The Big Tech Construction Opportunity for Concrete Producers
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POLL QUESTION
Did you know?

**Embodied carbon** is expected to account for nearly 50% of the total carbon emissions from new construction over the next 40 years.
Concrete is the most abundant man-made material in the world. As a result, cement production creates ~7% of the world’s CO₂ emissions and is one of the largest contributors to embodied carbon in the built environment.
Speakers

**JENNIFER MITCHELL**  
Senior Manager  
Design Build Workplace, LinkedIn

**NANCY NOVAK**  
Chief Innovation Officer  
Compass Datacenters
POLL QUESTION
Linkedin Headquarters:
The Future of Embodied Carbon

Jenny Mitchell
Sr. Manager, Design Build Workplace
December 3, 2020
Jenny Mitchell, LEED AP, BD&C
Sr. Manager, Design Build Workplace, Linkedin

BA, Environmental Studies, Minor Business Administration, San Jose State University
MS, Sustainable Development & Public Policy, University of Illinois
ACI No. CA/Western Nevada Chapter, Board of Directors 2003-2005
NRMCA Certified Concrete Technician, 2003
Implementing Sustainable Concrete at HQ

Project Profile:
• 245,000 sf + parking
• LEED Platinum
• Recycled Water
• 100% Renewable Energy

Sustainable Concrete Solution:
• 15 Concrete Mixes
• Piloted carbon-sequestering technology

Impact:
• Reduce cement by 70% in some applications
• Avoid 4.8 M pounds of carbon from entering atmosphere
Linkedin’s Corporate Sustainability Commitments
Aligned with Microsoft and Leveraging Linkedin’s Unique Assets

**Carbon Negative**
Reduce and offset operational carbon by 2030; remove historic carbon by 2050

**Zero Waste**
Drive to Zero Waste certification on LinkedIn campuses by 2030

**Water Positive**
Reduce water use intensity and replenish watersheds by 2030

**Engaged Employees**
Empower and mobilize employees in healthy workplaces

**Green Economy**
Support equitable growth of green skills, green jobs, and green economic data insights
Carbon Negative Pledge

• 1 Reduce ‘Scope 3’ emissions by 55% by 2030; (i.e. carbon emissions from our procurement from suppliers, business travel and employee commute)

• 2 Support efforts by our suppliers and customers to improve their carbon impacts

• 3 Offset all historical emissions by 2050

• 4 Invest in carbon removal and sequestration innovation
Partners in Change......
Compass PUE vs Industry

• Annual Power Usage (operating at 100% load):
  - Compass Moonraker (PUE 1.15): 306,000,000 kWh.
  - Avg Similar Size Facility (PUE 1.67): 445,000,000 kWh

• Carbon Footprint (estimates from 42U.com):
  - Compass Moonraker (PUE 1.15): 185,000 Tons
  - Avg Similar Size Facility (PUE 1.67): 270,000 Tons
Compass Datacenters Announces Use of CarbonCure™ Concrete

Estimated CO₂ savings from CarbonCure: An average of 1,800 tons per campus. That’s equivalent to the CO₂ sequestered by 2,100 acres of forest or driving 4M miles.
Our CM Roles are Unprecedented

With only 9% of all construction roles held by women,

And only 3% of trade workers held by women

… resulting in only 1% of Executive Level positions held by women

Compass has brought amazing results using our process for training and oversight
LinkedIn – Mountain View, CA
Campus headquarters building

240,000 lbs CO₂ saved with CarbonCure
4.8 million lbs CO₂ saved through concrete innovation

Supplier:
Central Concrete Supply Co., a business unit of U.S. Concrete

Architect:
STUDIOS Architecture

Building Description:
245,000 ft² office building and parking garage
CarbonCure beneficially repurposes carbon dioxide (CO₂) to reduce the carbon footprint of concrete without impacting concrete performance.