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The Effect of Giving Avocados (*Persea americana* Mill) and Guava (*Psidium guajava* Linn) on Hemoglobin Levels in Traditional Rice Farmers

Utari R.^a ; Setyaningsih Y.^b; Suwondo A.^b

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^a Health Promotion Program^b Faculty of Public Health, Diponegoro University, Indonesia

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Data of Puskesmas (Public Health Center) profile was obtained from Hiang Lestari village midwife, showed that 38% of rice farmers develop anemia. The objective of research was to find out the effect of Avocado (*Persea americana* mill) and Guava (*Psidium guajava* linn) administration on Hemoglobin level in Traditional Rice Farmers in Hiang Lestari village. This study was a quasi-experiment research with

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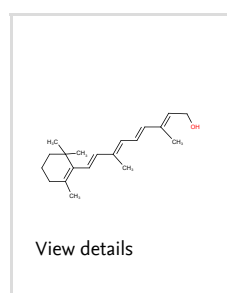
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Pretest-Posttest with control group design. The population of research was all traditional female farmers fulfilling the inclusion criteria. The sample consisted of 30 persons, taken using purposive sampling, divided into 3 treatment groups: avocado, guava, and combined avocado and guava consumption. Analysis was conducted using T Paired Sample Test. The result of research showed that there was a difference of hemoglobin level with sig. value (2-tailed) of $0.000 < 0.05$ having treated with avocado fruit consumption, with average hemoglobin level increase of 1.3 g/dl, with sig. value (2-tailed) of $0.002 < 0.05$ having treated with guava fruit consumption, with average hemoglobin level increase of 1.6 g/dl, and with sig. value (2-tailed) of $0.000 < 0.05$ having treated with combined avocado and guava fruit consumption, with average hemoglobin level increase of 2.8 g/dl. © 2020 IOP Publishing Ltd.

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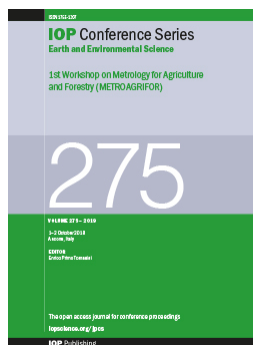
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Abstract. Despite of adverse impacts on the environment, landfill has big potency as renewable energy sources since it generates biogas from organic waste degradation process which can be used for power plant purposes. In 2017, the volume of waste disposed to Manggar Landfill was 128,000 tons, which mostly are organic waste (59.4%). Therefore, this study aims to estimate the amount of energy that can be generated from landfill as methane, by calculating biogas production in landfill based on waste generation, as well as composition using LandGem and Afvalzorg model. In 2017, Manggar landfill produced about 4×10^3 Mg CH₄/year or about 5.31 to 6.44×10^6 m³/year. The estimated methane then converted to electricity using gas engine and trigeneration methods. Using gas engine, methane from Manggar Landfill is predicted to produce electricity about 787 MWh/month. On the other hand, if trigeneration method applied (by keeping the same gas engine as before), it produces 41.8% of heat which convert to 29.3 kWh of cold. In conclusion, it will be beneficial if Manggar Landfill capture and treat methane for generating electricity since Manggar Landfill produces about 6.44×10^6 m³/year which can be used for electricity purposes of around 10,000 people using gas engine.

1. Introduction

Landfilling is the most preferable method applied in developing countries, particularly in Indonesia, in handling its municipal solid waste. It is considered as cheap and convenient method since it is not restricted to advanced technology for treating and managing waste. Despite of its economics advantages, landfilling gives many adverse impacts on environment. The failure of landfilling methods may lead to many environmental contaminants due to leachate and which are soil pollution, ground water contamination and air pollution due to emission of greenhouse gases [1]. Therefore, waste management hierarchy put landfilling method as last option preferable due to its adverse effect to environment.

