- Ability to install at least two dual-port Level 2 charging stations

### CHARGING STATION SITE DESIGN CONSIDERATIONS:

DLC will evaluate the cost-effectiveness of each proposed site. For your site to be cost-effective, the charging station installation should:

- Be as close as possible to the site's existing transformer
- Be served by an above-ground transformer with 120/208 secondary voltage
- Be grouped in the same location (e.g., same area of parking lot)
- Take advantage of the ability to mount equipment on existing walls
- Limit the amount of trenching required, especially paved surfaces



## Program Requirements: Key Responsibilities

### CUSTOMER

1. Submits a program application.
2. Signs a customer agreement and provides DLC with right-of-way easement.
3. Purchases and installs charging station hardware from DLC's qualified product list.
4. Maintains charging stations in good working order and subscribes to charging station network service for ten years.
5. Pays for electric service to the charging stations.
6. Directs charging station network vendor to provide DLC with charging station usage data for ten years.

### DLC

1. Works with you to help you assess your unique EV charging needs, explore available solutions, and submit a program application.
2. Covers costs and completes engineering design, permitting, and construction of the make-ready infrastructure for your charging station project.
3. Provides up to 50% rebate on Level 2 charging stations.
4. Assists with identifying and applying for other state and federal incentives to cover the costs of the charging stations.
5. Ensures make-ready infrastructure stays in good working order for ten years, following which the customer will take over ownership and maintenance of the make-ready infrastructure.



# Plan Your Project: Start by Choosing Your Charging Station

## CHOOSE YOUR HARDWARE BEFORE YOU APPLY

To take part in the Fleet Charging Program, you must install at least two dual-port, networked Level 2 charging stations. It's important to choose your charging station hardware and network from DLC's qualified product list and receive a vendor quote for your selections before you apply for the Fleet Charging Program. Your choice will affect the information you'll need to include in your application, such as the equipment's capacity and load requirements, and cost information from your vendor quote will be used to inform any applicable charging station rebate amount.

## QUALIFIED PRODUCTS

Review Fleet Charging Program qualified products<sup>3</sup> and find vendor representative contact information by scanning the QR code or navigating to the webpage below.

[www.DuquesneLight.com/QualifiedChargingProducts](http://www.DuquesneLight.com/QualifiedChargingProducts).



<sup>3</sup>Additional products that meet the Company's safety and technical standards may be added over the lifetime of the program.

## FUNDING

You may be eligible for additional federal, state, and DLC funding to help cover the costs of your charging equipment and installation, such as:

- **Driving PA Forward Level 2 EV Charging Rebate Program** — Covers up to 50 – 80% of Level 2 charging station equipment costs.
- **Alternative Fuels Incentive Grant (AFIG)** — Approximately \$5 million in grants is made available annually for alternative fuel vehicle retrofitting, purchasing, and refueling, including electric vehicles and charging.
- **Duquesne Light Company** — Fleets may be eligible for a rebate of up to 50% on their charging station equipment as part of DLC's program.

Your DLC EV Specialist will help you find and apply for any added funding you may be eligible for to ensure your costs are minimized.

## COST GUIDELINES FOR YOUR EV CHARGING STATION EQUIPMENT

| Charging Type                        | Power Level | Price Range        |
|--------------------------------------|-------------|--------------------|
| <b>Networked Level 2 (Dual-Port)</b> | <8 kW       | \$2,500 - \$9,000  |
| <b>Networked Level 2 (Dual-Port)</b> | 9-20 kW     | \$4,000 - \$10,000 |

## ADDITIONAL COST CONSIDERATIONS

| Cost  | Price Range (\$) per dual-port L2 Charging Station |
|---|--|
| <b>Maintenance &amp; Warranty</b>                               | \$350 - \$950 per year                             |
| <b>Network Fee</b>  | \$360 - \$780 per year                             |
| <b>Electricity</b>  | Varies by site                                     |
| <b>Other one-time fees (tax, delivery, commissioning, etc.)</b> | \$200 - \$700                                      |



## Plan Your Project: Get Ready to Apply

Your DLC EV Specialist will provide you with the Fleet Charging Program application and help you complete it by gathering the information below.

