

Energy from Hatchery Waste Renewable Perdue Farms Incorporated

Project Description

Perdue Farms, Incorporated will develop an integrated waste recovery process at their poultry facility in Cromwell, Kentucky that utilizes discarded materials from their hatchery. Newly installed equipment will recover the organic waste from spent eggs that did not hatch, eggs that could not be used, and other high organic wastes. The protein and water mixture will be delivered to an anaerobic pond that is already producing biogas for conversion to electricity and heat at their processing facility. Cleaned and finely ground egg shells will be stock piled and land applied as a soil amendment. The project should generate 620,000 kwh of power and avoid burning 2,506 decatherms of natural gas annually. Additional environmental benefits of the project will result in the diversion of 1,500 tons of organic waste from the Ohio County landfill annually. Total project costs will exceed \$290,000 with the Cabinet providing \$145,000 in match.

Project Objectives

- Install new piping and catch basins to separate the process waste from the sanitary waste
- Install a diversion conveyor, and egg shell washing equipment,
- Install an egg shell press
- Provide a place to stock pile cleaned egg shells for land application.

Time-line

- July 2013 - Initiate piping and catch basin work
- August 2013 – Begin waste diversion and install washing equipment
- October 2013 – Install egg shell press
- October – December 2013 - Stockpile egg shells