

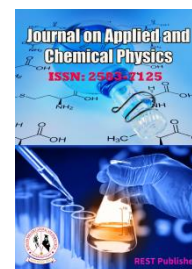


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Alternative Energy Exploitation of Agricultural Biomass Using SPSS Statistics

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Abstract: *Alternative Energy Exploitation, Introduction: Renewable energy is created from resources which can be recovered in a reasonable length of time. Sunlight, wind, water, bio fuels, and geothermal energy are all examples of renewable energy sources. Renewable is a subset of sources that, while connected to renewable energy, has the best impact on the planet. Nuclear energy and renewable energy sources are two instances of renewable sources of energy with low carbon emissions. Electricity and heat have been generated from sources of clean energy for the majority of human history. Certain semi-empirical source models and different parametric source models are used to model individual noise components. Renewable fuel comes from sources other than fossil fuels, and as a result, it emits little or no greenhouse emissions like dioxide (CO₂). As a result, energy generated from non-traditional sources doesn't really help produce the greenhouse effect which is responsible for climate change. SPSS statistics is a data management, advanced analytics, multivariate analytics, business intelligence, and criminal investigation developed by IBM for a statistical software package. A long time, spa inc. was created by, IBM purchased it in 2009. The brand name for the most recent versions is IBM SPSS statistics. Energy Demand Module, Resupply module, Scenarios module, Multicriteria analysis module, Conflict analysis module The result of Cronbach's Alpha Reliability. The model's total Cronbach's Alpha value is .486 and suggests a 48% dependability level. The 52% Cronbach's Alpha are shown can be used for analysis based on the literature review. the outcome of Cronbach's Alpha Reliability. The model's total Cronbach's Alpha score is .486, which denotes a 48% dependability level. The 52% Cronbach's Alpha value model mentioned above from the literature review may be used for analysis.*

Keywords: *SPSS Statistics, Resupply module, Scenarios module, Multicriteria analysis module, Conflict analysis module*

1. INTRODUCTION

In this work, the wave resource is characterized using a thorough process, and the wedge based on inter wave energy diagram is constructed and used to the Grim Coast, N Spain. A greater dataset of both the intra-annual wave power resource is thus made available, enabling the creation of monthly characterization matrices at any site within this coastline and, consequently, the calculation of the monthly electricity performance of the any Cede everywhere at location of interest. Environmental issues brought on by the mining and usage of fossil fuels has centered on the creation of novel sources of renewable energy throughout the past century. Marine wave energy, among others, has developed into a full-fledged substitute due to its dependability and energy density. The world has been giving renewable energy more and more importance as a result of the pressures of reducing greenhouse gas emissions and protecting the environment. The most potential for renewable energy is found in geothermal energy, which also has the advantage of being dependably stable regardless of the time of day or weather outside. This paper presents findings from a study on how these changes may affect internal communication procedures within the Northern Ireland NHS. Despite the fact that more organizations increasingly focus on the level of interaction with external audiences, few give their official communications systems the same priority. It is suggested that organizations gain substantial advantages from assessing this frequently disregarded component of the process of communication. A procedure is described for carrying out such Operations research has employed mathematical modeling and advanced statistical analysis to improve decision-making

and address a variety of commercial and organisational issues. Decisions that were previously reliant on managers' intuition are now based on analysis since the corporate environment is becoming more complex. This paper's major goal is to outline a methodology for predicting the near-shore wave energy supply and over medium to long period while evaluating the accompanying uncertainty. The methodology makes use of wave climate models to evaluate the key factors and metrics used in deciding where to locate, operate, and maintain certain near shore Converters and/or wave farms. This research specifically focuses on those elements linked to wave climate. The methodology is introduced and defined through implementation to a research study on the Sea coast of southern Spain. The methodology is based on a 5-step process to estimate the wave power supply in during product lifecycle in probabilistic terms. It has been established scientifically that the growth of cultivated or naturally occurring plants and vegetation will consume and eventually absorb all of the carbon dioxide that is unavoidably produced during the production and use of sources of clean energy. We must determine the variables that have an impact on overall performance Because of this, our approach is to individually research solar and thermoelectric systems with the intention of fixing This is particularly true for the Eastern Mediterranean or the Middle East regions, where many large cities and small towns struggle with a shortage of good fresh water sources while still enjoying an abundance of saltwater resources. The current trend in seawater desalination focuses mostly on large, centralized any dual desalination plants since they are more cost-effective and ideal for locations with high population densities, obliviously ignoring small, impoverished communities in the process. Yet, many low-density population regions lack not only access to clean water but frequently to the electrical power system as well. Desalination using renewable energy is the sole option for these areas. This study's goal is to assess Turkey's agricultural biomass potentiality of types, amounts, and regional distribution. Simulation studies of a BHE design with heat-conductive fillers to improve the exchange of heat the with surrounding formation while completely avoiding fluid engagement with the latter are used to support the arguments. Modern technology is focused on developing photovoltaic devices with high performance/cost ratios. In the current research. Finally, a wedge application to a potential wave farm site is described. The outcomes demonstrate the value The chosen articles were also categorized based on the authorship, year of their publication, the names of the journals and conferences, the approach and method employed, the research goals, the previous research and problem, the solution with modeling, and finally the outcomes and conclusions. The outcomes of this research can

