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INTRODUCTION

More and more, buildings are incorporating charging capabilities to accommodate the growing market for electric vehicles. This is a new aspect of building operations that a growing number of jurisdictions will need to address. This guide provides an overview of code requirements for the installation of Level 2 Electric Vehicle Supply Equipment (EVSE) installations and 120V or 240V outlets intended to power light-duty electric vehicles (EV). By providing specific and replicable list of permitting and inspection requirements, local jurisdictions can reduce informational barriers and help ensure the design and installation EV charging infrastructure are consistent and code compliant. This guide references the most applicable requirements for 2017 National Electrical Code (NEC) as they apply to EVSE installations. Not all requirements are covered by these checklists, but they do include the most important life and safety requirements of the installation and can be used to highlight "common mistakes" made by installers. While these guidelines are geared primarily toward implementing the 2017 NEC, jurisdictions enforcing and contractors using earlier editions of these codes can make use of these guidelines.

HOW TO USE THIS GUIDE

The building department may conduct plan review and inspection for EVSE installations using this guide as a starting point. Designers, contractors and building owners can use this guide to know what to expect in the permitting and inspection processes. This guide was designed with limitations on its application in mind, including:

X

This EVSE permitting and inspection guide does not include requirements for any service upgrades or other electrical work. If the required load calculation demonstrates a service upgrade is needed, this streamlined permitting and inspection guide cannot be used to determine code compliance of the service upgrade.



This EVSE permitting and inspection guide does not include requirements for indoor installation of infrastructure for EV batteries that require additional ventilation, including flooded leadacid or nickel-iron batteries.



Where electrical service or metering upgrades are required, another permit may be required before this guide may be followed.



This electrical requirements in this guide primarily focuses on the requirements in Article 625: Electric Vehicle Charging of the National Electrical Code. Additional general electrical requirements detailed in Chapters 1 through 4 of the National Electrical Code also apply but are not included in this guide. This includes but is not limited by the following:

- Electrical equipment is installed in a neat and workmanlike manner. (NEC 110.12)
- Electrical connections of the circuit conductors and equipment grounding conductor connections are secure. (NEC 110.14. 250.148(A))
- Installed branch circuit wiring is properly secured, supported, and routed to prevent physical damage. (NEC 300.11)



PERMIT SUBMISSION REQUIREMENTS



TO APPLY FOR AN EVSE PERMIT, **SUBMIT THE FOLLOWING:**

- 1) Electrical permit application
- 2] Site plan (see Figure 8) drawn to scale showing:
 - a) Property lines, adjacent streets, lot dimensions and the north arrow,
 - b) Primary use of the space or area where the EVSE will be installed,
 - c) Location of the proposed EVSE equipment on the property,
 - d) Number of proposed EVSE chargers.

3) Electrical line diagram (see Figure 7) with:

- a) EVSE configuration,
- b) EVSE specifications (manufacturer, maximum kW rating, voltage and ampacity, cable management system, if applicable),
- c) Mounting details (e.g., wall, pedestal with footing details),
- d) NEMA enclosure type,
- e) Conductors, cables, and conduit types, sizes, and markings,
- f) Conduit routes and requirements for their installation (e.g. within framing, mounted to structures, underground, etc.),
- g) Type and size rating of overcurrent protection and disconnects, and
- h) Location of additional meters, main electrical service panel, distribution panels or subpanels.
- 4] Load calculation for EVSE and 240V outlets installations
- 5) EVSE specification sheets and installation manuals

GENERAL INSTALLATION GUIDE



MINIMUM EVSE REQUIREMENTS

- 1 EVSE installed according to manufacturer's installation instructions. (NEC 110.3(B))
- **2** EVSE is suitable for the environment (indoor/outdoor) in which it will be installed. (NEC 110.28)
- **3** EVSE has a Nationally Recognized Testing Laboratory (NRTL) approved listing mark. (UL 2202/UL 2594)(NEC 625.5)
- 4 If EVSE with adjustable amperage setting is installed, equipment is fixed in place and adjusting means is accessible by qualified personnel with the use of a tool or password protected commissioning software. (NEC 625.42)

