

# Agenda

*Presented by Dr. Jairo Garcia*

## Electrifying the Transportation Sector: Planning and Designing for Electric Vehicle Usage Day One

Thursday, December 3, 2020 | 11:00 am - 2:15 pm CST (including a 30-min. break)

### Electric Vehicle Technology and the Environment

#### From The Fritchle to the Tesla: A Century of Innovation

- The history of EVs
- Principles of EV technology
- Hybrid EVs
- Battery technologies
- Charging technologies

### Electric Vehicles and the Environment

- EVs and carbon emissions
- EVs in a fossil fuel world
- EVs fed by renewables
- Microgrids and car-power for homes

## Electrifying the Transportation Sector: Planning and Designing for Electric Vehicle Usage Day Two

Friday, December 4, 2020 | 11:00 am - 2:15 pm CST (including a 30-min. break)

### Electric Vehicle Policies and the Future of EVs

#### Policies and Electric Vehicles

- Who tried to kill the electric car?
- Market transformation and EVs
- Cities and the electrification of transportation
- USA charging infrastructure
- EVs international policies

#### The Electric Vehicle Future is Now

- The free-carbon economy
- A car-shared economy
- Autonomous vehicles
- Hydrogen versus EVs

## Electrifying the Transportation Sector: Planning and Designing for Electric Vehicle Usage

Online - Thursday, Dec. 3 and Friday, Dec. 4, 2020



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## Learning Objectives

### You'll be able to:

**Describe** the basic principles of electric vehicle, battery and charging technology.

**Explain** the impact of electric vehicle usage on carbon emissions.

**Identify** ways in which electric vehicle usage impacts urban planning, design and construction.

**Analyze** the demand for increased charging infrastructure in cities across the U.S.

**Learn** about autonomous vehicles, hydrogen fuel cells and other emerging transportation technologies.



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HalfMoon Education Online Learning

## Electrifying the Transportation Sector: *Planning and Designing for Electric Vehicle Usage*

*Live, Interactive Webinar Series*

*Thursday, December 3 and Friday, December 4, 2020*



**Learn** the basics of electric vehicle, battery and charging technologies

**Examine** the impact of electric vehicles on carbon emissions

**Analyze** how electric vehicle policies have been used to grow (or inhibit) electric vehicle usage

**Understand** what increased electric vehicle usage means for urban planning, design and construction

**Discuss** autonomous vehicles, hydrogen cars and other emerging transportation technology

### Continuing Education Credits

#### Professional Engineers

6.0 PDHs

#### Architects

6.0 HSW CE Hours

#### AIA

Pending

#### Certified Planners/AICP

CM | 6



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# Faculty

**Dr. Jairo Garcia** *Sustainable Cities & Climate Change Specialist, Co-Chair of the Climate Reality Project: Atlanta, GA Chapter*

Dr. Garcia is an expert in urban sustainability, climate change and sustainability education. Dr. Garcia develops innovative policies and educational programs to make communities and cities cleaner, sustainable, resilient, and equitable. He is the lead author of Atlanta’s Climate Action Plan and led a collaborative effort with more than 40 stakeholders to the 100 Resilience Cities application, awarded to the City of Atlanta in 2016. Dr. Garcia is a member of the Georgia Research Roadmap steering committee, an initiative of the Georgia Climate Project lead by University of Georgia, Georgia Tech, and Emory University, which has a goal of improving understanding of climate impacts and solutions in Georgia. He received the Individual Climate Leadership Award by the EPA in 2017. This award recognized Dr. Garcia’s leadership in addressing climate change and engaging organizations, peers and partners. He represented the Mayor of Atlanta at COP23 in Bonn, Germany and presented at an event organized by the International Urban Cooperation Programme related to global cooperation to address climate change. Dr. Garcia’s publications on urban sustainability, climate change and sustainability education are numerous. His academic experiences include a position as a research assistant and two teaching assistant positions at Columbia University, a faculty adjunct and thesis advisor position at Concordia University, and faculty adjunct positions for the UCLA-Extension Program, the Georgia Institute of Technology and Johns Hopkins University. Dr. Garcia holds an engineering degree, an MSc degree in Management of Information Technologies from Syracuse University, an MSc degree in Sustainability Management from Columbia University and a doctoral degree in Educational Technology and Sustainability from Pepperdine University.

# Webinar Information

**Day One: Thursday, December 3, 2020**  
11:00 am - 2:15 pm CST (including a 30-min. break)

**Day Two: Friday, December 4, 2020**  
11:00 am - 2:15 pm CST (including a 30-min. break)

*(please log into the webinar 15 - 30 minutes before start time)*

**Tuition**  
**\$299** for individual registration  
**\$199** for three or more registrants from the same company at the same time.  
**Included with your registration:** PDF seminar manual.

**How to Register**

- Visit us online at [www.halfmoonseminars.org](http://www.halfmoonseminars.org)
- Mail-in or fax the attached form to 715-835-6066
- Call customer service at 715-835-5900

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**Cancellations:** Cancel at least 48 hours before the start of the webinar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another webinar or the self-study package. You may also authorize another person to take your place.

# Additional Learning

## How-To Webinar Series: Live and interactive webinars that teach new skills

**How to Increase Energy Conservation and Provide Electric Car Charging Capabilities**  
- Fri., October 30, 2020 | 11:00 am - 12:00 pm CDT

**How to Maximize Your Road Network’s Life through Pavement Preservation**  
- Fri., Nov. 13, 2020 | 1:00 pm - 2:30 pm CST

**How to Design for Stormwater Management for Ground Mounted Solar Arrays**  
- Mon., Nov. 16, 2020 | 10:00 am - 12:00 pm CST

**How To Apply the 2015/2018 IEBC to Historic and Relocated Buildings**  
- Mon., Nov. 16, 2020 | 11:00 am - 12:00 pm CST

**How-to Design and Balance a Residential Ventilation System; Focusing on Balanced Ventilation**  
- Mon., Nov. 16, 2020 | 1:00 pm - 3:00 pm CST

**How to Design for Ice and Snow Loads**  
- Tues., Nov. 17, 2020 | 6:00 - 8:00 pm CST

**How to Design Conservation Developments**  
- Thurs., Nov. 19, 2020 | 8:30 - 10:30 am CST

**How to Design, Construct and Maintain a Cost Effective Permeable Pavement**  
- Thurs., Nov. 19, 2020 | 12:00 - 2:00 pm CST

**Solar Site Assessment**  
- Fri., Nov. 20, 2020 | 12:00 - 2:00 pm CDT

For more information and other online learning opportunities visit:  
[www.halfmoonseminars.org/webinars/](http://www.halfmoonseminars.org/webinars/)

## Continuing Education Credit Information

This live, interactive webinar is open to the public and offers up to 6.0 continuing education hours to professional engineers and 6.0 HSW continuing education hours to architects around the country.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), North Carolina (S-0130), and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York engineers via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2)). Other states do not preapprove continuing education providers or courses.

HalfMoon Education has applied to the American Institute of Architect Continuing Education System for continuing education credit (Sponsor J885). Visit [halfmoonseminars.org](http://halfmoonseminars.org) to check on the status of the course, and to view complete AIA information under this course listing.

This course is approved by the American Planner Association AICP for CM | 6 for Certified Planners (9206495).

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

**Can’t Attend? Order the Webinar as a Self-Study Package!**  
Recordings of this webinar are available for purchase. See registration panel for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

# Registration

## Electrifying the Transportation Sector

Live, Interactive Webinar - Thursday, December 3, 2020 and Friday, December 4, 2020

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