

## PROCEEDINGS OF

# THE 8th ENGINEERING INTERNATIONAL **CONFERENCE**

"Concept and Application of Green Technology"

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Vessel Operational Impact and Generator Operation Toward

Lutfi Adi Prabowo<sup>1</sup>, Abdi Seno<sup>2</sup>, Adi Oktavianto<sup>2</sup>, Darul Prayogo<sup>2</sup>, Dwi Prasetyo<sup>2</sup>, <sup>2</sup>Technical cadet of Politeknik Ilmu Pelayaran Semarang, Semarang, Indonesia. <sup>2</sup>Technical Lecturer of Politeknik Ilmu Pelayaran Semarang, Semarang, Indonesia.

Abstract. Electrical Power Load is everything that beared and occurred by electrical power. The purpose of this research is to analyze the operational condition of visual and generative application pregions to analyze the correlation and the impact between independent variable from the electrical power load data. The result of the research done by electrical power load data. The result of the research done by electrical power load data. The result of the research done by electrical power load for 4.2 %. XI. Quantient especialistic power load for the electrical power load for 4.2 %. The power load data is the power load of the section of the electrical power load for 4.1 %. Together, it results positive impact toward Y electrical power load for 1.3 %. Together, it results positive impact toward Y electrical power load 50% to 1.3 %. Together, it results positive impact toward Y electrical power load 50% to 1.3 %. Together, it results positive impact toward Y electrical power load 50% to 1.3 %. Together, it results positive impact to a power load 50% to 1.3 %. Together, it results positive impact to the power load 50% to 1.3 %. Together, it results positive impact to 4.4 %.

Electrical Power Load in Mv. Dk-02

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operational time of the diesel generator. The condition of Vessel Operation and Generator Operation tourd Electrical Power Load in MV. DK-02 is a subject to be studied.

## 2. Literature Review

2. Literature Review
2.1.Literature Review
2.2.Literature Review
2.2.Literature Review
2.3.Literature Review
2.3.Literature Review
2.4.Literature Review
2.4.Literature Review
2.4.Literature Review
2.5.Literature Review
2.5.Literature
2.5.L

2.2. Prumework
Framework is the relation between the variables arranged by several described theories. The framework made by the position based on the relevant theories so the problem in the research will be solved.

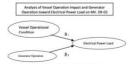


Figure 1. Framework of the Research

1. Foreward

Operational is the border and guideline to do an activity. Vessel is a moda to carry the eargos, passengers, or bulks such as could in order to industrial needs. Vessel operational is a vessel activity in several personal countries of the country of the countries of the countries of the countries of the countries of the paralleled to be manually synchronized or automatic, in order to get a bigger power, [2]. The definition of AC generate is a reachine that converse mechanic energy (funities) to be electric energy with the holy of magnetic induction. The energy transformation happened because the change of the magnetic moint in the couldance for the place where the voltage frest toward generator). [2] the contribution of the countries of the place where the voltage restored presentable (in the countries of the place where the voltage restored the countries of the co

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## $Y = \alpha + \beta 1 X 1 + \beta 2 X 2.$

 $\begin{array}{lll} Where: \\ Y & : Electrical Power Load \\ XI & : Vessel operation condition \\ X2 & : Generator operation \\ \beta1... \beta2 : Standard coefficient regression \\ \alpha & : Constant \\ \end{array}$ 

 $\label{eq:Hypothesis formula:} \begin{tabular}{ll} Hypothesis formula: \\ \bullet & Ho: \beta I = 0 \ ; there is no independent impact toward dependent variable \\ \bullet & Ha: \beta 2 = 0 \ ; there is independent variable impact toward dependant variable \\ \end{tabular}$ 

4.1. Research Result

This descriptive variable to explain variable data "Y" which is electrical power load. X1 dan X2

Variable is the ordinal data from the operational condition.

a. Mean, Median, Modus, Maximum dan Minimun



The usage of electrical power load in MV, DK-02 pined by the mean result 132.29 kW. While the median from the total electrical power load that otherly used is 140 kW. The mode of electrical power load above is 140 kW. The mode of electrical power load above is 140 kW. and the state of the load of the load



Figure 2. Frequent Diagram

3. METHODS
3.1. Research Methods
Research method is the scientific way to gain the data with certain purposes and usages. Based on the definition, there are 4 keywords that need to be considered, which are scientific, data, purpose and control of the second of the

3.2. Time and Place for the Research The research done when on MV DK-02. It is one of the Bulk Carrier vessel on PT. Karya Sumber Energi.

