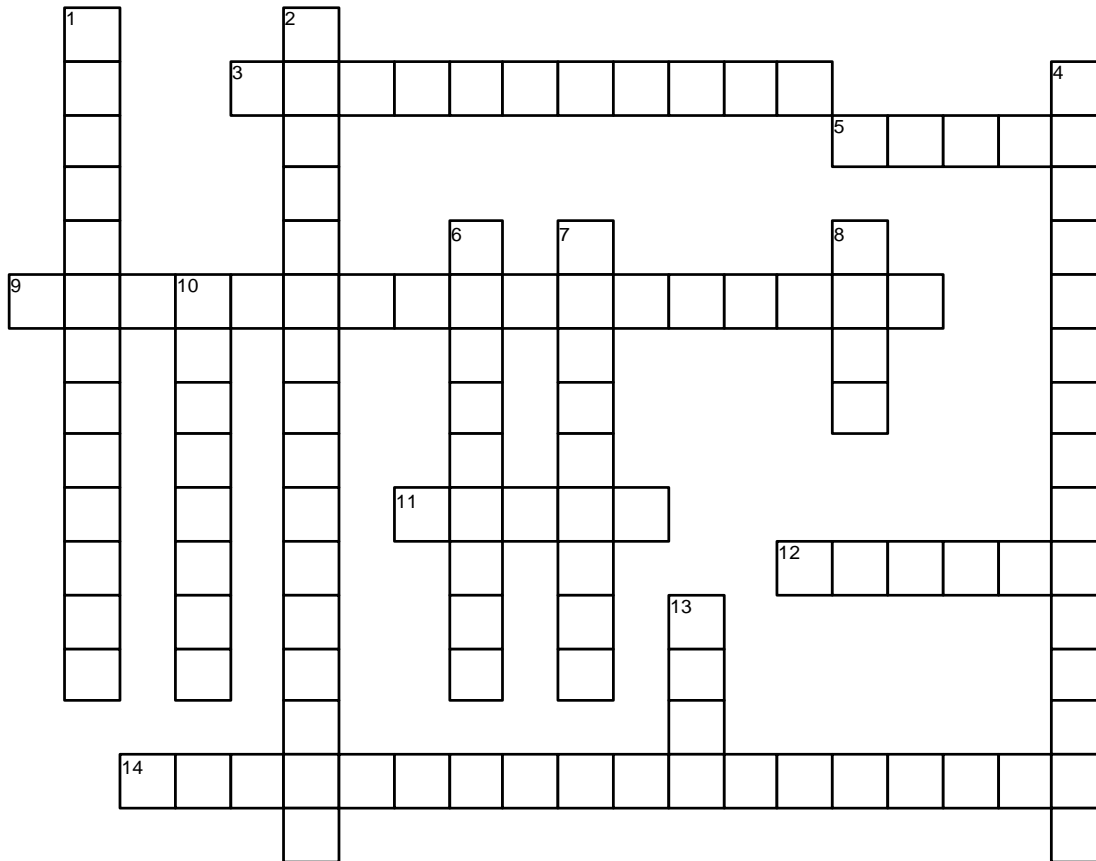


# Electrical Vehicle Charging Equipment

## Chapter 13



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### ACROSS

- 3 An EVSE is a \_\_\_\_\_-\_\_\_\_\_ box or a part of the Level 2 charging cable that supplies electric energy to the vehicle onboard charger. It has safety components and software that works with the vehicle software to control charging.
- 5 All EVSE installations must comply with \_\_\_\_\_, state, and national codes and regulations, and the work should be done by a licensed electrical contractor.
- 9 Most charging station manufacturers send samples to a Nationally Recognized \_\_\_\_\_ (NRTL), such as Intertek (ETL mark) or Underwriter's Laboratory (UL mark) for testing of their device for safety.
- 11 A \_\_\_\_\_ smell indicates an overheated electrical component, such as a circuit breaker, outlet, or wiring.
- 12 Most house charging systems are installed in the \_\_\_\_\_, but can also be mounted in a car port or outside if a weather proof unit and receptacle are used.
- 14 The standards established by the \_\_\_\_\_ Manufacturers Association (NEMA) define a product, process, or procedure with terminology, construction, dimensions, and performance ratings.

### DOWN

- 1 \_\_\_\_\_ transfer (WPT) uses electromagnetic induction (magnetic resonance) between a transmitting pad on the ground and a receiving pad attached to the underside of the vehicle.
- 2 The \_\_\_\_\_ Code (NEC) is derived from the National Fire Protection Agency.
- 4 \_\_\_\_\_ supply equipment (EVSE) supplies electricity to charge an electric vehicle (EV).
- 6 Many home and company Level 2 220/240-volt charging stations are \_\_\_\_\_ to the circuit breaker control panel in order to handle up to 60 amperes.
- 7 Electric vehicles can be charged at power draws comparable to various \_\_\_\_\_ appliances.
- 8 The NEC requires any charging station to be \_\_\_\_\_ certified in order to be installed anywhere in the United States.
- 10 The EVSE wall unit also should be positioned to minimize the hazard of \_\_\_\_\_ over the power cord.
- 13 The electricity required to "fill the tank" for an EV depends on the \_\_\_\_\_ of the battery.