In Balikpapan, landfilling has been practiced many years ago, but proper landfilling area named Manggar landfill was opened in 2002. When opened in 2002, the volume of waste disposed to Manggar landfill was 69,000 tons and in 2017 it reached 128,000 tons. In a period of 15 years, the volume of waste has doubled. Urban waste that is directly piled up still contains a lot of organic waste at 59.4%. Followed by plastic waste, paper, and others, which have a composition respectively: 13.51%, 12.26%, and 10.62%. This high percentage of organic waste gives adverse impact from landfill gas produced by



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Abstract. Wastewater is the liquid waste generated after being used for different purposes. It has a great impact on the environment when discharged untreated or partially treated. The poor management of wastewater at Gacuriro wastewater plant leads to the discharge of subsequently untreated and partially treated wastes. Therefore, the research focused on the assessment of the efficiency of Gacuriro wastewater treatment plant. Samples of wastewater were collected at the inlet and outlet of the treatment plant for laboratory analysis. Parameters tested include pH, Temperature, Total Suspended Solids (TSS), Biological Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Total Coliform (TC), Oil and Grease, and Total Phosphorus (TP). Inlet and outlet results are 112.5-364.5 mg/l, 60-190.2 mg/l for BOD; 447-820 mg/l, 46.6-300 mg/l for COD, 19-24 mg/l, 12-18 mg/l for TSS; 6.8-9.05 mg/l, 6.4-5.75 mg/l for TP, 2419.6-50000 counts/100 ml, 1730-30000 counts/100 ml for TC, and 1.012-1.079 mg/l, 0.75-0.923 mg/l for Oil and Grease. Their percentage reduction of efficiency were in the range of TSS (62.50-75%), COD (63.05-78.74%), BOD5 (69.97-83.70%), Oil and Grease (48.67-62.19%), TP (49.26-60.82%), TC (57.14-64.00%) while average inflow and outflow discharge are 2.5 l/s and 1.5 l/s, respectively. The effluent from the treatment plant needs improvement in disinfection systems to remove bacteria out of discharged effluent.

1. Introduction

Water is a valuable commodity, yet scarce in most countries and one of the challenges to engineers, hydrologists, technologists, and scientists is protecting the water resources [1]. World Health Organization (WHO) reported that 80% of illnesses and infections in the world are due to inadequate treatment of sewage, and more than 3.4 million people die annually because of pathogens living in the aquatic environment [2]. Wastewater is essentially the liquid waste conveyed after a variety of uses has fouled it. The water supplied to a given region or apartment has several chemical substances and microbial bacteria during its application such that the wastewater needs a polluting potential and becomes a health and environmental hazard. Communicable diseases of the intestinal tract such as cholera, typhoid, dysentery and water-borne diseases like infectious hepatitis are spread from uncontrolled disposal of wastewater, and therefore prevention of communicable diseases and protecting public health attracts the primary objective of sanitary wastewater disposal [2]. However, management and handling of wastewater have been one of the main challenges facing developing



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CFD Simulation on the Natural Ventilation and Building Thermal Performance

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Abstract. The types of window, either permanent or impermanent will influence the building thermal profiles. Natural ventilation is one of technique to create passive cooling design in the building. It can improve the quality of indoor air, thermal comfort and reduction of energy consumption for air conditioning. In this present work, a study on the type of natural ventilation and the effect to thermal building performance was conducted. There are two types of natural ventilation as main variable in this study, top hung window and jalousie window. To develop the study, a simulation used Computational Fluid Dynamics (CFD) also conducted. One natural ventilation as outlet also added in the simulation. Based on the data measurement and computer simulation, jalousie window can provide better thermal performance. The range of difference between indoor air temperature on the chamber with jalousie window and chamber with top hung window is 0.2°C to 0.5°C, showing greater heat loss. The average of amount on the indoor air flow also was found 0.0317 m/s higher in the chamber with jalousie window. Particularly in the inlet, it was clear that the velocity of incoming air flow is faster and significantly allowed greater air with lower temperature entered from outside to inside.

