

The Masonry Society

Sustainability E-News

Energy Efficient Buildings

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SPONSORED EDITION

From The Editor

We have several articles in this edition that relate to energy use in buildings, from complying with energy codes with the help of tools like [COMcheck](#) to achieving net-zero buildings. But it is the focus on existing buildings that is somewhat new. The District of Columbia is taking the lead on requiring energy efficiency improvements in existing buildings that do not meet performance targets, and they are not alone in advocating for energy efficiency retrofits of existing buildings. Read more in the articles below.

I would also like to invite you to join the TMS Sustainability Committee upcoming web meeting on April 1 from 1:30 - 3pm EDT. The topic of our call with considering the comments received on the proposed new name, scope and goals for the committee. For more information and a meeting link, [contact the TMS office](#).

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NOTE: Inclusion in this newsletter is not an endorsement of the products and materials featured, nor have these products been evaluated by TMS or the editor. Furthermore, the views expressed in the articles featured are those of the article authors.

GREEN BUILDING NEWS

As the green building industry matures the focus is shifting from energy efficient buildings to net-zero energy and zero carbon buildings. ~Tina

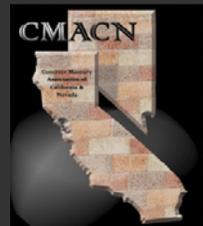
Report: Zero-Carbon Buildings "Definitively" Attainable

CONSTRUCTION CANADA ONLINE

Zero-carbon buildings provide substantial greenhouse gas reductions as well as cost savings over a 25-year life cycle, according to a Canada Green Building Council report. "This study shows us definitively zero-carbon buildings can be achieved with existing market-ready technologies and approaches for most building types, and that operating cost savings will cover the needed investments," President Thomas Mueller says in [this article](#).

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Platinum Level



Synthesis of the Evidence

QKA.COM

Principal Aaron Jobson of QKA offers his thoughts on this recently published [report](#) by World Bank Group. Jonson notes that it is an excellent summary of current research findings that demonstrate a significant link between the quality of a school's infrastructure and the learning that happens within it. The authors reviewed literature and research from around the world on a variety of topics related to the design and construction of school buildings, which generated important insights on approaching school facility design here in California. Read more [here](#).

Startup Tackles Housing Crisis with "Lavacrete" 3D Printing

SILICON HILLS (Wimberly, Texas)

Texas-based startup ICON has unveiled Vulcan II, a cutting-edge 3D printer that can build up to 2,000-square-foot homes faster and at half the cost of traditional construction methods, while also making them resilient. ICON's printer, which uses a proprietary concrete mixture known as "lavacrete," could be one solution to the housing affordability crisis, said Jason Ballard, the company's co-founder and CEO, in [this article](#).

CODES and STANDARDS NEWS

The recently passed District of Columbia law noted in the article below is unique among energy efficiency laws in that it will increase efficiency of [existing](#) buildings that do not meet performance targets. Most proposals target new construction, but this one will require current buildings to make changes. ~Tina

District of Columbia Passes Building Efficiency and Renewable Energy Policy

USGBC.ORG

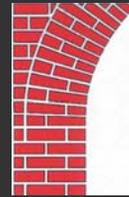
The law will create a new program to increase efficiency of existing buildings that do not meet performance targets. The Building Energy Performance Standard (BEPS) will require all existing buildings over 50,000 square feet to reach minimum levels of energy efficiency, or be required to increase that performance by 2026. [Read more](#).

Resilience is the Future of Real Estate and USGBC Spells it RELi

GREEN BUILDING LAW UPDATE

Hudson Yards, the largest private real estate development in the country recently opened, but what the \$25 Billion project may become best known for is that is designed for resilience from its giant "submarine doors" underground that can be closed to keep out storm surges to its own power plant that can keep the lights on even if New York City's power grid goes down. Read more [here](#).

GREEN PRODUCT NEWS



Western
States Clay
Products
Association

Gold Level



Masonry
Institute
of
America



Portland
Cement Association **

Silver Level



Southeast Concrete Masonry
Association *



Spec Mix **

Bronze Level



...and is an incredible game changer for climate change," he says in [this article](#).

Cement Firms Take Steps Toward More Sustainable Industry

GREENBIZ.COM

The cement industry is working to develop a sustainable product using alternative materials such as fly ash and slag, while companies such as CarbonCure have captured carbon dioxide from industrial processes and injected it into concrete during production. "With potential pressure coming from multiple sources, including down the value chain in the form of building and city regulation, cement companies need to invest and innovate in order to avoid impending risks to their operations and the wider world," CDP CEO Paul Simpson says. [Read more](#).

Maintenance Guidelines for Permeable Interlocking Concrete Pavement Systems

RESEARCH GATE

This paper provides operation and maintenance guidance to ensure that permeable pavements function properly by providing stormwater infiltration and structural support for the anticipated traffic loading. Get the paper [here](#).

EDUCATIONAL NEWS

REScheck and COMcheck are commonly used tools to demonstrate energy code compliance for masonry buildings. The free webinar below offers tips on how to use these programs. ~Tina

Webinar: Troubleshooting REScheck and COMcheck Projects

NCMA.ORG

Hosted by Bob Schultz of PNNL, this webinar will present case studies reviewing challenges that can be addressed via REScheck and COMcheck software, the popular compliance software tool supported by the U.S. Department of Energy. Both residential and commercial projects will be covered, as will distinctions between various energy editions of model codes. To register now, [click here](#).

Register Now for The Masonry Society Spring Meetings

MASONRYSOCIETY.ORG

Registration is now open for the TMS Spring Meetings to be held in Salt Lake City, UT June 14-16, 2019. For more information on the upcoming meeting and TMS Committee activities, check out [this link](#) or listen to a recording of the recent [Virtual Town Hall](#) and review the Presentation pdf.

Registration Open for 13th North American Masonry Conference

Nelson Testing Laboratories **



Northwest Concrete Masonry Association *



Pennsylvania Concrete Masonry Association ***



Masonry Institute of Washington

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