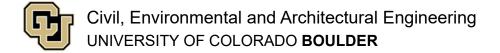
CDOT ENVIRONMENTAL PRODUCT DECLARATIONS (EPD) WORKSHOP

HISTORY OF HB 21-1303 (BUY CLEAN COLORADO ACT)

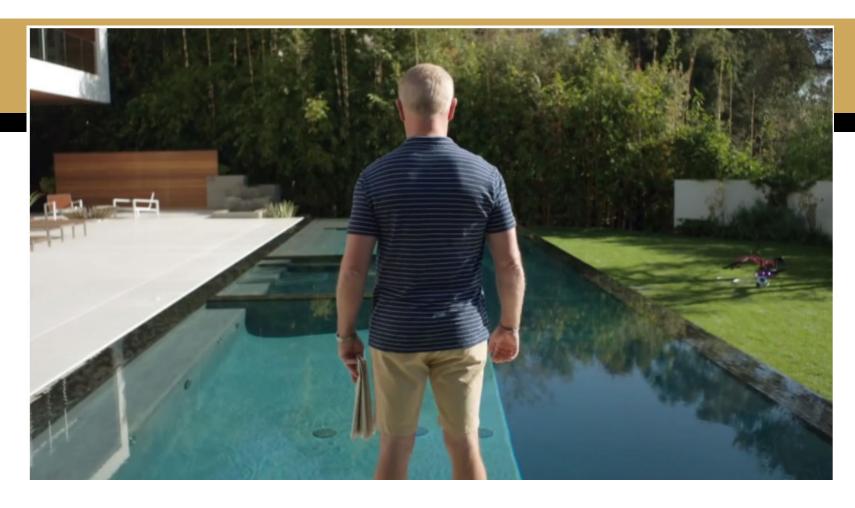
JUNE 8, 2022

Chris Senseney

senseney@colorado.edu



17th Annual Colorado Transportation Symposium



"We're crazy, driven, hardworking believers. Not like those other countries where they stroll home, they stop by the café, they take the whole month of August off." – advertisement for Cadillac's 2014 ELR hybrid



Outline

- Agenda
- History of EPD legislation
- History of HB 21-1303 Buy Clean Colorado Act
- Perspective from the bill sponsor, Rep. Tracey Bernett

First Regular Session Seventy-third General Assembly STATE OF COLORADO

REREVISED

This Version Includes All Amendments Adopted in the Second House

LLS NO. 21-0322.01 Pierce Lively x2059

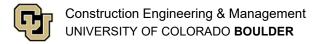
HOUSE BILL 21-1303

HOUSE SPONSORSHIP

Bernett and McLachlan, Amabile, Bacon, Bird, Boesenecker, Cutter, Duran, Froelich, Gray, Hooton, Jackson, Kennedy, Kipp, Lontine, McCormick, Michaelson Jenet, Ortiz, Ricks, Sirota, Titone, Valdez A., Weissman, Woodrow

SENATE SPONSORSHIP

Hansen, Bridges, Fenberg, Fields, Gonzales, Jaquez Lewis, Lee, Moreno, Pettersen, Story



History of EPD legislation

- Environmental Product Declarations (EPDs) are the current state of the art for representing the environmental impacts of manufactured products
 - EPD definitions and methodologies are defined by International Organization for Standardization (ISO)
 - European Committee for Standardization (CEN) –
 published EN 15804 with common *Product Category Rules* (PCR) for construction materials





History of EPD legislation

- LEED v.4 & Green Globes led adoption of EPDs
 - Two points available in its green building rating system
 - Most implementation in vertical construction projects
 - Bottom-up effort that started with material producers
- "Buy Clean" legislation
 - Buy Clean California Act (2017)
 - Oregon DEQ supporting concrete EPD
 - Port Authority of NY and NJ (PANYNJ) established EPD requirements in 2021
 - Washington and Minnesota considering use





Buy Clean Colorado Act

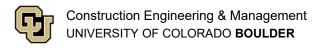
- HB 21-1303 assigns responsibilities for building construction to Office of State Architect and for road, highway, and bridge construction to CDOT
 - Road, highway, and bridge eligible materials: asphalt and asphalt mixtures; cement and concrete mixtures; and steel
- Requires CDOT to:

Strive to achieve a continuous reduction of greenhouse gas emissions over time.

For invitation for bids for contracts for public projects:

Require the contractor who is awarded the contract to submit a current Environmental Product Declaration, Type III, as defined by the International Organization for Standardization standard 14025:2006...for each eligible material proposed to be used in the public project.





Buy Clean Colorado Act



State Rep. Tracey Bernett's perspective:

- Motivation State Sen. Chris Hansen tried to pass embodied carbon bill in 2019. Rep. Bernett worked with BlueGreen Alliance and Carbon Leadership Forum to re-write bill.
- Split of buildings and roads Legislatures are not the experts, let the experts figure it out.
- Ultimate goal we must do everything we can to limit CO₂ emissions.
- Patchwork of rules change happens at the grassroots level and builds up to national level. Learn from one state and build upon those lessons.
- High cost of generating EPDs climate change isn't waiting.
 Every single person in this country is affected by climate change.

Questions?

Research supported by:

 CDOT Applied Research and Innovation Branch, Grant #R422-01

Thank you!

