

Environmental Management System (EMS) for Palm Oil Industry in Malaysia: Changing from Polluted to Sustainable Industry

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Problem Statement: Palm oil industry generates large amounts of waste which has high impacts on the environment and these generated wastes have low regulatory monitoring in Malaysia. The environmental management system (EMS) is potentially effective in the reduction of the environmental impact of waste generation from palm oil processing to final products. **Objective:** This research study the trend of palm Oil waste generation and its environmental impacts, the status of EMS practices in oil palm industry and the environmental practices in Malaysia Palm Oil industry to determine the key factors influencing and driving changes in palm Oil waste management. The study has the prime objective of creating a functional model of EMS for sustainable palm oil industry in line with Malaysia environmental legislations, regulations and global policies. **Methodology:** This research involves literature survey which reviews the technology and policy parameters associated to EMS in oil palm industry in Malaysia; primary data collection from the stakeholders and the Malaysia Palm Oil Board on EMS practices using questionnaire and finally, analysis of the results to determine the effectiveness and the driving factors of EMS in oil palm industry in Malaysia. **Results:** The results will be used to develop a model that can be used to enhance EMS sustainability in Malaysia palm Oil industry. The model could also be applied in other countries for global environmental sustainability. **Conclusion:** In conclusion, EMS has the potentials of improving waste management in oil palm industry and creating a sustainable environment around the oil palm rich countries.