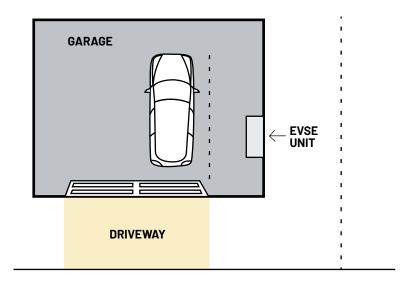


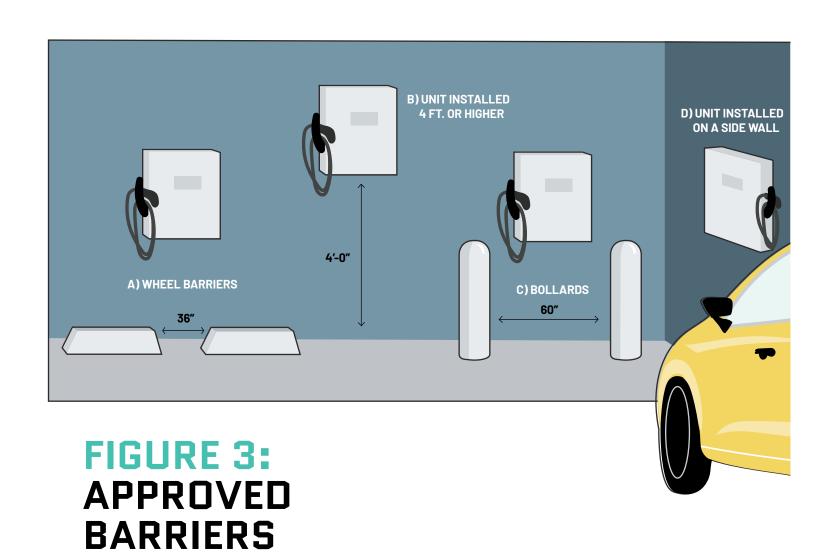


LOCATION AND EVSE INSTALLATION REQUIREMENTS

- **5** Permanently installed EVSE are located at a height of (NEC 625.50):
 - a) Indoor location: 1.5 feet or more above floor level
 - b) Outdoor location: 2 feet or more above grade level.
- **6** Charging cord meets one of the following: (NEC 625.17)
 - a) Does not exceed 25' in length, or
 - b) Is equipped with a cable management system that is part
- 7 Charging cord length reaches the vehicle's charging inlet without excessive slack. (NEC 625.17)
- **8** The EVSE is protected from vehicular impact through one of the following:
 - a) Installation in a location not subject to vehicular impact such as a side wall or 4 feet or more above floor level.
 - b) Wheel barriers,
 - c) Bollards, or
 - d) Other approved barrier. (NEC 110.27(B))

FIGURE 2: **APPROVED LOCATION EXAMPLE**







ELECTRICAL REQUIREMENTS

- **9** For EVSE and 240V outlets installations, electrical service rating is greater than or equal to the electrical service load as demonstrated by electrical service load calculations. (NEC 220)
- **10** EVSE has a sufficient rating to supply the load served. (NEC 625.42)
- 11 Service and feeder are sized for EVSE to be considered continuous loads unless an automatic load management system (ALMS) is used. If an ALMS is used, the maximum equipment load on the service/feeder matches the maximum load permitted by the ALMS. (NEC 625.42)
- 12 The required overcurrent protection for the proposed EVSE are:
 a) Rated for continuous duty
 - b) Have a rating of 125% or more of the maximum load of the equipment specification based on Table 1 below. (NEC 625.41)

TABLE 1:

REQUIRED OVERCURRENT PROTECTION DEVICE SIZE

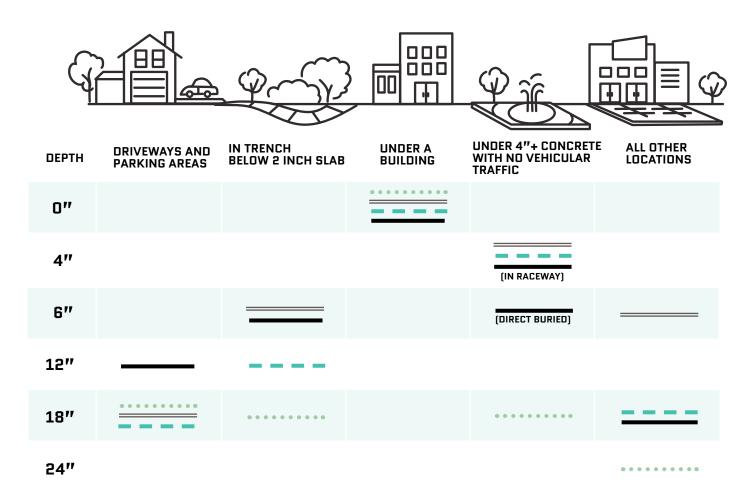
Maximum EVSE current	Required OCPD Size
16A	20A
24A	30A
30A	40 A
32A	50 A
48 A	60 A
80 A	100A



