

Agenda

Presented by Sarah R. Davis, AICP

Types and Capabilities of Electric Vehicles: PEVs, PHEVs, and EVs

- EV market introduction
- Overview of PEVs, PHEVs, EVs, and ICEs
- Barriers and opportunities for PHEVs and EVs
- Explore various applications

Charging Infrastructure, Equipment, and Terminology

- Basic EV-related terminology and acronyms
- Levels and types of EV charging infrastructure
- Players in the EV charging space
- EV charging equipment requirements

Charging Infrastructure Modeling and Design

- Siting and applications of level 2 charging infrastructure
- Siting and applications of level 3 direct current fast charging infrastructure
- Review basic design schematics and design components

Electric Grid Requirements and Commitments from Utilities

- Grid and site requirements for level 2 charging infrastructure
- Grid and site requirements for level 3 direct current fast charging infrastructure
- EV make-ready and other typical infrastructure programs
- Utility commitments for EV charging infrastructure

Local Requirements and Regulations

- Land use implications and consideration of EV charging infrastructure
- Land use, zoning, and building code requirements for EV charging infrastructure
- Other building standard recognition (e.g. LEED)
- Deploying EV Charging infrastructure: working with community and potential pitfalls

Incentives/Innovations that Promote Electric Car Infrastructure

- EV market look ahead
- Latest developments within the EV sector
- Incentives and funding
- Innovations on the horizon

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Developing Infrastructure for Electric Vehicles

Live, Interactive Webinar - Thursday, April 29, 2021

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Altoona, WI 54720-0278



Learning Objectives

You'll be able to:

Identify barriers and opportunities for PHEVs and EVs.

Define basic EV-related terminology and acronyms.

Know the site requirements for Level 2 and Level 3 charging infrastructure.

Understand the concept of "make-ready" and what commitments are required from the utility for Level 2 and Level 3 charging infrastructure.

Describe land use, zoning, and building code requirements for EV charging infrastructure.

Keep track of current and future electric car infrastructure incentives.



HalfMoon Education Online Learning Developing Infrastructure for Electric Vehicles

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Understand the differences and similarities between PEVs, PHEVs, EVs, and ICEs

Explore the levels and types of EV chargers available in the US today

Review basic charger design schematics and understand the design components

Examine the grid requirements for Level 2 and 3 charging infrastructure

Learn how to work with communities and local government to deploy EV charging infrastructure

Hear about the current EV landscape and likely innovations on the horizon

Continuing Education Credits

Professional Engineers
6.0 PDHs

Architects
6.0 HSW CE Hours

AIA
6.0 LU|HSW

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CM|6.0



Faculty



Sarah R. Davis, AICP Founder + CEO | S.R.D. Consulting, LLC

A champion of emerging innovative land uses, Sarah R. Davis has spent over a decade paving the way for integrating technology and sustainability into our urban, suburban, and rural fabrics. Founder and CEO of S. R. D. Consulting – Sustainable. Renewable. Driven. (SRDC), she leverages her experience in the renewable energy and electric vehicle sectors to advance the clean electrification of our grid and transportation systems. Under her leadership, SRDC is committed to infusing sustainable and equitable approaches into regulations, crafting meaningful relationships built on mutual trust and respect with communities, and developing clear, intuitive, and approachable programs + plans. A land use planning firm based in Denver, Colorado, SRDC is focused on advancing sustainable and zero emission projects and plans. In 2020, SRDC had a banner year, including leading the Gold Hill Resilient Renewable Energy Design Project in Boulder County, Colorado, and the Town of Estes Park, Colorado's Electric Vehicle Infrastructure and Readiness Plan which was recently adopted by the Town Board of Trustees. SRDC was lead project manager and author of the plan.

Prior to pursuing her entrepreneurial aspirations and launching SRDC, she led an interdisciplinary team as Tesla's Market Lead for EV Infrastructure, developing and deploying over 500 Level 2 & 3 (DC-fast charging) connectors throughout the US. During her tenure, she guided

the company's overall EV charging strategy throughout the Midwest and West using a regional and local approach as well as managed partnerships with private landowners and utilities. SRDC has deep roots within the solar sector, building off of her work as a project planner for Boulder-based juwi solar, Inc. where she led the due diligence and entitlement effort for utility-scale solar PV projects, installing over 250MW of solar nationwide. SRDC's connections to the solar and emerging energy storage sectors have allowed her to apply lessons learned from integrating into larger utility and local energy generation and demand planning.

Sarah frequently meets with citizens and speaks with groups about EVs, renewable energy, battery storage, and other carbon-free transportation alternatives including micromobility and transit. Her personal car-free lifestyle brings an authenticity to her work in this space. She is a twice graduate from Virginia Tech (Go Hokies!) holding a master's career of Urban and Regional Planning and a bachelor's degree in Public and Urban Affairs, Environmental Affairs. She currently serves as an advisor to the Department of Energy funded Solar@Scale initiative, is the Micromobility Subgroup co-chair for the Colorado Electric Vehicle Coalition, a member of the American Planning Association and a member of the American Institute of Certified Planners (AICP). She speaks regularly at urban planning, transportation, sustainability, and renewable energy conferences. In her free time, she enjoys Colorado's year-round outdoor recreation with her wife and their senior Jack Russell mix Maggie, including hiking, biking, snowshoeing, skiing, paddle boarding, and swimming.

Webinar Information

| | |
|---|---|
| Log into Webinar 9:00 - 9:30 am CDT | Break 12:45 - 1:15 pm CDT |
| Morning Session 9:30 am - 12:45 pm CDT | Afternoon Session 1:15 - 4:30 pm CDT |

Tuition

\$289 for individual registration
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Continuing Education Credit Information

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Completion certificates will be awarded to participants who complete this event, respond to prompts and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

Additional Learning

Designing for Climate Resilience

- Thurs, Mar 25, 2021 | 11:00 am - 2:45 pm CDT
- Fri, Mar 26, 2021 | 11:00 am - 2:45 pm CDT

Slope Stabilization and Landslide Prevention

- Fri, Mar 26, 2021 | 8:30 am - 3:30 pm CDT

Threats to Trees

- Fri, Mar 26, 2021 | 9:00 am - 4:30 pm CDT

Handling Ethical Issues in Construction Contracting

- Fri, Mar 26, 2021 | 10:00 - 11:00 am CDT

Fire-Resistant Landscapes and Construction

- Tues, Mar 30, 2021 | 10:00 am - 5:00 pm CDT

HEC-RAS Unsteady/2D Modeling

- Tues, Mar 30, 2021 | 8:30 am - 5:00 pm CDT

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Developing Infrastructure for Electric Vehicles

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| Tuition |
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