



North Central Texas
Council of Governments



Dallas-Fort Worth
CLEAN CITIES

Charging Smart Cohort Session 3 Utility Engagement Category

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October 9, 2024



Agenda

Cohort Structure/Timeline

Peer Updates

Bronze Designation Requirements

Oncor Presentation

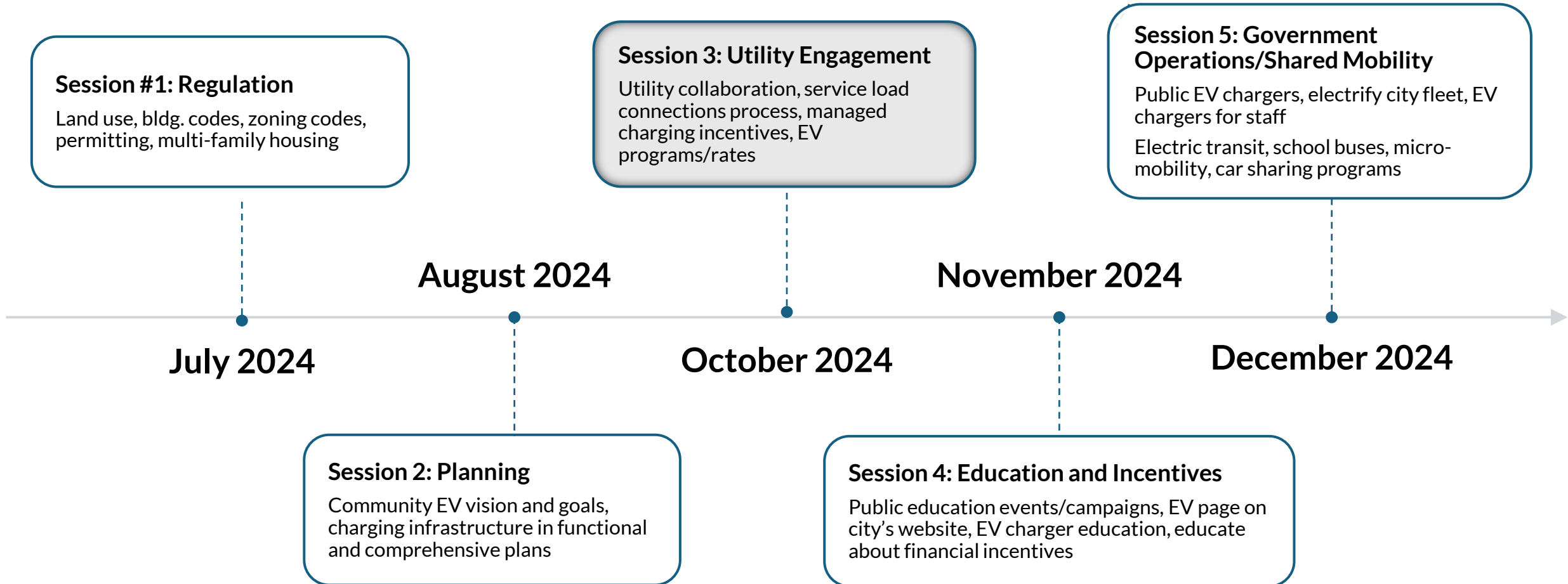
Utility Engagement Category Walk-Through

Group Discussion

Homework Assignment, Next Session



Cohort Structure and Timeline



Peer Updates

- What updates do you have on your progress on the criteria actions since the last session?
- Any questions for us?



Bronze Designation Point Breakdown

General Points

Prerequisites	35
Education & Incentives	15
Planning	10
Actions of Your Choice	20

R1.5: Review zoning requirements and identify restrictions that intentionally or unintentionally prohibit EVSE deployment (15 points)
R4.1: Adopt a standard EV charging infrastructure permit application process (10 points)
R4.4: Develop a charging infrastructure permitting checklist (5 points)
U1.1: Meet with utilities to discuss EV collaboration opportunities (5 points)

Total (General Points) 80

PLUS

EVs for All Points 15



The logo features the word "ONCOR" in a dark red, serif font, with a red swoosh above and below it. To the right, "EVolution" is written in a black, sans-serif font, with "EV" in green and "olution" in black. A small "SM" trademark symbol is positioned to the right of "EVolution".

