



Abu Dhabi Polytechnic

Students' Graduation Project Abstract

Department:	EMET	Semester:	Spring-2022
Project Title:	Clean Energy Wave Power Plant		
Supervisor:	Dr. Dani Abdo		

Abstract:

Energy is one of the essential things in our daily life as we cannot be dispensed with even one day as many things depend on energy. Energy is divided into two types, as there is a type called renewable energy, meaning that it does not pollute the atmosphere, such as nuclear energy, wind energy and many other types. Renewable energy is one of the types of energy derived from natural renewable processes, and it is within a short period of time and cannot be exhausted. The most important renewable energy sources known are (biomass, geothermal energy, hydro energy, solar energy, and wind energy). Our project will focus on a specific type of renewable energy, which is wind energy collected from the movement of sea waves. The students in this graduation project will make a schematic diagram in the Autodesk inverter program, which will be to make a prototype of the selected design from us, through which it will facilitate the students to understand the method of producing energy from the movement of sea waves and calculate its efficiency according to the force of the wave movement, the students will do this The project also explains the tools that they will need to complete their project, as they will begin by explaining the tools that we will use, how we will use and their specifications, and where we will install them in the final form. They will also mention about the problems that we may encounter while working on the project and they will explain the process that will occur for energy production, they will at the end make a summary of the achievements of the project objectives and recommendations for future work.