### USE CASE

- Does your fleet operate within or serve disadvantaged communities in Environmental Justice Areas?
- How many and what type of on-road fleet vehicles are located at the proposed site?
- What is your desired charging station installation timeframe?

### SITE ASSESSMENT

- How many EV charging ports are currently installed at the site (if any)?
- Where would you like the charging stations to be installed (surface lot, parking garage, etc.)?
- Will you or the property owner be able to provide a right-of-way easement?

### EXISTING ELECTRICITY SERVICE

- Site address, census tract, & parcel ID
- DLC account, meter, & transformer numbers
- Details of current DLC service (overhead or underground, single or three phase, etc.)

### CHARGING STATIONS

- How many charging station ports will you be installing?
- What type of charging station equipment are you installing (make, model, etc.)?
- What is the current (amps) and electrical output (kW) requirements for your charging station equipment?



## Project Evaluation



### REVIEW

After you submit your application, DLC will review it and let you know if more information is needed.



### ASSESSMENT

DLC will schedule a site visit to evaluate the existing electric service, and get an understanding of what will be needed to install electric infrastructure from the power grid up to the charging station.



### APPROVAL

Projects that are deemed eligible and feasible will be approved for participation in the program.

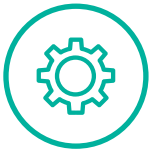
# Project Design

Once your project is approved for participation in the program, we'll work with you to design the project by taking the following steps:



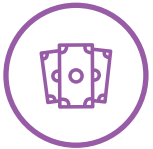
## 1. AGREEMENT

DLC will provide you with an estimated project cost structure and an agreement outlining DLC and your responsibilities for the project.



## 2. SITE DESIGN & ENGINEERING

After your agreement is executed, DLC will work with you to create the site design and engineer your project.



## 3. PURCHASE CHARGING STATION

If you haven't already, you now must buy your charging station from DLC's qualified product list and supply proof of hardware purchase and network service subscription to DLC.



## 4. PERMITTING & EASEMENT

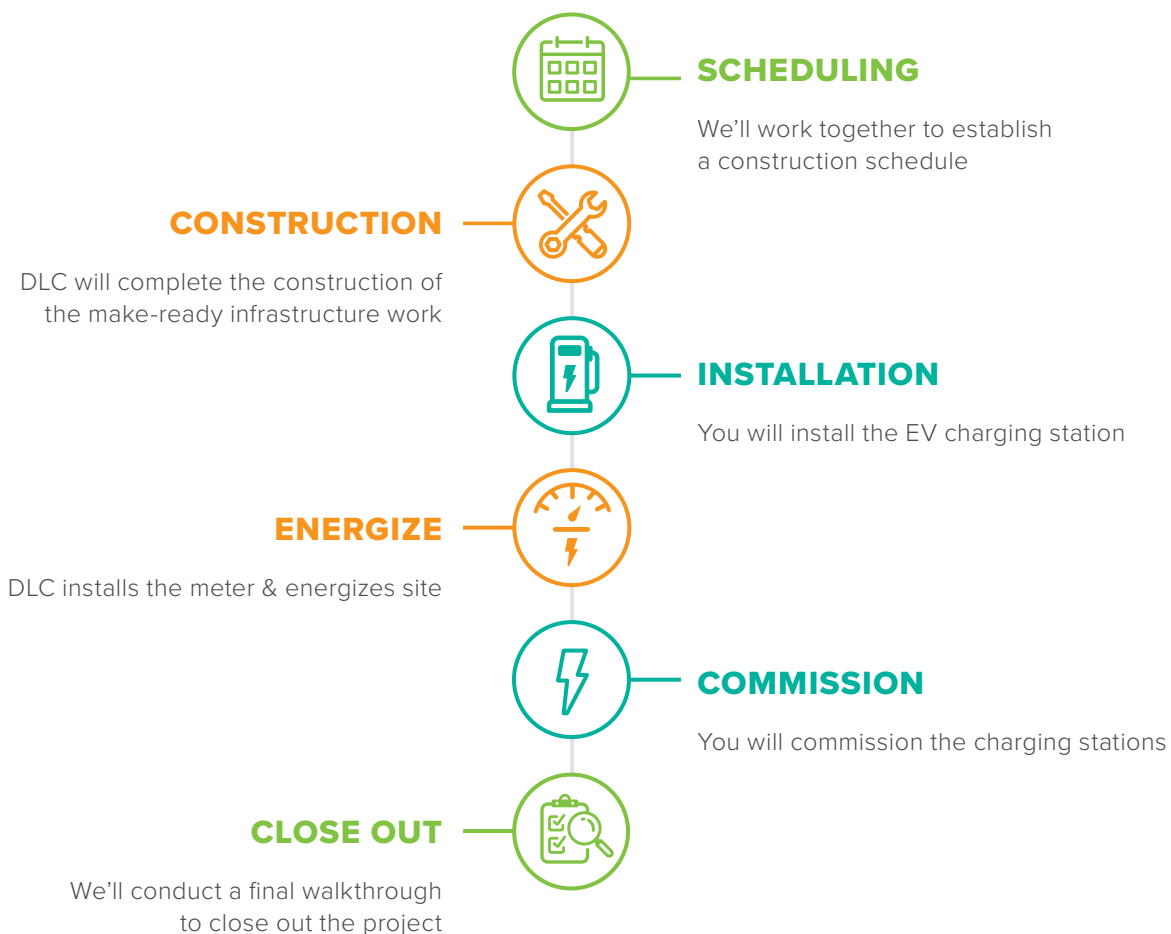
At this point, DLC will obtain permitting and send you a right-of-way easement, which must be signed by the property owner and returned to DLC for construction to begin.





