



Abu Dhabi Polytechnic

Students' Graduation Project Abstract

Department:	EMET	Semester:	Spring-2022
Project Title:	Innovative Design Model of a Vertical Wind Turbine		
Supervisor:	Dr. Dani Abdo		

Abstract:

An Alternative new technology such as the atmospheric water generator would provide an extra sustainable and free source of water which helps reduce water consumption. This project demonstrates an innovative and new way to extract water from the humid air using simple technology, unlike the regular atmospheric water generators that consist of many components. In this project, the main point is to take advantage of the difference in temperature between the surface and underground temperature. The humid air will be collected through holes below the vertical axis wind turbine which is then transported by the fan into the condensation process. The device will be operated by a clean source of energy embracing sustainability using solar panels along with the wind turbine that will allow the device to work at its maximum capacity.