

## CASE STUDY

### Rotoshear® Waste-to-Energy



# Successful Screening Pilot at a Major Waste-to-Energy Player

**Does your receiving pond have unsightly floatables and gloves waving back at you? Let our Internally Fed Rotary Drum Screen, the Parkson Rotoshear® Unit, prevent those solids from entering the process.**

### The Challenge

Establishments such as restaurants, schools, nursing homes and more generate liquid waste from grease traps which must be disposed of. This waste is processed by Industrial Waste Companies. The process starts with the liquid being transported by tankers to processing plants and discharged into receiving ponds for further treatment. Solids such as straws, gloves and plastic forks must then be removed before processing the liquid, as they slow down the process of converting grease to energy. One biofuel feedstock supplier had monthly shut down “no receiving”

periods when haulers could not discharge their loads. This production stoppage was necessary to remove solids harmful to the process. The plant also employed staff 24/7 to manually clean shaker screens which received liquid from skimmer pumps in the ponds.

### Successful Pilot

Parkson recently completed a very successful pilot test at such a facility. The Rotoshear® Internally Fed Rotary Drum Screen, equipped with a .060” wedgewire screen, successfully removed solids directly from tanker trucks before entering receiving ponds. Screening material before it enters the receiving station allows the facility to focus on proper treatment of the industrial wastewater rather than the expensive downtime to drain and clean their receiving pond.

## The Solution

The Rotoshear® was modified with custom features such as high temperature sprays to accommodate fluctuating loadings in the application. Additional features were discussed to make this a seamless 24/7 system, such as controls configured for automated on-off cleaning operation cycles, hauler access keypad for recording and billing, and a solids dewatering press to further enhance grease recovery and boost dryness of separated solids, making for easy recycling and disposal.

Recovering valuable grease from local food processing plants returns revenue to the business while keeping this problematic material from entering sanitary sewer lines (which can lead to line blockage and overflows). Solids are removed and disposed of, leaving the liquid to be separated and processed into biofuel.

The world-wide focus of turning waste-to-energy is a quickly growing market that helps to reduce our dependency on fossil fuels.

Parkson's screens can successfully help in the recovery of this liquid. The Rotoshear unit is a long-lasting robust design that will outshine other screens in the dirtiest applications. With expert know-how and over 50 years of experience with thousands of installations, Parkson is here to help you get your wastewater application running smoothly so you can focus on your business. ■



Parkson Rotoshear demo unit in operation



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