# Construction & Commissioning Process

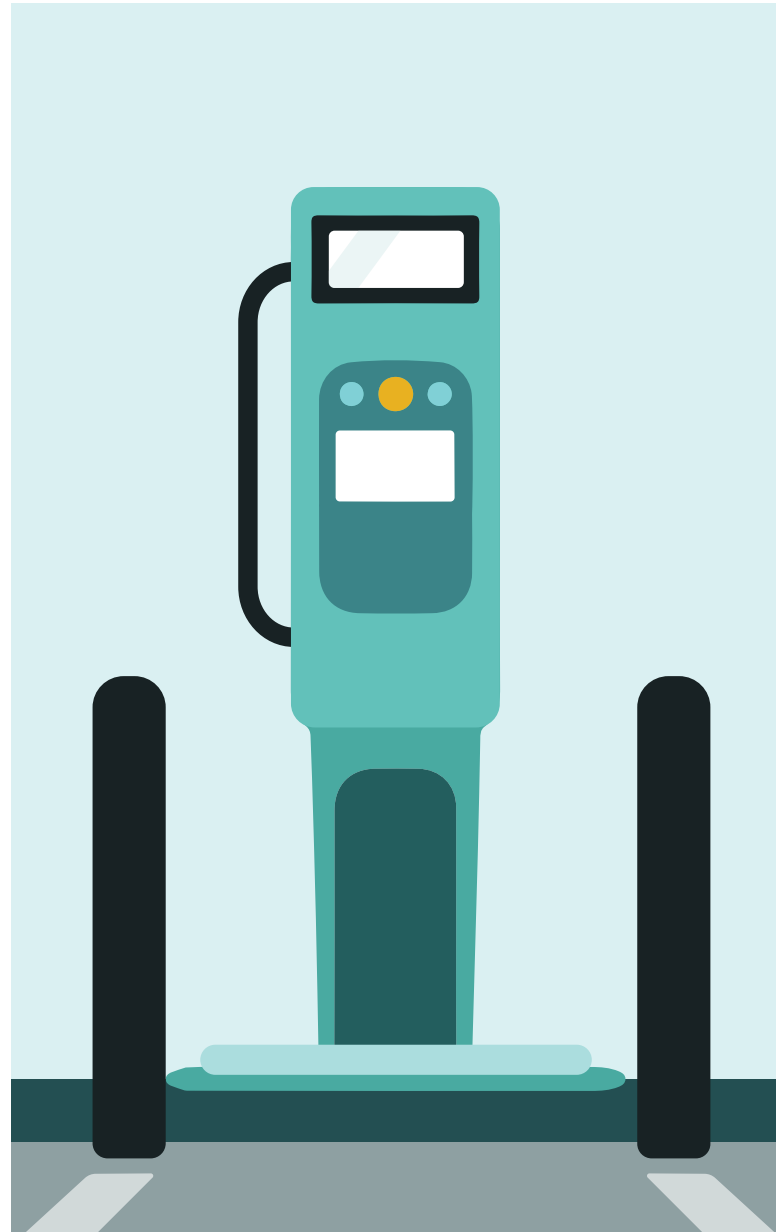
After we finish designing your project and the signed customer agreement and easement are received by DLC, we'll begin construction of the make-ready infrastructure by taking the following steps:



