

**Variable Refrigerant Flow Zoning Systems – A “Green” HVAC Design Methodology That’s Not Just For Tree Huggers Anymore**  
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Variable Refrigerant Flow Zoning (VRFZ) systems are a growing solution to the quest for points that engineers and designers often face when working with a LEED project. This presentation will explore the origins of “Green Design”, the problems that face engineers and designers when working within a LEED framework while designing HVAC systems, and how VRFZ systems (the 20 year plus global standard for energy-efficient HVAC) are just helping US designers concerned with “Green Design”. VRFZ system operation will be highlighted, and a detailed energy model comparing the energy usage of VRFZ to other mechanical systems will be presented.

*Rust Felix is the Senior Sales Engineer for the Roy C. Martin & Co., where he helps engineers and architects across Alabama and Mississippi with energy-efficient HVAC solutions. Rust is a graduate of the University of Alabama at Birmingham and holds both a Bachelor’s and Master’s Degree in Mechanical Engineering. His background is in Mission Critical HVAC design and implementation, and he has spent the past several years working in Washington DC. After deciding that working with Yankees in the freezing cold wasn’t for him, he recently relocated to Mobile, AL to focus on Mitsubishi CITY MULTI VRFZ equipment.*