- 13 If the EVSE is rated more than 60 amps or more than 150V to ground, the disconnecting means is able to be locked in the open position and is in an easily accessible location not protected by locked doors or other obstructions. (NEC 625.43, NEC 110.25)
- **14** Circuits serving EVSE do not serve any other end uses. (NEC 625.40)
- 15 Circuit conductors are sized at 125% or more of EVSE maximum internal field selected current setting. (NEC 210.19(A)(1), NEC 215.2(A), NEC Table 310.16)
- **16** All electrical materials, devices, fittings, and associated equipment are listed and labeled. (NEC 625.5)
- 17 Underground conduit meet minimum depth requirements in Table 2 below. Insulated conductors and cables must be suitable for use in wet locations and protected from physical damage. (NEC 300.5, NEC 310.5)

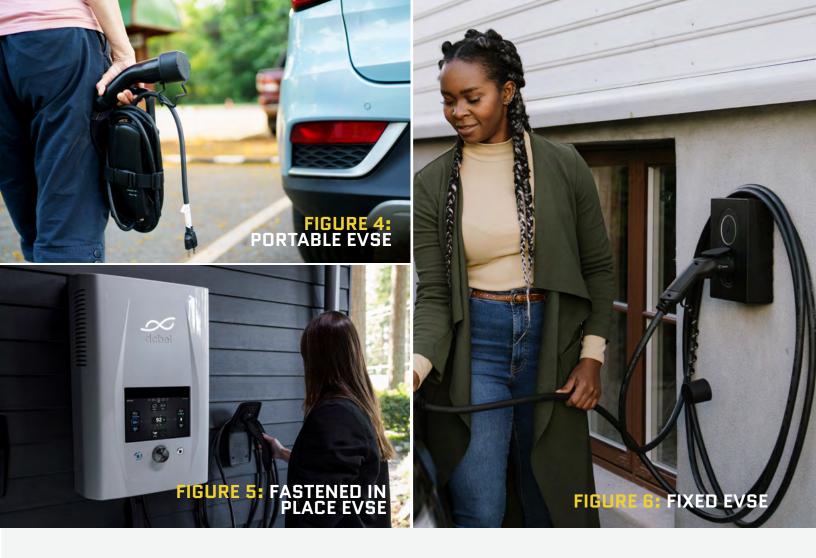
TABLE 2:

