United States
Department of
Agriculture

Conservation Practice Overview

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Energy Efficient Lighting System (Code 670)

An agricultural lighting system with increased energy efficiency.

Practice Information

NRCS Conservation Practice Standard (CPS) Energy Efficient Lighting System (Code 670) is applied to improve energy efficiency of agricultural lighting systems. The practice applies to any agricultural facility with an electical lighting system and may include luminaires (lamps, ballast, and housing), controls, and wiring as appropriate. This includes all agricultural operations, including, but not limited to animal housing, greenhouses, onfarm processing facilities, and farmyard lighting.

The plan for an energy efficient lighting system is based on the lighting needs of the facility for the intended purpose of each area or space. An assessment evaluating the potenial for increased energy efficiency and savings is necessary to select more energy efficient system components. The intended use of the facility also needs to be considered to select materials that are rated for dusty, moist, or potentially corrosive environments such as animal housing. In some cases lighting system modifications may impact heating, cooling, or ventilation requirements for the facility. These impacts are often minor, but they should be considered when planning changes to the lighting system. Installation of system components and any potential modification to electrical wiring may require permits and a licensed contractor to complete the work.

Energy efficient lighting systems will require maintenance over the expected 10 year life of the practice to maintain desired lighting levels and performance.

Common Associated Practices

NRCS CPS Energy Efficient Lighting System (Code 670) is commonly applied with NRCS CPSs Energy Efficient Building Improvement (Code 672) and Farmstead Energy Improvement (Code 374).

For further information, contact your local NRCS field office.

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