



Climate Challenges and Concrete Solutions

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Is the world better off because your business is in it?

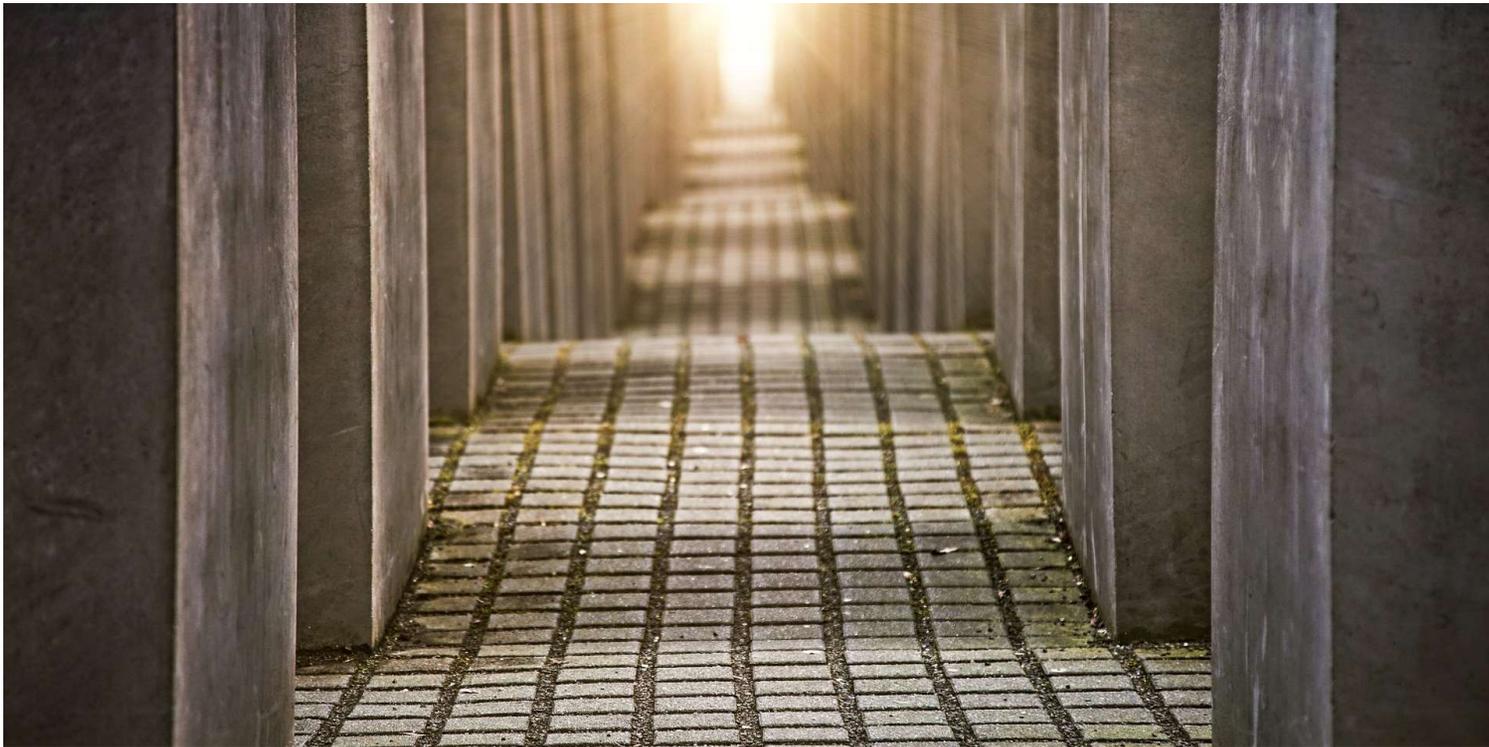
Profits should come not from creating the world's problems, but from solving them





It is the most common manmade substance on Earth

An additional 1 ton of concrete per person is being added every year!





Reducing Greenhouse Gas Emissions

The manufacture of cement is the largest contributor of carbon dioxide emissions





Ways to reduce concrete's carbon footprint

People in this room far more knowledgeable than me that can talk about ..





Climate Challenges and 'Five' Concrete Solutions

That can cause your concrete business to thrive!





#1 Change the narrative about reducing GHG emissions

Kilned bricks would produce a substantially similar amount of GHG emissions





#2 One off creative solutions

Offset embedded carbon in concrete with Habitat for Humanity solar panels





#3 Environmental Product Declarations

EPDs are mandated by government and the marketplace, so ..

