

Master Thesis Brief Description

Thesis Title	Vasiliko Power Station (VPS) Boiler No.3: The conversion of the burner to enable the use of Crude Oil and Natural Gas
Programme of Studies	MSc in Sustainable Energy Systems
Course	MES 580 Master Thesis
Area of Study	Sustainable Energy Technologies – Biofuels Assessment
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Supervisory Committee	Dr Michalis Menicou, Assoc. Professor, Mechanical Engineering Department Dr. George Karagiorgis, Professor, Mechanical Engineering Department
Semester	Fall Semester 2019
Short Description	The purpose of this project is the investigation of the conversion of a burner installed at Vasiliko Power Station to enable the use of crude oil and natural gas. The data collected was extracted from the Vasilikos Power plant and a full presentation of the Power produce Steam Engines used to generate electricity are presented. Moreover, this project includes information regarding of what exactly has been carried out during the execution of works during the conversion. Feedback for the operation of the boiler are included to help the reader understand the fundamental for the operation of the boiler. Such information includes the temperature and pressure of the fuel being treated during the combustion process.