# Ongoing Charging Station Management

There are a variety of items to consider before you install charging to ensure your installation is successful, ranging from how to ensure drivers know how to use the charging to ensuring the most cost-effective charging usage. While designing your site, think about and discuss the following items with you DLC EV Specialist and your charging station vendor:

- **Accessibility:** Ensure your station setup complies with ADA and other local requirements.
- **Mounting:** Charging station units can be mounted on walls or pedestals.
- **Collision Protection:** Protect your charging station with curbs, wheel stops, bollards, and/or setbacks.
- **Cord Management:** Ensure cords can reach vehicles and don't interfere with operations.
- **Signage:** Mark EV parking stalls clearly with pavement markings and visible signage.
- **Security:** Use preventative strategies to avoid vandalism (motion detectors, security lighting, etc.).
- **Training:** Ensure your fleet vehicle drivers are trained on best practices for charging your vehicles.
- **Charging Management:** Manage when your fleet charges to better manage your electricity costs. vehicle drivers are trained on best practices for charging your vehicles.



# Other Available Financial Incentives

Your DLC EV Specialist will help you determine if your project is eligible for any added federal, state, or local funding and help you apply for that funding. The following and other funding may be available to you:

| Organization                             | Funding Details   |
|--|---|
| <b>Duquesne Light Company</b>            | Projects may be eligible for a rebate of up to 50% on the charging station equipment. Talk with your DLC EV Specialist to learn more.   |
| <b>Driving PA Forward</b>                | The Pennsylvania Department of Environmental Protection's Driving PA Forward program supplies rebates of up to 50-80% of Level 2 EV charging equipment depending on the property type and use case. |
| <b>Alternative Fuels Incentive Grant</b> | The Pennsylvania Department of Environmental Protection's Alternative Fuels Incentive Grant supplies grant funding for certain fleet electrification and charging projects.                         |

# Glossary of Terms

To help as you communicate with DLC, contractors, and vendors, below are many of the common terms and acronyms used to discuss charging station installation projects and their meanings.

## **AMPERAGE**

A measure of the flow of electrical charge.

## **BEV**

Battery electric vehicle, a vehicle fully powered by a plug-in battery electric motor.

## **EV**

Electric vehicle.

## **EV DEMAND**

The amount of power supplied to EVs during charging.

## **EVSE**

Electric vehicle supply equipment, also known as charging station equipment or hardware.

## **KWH**

Kilowatt-hour, the unit of measure for electrical energy.

## **METER**

A DLC device that records the amount of power flowing through a circuit.

## **NETWORK**

Charging station service that allows charging station hardware to remotely connect to a vendor's network giving the charging station host access to online management tools and usage analytics.

## **PHEV**

Plug-in hybrid electric vehicle, a vehicle powered by a plug-in battery electric motor and a gasoline engine.

## **ROM**

Rough order of magnitude, an estimation of a project's level of effort and cost to complete.

## **ROW**

Right-of-Way, a type of easement that allows another party to access and use your property as set forth in an agreement.

## **TCO**

Total cost of ownership, comprising vehicle purchase cost, infrastructure costs, and operations and maintenance costs, less any residual value recovered at the time of sale.

## **VOLTAGE**

Electrical pressure from an electrical circuit's power source.



# Contact Us

Duquesne Light Company  
[www.DuquesneLight.com/FleetCharging](http://www.DuquesneLight.com/FleetCharging)  
[ElectricVehicles@DuqLight.com](mailto:ElectricVehicles@DuqLight.com)