ONCOR[®]
EVolutionSM

October 9, 2024



WELCOME

Ian Perkins-Smith – Project Manager

Jennifer Deaton – Manager Transportation Electrification

Origin of EVolution



**Oncor Noticed
EV Industry
Trends**



**Employees Reported
Increased Customer
EV Inquiries**



**Legislative and
PUC
Considerations**



**Oncor Strives To
Be a Proactive
Partner**

TE Resources



Provide Educational Material To All Customers

- [Oncor.com/EV](https://www.oncor.com/ev)
- Publication of [monthly newsletters](#)



Meet With Customers Directly To Discuss TE Topics

- Happy to act as an Oncor point of contact for all things TE

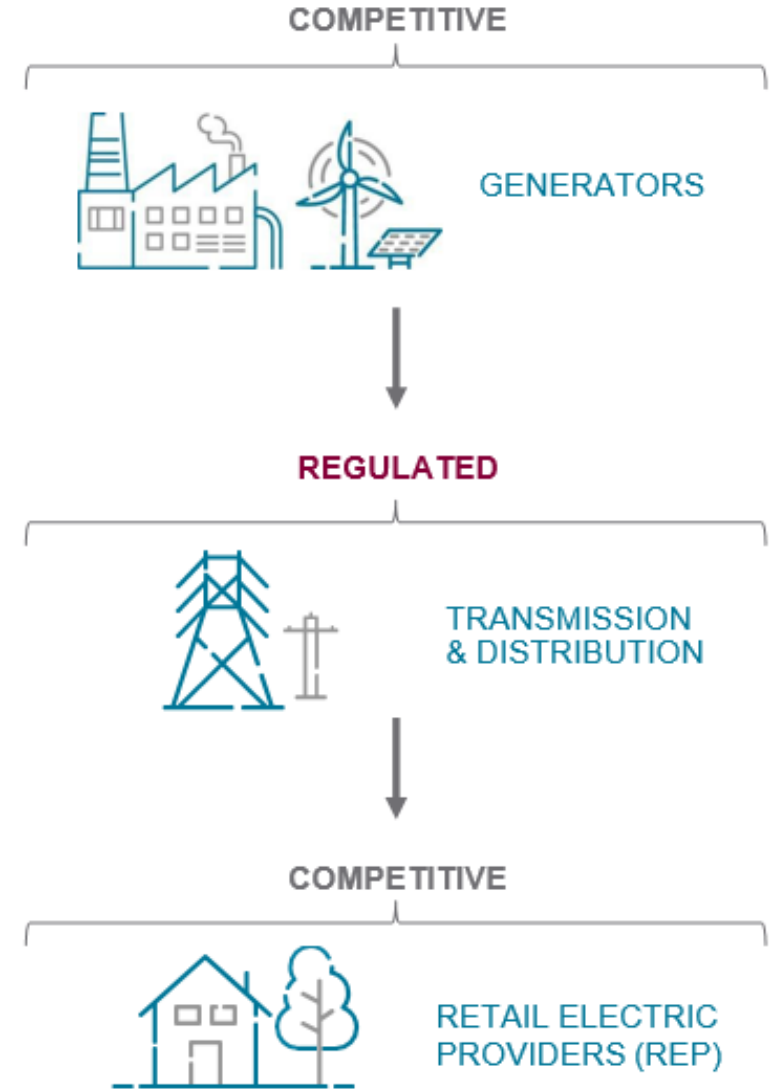


EVolution Sessions

- All EVolution sessions are open to any Oncor customers or REPs

About Oncor

- Oncor is a regulated transmission & distribution utility (TDU) that operates the largest electric delivery system in Texas.
- Provides transmission and distribution services under regulations established by the Public Utility Commission of Texas (PUCT) and the Electric Reliability Council of Texas (ERCOT).
- We're your "poles and wires" company. Oncor does not own, generate, produce or sell electricity.



