

Waste to Fuels

Waste to Fuel technology is part of “Waste to Energy” technologies, focussing on reusing waste raw materials (biomass) to produce fuel. Waste to Energy, is a term that is used to describe various technologies that convert non-recyclable waste into usable forms of energy including heat, fuels and electricity. Waste to Energy can occur through a number of processes such as incineration, gasification, pyrolysis, anaerobic digestion, and landfill gas recovery

Period:	Period 2
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Educational management portal:	moodle.unitus.it
Objectives:	Overview of waste to fuels concept, available waste streams and processes. Second and third generation biofuels from waste feedstocks.
Programme:	<ul style="list-style-type: none">● Introduction● Processes: waste oils; HVO; pyrolysis of biomass, pyrolysis/gasification of plastic waste, biowaste to biogas
Pre-requisites:	i) Fundamentals of Chemistry and Process technology ii) Completed Biofuels module
Study material:	<ul style="list-style-type: none">● Lecture slides● Reading material● Additional literature handed out during the course / made available via Blackboard/Moodle.