



Submittal #011:

Decarbonization with Fiber-Reinforced Polymer (FRP) Composites

Abstract:

Decarbonization is a “hot topic” these days. The DOT wants to lower CO2 emissions from infrastructure projects, as evidenced by the EDC-7 initiative on assessment & reduction of greenhouse gases (GHGs). This presentation will educate the audience about the terminology of Decarbonization. It will include examples where Fiber-Reinforced Polymer (FRP) composites provide the opportunity to lower Cradle-to-Gate and Cradle-to-Grave greenhouse gas emissions relative to other materials of construction. It will include a summary of the Life Cycle Assessment (LCA) conducted for the Halls River Bridge in Florida.

Speaker:

Joe Fox
foxconsulting147@gmail.com
M: 614-648-1791

FX Consulting, LLC President

Bio:

Joe Fox is president of FX Consulting, a consulting firm for the specialty chemicals and materials industries based in Dublin, Ohio. Joe has a PhD in chemistry from Penn State and is a 40-year veteran of the chemicals industry, having worked at Standard Oil of Ohio, BP America, Ashland Performance Materials and INEOS Composites. He is an active member of the American Composites Manufacturers Association (ACMA), the Society for the Advancement of Material & Process Engineering (SAMPE), and the American Society of Civil Engineers (ASCE). He is currently co-facilitator of the Infrastructure & Construction working group for the Institute for Advanced Composites Manufacturing Innovation (IACMI).

https://www.fhwa.dot.gov/innovation/everydaycounts/edc_7/sustainable_epds.cfm

