Concrete Zero Energy Homes - Advantages & Challenges

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ABSTRACT

This presentation is focused on design and construction of single family homes that are made with various concrete insulated systems that result in the buildings that produce the same amount of energy as they consume. We will discuss the basic elements of Zero Energy (ZE) home design, as well as concrete systems used in construction of ZE homes. We will examine several case studies that will illustrate the advantages and challenges in design and construction of concrete ZE homes. Part of the discussion will cover the cost benefits and compare concrete ZE home construction in USA with the practices in Europe.

BIOGRAPHY

Dragana Vlatkovic studied structural engineering in Europe and design in USA. She worked as a lead designer for few big national firms before opening up her own design company. Since the company funding her work has been exclusively focused on design and construction of smaller size homes on tight budget for owners wishing to grow-in-place with flexible living arrangements. Her expertise is in advanced building methods that include use of prefabrication.