

# OHIO AIR QUALITY DEVELOPMENT AUTHORITY

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Office of the Governor's Energy Advisor

February 19, 2010

David J. Kramer  
Kramer Development Group  
2879 Ludlow Road  
Cleveland, OH 44120

Dear Mr. Kramer:

I support your efforts to obtain a House Appropriations award for fiscal year 2011. Your net-zero energy modular-house-construction prototype has the potential to redefine the American home and its relationship with energy. In so doing, it can create newly-emerging high-growth-potential jobs and expanding opportunities in the new energy economy for Ohio's working people.

The key difference in your proposal is the shift from a focus on measurement tools to a focus on energy design from day one. This would appear to eliminate a set of challenges faced by other approaches involving on-site construction techniques and use of materials.

Your prototype integrates net-zero energy technology and the modular home-building process while incorporating the highest level of green home-building practices. I am intrigued by its potential to greatly reduce the need for fossil fuels and to produce enough energy to power the consumption needs of the home and two electric automobiles. The fact that its energy engineering design and performance specifications will be based on an energy model that can easily be adapted to guide decisions on future versions of the home and to commercial buildings in an added plus.

Your goal is to establish the foundation for the nation's first modular home manufacturing facility to solely produce net-zero energy, LEED-certified homes and to do so in the Cleveland area. If successful, the project will transform home-building from a single-home local business to a high-technology, factory-based-mass-manufacturing business with regional distribution. Each plant is projected to

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CLEAN AIR & CLEAN ENERGY  
ARE GOOD BUSINESS

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produce over 500 green-manufactured net-zero energy homes, 130 clean-energy jobs per plant and 50 clean-energy jobs for each of six adjacent supplier plants. It will drive job creation and growth in both the primary factory and supplier network and bring additional private resources for investment from high-growth potential component-supplier companies.

This transformational project could position Ohio to be a leading green manufacturer of affordable net-zero energy homes, retrain manufacturing workers and boost clean-energy investments, creating additional manufacturing jobs and factories that will aid rebuilding Ohio's economy. Access to capital continues to be the most pressing need for businesses in Ohio, the nation and this vital job creating effort. Federal support at this time can make a real difference.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark R. Shanahan". The signature is fluid and cursive, with the first name "Mark" being the most prominent.

Mark R. Shanahan  
Governor's Energy Advisor  
Executive Director