Nutrition Facts	
Serving Size 1/2 cup (115g) Servings Per Container About 4	
Amount Per Serving	
Calories 250	Calories from Fat 130
% Daily Value*	
Total Fat 14g	22%
Saturated Fat 9g	45%
Cholesterol 55mg	18%
Sodium 75mg	3%
Total Carbohydrate 26g	9%
Dietary Fiber 0g	0%
Sugars 26g	
Protein 4g	
Vitamin A 10%	Vitamin C 0%
Calcium 10%	Iron 0%
<small>* Percent Daily Values are based on a 2,000 calorie diet.</small>	

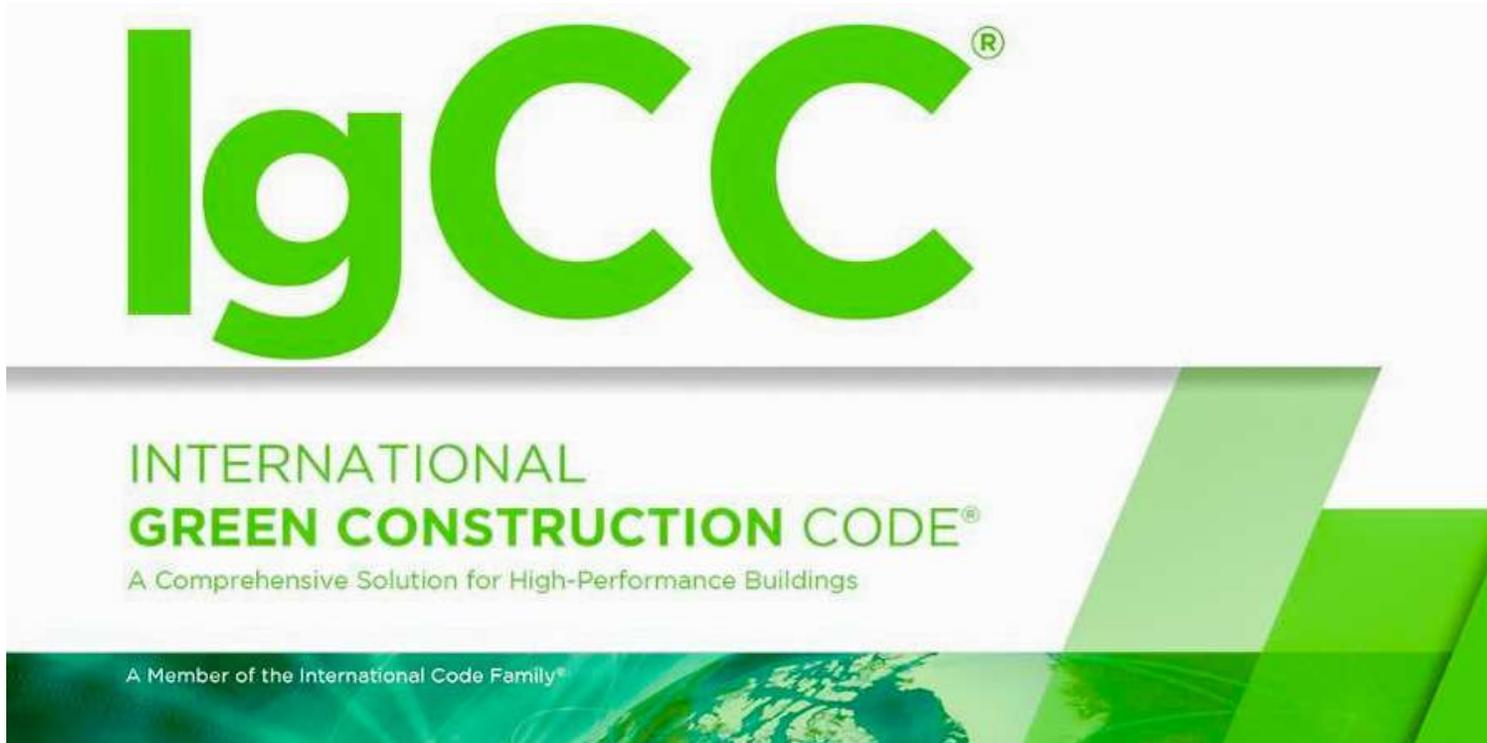
Source: <http://www.elixirenvironmental.com/environmental-product-declaration.php>

EPD “Nutrition” Label	
Your Building Product	
Amount per Unit	
LCA MEASURES	TOTAL
Primary Energy (MJ)	12.4
Global Warming Potential (kg CO² eq)	0.96
Ozone Depletion (kg CFC-11 eq)	1.80E-08
Acidification Potential (mol H⁺eq)	0.93
Eutrophication Potential (kg N-eq)	6.43E-04
Photo-Oxidant Creation Potential (kg O₃ eq)	0.121
Your Product’s Ingredients: Listed Here	



#4 Advocate for IgCC adoption across Maryland

50% of hardscape must be concrete and ..





