Biodiesel mind map

External input | Process | Repurposed waste | Market products | Waste product | *Partners*

Community members | *Campus dining* | *External universities* | *Corporate cafeterias* | *Local restaurants*

Oil collection network

WASTE VEGETABLE OIL (WVO)

FILTRATION

SOLIDS

OFF-SITE ANAEROBIC DIGESTER

COMPOST FERTILIZER

METHANE GAS

CLEANED WVO

POTASSIUM HYDROXIDE (KOH)

BIODIESEL REACTION PROCESS

METHANOL

WATER

HEAT

METHANOL DISTILLATION AND RECOVERY

RAINWATER COLLECTION

GEOTHERMAL SYSTEM

WINDSHIELD WASHER FLUID

GLYCERIN

SOAP PRODUCTION

BIOSOAP

BioSoap is distributed to downtown high-rises, individuals who bring their own bottle (BYOB), Loyola stores, and Loyola restrooms

PLANT-DERIVED OIL

FREE FATTY ACIDS

BIODIESEL WASH

WASTE WASH WATER

CAPTURED EMISSIONS

CRUDE BIODIESEL

IES BIODIESEL BOILER

LAVENDER FLOWER ESSENTIAL OIL

PURE BIODIESEL FUEL

The fuel is used for free enterprise shuttle buses, including Loyola's shuttle and local nonprofits

TIKI TORCH FUEL

SALICORNIA GROWTH

ORGANIC DE-ICER

FERTILIZER WATER

The fertilizer water is used in the IES Ecodome