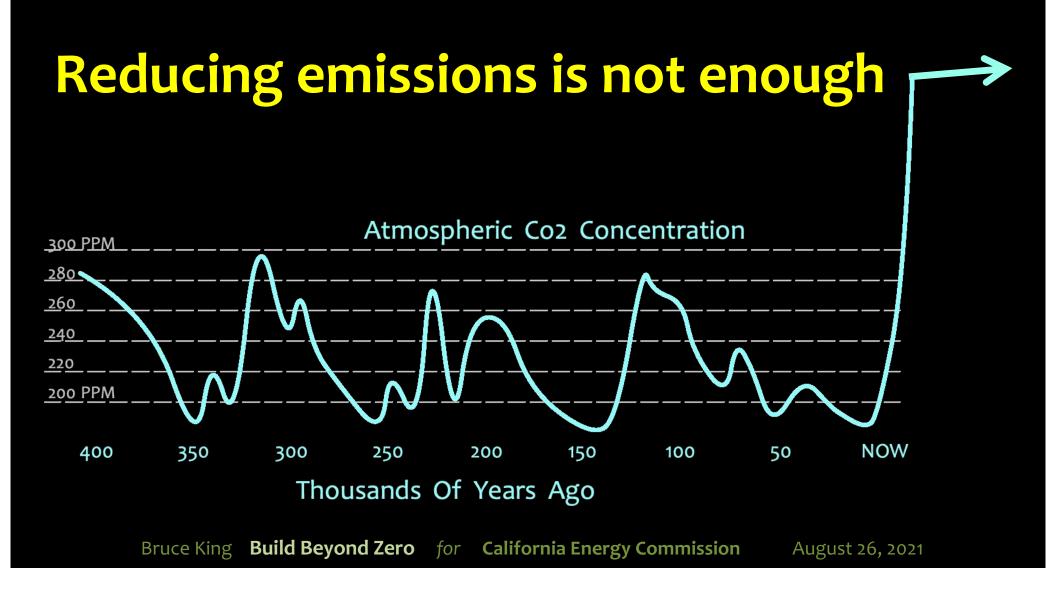
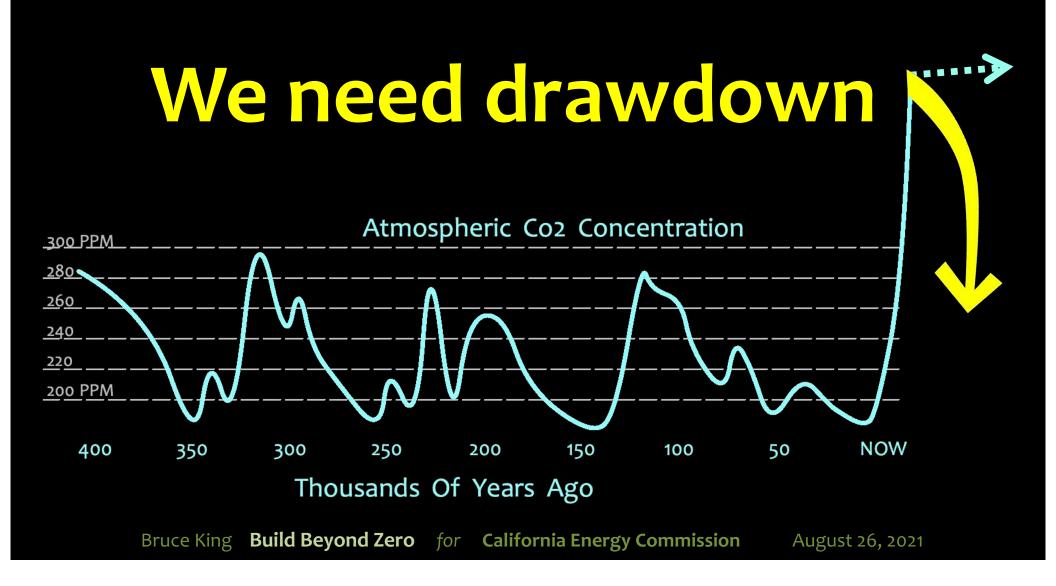
DOCKETED	
Docket Number:	21-IEPR-06
Project Title:	Building Decarbonization and Energy Efficiency
TN #:	239464
Document Title:	Presentation - Build Beyond Zero
Description:	S1.2C_Bruce King_Ecological Building Network
Filer:	Raquel Kravitz
Organization:	Ecological Building Network
Submitter Role:	Public Agency
Submission Date:	8/25/2021 2:34:39 PM
Docketed Date:	8/25/2021

Build Beyond Zero

Bruce King California Energy Commission August 26, 2021

Build Beyond Zero for California Energy Commission Bruce King





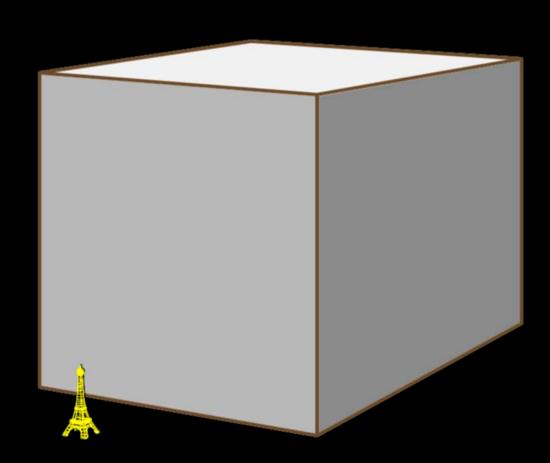


concrete

makes for **8**% of global emissions

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How much is 10 billion tons of concrete?



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the low-carbon concrete building code



www.marincounty.org

- code language
- background research
- commentary
- sample specifications

Going national – ASHRAE 189.1 International Green Construction Code

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But there's more to this than concrete...





refrigerants

Bruce King

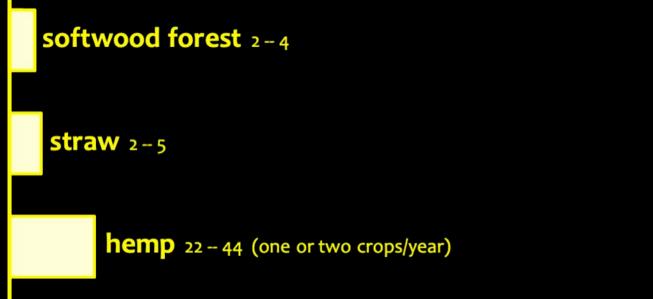
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steel

Use what you've already got!



but speaking of straw... Bruce King Build Beyond Zero for California Energy Commission August 26, 2021





algae 100 -- 250 (hydroponic structures)

Potential Photosynthetic Carbon Storage

tons per hectare per year, adapted from multiple sources Algae numbers based on extrapolation from current studies.

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Photosynthetic Architecture





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Mass timber?

Lower carbon? not necessarily





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Our goal: 15 by 50 Net carbon storage of 15 gigatons/year

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"TRULY, WHAT A FANTASTIC, TIMELY, IMPORTANT BOOK!" - PAUL HAWKEN, author of Drawdown and Blessed Unrest

THE NEW CARBON ARCHITECTURE



BUILDING TO COOL THE CLIMATE **BRUCE KING**

Thank you!

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