

## Fleet Electrification Programs

Illinois State Freight Advisory Council January 18, 2023









# CHICAGO'S CLIMATE ACTION STRATEGIES

- 3.3.A Enable electric freight loading docks at commercial and industrial buildings, addressing new buildings by 2025 and existing buildings by 2030
- 3.3.B Support equitable electrification of ridehail and taxi fleets by 2030
- 3.3.C Enable 100% electrification of delivery fleets by 2035
- 3.3.D Electrify 100% of the City's fleet by 2035
- 3.3.E Achieve zero-emission transit fleets across Chicagoland by 2040
- 4.2.F Enable 2,500 new public passenger EV charging stations by 2035















# ELECTRIFICATION STRATEGIES FROM CDOT'S 2021 STRATEGIC PLAN

Reduce emissions from CDOT's fleet

Increase availability of public charging stations for electric vehicles

Relaunch Chicago's Drive Clean Truck
Program and expand efforts to
reduce emissions from truck fleets

Encourage waterway operators to use lower-carbon fuels to reduce marine engine emissions

## SUPPORT FOR COMMERCIAL FLEET ELECTRIFICATION

### **Delivering Zero Emissions Communities Voluntary Fleet Program**

- Voluntary program incentivizing corporate partners operating fleets in the city of Chicago and neighboring communities to deploy electric vehicles
- Goal of 10 corporate fleet owners in inaugural year
- Commit to % fleet electrification by 2030
- Seeking participants for 2023 & input on program

### **Drive Clean Chicago – Drive Clean Truck Program**

- Historically a point-of-sale incentive for Class 2-8 commercial vehicles
- Exploring transition to charging infrastructure incentive
  - Compliments IRA, IIJA and CEJA vehicle incentive programs
- Seeking input from commercial fleet operators





# **READINESS GUIDELINES**





7 Smart Steps to Plan for MD/HD Commercial Electrification

#### ASSESS NEEDS

#### STEP 1: UNDERSTAND THE FLEET

- Vehicle numbers and classification
- Daily miles traveled
- Duty cycles

#### STEP 2: DETERMINE YOUR CHARGING REGIMI

Charging location (depot, loading docks, etc.) Level of charging capabilities

STEP 3: INCORPORATE EV READINESS

#### Property layout:

- Number of electric truck parking places
   Number of electrified docks
- · Plans for on-site electricity generation Plans for on-site battery storage

#### **Building characteristics:**

Building power needs

#### Additional power needs:

- Workplace and public charging stations for light
- duty vehicles Outside lighting
- · Proposed locations for meters, raceways, and

#### **PLAN EV INFRASTRUCTURE**

#### STEP 4: ENGAGE WITH COMED

- Inform them of your plans
- Determine the amount of power available to the site without upgrade Determine the distance from the charging location to the service line
- Indicate the planned charging cycle/charging times (if kno
- Discuss potential load management options Inquire about any special EV or commercial utility rates
- that are available Evaluate load sharing options

#### STEP 5: PLAN FOR IMPROVED EFFICIENCIES

- On-site electricity generation
- Smart charging

#### **FINALIZE AND PERMIT**

#### STEP 6: ESTIMATE YOUR PEAK LOAD REQUIREMENT

- Electrified loading docks and parking spots Normal building load
- Any onsite generation offsets Any onsite storage offsets



#### STEP 7: PERMITTING

- Ensure the project meets the Chicago Electrical Code
- . Determine eligibility for special or expediated permit programs















## **CONFERENCE & EXPO**

May 12, 2023 Naperville, IL

August 11, 2023 Edwardsville, IL

il-act.org

## THANK YOU



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