

CASE STUDY

IOWA SELECT FARMS



SITUATION

With 800 farms in 50 counties throughout the state, Iowa Select Farms is the fifth-largest pork producer in the United States, marketing more than 4 million hogs each year. The operation sought to reduce energy usage and costs in their hundreds of barns and facilities, while improving light quality for their employees and animals.

SOLUTION

LED2 identified an opportunity to update the barns' current Jelly Jar fixtures (using 100W incandescent bulbs) with the AGEN2 Vapor Proof LED fixtures.

The 16W high-efficiency LEDs are dustproof and waterproof, offer a 10-year

warranty, have no need for ballasts or transformers (unlike CFL or cold cathode lighting systems), and can be used in a number of hog applications, including:

- Finishing
- Gestation
- Nursing
- Farrowing
- Sow

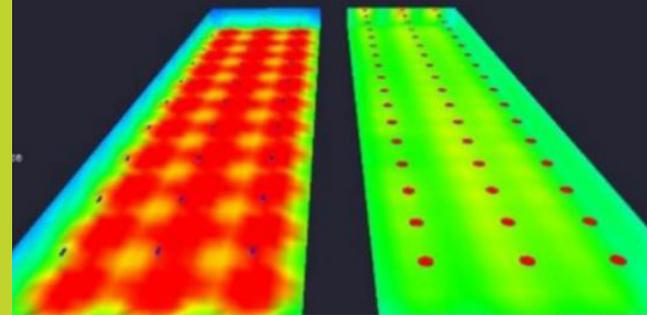
Their unique design meant each barn only required about half of the light fixtures compared to jelly jars: A typical barn was able to reduce its number of fixtures from 51 to 33, while trimming energy usage by almost 90 percent.

RESULTS

More than 700 farms have converted to the LED2 Vapor Tight fixtures, and each farm has seen an average of \$500/month in cost savings on the lighting portion of its electric bill. In addition to the energy efficiency, the light quality has greatly improved working conditions:

"The LED2 lights have been a great addition to our barn layouts," said Noel Williams, chief operating officer for Iowa Select Farms. "Many managers tell me how much easier it is to move sows as the lights reduce shadows. I would recommend them to anyone."

Standard (50'W x 200'L x 8'H) Feeder Row Lighting Layout



These two light fixtures illustrate the light output produced by different fixtures. The red regions show areas of maximum light output; greater areas of light output mean less shadowing. Left: AGEN2 Vapor Proof LED fixtures (16 watts); Right: Jelly Jar fixtures (100 watts).



\$7,080
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