

**Boards of Electricity and High Pressure Piping
and the Construction Codes Advisory Council
Department of Labor and Industry**

Board/Council Meeting Open Forum Request

Please keep your presentation to 5 minutes or less.

- Please send this form to lyndy.logan@state.mn.us at **least 1 hour prior to the start of the meeting. Presentations/handouts MUST be sent at least 1 day prior.**
- Availability based on length of meeting and number of requestors.

Name of Board/Council		Date of Meeting		Will you be attending meeting in person or by phone?	
Name		Street/Mailing Address			Phone Number
City	State	Zip	Email Address		
Representing/Company Name					
Topic:					

- Send this form and related materials to Lyndy at: lyndy.logan@state.mn.us
- For meeting information, including Open Forum Request forms, please visit the department's Boards and Council web-page at: <https://www.dli.mn.gov/about-department/boards-and-councils>



Residential EV Charging

11/14/25

EV Uptake is Exponential

- Almost 80,000 EVs on the road in MN today
- 7% of new sales in 2024
- MnDOT's goal: 20% of light-duty vehicles registered in Minnesota to be EVs by 2030

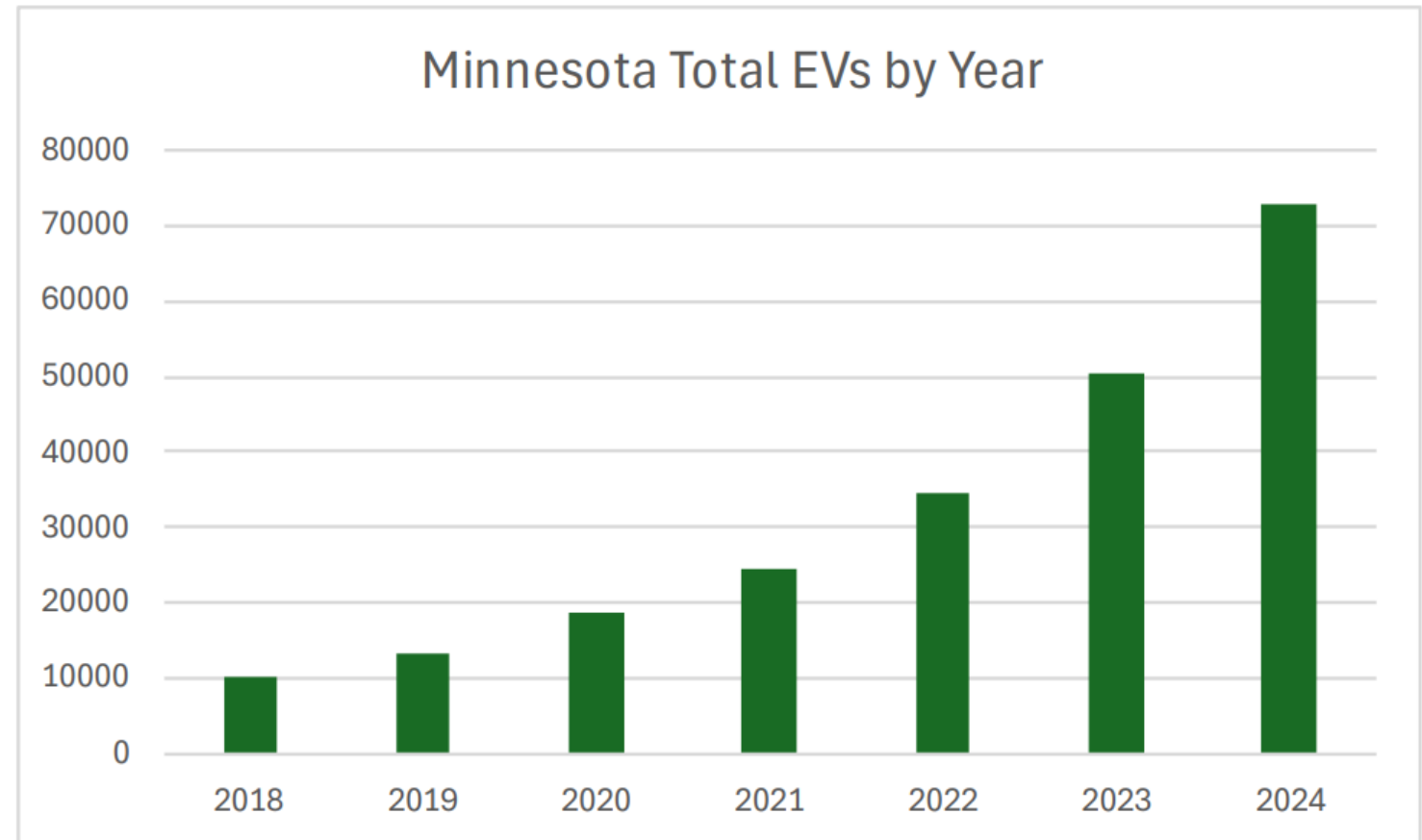


Figure 1:

Registered EVs in Minnesota by year.