2. MATERIALS & METHODS

Evaluation parameters: Energy Demand Module, Resupply module, Scenarios module, Multicriteria analysis module, Conflict analysis module

Energy Demand Module: As an alternate to aerobic treatment, anaerobic biological techniques are typically used to treat high strength industrial effluent at Mesolithic temperatures. Its usage is made possible by the reduced energy demand caused by the decreased cost of biomass production and disposal.

Resupply module: To deploy the infrastructure required to support the crew through their voyage, a continuous colony on Mars would require numerous launches. Habitats, propulsion units, landing craft, ascension vehicles, etc. will be necessary. There are essentially countless ways to organise the operation design. We employ component masses and a relatively comparable architecture for the sake of this investigation. To demonstrate a reliable system of cargo delivery and restocking, it is not necessary to know the specifics and viability of the infrastructure components.

Scenarios module: The majority of the current channel models, though, are for standard situations. Typically, railway is described as a modest example of a "moving hotspot" in common papers, such as [6]. The question of how to incorporate railway channel elements into channel models is still unanswered. In this study, six scenario modules are developed and built for millimetre wave and THz train-to-infrastructure channels by abstracting the incidence of common rail traffic scenarios. Every major component, including tracks, station, crossing bridge, tunnels, cuts, barriers, pylons, buildings, greenery, road signs, posters, trains, etc., is designed using the normal materials and geometries seen in reality.

Multicriteria analysis module: To tackle total noise exposure prediction somewhere at conceptual aircraft design stage^{30, 31}. Under simultaneous analysis of pertinent multidisciplinary effects, the tool forecasts aircraft noise produced during unconstrained approach and takeoff flight operations. The design of an aeroplane, the location of the observer in relation to it, configuration settings, and flight path conditions all affect how much noise it produces. Furthermore, to translate static noise output into floor noise impact as a result of aircraft flight operations, wave propagation effects during moving situations have been employed. Certain semi-empirical source models and statistical and quantitative source models are used to model individual noise components.

Conflict analysis module: The lecturer in one of these films gave a history of Charles Darwin's natural selection theory. The instructor also went through speciation and natural selection mechanisms. The movies also addressed the myths that development is progressive or driven by human needs, that evolution happens in populations rather than individuals, and that evolution is random. Certain semi-empirical source models and different parametric source models are used to model individual noise components.

Methods: The most current versions are marketed under the name IBM SPSS statistics. It is usual practise to utilise a "ibm spss statistics sciences" (SPSS), a collection of software tools for modifying, analysing, and displaying data. SPSS supports a number of formats. To expand this software's clerical work, statistical, etc reporting capabilities, many add-on modules can be purchased. The main application is known as SPSS base. The most crucial of them for statistical analysis, in our opinion, are the SPSS advance models and the add-on modules for the SPSS regression model. Moreover, spss inc. offers standalone applications that integrate with SPSS. Versions of SPSS for Microsoft (98, 2000, 2000, nt, and XP) are also available. Windows 2000 is compatible with SPSS version 11.0.1.

3. RESULT AND DISCUSSION

TABLE 1. Reliability Statistics

Reliability Statistics		
Cronbach's Alpha ^a	Cronbach's Alpha Based on Standardized Items ^a	N of Items
.486	.523	5

Table 1 shows Cronbach's Alpha Reliability result. The overall Cronbach's Alpha value for the model is .486 which indicates 48% reliability. From the literature review, the above 52% Cronbach's Alpha value model can be considered for analysis.