#5 Reuse of concrete key to achieving Net Zero

Maryland does not allow reused concrete at Brownfields sites and other regulated ..





#6 GSA is driving low embodied carbon concrete

Guidelines for concrete containing coal fly ash were in the Federal Register in January 1983





And there is litigation driving this agenda

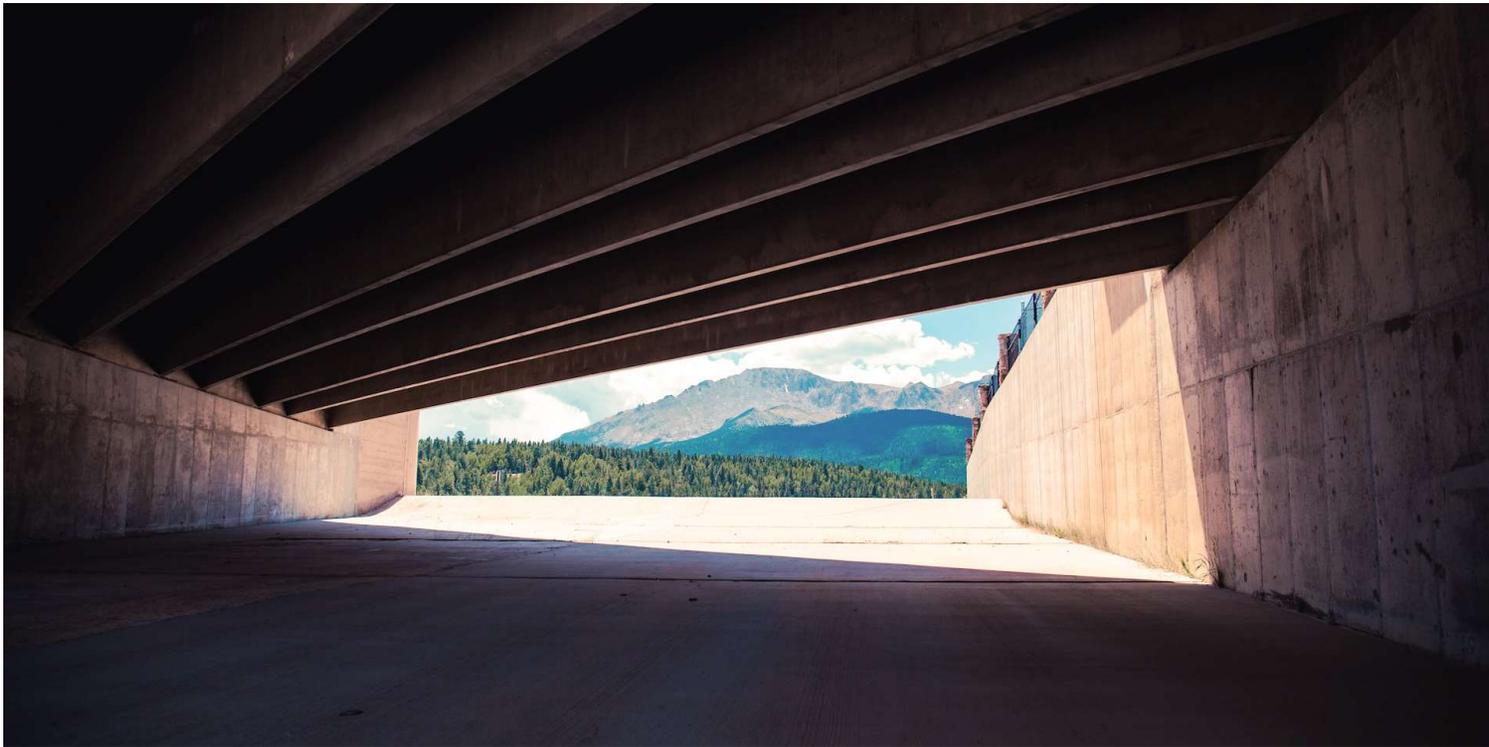
.. who say the cement maker's GHG emissions caused damage to the island of Pari





Concrete is not going away

This \$400 Billion a year industry is capable of being a good steward of the planet





*More Information on our Blog
And our Contact Information*

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