UNDERGROUND CONDUIT MINIMUM DEPTH REQUIREMENT



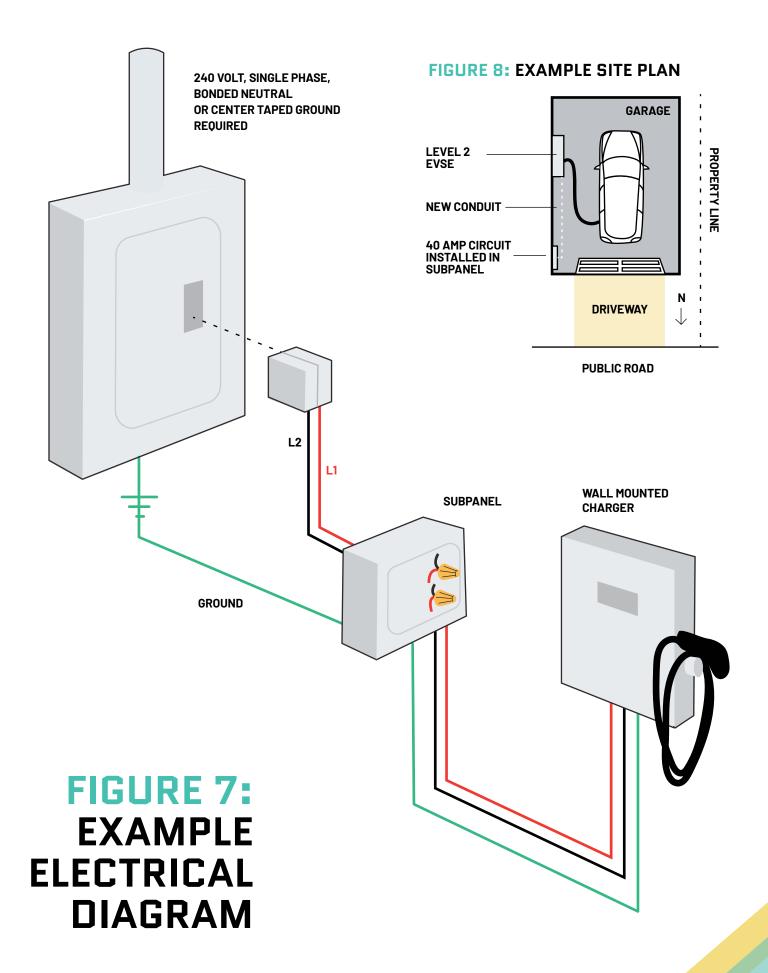
CONDUIT TYPES

Direct Burial Cables or Conductors Rigid Metal or Intermediate Metal Conduit Nonmetallic Raceways Listed for Direct Burial Without Concrete Encasement or Other **Approved Raceways** 120V Branch Circuit and maximum OCPD of 20 amps



- **18 Portable EVSE** is connected by one of the following: (NEC 625.44(A))
 - a. A nonlocking 2 pole, 3-wire grounding-type receptacle outlet rated at 125V, single phase, 15 or 20 amps
 - b. A nonlocking, 2-pole, 3-wire grounding-type receptacle outlet rated at 125V, single phase, 15 or 20 amps
 - c. A nonlocking, 2-pole, 3-wire or 3-pole, 4-wire grounding-type receptacle outlet rated at 250V, single phase, 30 or 50 amps
 - d. A nonlocking, 2-pole, 3-wire grounding-type outlet rated at 60V DC maximum, 15 or 20 amps
- 19 Fastened-in place EVSE are connected by one of the following: (NEC 625.44(B))
 - a. A nonlocking 2 pole, 3-wire grounding-type receptacle outlet rated at 125V or 250V, single phase, up to 50 amps
 - b. A nonlocking, 3-pole, 4-wire grounding-type receptacle outlet rated at 250V, three phase, up to 50 amps
 - c. A nonlocking, 2-pole, 3-wire grounding-type receptacle outlet rated at 60 V DC maximum, 15 or 20A amps

- **20** Fixed EVSE are permanently wired and fixed in place to the supporting surface (NEC 625.44 (C))
- **21** All single-phase receptacles for electric vehicle charging that are rated 150 volts to ground or less, and 50 amperes or less have GFCI protection. (NEC 625.54)
- 22 All receptacles installed in a wet location for EV charging have a weatherproof enclosure with the attachment plug cap inserted or removed. (NEC 625.56)



(Source: SemaConnect)



