

SENATE RESOLUTION No. 1861

A RESOLUTION congratulating and commending the city of Russell for its award winning energy plant.

WHEREAS, The city of Russell's energy center has been awarded the Energy Star Combined Heat and Power Award from the United States Environmental Protection Agency and the United States Department of Energy. The award was presented at the 2004 American Public Power Association Engineering and Operations Technical Conference in San Antonio, Texas, on March 8. Russell is the first city in Kansas, and only the second community in the nation to have received this award. Additionally, the city has received the Environmental Protection Agency's Combined Heat & Power (CHP) "Certificate of Recognition"; and

WHEREAS, The city's municipal power plant suffered an explosion in August 2000 that destroyed 50% of the electrical generation facility. After considering reinstalling piston type generators and exploring the potential use of wind turbines, the city decided to rebuild using gas turbines. Working with a private ethanol producer, U.S. Energy Partners, LLC, the city was able to engage in a process known as cogeneration. The city installed two Solar Taurus 70 gas turbines with heat recovery generators. The steam remaining after passing through the turbine to generate electricity is transferred to the ethanol plant to provide up to  $\frac{2}{3}$  of the thermal requirements to power the facility. Any remaining steam is then used a second time to process cattle feed going to feed lots and the resulting CO<sup>2</sup> gas is extracted for use at the enhanced oil recovery project outside the city. The result is that the efficiency of the fossil fuel used to generate the steam is increased from about 40% to over 80% while using 28% less fuel. The ethanol plant uses 12 million bushels of milo grown by local farmers to produce clean ethanol gas to power automobiles, produces distillers grain as a high quality feed for livestock, has made it possible to reopen a nearby wheat gluten plant and has provided new jobs for the community. Additionally, the entire process is considered the model for reducing atmospheric pollutants associated with conventional power generation: Now, therefore,

*Be it resolved by the Senate of the State of Kansas:* That we congratulate and commend the city of Russell upon the technological accomplishments of its new power generating facility and upon it being awarded the Energy Star Combined Heat and Power Award by the federal government; and

*Be it further resolved:* That the Secretary of the Senate provide an enrolled copy of this resolution to Gary J. Hobbie, City Manager, City of Russell, 133 W. 8th, Russell, KS 67665-0112.

Senate Resolution No. 1861 was sponsored by Senator Janis K. Lee.

I hereby certify that the above RESOLUTION originated in the SENATE, and was adopted by that body

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*President of the Senate.*

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*Secretary of the Senate.*