- 3.3. Data Needed Information gained oward certain measurement, order to be base on arranging logical argumentation to become fact. The fact is the truth tested empirically, which is from data analysis.

  1. Primary data is data gained directly from the first source through the interview result, impected and the characteristics were needed usward the research object writer, other than the subject of the research.

  2. Secondary data is the data provided by the writer, gained by the writer, other than the subject of the research.

- 3.4. Data Gained Method

  1. Observation is an inspection done by the available situation, sportaneous and scientifically, and
  the result of the impaction will be summarized and the data gained will be objective.

  2. Interview is a process to gain of the research purpose with interviewing between the researcher and
  the stakeholders, [soling with learning the archives and letters inside the engine room, especially
  about flevel granerare pursual in the section of electrical power load.

3.5. Data analysis technic.

Data analysis technic

Data analysis is a process of find and arranging the data systematically from the interview, field note, and other material, so it will be easier to be understood and the founding will be informed to other persons. [6]

persons. [6]

1. Descriptive analysis
Quantitative method is used to tell the problem is SFSS.

2. Validity Indicator Test
Validity test is used to know the properness of the question to define a variable. The test technic for validity test is used to know the properness of the question to define a variable. The test technic for validity test is used to know the properness of the question and Corrected hem-Total Correlation, [7]

5. Feat is used to test the truth of alternative hypothesis; is the model chooses by the researcher correct. (Goodness of Fir is all off the independent variables is made to the person of the person

The usage of electrical power load oftenly shown in the usage of electrical power load, which is 140 kW, Followed 120 kW, 80 kW, dan 100 kW, in usage ussualy of the load 110 kW and 180 kW with frequent 1.

4.2. Test the quality of the validity test electrical power load

Table 2. KMO and Barlett's electrical power load
Kaiser-Meyer-Olkin Measure
of Sampling Adequacy. 0,552

Gained KMO value for the indicator test used to measure the variable of electrical power load is 0.552 because the value > 0.5 for the contentment of the sample is fulfilled.

Tabel 3. Component matrix KON\_OPE\_KAPAL ,633 OPE\_GENERATOR ,680 BEBAN\_DAYA\_LIST ,582

- 4.3. Model Fit Test
- ion analysis with electrical power load



Figure 3. Scatter Graphic with Correlation Plot X1 with Y

Table 4. Correlations Variabel X1 dengan Y

		KON_OPE KAPAL	BEBAN_DAYA _LISTRIK
KON OPE KA	Pearson Correlation	1	-,205
PAL	Sig. (2-tailed)		,238
	N	54	35
	Pearson Correlation	-,205	1
LISTRIK	Sig. (2-tailed)	.238	
	N	35	35

Gained the Vessel Operational Condition (X1) with the Electrical Power Load (Y) in the scater plot to the left means "negative". The result of Pearson Sig correlation = 0.238 (23.8%)>5% meanings Ho accepted and Hi denied. There is the relation between Vessel Operational Condition (X1) and



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Electrical Power Load (Y) that makes it weak. In order to strengthen the statement, it is gained the empirict correlation value (p1) = -0.205. The value shows the correlation between X1 and Y is negative.

b) The correlation of generator operation (X2) analysis with electrical power load (Y)



## Table 5. Correlations Variabel X2 with Y

		OPE GENERATOR	BEBAN DAYA LISTRIK
OPE_GENER ATOR	Pearson Correlation Sig. (2-tailed)	1	,104 ,552
	N	54	35
BEBAN_DAY A_LISTRIK	Pearson Correlation Sig. (2-tailed)	,104 ,552	1
	N	35	35

Generator Operation (X2) with Electrical Power Load (Y) in scater plot on the right side with "positive" value. The result of Parsons Big Correlions — 0.52 (55.2%), The value of 55.2% > 5% means that Ho accepted and Hi derited. The connection between X2 and Y is wast. To strengthen that statement, gained the empirict correlation value (p2) = 0.104 the value shows the correlation between X2 and Y positive.

