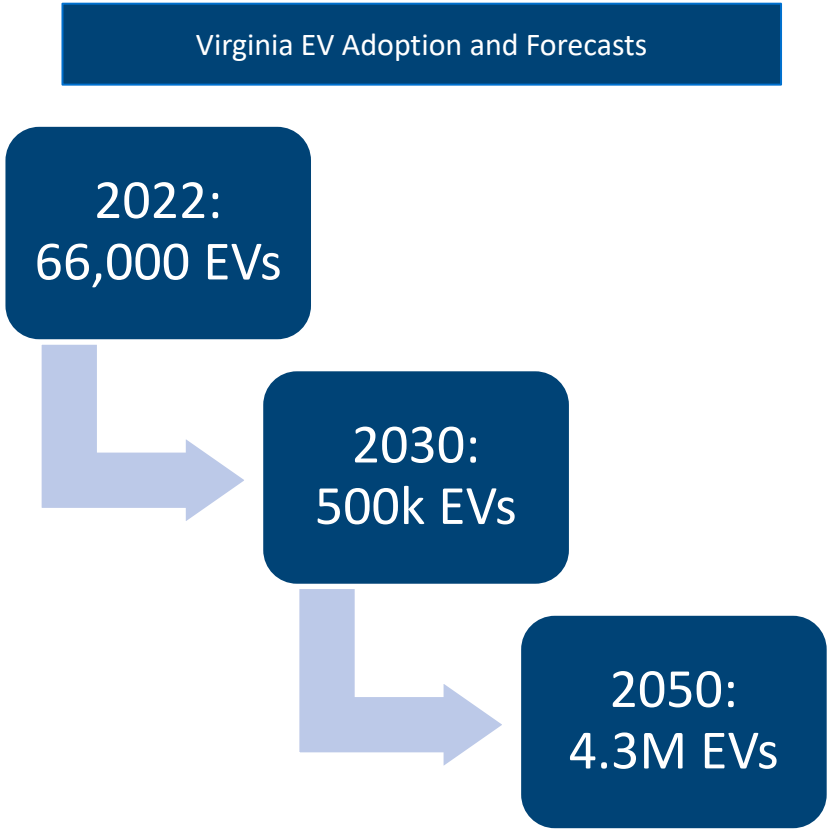
Multifamily EV Charging Webinar

August 2023

Dominion Energy®

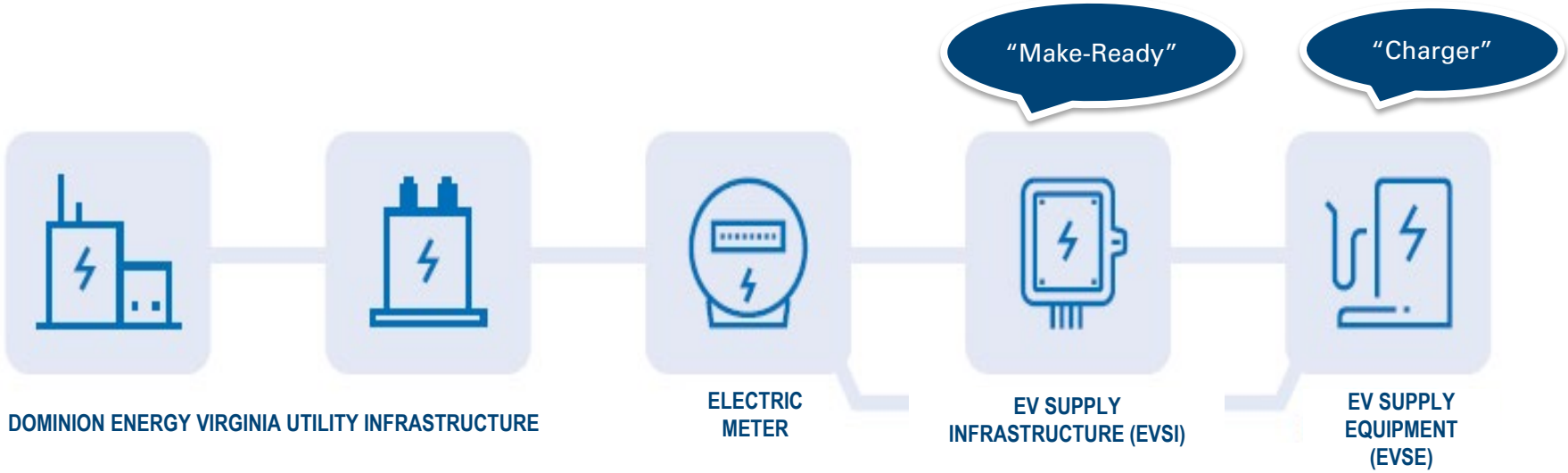
EV Market Trends

- Tipping point in **EV sales**…
  - National EV sales market share: 6%
  - Virginia EV sales market share: 8%
- Automakers are committing to more **EV models**…
  - Targeting up to 50% EV sales by 2030
  - Phasing out ICEV by 2035
- Federal policies provide **EV incentives**…
  - Infrastructure and vehicle tax incentives
  - Generational grant opportunities
- State policy will drive **EV adoption…**
  - More EV sales
  - ICEV phase out

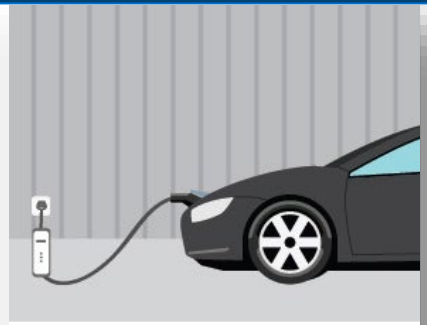
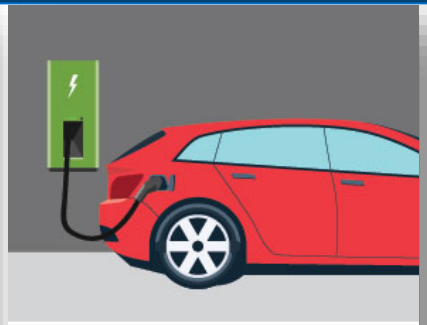


*As of December 2022

Charging Infrastructure 101



Charging Station 101

Level 1	Level 2	DC Fast Charge
		
VOLTAGE: 120V 1-Phase AC **AMPS:** 12-16 Amps **CHARGING LOAD:** 1.4-1.9 kW **CHARGING TIME:** 3-5 Miles per Hour	**VOLTAGE:** 208V or 240V 1-Phase AC **AMPS:** 12-80 Amps **CHARGING LOAD:** 2.5-19.2 kW **CHARGING TIME:** 12-60 Miles per Hour	**VOLTAGE:** 208V or 480V 3-Phase AC **AMPS:** >100 Amps **CHARGING LOAD:** 50-350 kW **CHARGING TIME:** 10%-80% in ~30 Minutes

Multi-Family Charging Benefits

Multi-Family Charging

- Attract and retain residents by providing a valuable amenity
- Differentiate your property
- Support clean transportation in your community

Multi-Family Charging Challenges

Education

Technical Complexity

Cost

Stakeholder Engagement

Parking

Multi-Family EV Charging Steps

Step 1: Decide on a location for your stations

- Parking scenarios at a multi-family community include on-street, garage, parking deck, parking lot, driveway, and carport.
  - Considerations:
    - How many chargers do I need?
    - Will the chargers be exposed to the elements?
    - Who has access?

Multi-Family EV Charging Steps

Step 2: Assess your electrical access

- Consult with the electric utility and electrician to determine existing capacity

  — Common area metering:
    - May be more cost effective
    - Property owner owns the charging station.
    - Difficult to allocate costs
    - Does not require assigned parking.