Where We Serve

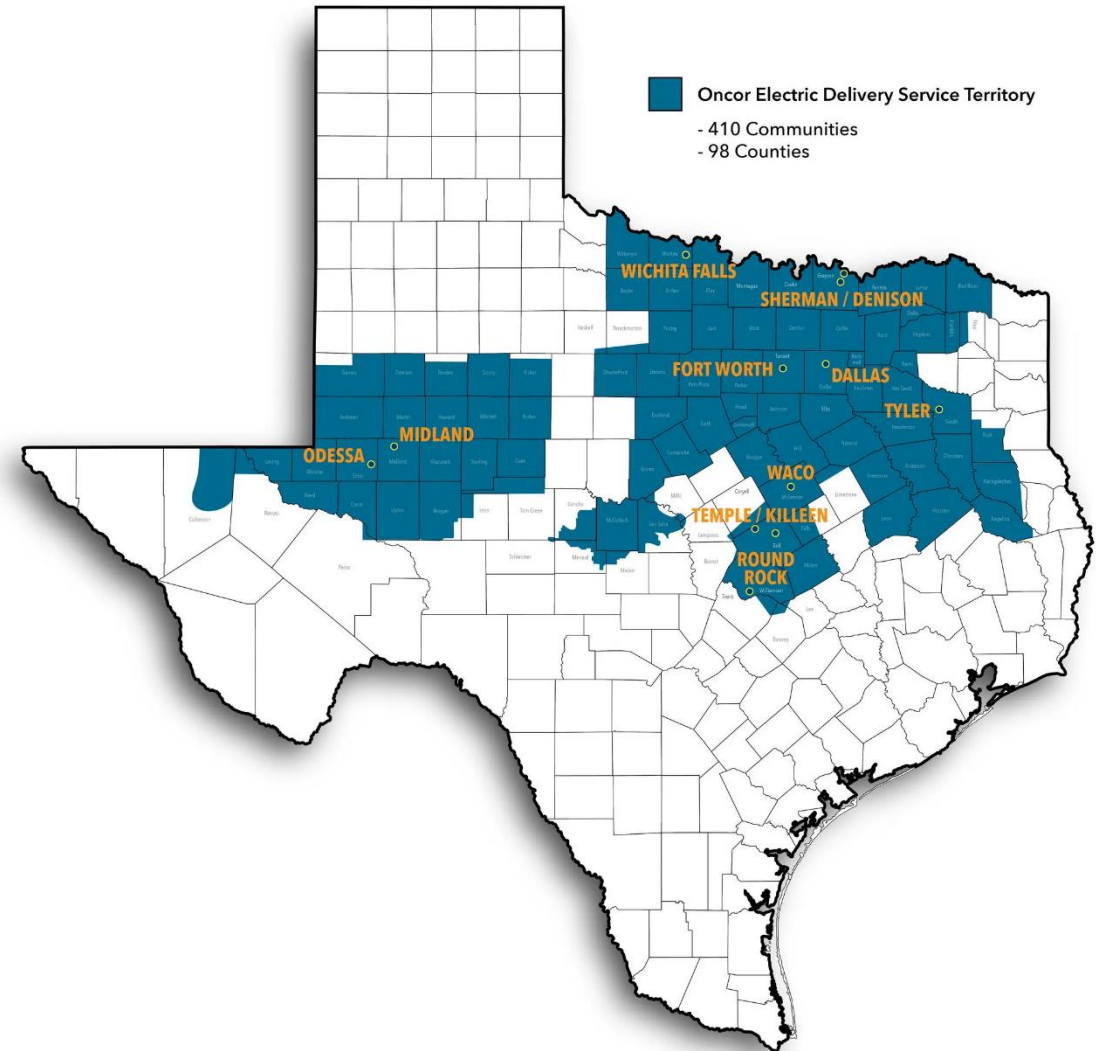
SERVING ~13 MILLION
TEXANS

98 COUNTIES
AND 400+ COMMUNITIES

141,000 MILES
OF TRANSMISSION AND DISTRIBUTION LINES