PERMITTING CHECKLIST



MINIMUM EVSE REQUIREMENTS

	· ·		
1	EVSE installed according to manufacturer's installation instructions.	□ 3	EVSE has a Nationally Recognized Testing Laboratory (NRTL) approved listing mark. (UL 2202/UL 2594)
□ 5	EVSE is suitable for the environment (indoor/outdoor) in which it will be installed.		listing mark. (OE 22027 OE 2594)
	LOCATION AND EVSE INS	TALL	ATION REQUIREMENTS
□ 4	Permanently installed EVSE are located at a height of: a) Indoor location: 1.5 feet or more above floor level b) Outdoor location: 2 feet or more above grade level. Charging cord meets one of the following:	<u> </u>	The EVSE is protected from vehicular impact through one of the following: a) Installation in a location not subject to vehicular impact such as a side wall or 4 feet or more above floor level; b) Wheel barriers;
	a) Does not exceed 25' in length. b) Is equipped with a cable management system that is part of the EVSE.		c) Bollards; or d) Other approved barrier.
	80.		
	S ELECTRICAL RE	EQUI	REMENTS
7	For EVSE and 240V outlets installations, electrical service rating is greater than or equal to the electrical service load as demonstrated by electrical service load calculations.	1 4	Underground conduit meet minimum depth requirements in Table 1 below. Insulated conductors and cables are suitable for use in wet locations and protected from physical damage.
<u> </u>	EVSE has a sufficient rating to supply the load served.	15	following:
<u> </u>	Service and feeder are sized for EVSE to be considered continuous loads unless an		 a) A nonlocking 2-pole, 3-wire grounding-type receptacle outlet rated at 125V, single phase, 15 or 20 amps
	automatic load management system (ALMS) is used. If an ALMS is used, the maximum equipment load on the service/feeder matches the maximum load permitted by the ALMS.		 b) A nonlocking, 2-pole, 3-wire grounding- type receptacle outlet rated at 250V, single phase, 15 or 20 amps c) A nonlocking, 2-pole, 3-wire or 3-pole, 4-wire
<u> </u>	The required overcurrent protection for the proposed EVSE are a) Rated for continuous duty b) Have a rating of 125% or more of the		grounding-type receptacle outlet rated at 250V, single phase, 30 or 50 amps d) A nonlocking, 2-pole, 3-wire grounding-type outlet rated at 60V DC maximum, 15 or 20A
	maximum load of the equipment specification based on Table 1 below.	16	Fastened-in place EVSE are connected by one of the following: a) A nonlocking 2 pole, 3-wire grounding-type
11	If the EVSE is rated more than 60 amps or more than 150V to ground, the disconnecting means is able to be locked in the open position and is in an easily accessible location not protected by locked doors or other obstructions.		receptacle outlet rated at 125V or 250V, single phase, up to 50 amps b) A nonlocking, 3-pole, 4-wire grounding-type receptacle outlet rated at 250V, three phase, up to 50 amps
<u> </u>	Circuits serving EVSE do not serve any other end uses.	17	Fixed EVSE are permanently wired and fixed in place to the supporting surface.
13	Circuit conductors are sized at 125% or more of EVSE nameplate current		

INSPECTION CHECKLIST



HELPFUL TIP

Numbers that correspond to the requirement in the permitting checklist are provided next to the same requirement in the

field inspection checklist.

MINIMUM EVSE REQUIREMENTS

1	Specifications of EVSE match the approved plans: a) Maximum kW rating, b) Voltage, c) Ampacity,	4	EVSE has a Nationally Recognized Testing Laboratory (NRTL) approved listing mark. (UL 2202/UL 2594). (3)
	d) Manufacturer e) NEMA enclosure type.	<u> </u>	If EVSE with adjustable amperage setting is installed, equipment is
2	EVSE installed according to manufacturer's installation instructions. (1)		fixed in place and adjusting means is accessible by qualified personnel with the use of a tool or password protected
<u> </u>	EVSE is suitable to for the environment in which it is installed (indoor and outdoor). (2)		commissioning software.
«	LOCATION AND EVSE IN	ISTAL	LATION REQUIREMENTS
<u> </u>	EVSE installation location matches approved floor plan.	<u> </u>	Charging cord length reaches the vehicle's charging inlet without excessive slack.
7	Permanently installed EVSE are located at a height of: (4) a)Indoor location: 1.5 feet or more above floor level b) Outdoor location: 2 feet or more above grade level.	1 0	The EVSE is protected from vehicular impact through one of the following: (6) a) Installation in a location not subject to vehicular impact such as a side wall or 4 feet or more above floor level; b) Wheel barriers;
8	Charging cord meets one of the following: (5) a) Does not exceed 25' in length. b) Is equipped with a cable management system that is part of the EVSE		c) Bollards; or d) Other approved barrier.
	S ELECTRICAL RE	QUIR	REMENTS
11	For EVSE and 240V outlets installations, electrical service rating is greater than or equal to the electrical service load. (7 and 9)	17	Underground conduit meet minimum depth requirements according to the approved plan. Insulated conductors and cables are suitable for use in wet locations and protected from
<u> </u>	Overcurrent protection are the type and rating according to the approved plan. (10)		physical damage. (14)
<u> </u>	For EVSE rated greater than 60 amperes or 150 volts, a disconnecting means is able to be locked in the open position and is located an easily	∐ 18	Portable and fastened-in-place EVSE are connected to the wiring system according to the approved plans. (15 and 16)
	accessible location not protected by locked doors or other obstructions. (11)	19	Fixed EVSE are permanently wired and fixed in place to the supporting surface. (17)
14	Circuits serving EVSE do not serve any other end uses. (12)	<u> </u>	All single-phase receptacles for electric vehicle charging that are rated 150 volts to ground or less, and 50 amperes or less have GFCI
15	Circuit conductors are the type and size according to the approved plan. (13)		protection.
<u> </u>	All electrical materials, devices, fittings, and associated equipment are listed and labeled.	∐ 21	All receptacles installed in a wet location for EV charging have a weatherproof enclosure with the attachment plug cap inserted or removed.



