

Energy Innovation Center

www.sfccmo.edu/wastetoenergy



People. Power. Potential.

These three words define SFCC's Energy Innovation Center (EIC).

The center, located on a five-acre site at the Waste Corporation of Missouri central landfill in Pettis County, has a three-pronged focus:

- Provide an exceptional teaching and learning environment with hands-on training for SFCC students who want to enter the biomass job market
- Convert methane gas from 34 wells into electricity that generates as much as 2.4 megawatts onto KCP&L's grid—enough to power 1,500 homes
- Offer an incubator for businesses interested in exploring new energy technologies

In 2009, a formal partnership between SFCC, local and state agencies and businesses developed a plan for the center. Over the next two years, SFCC received the following funds:

- \$50,000—Pioneer Trails Regional Planning Commission and Missouri Department of Natural Resources for a consultant and curriculum designer
- \$718,500—Training for Tomorrow grant from the Missouri Department of Economic Development to help prepare Missourians for alternative energy careers and to develop the center
- \$1.6 million—Community Development Block grant from Missouri Department of Economic Development
- \$1.8 million—U.S. Economic Development Administration

In fall 2011, Gov. Jay Nixon presided over a groundbreaking for the center, which opened fall 2013. The center cost \$3.4 million and includes:

- an interactive classroom with two plant operation simulators
- engine and operator/control rooms with a heat recovery absorption chiller system
- a large incubator in which to develop and test new energy technologies and prototypes

Two One Jenbacher engines are used to convert methane to electricity; SFCC provided the 1.0 MW engine, and PPSGroup provided the 1.4 MW engine, which cost about \$1.4 million. There is room to install one more.

Businesses interested in partnering with SFCC to explore energy advancements should contact Mark Kelchner.

For information about the biomass, wind and solar renewable energy programs, visit www.sfccmo.edu/renewableenergy or contact John Burns.

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