3.9 MILLION
ADVANCED METERS

4,500+ EMPLOYEES
ACROSS THE STATE



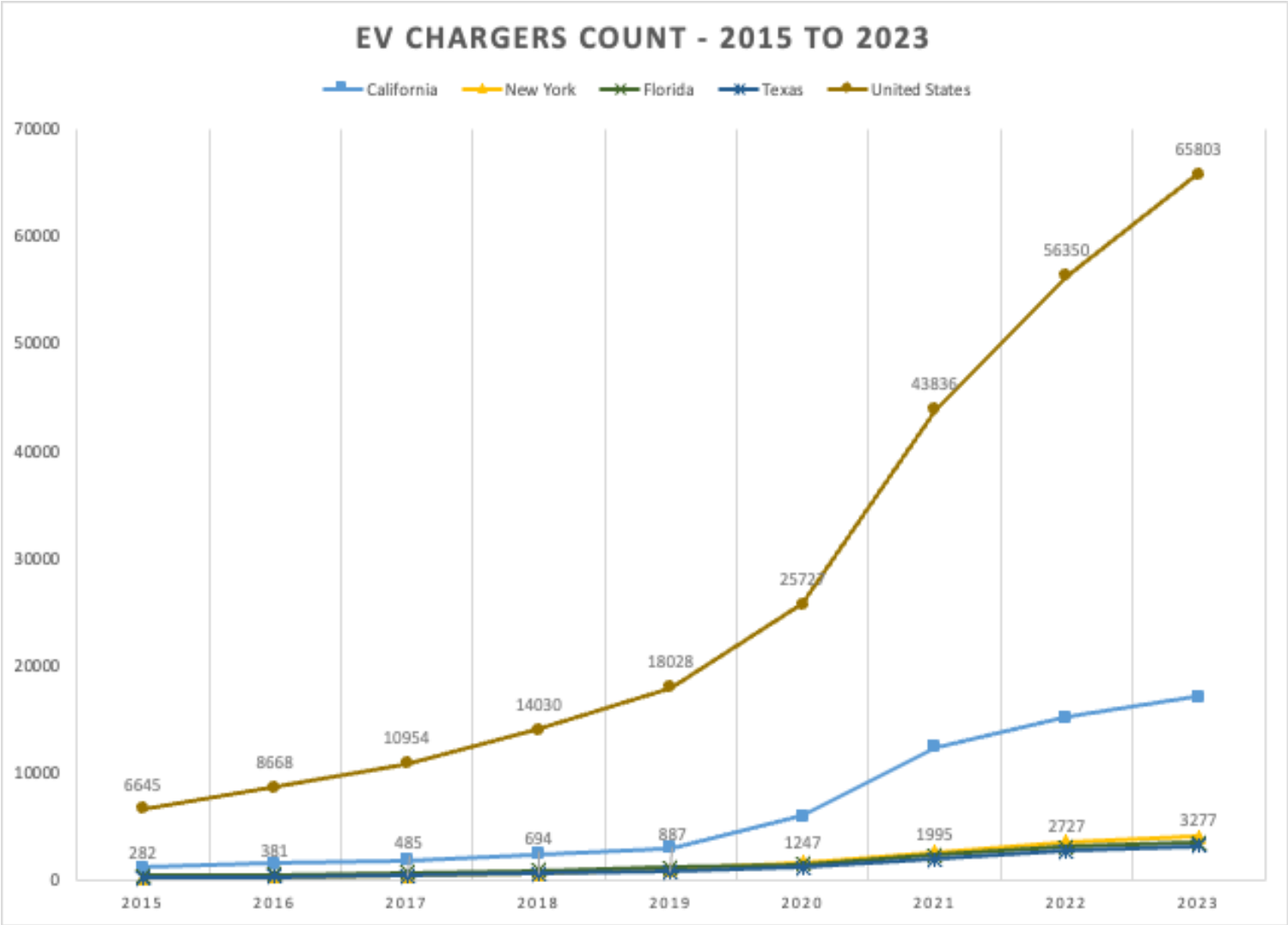
Supporting Growth in the Lone Star State



