

Both energy independence projects are scheduled to be operational by spring 2008.

Photo by Ron Trees

## ENERGY INDEPENDENCE

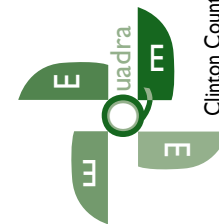
Currently there are two major waste-to-energy projects in the Quadra Initiative that will lead the path to energy independence.

### Industrial Biorefinery

The first project of its kind in the United States, the industrial biorefinery is a \$12.5-million facility that will convert food processor wastes from the Industrial Park on the west side of the county into methane that can then be converted to energy for use by the tenants of the park. Studies estimate an annual waste-disposal and energy savings of more than \$1.2 million.

### Swine Waste Digester

The technology for the \$5.5-million swine waste digester has been tested elsewhere in the United States, but this is the first plant of its kind in Indiana. Swine manure has high concentrations of methane which will be captured and—similar to the process in the industrial biorefinery—converted to energy. Located in central Clinton County, the energy generated from the digester will power 220 homes in addition to the farms themselves. The hope is that this technology can be refined and replicated across the United States.



Clinton County Economic Development Corp.  
Quadra Initiative  
259 East Walnut Street  
Frankfort, IN 46041



Photo courtesy of All Aerial and Specialty Photography

## Quadra Initiative | Clinton County, Indiana

A LOCAL INITIATIVE WITH GLOBAL OPPORTUNITIES

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Industrial symbiosis is a big phrase, and it's one that is changing energy, industrial, and agricultural landscapes in Clinton County, Indiana—and, someday, the rest of Indiana and the entire United States. "Symbiosis," put simply, is a mutually beneficial relationship. Here, both residents and businesses in Clinton County are reaping the rewards.

The Quadra Initiative is a four-part approach to industrial symbiosis that encompasses economic development, energy independence, environmental sustainability, and education.



Photo by Ron Trees



These are not new topics of research and discussion to people in the United States. We have known for a long time that fossil fuels are in limited supply and that our energy sources need to be diversified. Even with this knowledge, the concepts of energy independence and environmental sustainability have not widely been put into use.

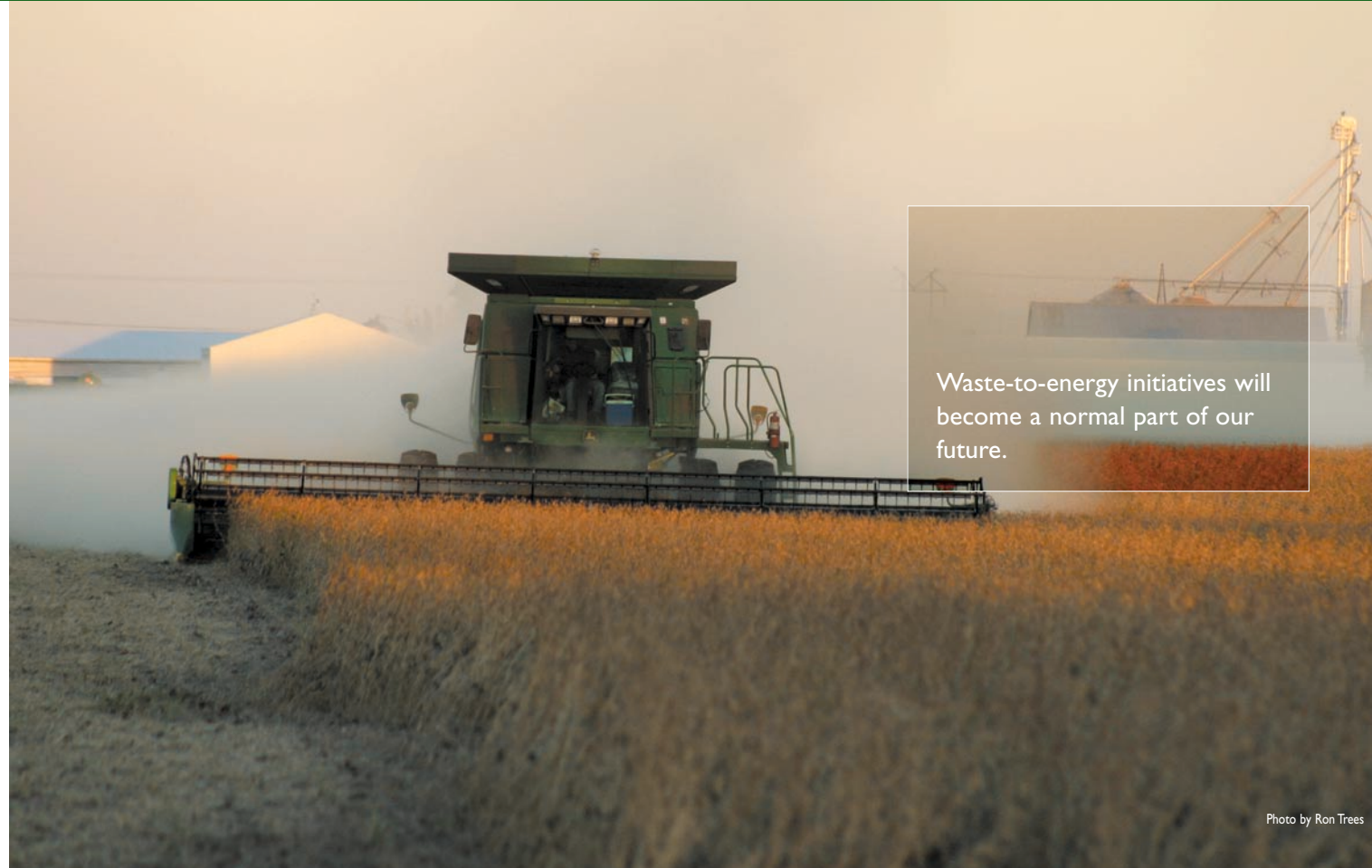
Now the Clinton County Economic Development Partners in Progress, the Clinton County government, and the city of Frankfort government are becoming leaders in identifying and implementing waste-to-energy opportunities; those that are both environmentally sound and in plentiful supply.

This is an exciting time for residents and businesses to utilize and for researchers and students to study some of the options we have for creating a cleaner, independent, more secure future.



## ECONOMIC DEVELOPMENT

At the forefront of the industrial symbiosis movement, Clinton County is on the fast track to attracting new industries and businesses. There is great economic opportunity in converting industrial wastes into energy. Manufacturers and producers win by both spending less to dispose of wastes and on purchasing energy for their needs. Clinton County leaders see the products of the Quadra Initiative as a means for companies to improve their competitiveness by reducing their costs.



Waste-to-energy initiatives will become a normal part of our future.

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## ENVIRONMENTAL SUSTAINABILITY

We only have one Earth to live on, and through the Quadra Initiative, Clinton County is finding cleaner, greener ways of living. By putting to work processes to convert waste to energy, there will be less waste disposal by those participating in the process and there will be less environmental impact from harvesting energy from our natural resources.

Less production of energy through traditional methods—coal, oil, natural gas, and nuclear energy, for example—means cleaner air, water, and soil for people around the world. The energy sources harnessed through these new programs are renewable and more environmentally friendly.

## EDUCATION

As the Quadra Initiative leads the way in energy independence and environmental sustainability in Indiana, a global opportunity is created for studying and refining the processes to duplicate them elsewhere. Students from pre-school to post-graduate studies can have real-life, hands-on educational opportunities to learn about this new way of living.

Waste-to-energy initiatives will become a normal part of our future. In order for humans to maintain the standard of living we know on this planet, these new energy opportunities will continue to be explored and utilized.