1. Introduction

Natural ventilation is ventilation technique without any mechanical devices [1]. It is one of strategies to improve building thermal performance by resulting air temperature changes that entering building [2]. It also reduces the amount energy consumption for air conditioning and improving indoor air quality [3-6]. Building with natural ventilation has 40% lower for energy consumption [7,8]. Especially for traditional residential building, natural ventilation can increase the exchange of indoor and outdoor air, provides internal air renewal and thermal comfort for the occupant [9]. Sick building syndrome (SBS) is easy to come when building does not have enough ventilation [10-13]. Therefore, strategies of natural ventilation should be integrated into building design.

The existence of external wind velocities, wind direction and vegetation around building become the external factors that influence the performance of natural ventilation [14]. Elshafei et al. [15] also said that temperature, air velocity and humidity have strong influence on the natural ventilation. While



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Integrated Biomaterials Engineering of Oil Palm Fibres and Microalgae for Bioenergy, Environmental Remediation, and Conversion into Value-Added-Products

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Abstract. The 2030's core agenda for 17 Sustainable Development Goals aims to bring systems thinking and holistic solution to ensure that progress for People and Profit do not side-line planet as the major stakeholder. Discussion on the Economics issues should bring in the Environment and Socio-cultural diversity dimension as equal components. This may necessitate a complete revamp of human activities such that efforts to tackle famine and poverty and the emerging infectious diseases are not divorced from addressing the problems brought about by climate change and the destruction of eco-systems and habitat for wildlife. The focus of this review article is to highlight research and development in integrated biomaterials engineering of oil palm fibres and microalgae for sustainable bioenergy production, environmental remediation and conversion into value added-products *via* integrated palm oil milling processes and algal biorefinery. Eco-friendly extraction of cellulose and the development of composite materials for different applications will be highlighted. The use of microalgae for bioenergy, effluent remediation and the utilization of microalgal extracts in anticancer agent formulation will be discussed. This hopefully could bring forth insights towards collaboration among the policymakers, government agencies, industries and academics to tackle the immediate and pressing problems facing the world today.

1. Introduction

The increasing world population and the disastrous outcomes of global climate change necessitate a complete revamp of human activities to mitigate any potential calamity on the planet and its inhabitants. Global warming has been caused by greenhouse gas emissions, of which nearly 80% is from carbon dioxide, mainly from the energy sector, industries, transport, and wastes [1]. The impact on the environment from forest clearing, particulate matters in the air, heavy metal or plastic pollution have become a major concern especially on human health and on wildlife, and marine and aquatic eco-system.





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HEALTH RESEARCH ETHICS COMMITTEE
FAKULTAS KESEHATAN MASYARAKAT UNIVERSITAS DIPONEGORO
FACULTY OF PUBLIC HEALTH DIPONEGORO UNIVERSITY**

**KETERANGAN LOLOS KAJI ETIK
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"ETHICAL APPROVAL"**

No : 407/EA/KEPK-FKM/2019

Protokol penelitian yang diusulkan oleh :
The research protocol proposed by

Peneliti utama : Rira Utari
Principle Investigator

Nama Institusi : Universitas Diponegoro
Name of the Institution

Anggota Peneliti : 1. Dr. Yuliani Setyaningsih, SKM, M. Kes
Member 2. Dr. dr. Ari Suwondo, MPH

Dengan judul :
Title

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Declared to be ethically appropriate in accordance to 8 (seven) WHO 2011 Standarts, 1) Social Values, 2) Scientific Values, 3) Equitable Assesment And Benefits, 4) Risks, 5) Persuasion/Exploitation, 6) Confidentiality and Privacy, and 7) Informed Consent, referring to the 2016 CIOMS Guidelines. This is as indicated by the fulfillment of the indicators of each standart.

Pernyataan Laik Etik ini berlaku selama kurun waktu tanggal 4-Sep-19 sampai dengan tanggal 4-Sep-20

This declaration of ethics applies during the period Sept, 4st 2019 until Sept, 4st 2020

Semarang, 4-Sep-19
Professor and Chairperson,

Prof. Dr. dr. Anies, M.Kes, PKK.
NIP. 195407221985011001