- **Oncor has invested billions of dollars across its service area to build, upgrade and operate a safer, smarter, more reliable electric grid.**
- From 2019 - 2023, Oncor added:
 - **Over 10,500 miles** of new & re-built transmission & distribution lines,
 - **~ 340,000 new customer connections**, and
 - **More than 200 new substations** across its service area.
- **Oncor's capex plan includes \$30 billion in investments over the next five years.** These capital expenditures are expected to be used for investment in transmission and distribution infrastructure, including investments to support system growth, reliability and resiliency.
- Oncor also focuses on making appropriate and necessary investments in an efficient and cost-effective manner. **Oncor rates are among the lowest electric delivery rates of any investor-owned utility in Texas.**



Count of EV Chargers from 2015 to 2023 - USA and Top 4 States



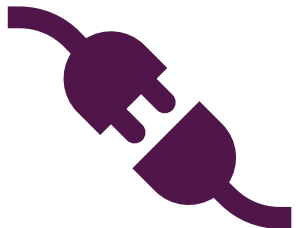
Source: US Department of Energy, Alternative Fuels Data Center (https://afdc.energy.gov/fuels/electricity_locations.html#/analyze)

Network Vs Non-Network Charger



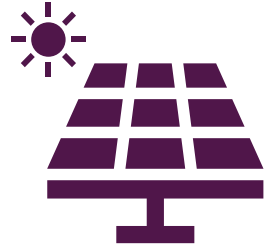
Networked Charger – With additional subscription cost, may add features such as:

- Summary reports
- Network dashboard
- Smart demand response
- Payment options
- Reservations
- Messaging



- **Non-Networked (Stand-Alone) Charger** – No network access, simply enables safe charging for an EV. Unable to process payment or offer other networked features.

Other Charging Technologies



Solar – Enables off-grid charging for greater resiliency, may integrate with other charger brands and have on board storage. No additional infrastructure required.



Mobile – Allows for portable and emergency charging of EVs without any additional infrastructure.



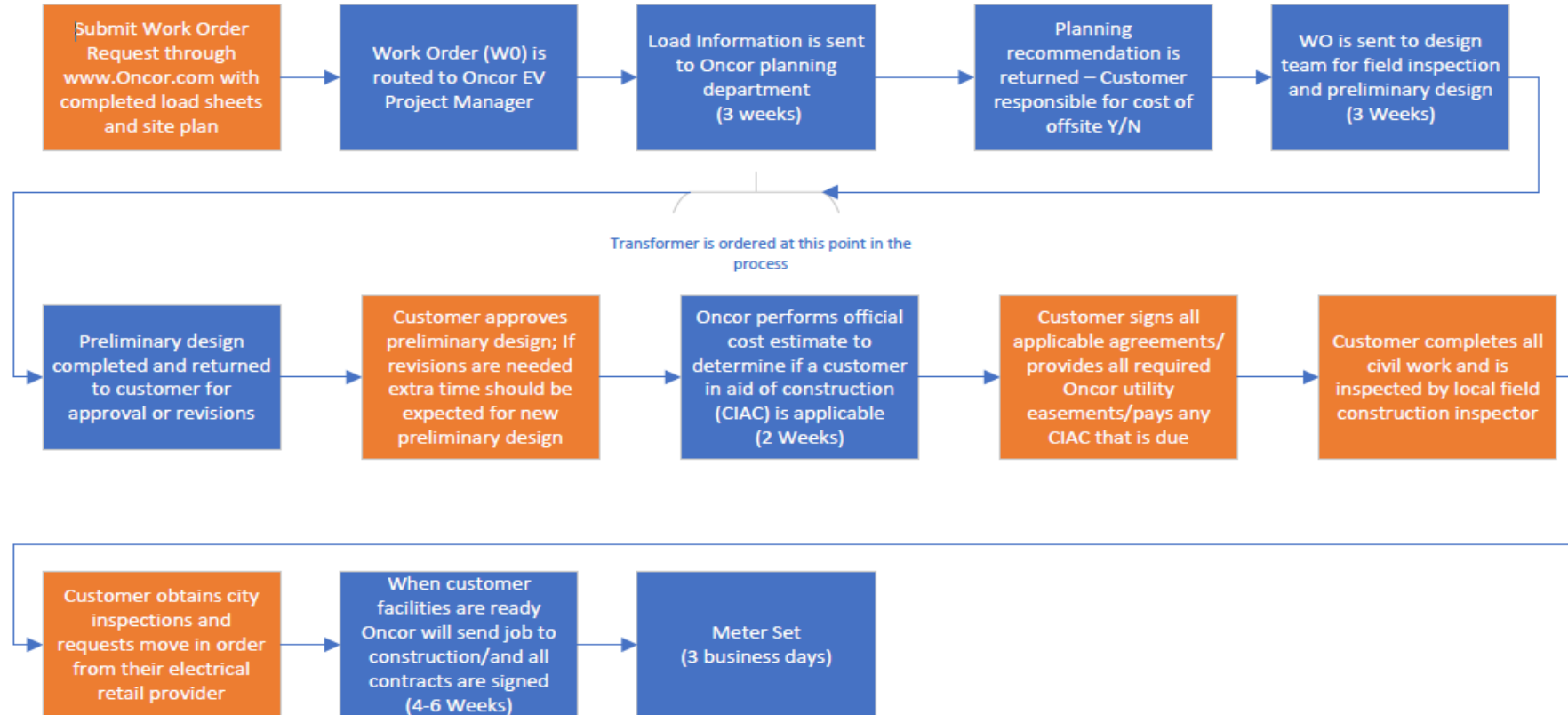
Storage – Utilizes on board batteries that store electricity to allow faster charging and charging off-grid.