4.4. Regression analysis: Linear regression analysis is the relation between one independent variable (X) with dependent variable (X). The positive value or negative to predict the value from dependent value if the independent variable value experience ascension or downgrade. The data used has interval scare or ratio. The formal of viltuple linear regression is  $Y = \alpha \neq X$ .

Hypothesis 1: Electrical Power Load (Y) affected by Vessel Operational Condition (X1).



Figure 5. Hypothesis X1 toward Y

Ho:  $\beta 1=0$ ; (Non linear equality or X1 is not impactful toward Y) Hi:  $\beta 1\neq 0$ ; (Linear equality or X1 impactful toward Y)





Table 6. Coefficients X1 and Y
Standardized
Unstandardized Coefficients
Coefficients 
 B
 Sol. Error
 Beta
 t
 Sig.

 5,351
 1,720
 3,111
 ,004

 -,015
 ,013
 -,205
 -1,201
 ,238
 BEBAN\_DAYA\_ LISTRIK

Unstandardized Coefficients (B) gained value  $\alpha$  = 5,351 and  $\beta$ 1 = -0.015. The equity formed: Y = 5,351 - 0.015 X1. To text the equity above whether accept or deny the hypothesis told, there is a distribution 'F' toward output table ANOVA.

	Table 7. ANOVA X1 and Y							
	Model	Sum of Squares	Df	Mean Square	F	Sig.		
1	Regression	4,083	- 1	4,083	1,442	,238		
	Residual	93,460	33	2,832				
	Total	97.543	34					

F value = 1,442 and Sig = 0,238 (23,8%) > 5 % meanings Ho accepted and Hi denied. The equity is linear or XI have negative impact toward Y (negative sign taken from regression coefficient). To know how valuable the impact XI toward Y, you could see Determination Coefficient (R Squere) toward Model Summary.

Table 8.	Model	Summary	XI	dan Y

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	2051	.042	.013	1.683

 $Value\ R^{1-0.042}\ or\ 4.2\%\ shows\ that\ Operational\ Condition\ variable\ of\ Vessel\ (X1)\ contributes$  toward the Electrical Power Load (Y) for 4.2 %. There are 95.8% is still there electrical power load (Y) affected by other variable.

Hypothesis 2: The result of electrical power load (Y) affected by generator operation (X2) of vessel



Ho:  $\beta 2 = 0$ ; (Non-linear equity or X2 is not related toward Y) Hi:  $\beta 2 \neq 0$ ; (Non linear equity or X2 is not having impact toward Y)



Model		Unstandardized Coefficients		Standardized Coefficients	т	Sig.
		В	Std. Error	Beta		
1	(Constant)	1,739	,729		2,385	,023
	BEBAN_DAYA_LISTRI K	,003	,005	,104	,601	,552

Unstandardized Coefficients (B) obtained  $\alpha=1.739$  and  $\beta 2=0.003$ . The equity formed is: Y=1.739+0.003 X2. To test the equity, whether accept or deny the hypothesis told, the F distribution determined on output table ANOVA as follow:

		Table 10. ANO	VA X2	and Y		
Mode	el	Sum of Squares	Df	Mean Square	F	Sig.
1	Regression	.184	- 1	.184	,362	.552
	Residual	16,787	33	.509		
	Total	16,971	34			

Value F=0.362 and Sig=0.552 (55.2%). Sig value 55.2% > 5% meanings Ho accepted and Hi denied. The equity is not linear or X2 have positive impact toward Y (positive sign taken from regression coefficient). At 25 toward Y, it could be seen from Determination Coefficient (R. Squere) toward Model Sammary as follow:

Table 11. Model Summary X2 and Y						
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate		
	1049	01	016			

Value R<sup>2</sup> = 0.011 or 1,1%, show that the variable of Generator Operation (X2) contribute toward the data of Electrical Power Load (Y) for 1.1%. There are 98.9% data of electrical power load (Y) affected the other variable.

