

**SECTION 3**  
**Greenhouse Gases**  
**and the Barn**

## Section 3 Greenhouse Gases and the Barn

### Maintain Efficient Operation of Barn Climate Control Systems and Components

#### *Greenhouse Gas Benefit*

Energy consumption produces carbon dioxide (CO<sub>2</sub>) released by the burning of fossil fuels to maintain climate control systems in barns. Maintenance of fans and heating systems will help to maintain good barn air quality and climate control of powering the system<sup>25</sup>. Other energy saving options in the barn include:

- Efficient heating sources for farrowing crates to eliminate less energy efficient heat lamps.
- Climate control systems that automatically reduce barn nighttime temperatures slightly relative to the daytime climate.

Producers are encouraged to seek out new opportunities for providing heat to piglets in the farrowing crate to replace low energy efficient incandescent heat lamps. Options for your operation may include solar power, hot water heating pads, and new highly efficient bulb systems.



Credit: AgViro Inc.



Credit: Alberta Agriculture, Food and Rural Development