

# Agenda

Virginia Electric Vehicle Infrastructure Deployment Program	E. Belt
Reducing Embodied Carbon	J. Leaman
The building envelope	
Diminishing marginal returns	
HVAC systems	
Appliances	
Reducing Operational Carbon	J. Leaman
Solar PV and other renewable energy sources	
Electrification and efficiency	
Air quality and exchange	
Domestic hot water	
Value of Sustainable Construction	S. Carter
Initial investment	
Long term savings	
Design, planning and execution complexity	
Regulator, certification and inspection difficulties	
Handling Material Shortages Post Covid	S. Carter
Raw material availability	
Labor availability	
Increased demand	
Inflation and price volatility	
Building Science behind Green Building	C. Hendricks
Indoor air quality challenges and solutions	
Energy efficient strategies	
Water conservation strategies and solutions	
Building envelope considerations	
Resilient Building Strategies in Virginia	C. Hendricks
Qualities and characteristics of resilient and adaptable design strategies	
Design strategies for fire, wind and flood	
Carbon neutral building	
Setting resiliency goals in design	
Repurposing Vacant Commercial Buildings	C. Hendricks
Trends in available buildings	
Building code challenges facing change of use	
Historic tax credits and rehabilitation of buildings	
Mixed-use opportunities and challenges	



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## Current Issues in Virginia Construction Projects

Live, Interactive Webinar - Wednesday, October 23, 2024

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PO Box 278  
Altoona, WI 54720-0278



## Learning Objectives

- You'll be able to:**
- Explore** the Virginia Electric Vehicle Infrastructure Deployment Program.
  - Reduce** the operational carbon generated by new buildings.
  - Reduce** the embodied carbon in new buildings.
  - Identify** the economic benefits of using sustainable construction methods and materials.
  - Handle** ongoing construction material shortages.
  - Explore** strategies for improving the resilience of new construction.
  - Discuss** the challenges of repurposing vacant commercial buildings.

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# Considerations in Virginia Construction Projects

Live, Interactive Webinar - Wednesday, October 23, 2024



- Get** an update on Virginia electric vehicle infrastructure deployment
- Handle** material shortages
- Explore** strategies for building with less embodied carbon
- Improve** the resilience of new buildings
- Reduce** operational carbon in new buildings
- Repurpose** vacant commercial buildings

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<b>Architects</b> 7.0 HSW CE Hours 7.0 AIA LU   HSW	

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# Webinar Information

Online - Wednesday, October 23, 2024

<b>Log into Webinar</b> 8:00 - 8:30 am EDT	<b>Break</b> 12:30 - 1:00 pm EDT
<b>Morning Session</b> 8:30 am - 12:30 pm EDT	<b>Afternoon Session</b> 1:00 - 4:30 pm EDT

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# Faculty

**Erin Belt**  
*Decarbonization Program Manager, VDOT NEVI Team, Environmental Division*  
Ms. Belt joined VDOT's Environmental Division as the Decarbonization Program manager in July 2022. In her role, she manages the deployment of EV charging stations across the Commonwealth through the NEVI Formula Program as well as VDOT's Carbon Reduction Program. Prior to joining VDOT, she previously worked in construction stormwater for more than 17 years with Virginia DEQ, two Virginia localities and the State of Georgia. Ms. Belt completed her bachelor's degrees in Forestry and Wildlife Management and her master's degree in Wildlife Management and Ecology at the University of Georgia. She enjoys sustainable homesteading with her husband and cheering on the UGA Bulldogs.

**James M. Leaman, Ph.D.**  
*Assoc. Professor/Longacre Endowed Chair Director, Business and Leadership Program, EMU*  
Dr. Leaman chairs the EMU Department of Business and Leadership, where he teaches undergraduate courses in management, finance and economics, and graduate courses in organizational and leadership studies. Industry experience includes both private business and nonprofit administration, including 12 years of service with an international non-governmental organization (INGO) in Kenya. Academic preparation includes a Ph.D. degree in Public and International Affairs, a master's degree in Public Administration, and a bachelor's degree in Business Administration and Computer Science. The perspective Dr. Leaman adds to his field is analyzing and teaching about the role and impact of business and organizations within ecological limits and dynamic social systems, resulting in an integrated lens of sustainability, stewardship and justice.

**Sam Carter** *Herr & Co*  
Mr. Carter is a construction estimator and pre-construction manager with a decade of experience working for Herr & Company Building Contractors — specializing in high-end estate homes throughout the Shenandoah Valley. Having a background in both residential and commercial construction, Mr. Carter is well-versed in the cost management and planning of successful construction projects. Often serving as the liaison between the client's dreams and a project's budget, he combines his knack for interpersonal communication with his keen eye for industry trends to help both the client and the business meet their respective goals.

**Charles Hendricks, AIA, CSI, CDT, CAPS, CGP, LEED AP BD&C**  
*Architect, Gaines Group Architects*  
Mr. Hendricks is a father, architect, and Rotarian. His firm, Gaines Group Architects, focuses on using design to build a better community, enhance livability, reduce construction and operation costs, and protect the environment. As a certified aging in place specialist, certified green professional, and LEED accredited professional he designs projects over a wide array of types from a small kitchen renovation or deck addition to a custom home or a new commercial building. Mr. Hendricks is a member of the Rotary Club of Rockingham County, chairman of the Shenandoah Valley Partnership, Board member of the Massanutten Technical Center Foundation, Board member of Explore More Discovery Museum, Board member of AIA Central Virginia, and an active member of the Harrisonburg Rockingham Chamber of Commerce.

# Credit Information

This webinar is open to the public and is designed to qualify for 7.0 PDHs for professional engineers and 7.0 HSW continuing education hours for licensed architects in Virginia. Continuing education courses for Virginia engineers and architects are not subject to pre-approval (18VAC10-20-683).

The American Institute of Architects Continuing Education System has approved this course for 7.0 HSW LUs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .7 CEUs in the specialty area of Building (Preferred Provider No. 1232).

Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).

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7.0 HSW LUs (AIA)

# Additional Learning

**2024 International Building Code: Special Uses and Mixed Uses**  
- Tuesday, October 8, 2024 | 1:00 - 5:30 pm EDT

**Air-Source Heat Pumps for Residential and Small Commercial Buildings**  
- Tuesday, October 8, 2024 | 10:00 am - 5:50 pm EDT

**Decoding Site Design and Entitlements**  
- Tuesday, October 8, 2024 | 11:00 am - 1:00 pm EDT

**Handling Ethical Issues in Construction Management**  
- Tuesday, October 8, 2024 | 11:00 - 12:00 am EDT

**Modular Construction and Prefabricated Components: Residential, Multi-Family and Commercial Buildings**  
- Wednesday, October 9, 2024 | 10:00 am - 4:50 pm EDT

**Masonry Veneer Design & Construction**  
- Thursday, October 10, 2024 | 9:30 am - 5:00 pm EDT

**Special Inspections Under Chapter 17 of the International Building Code**  
- Thursday, October 10, 2024 | 10:00 am - 6:00 pm EDT

**Construction Contracting**  
- Tuesday, October 15, 2024 | 10:00 am - 6:00 pm EDT

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