Distributed Generation at Oncor

- Distributed Generation comprises of a variety of technologies; solar, batteries or generators, used to generate electricity at or near the point where it will be used.
- **If you want the DG at your site to put electricity back onto the grid (ex. solar panels, Vehicle to Grid (V2G), Battery Storage), you will need an interconnection agreement to meet safety and equipment standards.**
- Delay of interconnection agreement submission will cause a delay in a project.



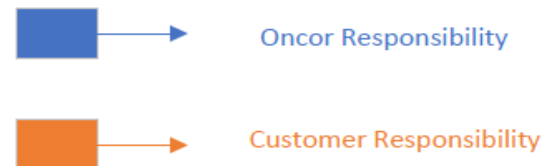
New Commercial Construction Process



Before the 4-6 week timeline for Oncor Construction can begin, please ensure you (customer) have the following completed:

- Civil work complete and inspected by Oncor FCI
- Easements completed and sent to Oncor
- FEA Signed

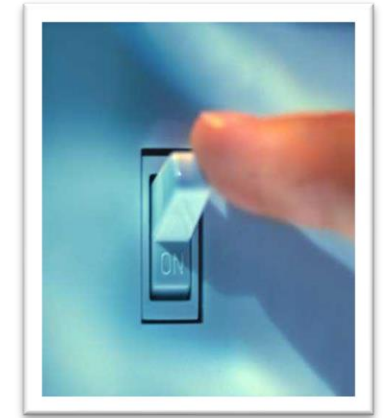
*Construction may be delayed by storms or inclement weather



What Is Energy Efficiency?



- **Energy CONSERVATION**
- Energy conservation is any behavior that results in the use of less energy.
 - Example: Turning lights off to save energy.
- **Energy EFFICIENCY**
- Energy efficiency is using technology that requires less energy to perform the same function.
 - Example: Installing efficient lighting, such as LEDs, to save energy.



Getting Started

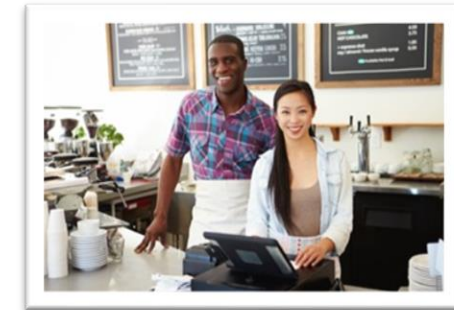


Program Offerings



Commercial Programs	Residential Programs
Commercial Standard Offer Program	Home Energy Efficiency Program
CHEF Program	Low-Income Weatherization Program
Commercial Load Management Program	Residential Solar Program
Winter Commercial Load Management Program	Targeted Low-Income Program
Small Business Program MTP	Residential Load Management
Commercial Midstream MTP	Retail Products MTP
Strategic Energy Management MTP	New Homes Construction MTP

Businesses



Homes



Schools



Limited Availability: Managed EV Charging Study



OBJECTIVE

Educate commercial customers with EV fleets and/or charging locations about peak demand shifting and energy consumption reduction strategies.