  — Dedicated metering:
    - EV-installed
    - EV-ready

Multi-Family EV Charging Steps

Step 3: Select your charging equipment

Level 1	*Level 2 Ready*	*Level 2 Station Installed*
120V/20A outlet with dedicated circuit	240V/40A outlet with dedicated circuit	240V/40A service with dedicated circuit
Use existing outlets (cord and connectors provided with vehicles)	Resident buys and installs station and takes it with them when they leave	Hardwired charging station installed by property owner/manager
Slowest charge time (5 miles/hour of charging)	Faster charge time (10-20 miles/hour of charging)	Faster charge time (10-20 miles/hour of charging)
$	$ $	$ $ $

- Considerations:
  - Data needs?
  - Cord management?
  - Wall or pedestal mounted?
  - Single or dual port?

Multi-Family EV Charging Steps

Step 4: Prepare for installation

Using an existing outlet (Level 1)

- ✓ Confirm electrical capacity and safety
- ✓ Contact your electric utility
- ✓ Purchase outlet-compatible equipment (if needed)
- ✓ Plug in and start charging

Installing a station or outlet (Level 1 or 2)

- ✓ Contact electrician or contractor
- ✓ Develop installation plan (includes developing site plan and contacting electric utility)
- ✓ Obtain necessary permits
- ✓ Install equipment

Multi-Family EV Charging Steps

Step 5: Develop policies and etiquette guidelines

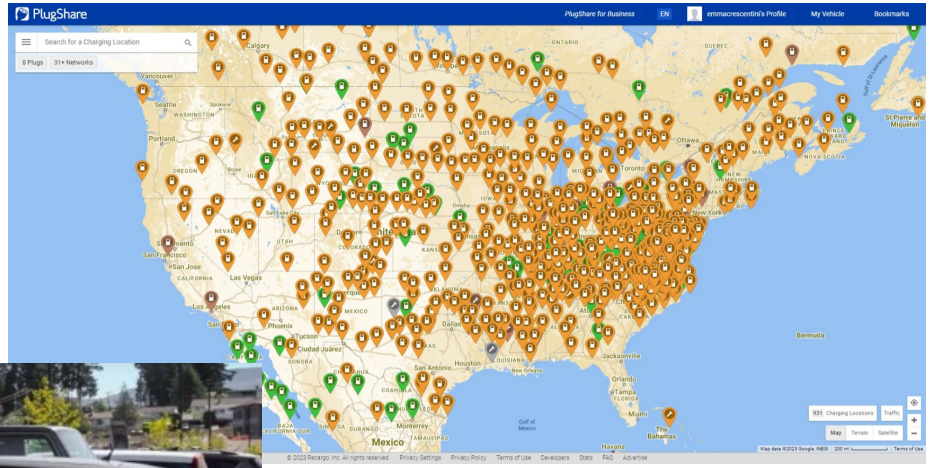
- Develop Policies and etiquette guidelines:
  - Rules are needed to ensure the charging stations are properly used by residents and guests.

- Considerations
  - Who has access to the chargers?
  - What if non-EV drivers use the space?
  - Parking duration?
  - Are drivers allowed to unplug other vehicles?
  - Stations notifications?

Multi-Family EV Charging Steps

Step 6: Promote the stations

- Promote the stations and educate residents:
  - Advertise the new amenity
  - Give live demos and workshops
  - Publish charging etiquette, ground rules, and pricing online
  - Add stations to PlugShare (www.plugshare.com)



Dominion Energy Can Help You Lead the Charge

We're paving the way for electric vehicles and charging possibilities in your area including easy options, expanded access, and trusted expertise along the way.

Experience

- Expert **education and guidance** for EV charging
- **Smart charging** programs and incentives
- **300+ charging stations** for our **workplaces and fleet**
- Nation's largest **electric school bus program with DCFC charging**

Solutions to make it easier to charge at home, at work, and on the go

Dominion Energy *Level 2 Charging* Program

Smart
Guides, interactive tools, calculators, programs, and **incentives** to support electrification

Convenient
Monthly on-bill payments reduce upfront costs for EV charging infrastructure

Equitable
No-cost charging solutions available to eligible customers in underserved areas

Flexible
EV charging hardware and software options to meet specific customer needs

Resources

- Multifamily EV Charging Guide
- Resident EV Interest Polls
- Federal Incentives & Tax Credits

- **DE Program Resources**
  - Charging on the Go website
  - Charging on the Go handout
  - Participation Guide
  - EV Interest Form

Q&A