TABLE 2. Reliability Statistic individual

	Cronbach's Alpha if Item Deleted
Energy Demand Module	0.225
Resupply module	0.730
Scenarios module	0.578
Multicriteria analysis module	0.012
Conflict analysis module	0.442

Table 2 Shows the Reliability Statistic individual parameter Cronbach's Alpha Reliability results in Energy Demand Module 0.225, Resupply module 0.730, Scenarios module 0.578, and Multicriteria analysis module 0.012, Conflict analysis module 0.442

TABLE 3. Descriptive Statistics

Descriptive Statistics													
	N	Range	Minimum	Maximum	Sum	Mean		Std. Deviation	Variance	Skewness		Kurtosis	
	Statistic	Statistic	Statistic	Statistic	Statistic	Statistic	Std. Error	Statistic	Statistic	Statistic	Std. Error	Statistic	Std. Error
Energy Demand Module	21	4	1	5	63	3	0.293	1.342	1.8	0.275	0.501	1.257	0.972
Resupply module	21	4	1	5	57	2.71	0.302	1.384	1.914	0.319	0.501	1.028	0.972
Scenarios module	21	4	1	5	62	2.95	0.305	1.396	1.948	0.029	0.501	0.906	0.972
Multicriteria analysis module	21	4	1	5	64	3.05	0.271	1.244	1.548	0.074	0.501	0.968	0.972
Conflict analysis module	21	4	1	5	68	3.24	0.238	1.091	1.19	0.012	0.501	0.406	0.972
Valid N (listwise)	21												

Table 3 shows the descriptive statistics values for analysis N, range, minimum, maximum, mean, standard deviation, Variance, Skewness, and Kurtosis. Energy Demand Module, Resupply module, Scenarios module, Multicriteria analysis module, Conflict analysis module this also using.

TABLE 4. Frequency Statistics

Statistics						
		Energy Demand Module	Resupply module	Scenarios module	Multicriteria analysis module	Conflict analysis module
N	Valid	21	21	21	21	21
	Missing	0	0	0	0	0
Mean		3	2.71	2.95	3.05	3.24
Std. Error of Mean		0.293	0.302	0.305	0.271	0.238
Median		3	3	3	3	3
Mode		2	1 ^a	3	2	3
Std. Deviation		1.342	1.384	1.396	1.244	1.091
Variance		1.8	1.914	1.948	1.548	1.19
Skewness		0.275	0.319	-0.029	0.074	-0.012
Std. Error of Skewness		0.501	0.501	0.501	0.501	0.501
Kurtosis		-1.257	-1.028	-0.906	-0.968	-0.406
Std. Error of Kurtosis		0.972	0.972	0.972	0.972	0.972
Range		4	4	4	4	4
Minimum		1	1	1	1	1
Maximum		5	5	5	5	5
Sum		63	57	62	64	68

Table 4 shows the Frequency Statistics in Solar photovoltaic technology is Energy Demand Module, Resupply module, and Scenarios module, Multicriteria analysis module, Conflict analysis module curve values are given. Valid 21, Missing value 0, Median value 3, Mode value 2.

Histogram Plot:

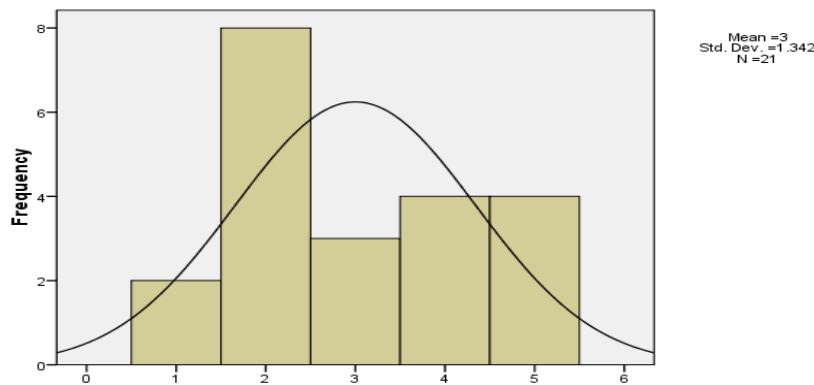


FIGURE 1. Energy Demand Module

Figure 1 shows the histogram plot for Energy Demand Module from the figure it is clearly seen that the data are slightly Left skewed due to more respondents choosing 2 for Energy Demand Module except for the 2 values all other values are under the normal curve shows model is significantly following a normal distribution.

