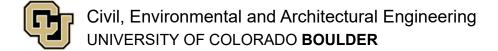
# CDOT ENVIRONMENTAL PRODUCT DECLARATIONS (EPD) WORKSHOP

HISTORY OF BUY CLEAN LEGISLATION

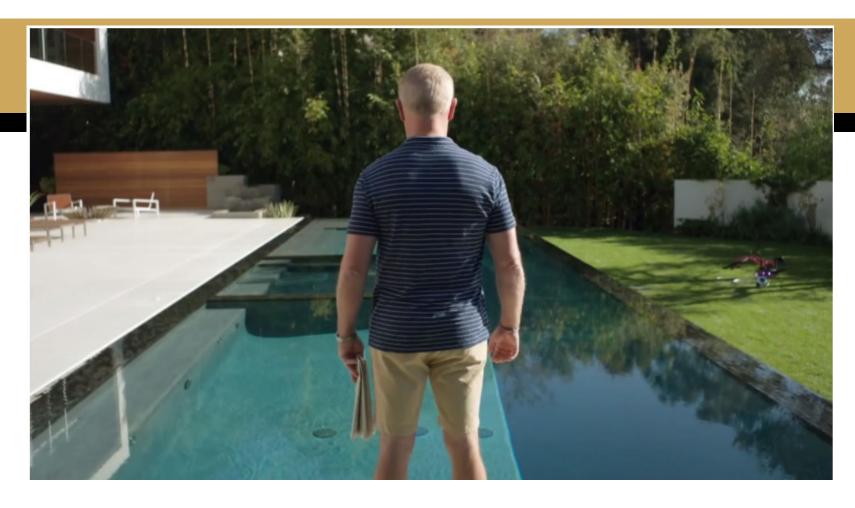
**AUGUST 16, 2022** 

**Chris Senseney** 

senseney@colorado.edu



CDOT Industry Stakeholder EPD Workshop



"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

- History of EPDs
- History of Buy Clean Legislation
- History of HB 21-1303 Buy Clean Colorado Act

#### 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

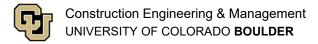
**HOUSE BILL 21-1303** 

#### 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

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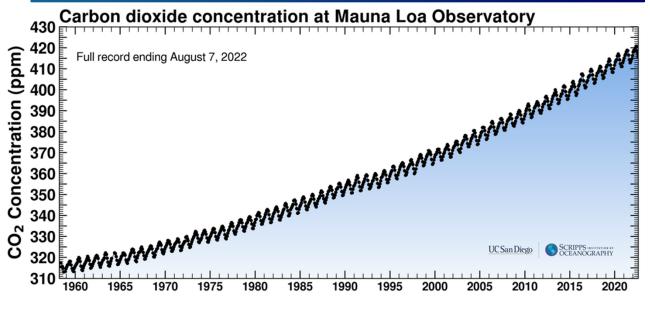


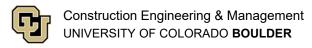
# CO<sub>2</sub> levels in atmospher

U.S. Department of Commerce / National Oceanic & Atmospheric Administration

Earth System Research Laboratory

Global Monitoring Division





# History of EPDs

- 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

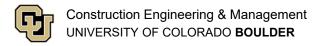




## History of Buy Clean Legislation

- 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)
  - Port Authority of NY and NJ (PANYNJ) established EPD requirements in 2021
  - Washington and Minnesota considering use
  - Oregon just passed buy clean legislation (2022)





### Buy Clean Colorado Act

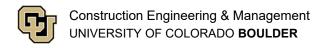
- HB 21-1303 assigns responsibilities for building construction to Office of State Architect and for road, highway, and bridge construction to CDOT
  - Road, highway, and bridge eligible materials: asphalt and asphalt mixtures; cement and concrete mixtures; and steel
- Requires CDOT to:

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.





### Questions?

### Research supported by:

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

Thank you!