4.5. Multiple Linear Regression Analysis
Hypothesis 3: Result of Electrical Power Expense data (Y is affected vessel operational condition (X1),
and generator operation (X2)

 $Y = a + \beta 1X1 + \beta 2X2$ 



Figure 7. Hypothesis X1 and X2 to Y

Ho:  $\beta=0$ ; (Equation is not linear or X1, X2, is not affecting Y) Hi:  $\beta\neq0$ ; (Equation linear or X1, X2, affecting Y)





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Table 12. Coefficients X1, X2 and Y

	Model	Unstandardized Coefficients		Standardized Coefficients	т	Sig.	
	Model	В	Std. Error	Beta		J.B.	
_	(Constant)	136,989	16,831		8,139	,000	
1	KON_OPE_VES SEL	-2,529	2,383	-,190	-1,061	,296	
	OPE_GENERAT OR	1,694	5,712	,053	,297	,769	

Unstandardized Coefficients (B) is obtained value  $\alpha=136.989$  and  $\beta 1=-2.529$ ;  $\beta 2=1,694$ . Equation that is formed is: Y=136.989-2.529X1+1,694X2. For examining the equation whether accepting or rejecting hypothesis which is mentioned calculation 'F' distriction is conducted on output ble ANOVA.

		Table 13. ANOV	AXI, X	2, and Y		
	Model	Sum of Squares	Df	Mean Square	F	Sig.
1	Regression	765,947	2	382,973	,745	,483h
	Residual	16451,196	32	514,100		
	Total	17317 143	2.4			

Value F = 0.745 and Sig = 0.483 (48,3%). Value Sig 48,3% > 5%, which means Ho is accepted and Hi is rejected. That equation is not linear or XI, XZ, is not affecting Y. For figuring out how much XI, XZ contribute on Y we can see Determination Coefficient (R Square) on Summary Model.

Table 14. Model Summary X1, X2, dan Y						
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate		
1	,211°	,044	-,015	22,674		

Value  $R^2 = 0.044$  or 4.4%. That value showing us that variable of Vessel operational condition (X1), Generator operation (X2) contributes simultaneously on Electrical power expense result (Y) of 4.4 %. With that result there is still 95.6% of Electrical power expense data (Y) which is affected by another variable.

46. Summary
XI variable is an ordinal data which is not valuable and description from each condition of a operational
XI variable is an ordinal data which is not valuable and description from each condition or a operation.
XI variable is an ordinal data which is not valuable and operation condition or sease when is a berthing condition for cargo operation, manusevering, when see passage (sailing), anchoring for cargo loading. XI variable is an data from each generator operation which is a single operation (mr. 1), parallel (run 1), and parallel (run 1). Electrical power copens for finding averae value that almost has the same result and often noted on express which is used from all vessel operation condition in every operating electrical generator. The use of described power expense obtain an average (mans) whate 180 kW and minimum value 80 kW expense usage operators. Usage frequency of electrical power expense with using often appear 140 kW, 160 kW, 120 kW, 80 kW and 100 kW expense is usually found for 110 kW and 180 kW with frequency 1 for each expense.

4.6.1. Correlation between variable

Correlation coefficient value person sig X1 of 0.238 vessel operational condition affect toward
electrical power expense of 23.8 %. Thus is can be concluded that vessel operational condition toward
electrical power expense is wask (affected).

Correlation confection value persons ig X2 of 0.552 generator operation affect toward electrical
power expense of \$5.2%. Thus it can be concluded that operation of generator affect the electrical
power expense, which is not weak.

power expense, which is not weak.

4.6.2. Regression between variable Regression equation value in Y = 5.251 = 0.015 X1. Then X1, R. Square value is 0.042, condition of Regression equation value in Y = 5.251 = 0.015 X1. Then X1, R. Square value is 0.042, condition of the Regression equation value is Y = 1.739 = 0.033 X2. Then X2. Regression equation value is Y = 1.739 = 0.003 X2. Then X2. Regression equation value is Y = 1.739 = 0.003 X2. Then X2. Regression equation value is Y = 1.739 = 0.003 X2. Then X2. Regression equation value is Y = 1.739 = 0.003 X2. Then X2. Regression equation value is Y = 1.739 = 0.003 X2. Then X2. Regression is 0.011, generate operation (X2) affect variable related to electrical power expense (Y) up to 1,1 % while the rest 98,9 % affect of particular value of the V = 1.739 = 0.003 X2. Then X2. Regression value of condition and generate operation toward electrical power expense (X) up to 4.5 %, with the rest 95.6.% The use of electrical power expense may affected by independent variable.

