

CURRICULUM Environmental Technology / Aquaculture

MODULE # Biodiesel → Theory Why, How, Advantages / Disadvantages

LEARNING UNIT

OBJECTIVES	ACTIVITIES	RESOURCES	MASTERY CRITERIA
<p>Describe the benefits of using biodiesel</p> <p>Explain the impacts associated with the production and use of biodiesel</p> <p>Compare and contrast the economics of biodiesel and petroleum</p> <p>Describe how biodiesel can be used in a wide variety of applications</p>	<p>Lecture</p> <p>Class discussion</p> <p>Poster and presentations project</p> <p>Graph emission reductions associated with biodiesel production</p> <p>Web Quest Q&A</p>	<p>Biodiesel websites</p> <p>Video – Veggie von Voyage</p> <p>Books – From Fryer to Fuel Tank</p> <p>Guest Speakers – R. Lawrence</p> <p>Diesel equipment</p> <p>Diesel vehicle</p>	<p>List the environmental issues associated with petroleum based diesel vs. biodiesel</p> <p>Produce / create a flow chart that illustrates the steps involved in producing biodiesel and the impact associated with each step</p> <p>Calculate how much the school saves / spends by producing biodiesel from WVO</p> <p>List the many uses of biodiesel</p>