

BIOCYCLE

Regional Roundup

BioCycle April 2009, Vol. 50, No. 4, p. 12

Lindsay, California

COW POWERED TRUCKS AT DAIRY FARM

Hilarides Dairy, a 10,000-head dairy, recently upgraded its anaerobic digestion (AD) system to produce biomethane for its heavy duty trucks. Phase 3 Renewables integrated QuestAir's pressure swing adsorption (PSA) into the facility to upgrade a portion of the biogas generated from AD. The dairy manure generates 226,000 cubic feet of biogas per day, which QuestAir's M-3200 technology purifies

into compressed natural gas (CNG). This replaces the 650 gallons/day of diesel that the dairy's two heavy-duty trucks were consuming, prior to being converted to run on biomethane.

Rob Hilarides, the dairy's owner, received a \$600,000-grant from the California Air Resources Board (CARB)'s Alternative Fuel Incentive Program, which subsidizes projects facilitating greater use of nonpetroleum fuels. "It's energy projects like this that will reduce greenhouse gas emissions and get us off our dependency of foreign oil," says Mary Nichols, Chairwoman of CARB. "It also addresses sources of long term air and water pollution problems."