

DEVELOPMENT OF MANAGEMENT INFORMATION SYSTEM  
FOR CAVITE STATE UNIVERSITY-AFFILIATED  
RENEWABLE ENERGY CENTER FOR  
REGION IV (CvSU-AREC IV)

THESIS

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**DEVELOPMENT OF MANAGEMENT INFORMATION SYSTEM FOR CAVITE  
STATE UNIVERSITY-AFFILIATED RENEWABLE ENERGY CENTER  
FOR REGION IV (CvSU-AREC IV)**

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## **ABSTRACT**

**CONSIGO, KENDRA MAE S., DILLO, ARVIN FRANCIS G., and QUIJANO, LALAIN P.** Development of Management Information System for Cavite State University-Affiliated Renewable Energy Center for Region IV (CvSU-AREC IV). Undergraduate Thesis. Bachelor of Science in Information Technology, Cavite State University, Indang, Cavite, July 2019. Adviser: Mark Philip M. Sy.

The study was conducted from August 2018 and was finished on July 2019. The study's general objective was to develop an information system for Affiliated Renewable Energy Center for Region IV (CvSU-AREC), specifically the proponents aimed to provide a researcher account module that accommodates the registration of researchers, allow researchers to apply for the Researcher AREC Account, create a database that will enhance the records of the AREC Staffs, and allows access for the Administrator.

Upon the development of the CvSU AREC MIS, the researchers used the evolutionary prototyping model that served as their guide to make the system fully functional. The system was developed using different software and tools: PHP, HTML, CSS, JavaScript and MySQL. It is composed of the following modules: account management module, content monitoring module, report management module and communication module. The system was tested using unit test, integration test and system test.

After the development, the system was evaluated by the respondents who were composed of CvSU students(also served as the public users), AREC staff, and IT experts in the Department of Information Technology. The study obtained an overall rating of 4.35 denoting an excellent result. It signifies that the system passed the respondents'

expectations. However, to further improve the system, there were recommendations formulated.

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## **INTRODUCTION**

In order to generate electricity, an area offers several energy resources based on its natural conditions and circumstances. And that is why we also have renewable energy such as wind, solar, hydroelectric, and wave power. These types of resources are based on the natural weather patterns and features of an area.

The Department of Energy (DOE) settled an effective information dissemination program to establish Affiliated Nonconventional Energy Centre's (ANEC) that is strategically located every colleges and universities to promote the widespread use of renewable energy. The renewable energy should never run out or it can be sustained indefinitely. It comes from natural resources that are naturally replenished like wind, rain, sunlight, tides and geothermal heat. The people who are work to improve the renewable