

Site Visit to Sri Jelutong Biogas Power Plant by University Malaysia Pahang Energy Institute (UMP) Student Chapter

1.0 INTRODUCTION

Energy Institute Student Chapters Universiti Malaysia Pahang has organized a visit to Sri Jelutong Biogas Power Plant on 2nd May 2018. This plant is one of the latest biogas plant owned by Cenergi Sea Sdn Bhd located in Chini, Pahang. The biogas plant is producing 1.5 MW of electricity and started operation in October 2017. Cenergi Sdn Bhd is a subsidiary of Khazanah Nasional Bhd where the company is one of the largest grid-connected palm oil mill effluent biogas developer in Malaysia; operating four plants with a combined generation capacity of 5.5MW. The purpose of the visit is to explore and expose student & lecturers on the knowledge and operation of biogas plant from palm oil effluent.

2.0 SITE VISIT OBJECTIVES

1. To promote EI Student Chapters activities through industrial visit.
3. To expose the student's and lecturer's on the basic operation of biogas power plant
4. To identify the industrial problem statement which can create industrial linkage with the university

3.0 SITE VISIT PARTICIPANTS

The delegation was welcomed by Mr Hezwan (Plant Manager & UMP alumni) and Mr Shamsuddin (Regional Operation Manager) and was briefed about the company and biogas plant before plant touring. The visit was joined by a total number of 19 students and 10 lecturers from the Faculty of Chemical Engineering and Natural Resources (FKKSA). Details explanation and discussion on the plant operation and hiccups throughout operation and maintenance of the plant were highlighted and several issue have been identified for further research collaboration.

4.0 CONCLUDING REMARKS

Details presentation by Mr Shamsuddin (Regional Operation Manager) on the plant operation has created a door for future collaboration between both parties on the CO₂ and H₂S emission problem. Further visit and thorough discussion on the related issues will be expected very soon between Cenergi and FKKSA lecturers. The EI Student Chapter have gained new knowledge and experience in real operation of biogas plant which related to energy production sectors.



Photo 1. Participants involve in the plant visit in front of the biogas power plant



Photo 2. En Shamsudin (Regional Operation Manager) briefing session with UMP delegates



Photo 3. Lecturers of FKKSA visiting the covered lagoon



Photo 4. Sri Jelutong Biogas Power Plant in Chini