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EV Uptake is Exponential

- Over 100 models available in the US today (EVInfoList.com)
- Ford announced \$5 billion EV investment in August
- Growing used market

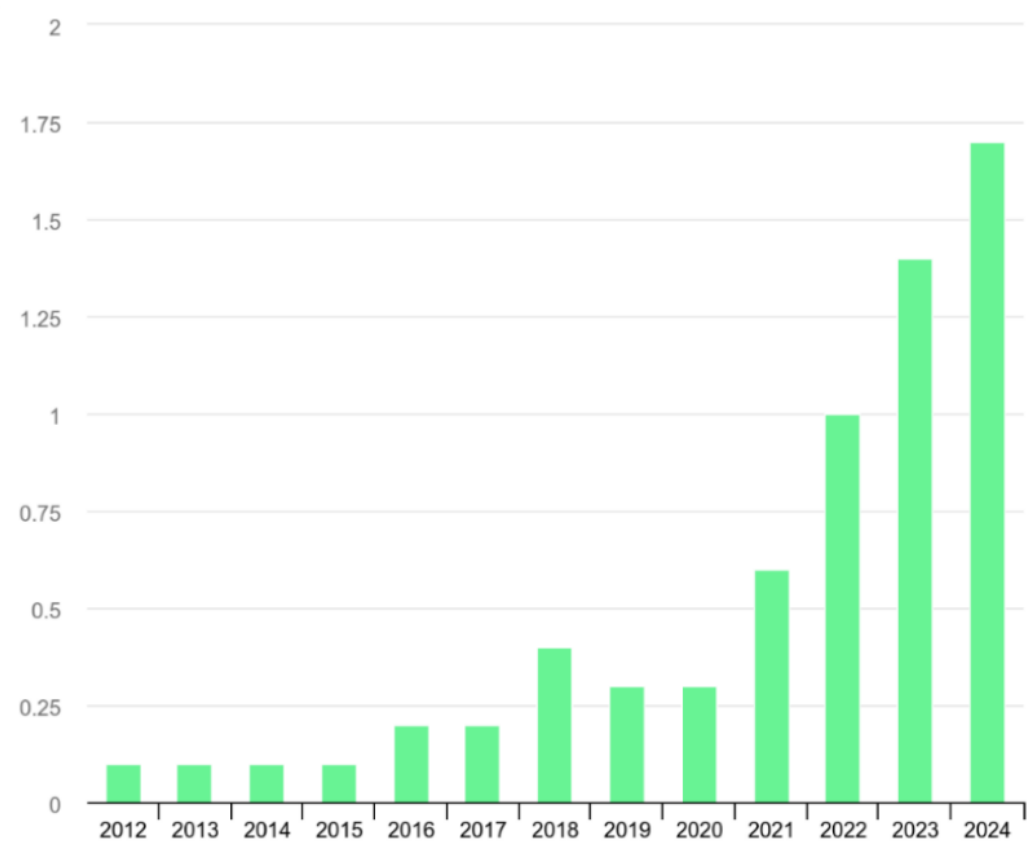


Figure 2: Millions of EV sales in the United States



Charging

- 80% of EV charging happens at home
- Hard-wired level 2 charger is
 - Safer than extension cords to dryer outlets
 - 5-20% more efficient than level 1 (110 outlet)
 - Most affordable
 - special charging rates can save 50%-80% per kWh, in addition to better efficiency
 - Most convenient
 - 10-50 miles per hour vs 2-5 miles per hour at level 1
 - Grid benefits



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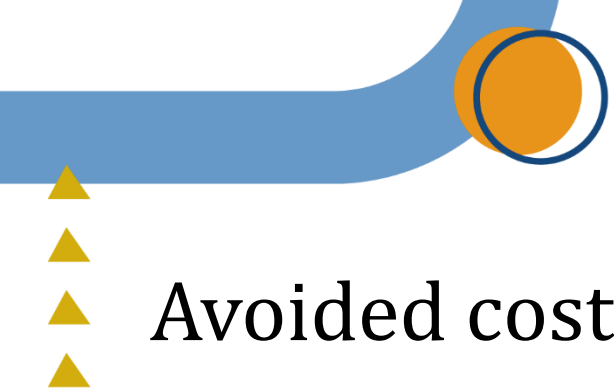


Proposal: add EV readiness to the residential code

- Option 1: EV Capable
 - Conduit or prewiring for future electric vehicle supply equipment (EVSE)
 - Reserved electric panel space
 - Includes exception if this increases the utility side cost to the builder or developer by more than \$450 per dwelling unit
 - Industry standard
 - Easily use Appendix NE
- Option 2: Conduit only
 - Conduit or prewiring only
 - Simpler requirement, but less standard and further from model code
- Recommended Exception
 - The raceway or cable assembly and the enclosure or junction box are not required where the electrical distribution equipment or panelboard is located in the same room as the EV capable space.



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Avoided costs

- Preparing buildings saves significantly over retrofits
 - Conduit install: \$100-\$250 if 50% comply through panel location in the garage (\$200-\$500 base)
 - \$2,000-\$3,500 retrofit without conduit
 - May include trenching, sod, drywall, texture, painting, other work in addition to electrical work
 - \$500-\$1,750 retrofit with conduit
 - Net savings after 7%-14% install EVSE
- Atlas Public Policy: in MN, EV prep in code could save consumers \$143,309,000 through 2035



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