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EVSE AGENCY CONTACTS

Agency	
Division	
Contact	
Email	
Phone	



APPENDIX: EVSE PERMIT APPLICATION

FOR OFFICE USE ONLY		
Application Number:		
Permit Number:		
Issued By:		
Date Applied:		
Date Issued:		

SECTION 1 - GENERAL INFO

PROJECT ADDRESS						
PROPERTY OWNER'S NA	AME P	HONE NUMB	ER I	EMAIL		
PROPERTY OWNER'S M.	AILING ADDRESS	(IF DIFFERE	NT FROM PR	OJECT A	DDRESS)	
ION 2 - PROJECT	DETAILS					
BUILDING TYPE/EXIS	STING USE					
☐ MULTI-FAMILY	OFFICE	☐ NE	EW CONSTRU	ICTION	OTHER:	
EVSE LOCATION:						
GARAGE	EXTERIOR WALL	ST	REET CURB		☐ OTHER	
AXIMUM RATING OF EVEL 2 EV SERVICE EQUIPMENT		kW	EVSE \	/OLTAGE	:	
MANUFACTURER			NUMBER	OF EVS	Ε	
LOAD OF EXISTING PANEL SUPPLYING EVSE		AMPS	(EXISTI	AL LOAI NG PLUS SE LOAD	S	Į.
SERVICE LOAD		AMPS				
PROJECT DESCRIPTI	ON:					
-						

SECTION 3 - CONTRACTOR INFORMATION

CONTRACTOR BUSINESS NAME		CONTRACTOR LICENSE NUMBER
BUSINESS ADDRESS		
CONTRACTOR CONTACT NAME	PHONE NUMBER	EMAIL

SECTION 4 - PERMIT FEE

[Include fee schedule/options and/or instructions for calculating fee, directions on how and when to submit the permit fee.]

SECTION 5 - IMPORTANT NOTICE

A permit must be obtained for all installations or alterations of electrical equipment BEFORE WORK STARTS. Refer to EVSE Permitting Checklist for additional documents required. Failure to provide all required documents, including (1) Site Plan, (2) Electrical Diagram, and (3) Specification Sheets and Installation Manuals will delay permit approval. All permits expire six(6) months after date of issuance. Failure to start the work authorized by a permit within this six-month period renders the permit invalid and a new permit must be obtained. Once work begins, noticeable progress must continue until completion. All work must be complete within eighteen (18) months of a permit issue date.

Please Submit the following additional documents with the EVSE Permit Application

- Site Plan
- Electrical Diagram
- EVSE Specification Sheets and Installation Manuals
- Transformer Specification Sheets
- Load Calculation
- Automatic Load Management System
- Specification sheet if applicable

Submit Permit Application

[Describe the submission process, how should the permits be submitted? In-person, on-line, e-mail, fax, etc.]

SECTION 6 - APPLICANT SIGNATURE

I, the undersigned, certify that I have proper authority to apply for this permit, that the Contractor has obtained a signed contract from the Property Owner for the specified work, that all contractors have consented to being listed, and that all the information contained on this application is true and accurate to the best of my knowledge.

NAME	TITLE
SIGNATURE	DATE

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nbi new buildings institute

151 SW 1st Ave. Portland, OR 97204 503 761 7339 Forth is a nonprofit organization dedicated to the equitable advancement of electric transportation. Forth builds program and policy models that increase access to electric cars and charging, advance EV policy, and facilitate strategic partnerships. The Forth Roadmap Conference is among the nation's leading electric transportation conferences. Visit forthmobility.org to learn more.

Institute (NBI) is a nonprofit organization working to advance best practice energy efficiency and decarbonization of the built environment. Our efforts are imperative to keeping energy costs affordable, cutting carbon emissions that are fueling climate change, and delivering on improved health, safety, and resiliency for all. We work collaboratively with industry market players—governments, utilities, advocates, AEC professionals, and others—to drive leading-edge design, innovative technologies, and public policies and programs for scale. Throughout its 25-year history, NBI has become a trusted and independent resource helping to create buildings that are better for people, communities, and the planet. Visit newbuildings.org to learn more.

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