ELIGIBILITY

- Valid ESIID
- Deploy a minimum of 5 electric vehicle chargers or at least 2 medium-heavy duty electric fleet vehicles.



BENEFIT

Understand strategies that can decrease utility costs from managed fleet charging.



REQUIREMENT

Participants agree to have monthly touch point with Oncor to discuss ongoing research for at least a year.



INCENTIVE

Oncor will provide incentives for participation.

- Enrollment up to \$10,000
- Participation up to \$10,000
- Maximum incentive \$25,000



MORE INFORMATION

Tim McConkie

EE Planning & Compliance

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EEPM Help Desk

866 258 1874

support@oncoreepm.com



October 9, 2024

QUESTIONS?



Utility Engagement Category Explanation

This category focuses on fostering partnerships that can drive EV adoption, manage grid impacts, and create innovative programs to support electrification.

This includes working with your utility:

- On collaborative education and communication initiatives
- On the service load connections process
- To address EV-managed charging initiatives
- To address EV programs and rates
- To address renewable energy EV programs and incentives

Utility Engagement Action U1.1

U1.1- Meet with utilities to discuss EV collaboration opportunities (5 points)

Initiate a conversation with your electric utility focused on strategic coordination around electric vehicles

- Define shared objectives
- Explore potential partnerships
- Identify opportunities for the collaborative promotion of electrified transportation

Verification: Provide an agenda for the meeting and a memo summarizing the meeting, including the next steps for collaboration.

Contact Oncor at EV@oncor.com to initiate a conversation; [EVOLUTION \(oncor.com\)](http://EVOLUTION.oncor.com)

Utility Engagement Action U2.1

U2.1- Work with utility to document service load connections process for commercial and public charging (10 points)

Collaborate with utility to create a straightforward, accessible guide to the service load connections process for commercial and public EV charging stations.

- Outline the steps involved in connecting charging stations to the grid, including any necessary upgrades, permits, or approvals

Verification: Provide a link to the public website detailing the service load connections process and public charging. If applicable, provide a description of where this can be found within the documentation (i.e., chapter, section, etc.). Note how the jurisdiction was involved in the process.

Utility Engagement Action U3.1

U3.1-Create and promote educational materials on the benefits of managed charging and/or available utility incentives (5 points)

Develop and disseminate educational materials that highlight the benefits of managed EV charging

- Managed charging- adjusting the timing and intensity of EV charging to align with grid conditions, renewable energy availability, and user preferences
- Benefits- potential cost savings, environmental ease, grid support opportunities

Verification: Provide a link to or attach a document of the created educational materials on the benefits. Also provide a short description of how these materials were promoted.

Utility Engagement Category Resources

[Charging Smart - Utility Engagement \(google.com\)](#)

U1.1- Meet with utilities to discuss EV collaboration opportunities

- [EVOLUTION \(oncor.com\)](#)
- [Alternative Fuels Data Center: Electric Vehicle Readiness \(energy.gov\)](#)
- [Roadmap to Engaging Electric Utilities.pdf - Google Drive](#)

U2.1- Work with utility to document service load connections process for commercial and public charging

- [Utilities, charger vendors find interconnection best practices to propel EV growth | Utility Dive](#)
- [Working with Electric Utilities](#)
- [EV-Paper-3-Charger-Interconnection_compressed.pdf \(irecusa.org\)](#)

U3.1-Create and promote educational materials on the benefits of managed charging and/or available utility incentives

- [Understanding the Role and Value of Managed Charging](#)
- [Managed Charging Programs: Maximizing Customer Satisfaction and Grid Benefits](#)
- [Managed EV Charging for Federal Fleets | Department of Energy](#)

Group Discussion

Any questions, comments, or concerns?

If you have previously met with Oncor, what was discussed?

Do you have any advice to share with your cohort partners? Any challenges to sort out?



Homework and Next Session

Continue addressing Regulation and Planning actions

Begin addressing the Utility Engagement category

Email EV@oncor.com to ask for a one-on-one meeting

Next cohort session – date, time?

- Early November?



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