

Office of Finance and Administration
200 Netzer Administration Building
State University of New York
Oneonta, New York 13820-4015
(607) 436-2081 Fax: (607) 436-2597



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To whom it may concern,

Oneonta Auxiliary Services (OAS) has driven sustainability practices at SUNY-Oneonta. One of the most notable accomplishments of OAS is the utilization and recycling of the vegetable oil from the dining halls to heat College Camp. This diverts 800-900 gallons of used oil from the landfill each year and saves OAS \$10,000 per year on fuel oil costs.

The conversion of fryer oil to heat College Camp is an innovative process. First, the oil is emptied into 55 gallon drums and is transported to the camp. From there, it is transferred into 275 gallon tanks. The oil is left to sit in the tanks for approximately two to four months. This helps to separate any water from the oil. When the oil is ready to use, it is pumped off the top of the tank, leaving any water or residue on the bottom of the container. The oil is then filtered and pumped into what is called the day tank. The day tank heats the oil to about 85 degrees Fahrenheit. From there the oil is filtered again and pumped into the high temperature tank, which is mounted on the burner. The high temp tank heats the oil to anywhere between 150 and 250 degrees Fahrenheit, depending on the quality of the oil. When the burner calls for heat it opens a solenoid valve allowing compressed air to pass through the mixing chamber. As the air passes through the mixing chamber it sucks oil out of the high temp tank and blows it out the nozzle where it ignites.

The whole process is not very complicated, but it is temperamental depending on the quality of the oil. The nozzle is cleaned every week or else the burner will misfire. The system has provided the College with an innovative, practical and sustainable way to recycle vegetable on campus. I affirm this projects innovative nature as outlined in the STARS 1.2 Technical Manual.

Sincerely,
Matthew A. Reiss

Matthew Reiss
Maintenance Manager
Oneonta Auxiliary Services