From the calculation related in 95.6%. The use of electrical power expense. Another independent variable, for instance electrical flow, generate expense, inductive expense. Another untaible. Electrical motor which has been used for a long time and cause the expense to capture to the caused also by loss volt that flowing from electrical generate to the active electrical endote. On he cascoding to name after on expense in the own entries glocalized motor. On he caused also by loss volt that flowing from electrical generate to the active electrical equipment.

### 5. Conclusion

- 5.1. Conclusion
  Based on analysis result and summary can be taken conclusion as follows:

  1. XI (vessel operational condition) affects (negative) toward Y (electrical power expense) regression equation Y = 5,351 0.013 XI. Value of R. spame is 4,2 %

  2. XI (generate operations) affect (positive) toward Y (electrical power expense) regression equation Y = 1,739 + 0.003 XI. Value of R. spame is 1,1 %

  3. XI (essel operational conditions) and proper operation plant (especially of the conditions) and (electrical power expense) affect (positive) toward Y (electrical power expense) affect (positive) toward Y (electrical power expense). And the rest 95,6% affect another variable which related to the usase of electrical power expense.

- Affilia use testing the conducted analysis, thus the suggestion from the experiment done as follows:

  Based on the result of the conducted analysis, thus the suggestion from the experiment done as follows:

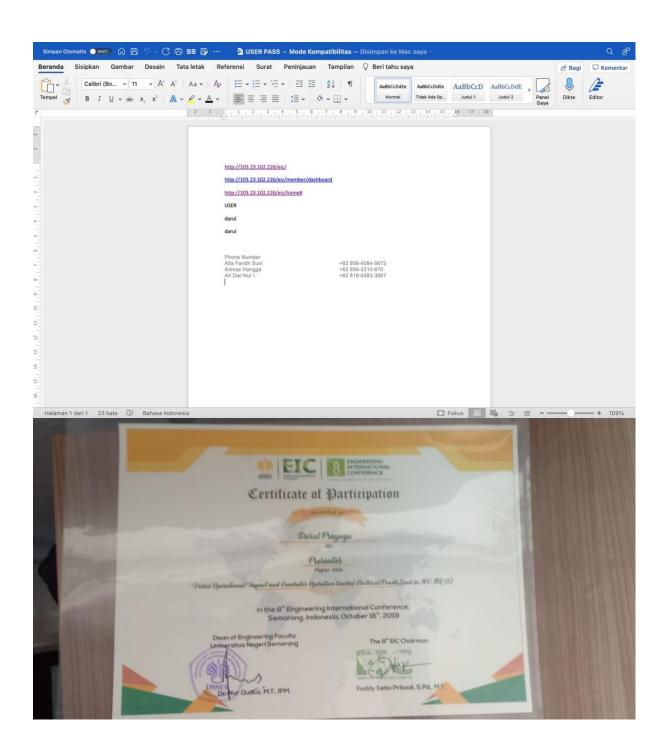
  If the condition of operational vessel then sailing only need less power by using only one generator to save the field and also runninghour from the generator disect engine.

  When on cargo operation the vessel need extra power being 2 or 3 generators are needed, and in watchkeeping time the communication between engine room and bridge watchkeeper should be maintained. So that the engine room watchkeeper can rest the field generator when engine to the control of the cont





- References
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  [8] Santoso, Singgih, 2017, Mengusasi Sustirik Dengon SPSS 24, Jakatus PT Elex Media Komputindo



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Dear colleagues,

We cordially invite you to join in the 8th Engineering International Conference (EIC) conducted by Faculty of Engineering UNNES which will be held on October 16th, 2019. Outstanding selected articles will be published in Scopus - indexed journal. Please visit <a href="http://eic.ft.unnes.ac.id">http://eic.ft.unnes.ac.id</a> for the conference details.



Looking forward to seeing you in our conference. Thank you.

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# **PAYMENT RECEIPT**

Date : 16 Oktober 2019 Number : 041/02/EIC/X/2019

Name : Darul Prayogo

Institution : Politeknik Ilmu Pelayaran Semarang

Category : [ X ] Author/ Presenter

[ ] Co - author

[ ] Mini-symposium

[ ] Participant

Amount : IDR 1.500.000

Semarang, 16 Oktober 2019

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