

The Kansas Department of Health and Environment (KDHE) presents Pollution Prevention Awards annually to those communities, businesses, and industries who have made a significant improvement in protecting our environment by preventing pollution or conserving natural resources. Pollution prevention (P2) encompasses many different activities that prevent or reduce the generation of pollutants or wastes at the source. Opportunities for preventing pollution occur in all sectors of economic life – industry, agriculture, energy, and/or the design and use of consumer products. This annual award program recognizes excellence in working towards a cleaner environment.

Any Kansas business, industry, community or community group, school, or organization is eligible to apply for a P2 Award.

I am happy to announce that this year we have seven award recipients.

#1 Our first recipient manufacturers approximately 12,500 skid loaders and compact track loader tractors a year. They installed a new dust collector that uses air opacity and volume controls that modulate the speed of motors through variable frequency drives to control four fan motors that total 950 horsepower. As dust and particulate levels increase in the plant the system adjusts to remove the contamination. The system resets to a lower setting as air contamination declines. These adjustments are continuous during the day. The system is also tied to the operation of key machines. If the machines are idled at the end of shift and the air is clear, the dust collector system completely shuts down. This resulted in a Quantity Reduction of 317,371 KW per year and an annual savings of \$251,628.90. Air quality for employees has also improved.

This recipient is CASE New Holland Industrial

#2. Our next recipient has been manufacturing fiberglass insulation since 1974. This facility uses High Energy Air Filtration (HEAF) units as air pollution control for the curing ovens on both manufacturing lines. Intermittently the media will tear, causing both a waste generation issue and a potential air permit

deviation. The facility undertook a pollution prevention project to evaluate ways to optimize the operation of the HEAFs so as to minimize these failures and subsequently reduce the amount of waste generated and potential deviations. The team evaluated the manufacturing process, analyzed the failure modes and after several experiments was able to determine optimized advancement times for the filter media. This equated to a savings of 49 tons of raw waste materials and \$120,000 year annually.

This recipient is Johns Manville.

#3 Our next recipient provides comprehensive healthcare to our nation's Veterans. This facility installed a network of solar panels. Instead of installing the network on the building or removing trees, they also built covered car parking that would hold the panels. Full production began August 2016 and exceeded expectations. Energy usage was reduced by 1,750,700 annual kw hours and an annual cost savings of \$157,300. A cost that can be transferred back to direct patient care.

This recipient is the Robert J Dole VA Medical Center.

#4 Our next recipient manufactures and constructs factory-coated metal storage tanks, aluminum domes, specialty covers and reclaimer systems. They took it upon themselves to implement several pollution prevention programs. They installed new electrostatic liquid paint guns that reduced paint use by 2,300 gallons, reduced annual air emissions by 215 lbs, and had an annual cost savings of \$115,000. VOC emissions were reduced by 8100 lbs. They also conducted an air leak audit that reduced energy use by 174,774 kw/hours a year, with an annual savings of \$20,973. LED lighting was installed with energy reduction of 497,802 kWh/year with an annual savings of \$43,807. Powder pumps were also installed that utilize 50% less air.

This recipient is CST Industries

#5 Our next award recipient operates a system of natural gas gathering pipelines, compressor stations, and associated equipment across Southwest Kansas. Their Operating Commitment focuses on five key drivers which must be effectively balanced in order to be a successful operator. Key drivers of Safety and Environmental Responsibility, Compliance, Cost Effectiveness, Quality and Customer Service are continuously taken into consideration as they make operating decisions. Through continuous improvement evaluations, an opportunity was identified to decommission 15 true minor sources and/or permit exempt compressor sites from the gathering system and re-route to existing compressor stations with available capacity so that commitments to customers could be maintained. Although most of the sites were relatively small on an individual scale, cumulatively, this effort resulted in significant reduction in emissions and cost savings. Approximately 159.86 tons/year of Nitrogen Oxides, 191.07 tons/year of Carbon Monoxide, 12.4 tons/year of Volatile Organic Compounds, .05 tons/year of Sulfur Dioxide, and 3.21 tons/year of Particulate Matter were reduced from this recipient's environmental footprint.

This recipient is ONEOK.

Our last two recipients have gone above and beyond and will receive an award with distinction.

#6 This recipient assembles automobiles at rate of 1100 a day. In March 2015, they began operation of an all new paint shop. The new paint shop was designed to improve vehicle quality, improve energy efficiency, reduce emissions of volatile organic compounds, and reduce the amount of hazardous waste generated from the vehicle painting process by utilizing a new "3-wet" waterborne coating process. By utilizing this new process they were able to reduce annual waste by 26,545 lbs, with an annual savings of \$30,000. Annual VOC emissions were reduced by 410 tons with an annual savings of \$15,170. On top of that, annual natural gas usage was reduced by 130,198 mega watt hours with a savings of \$1.78 million dollars a year.

This recipient is the General Motors Fairfax Assembly and Stamping Plant.

#7. Our last recipient of the evening manufactures and markets innovative dairy products. They enacted a five part plan that included producing a more concentrated milk product to reduce shipping frequency, reclaiming and reusing water from milk that reduces municipal water usage, extended production hours that still maintains food quality but reduces daily cleaning and water usage, and purchasing chemicals used in higher bulk to lower shipping amounts. Annual savings in shipping was 7,793,187 kg CO₂eq/year with a cost savings of \$17,330,544. Annual water savings are 14,198,832 gallons with a cost savings of \$14,908. Annual toxic chemical were reduced by 5,762 gallons at a cost savings of \$122,977.

This recipient is Kansas Dairy Ingredients.

That concludes our award ceremony. Congratulations to all of the award recipients.

Our keynote speaker this evening has authored two books, *Environmental Engineering P.E. Examination Guide and Handbook*, and *Understanding International Environmental Security: A Strategic Military Perspective*. In addition, he has published more than 15 book chapters and 30 journal articles and scientific reports. Dr. King has lectured at more than 50 professional conferences, including the technical sessions of the Copenhagen climate summit in 2009, Oxford University on water wars, NATO and OSCE programs on environmental security, and international programs on professional military education.

Please welcome Brigadier General W. Christopher King.

That concludes our dinner this evening. Thank you for coming and we will see you all tomorrow.