HYDROPOWER EVOLUTION AT BONNEYVILLE MILL
During the mid-1830's, Edward Bonney had a vision of a rapidly growing city centered around a sawmill and a grist mill on the Little Elkhart River. He selected the location partly due to its proximity to the Toledo/Chicago trail and the navigable St. Joseph River, providing access to Lake Michigan commerce.

NECESSITY, THE MOTHER OF ELECTRICITY
During the Great Depression, the Bonneyville owners subsidized production by forming Bonneyville Power and Electric Company in 1932, supplying hydroelectric power to about 45 customers into the early 1950's. Advancing technology and regulatory legislation eventually overwhelmed the milling business and the mill owners were forced to sell. The Elkhart County Chapter of Michiana Watershed purchased the mill in 1968 and presented it to the Elkhart County Parks and Recreation Board in 1969.

ELKHART COUNTY PARKS COMMUNITY TREASURE
Bonneyville Mill remains an example of workable antiquity by grinding flour the “old-fashioned way” every day from May through October. Even so, the mill continues to look forward and utilize cutting-edge technology to harness energy from water.

TURBINE INNOVATION
Mr. Bonney installed two different types of water turbines at his mill: first, a traditional vertical water wheel and later, around 1870, a horizontal turbine, which produced more horsepower. This innovation enabled Bonneyville to function as a progressive mill of the era. During the 1880's, many mills replaced grist stones with roller mills. Bonneyville opted not to expand and chose instead to serve a few local farmers and merchants.

GORLOV HELICAL TURBINE (GHT)
Lucid Energy Technologies approached the Elkhart County Parks Department in 2007 with a proposal to install a GHT at the Mill’s bypass gates. Lucid’s innovation offers an environmentally friendly means to generate electricity for the entire park without affecting the Mill’s normal operation. The GHT was installed under the footbridge in January 2008.
This type of application, scalable, the CHT can be utilized effectively in
with traditional hydropower. Because it is

through Friday.

Pam. Daily, herd tours may be scheduled Monday
through October. Hours are 10:00 am to 5:00

The mill is open to the public every day from May

Browns, Indiana 66307
555-235-698

VISITING BONNEVILLE

Lucid installed the CHT inside

power generation

utilized for research and development as well as

Tubing (CHT) in a duct. The site is being

the Lucid System at Bonneville Mill Park is the

Lucid Energy at Bonneville

Continued Innovation

There are thousands of low head dams, much

LOW-HEAD DAM OPPORTUNITIES

which is currently owned by Burns.

Lucid for electricity production, the bulk of

ready, Lucid will be able to sell power to
electricity, more important, CHT’s provide

environmentally benign, lightweight, and
fine engineering components making

Tubing (CHT), Lucid’s unique, is a single

Lucid Energy Technologies holds the exclusive