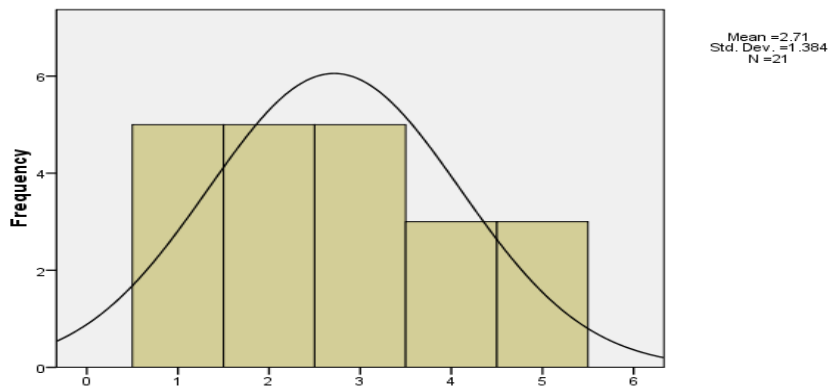


FIGURE 2. Resupply module

Figure 2 shows the histogram plot for Resupply module from the figure it is clearly seen that the data are slightly Left skewed due to more respondents choosing 1,2,3 for Resupply module except for the 1,2,3 values all other values are under the normal curve shows model is significantly following a normal distribution.

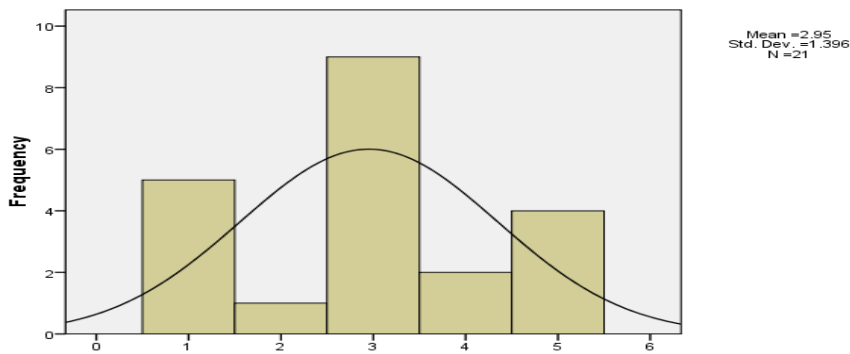


FIGURE 3. Scenarios module

Figure 3 shows the histogram plot for Scenarios module from the figure it is clearly seen that the data are slightly Left skewed due to more respondents choosing 3 for Scenarios module except for the 3 values all other values are under the normal curve shows model is significantly following a normal distribution.

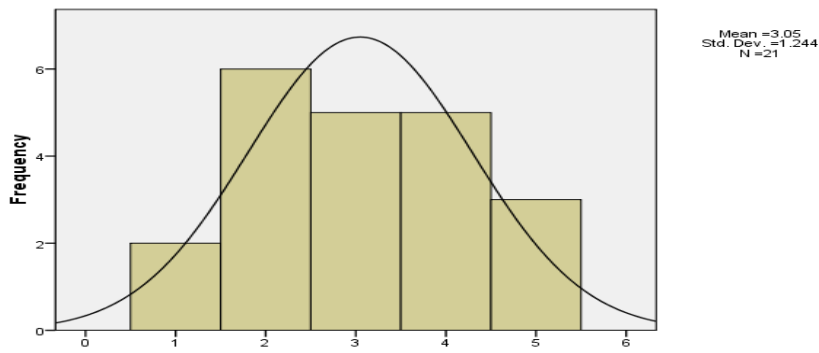


FIGURE 4. Multicriteria analysis module

Figure 4 shows the histogram plot for Multicriteria analysis module from the figure it is clearly seen that the data are slightly Left skewed due to more respondents choosing 2 for Multicriteria analysis module except for the 2 values all other values are under the normal curve shows model is significantly following a normal distribution.

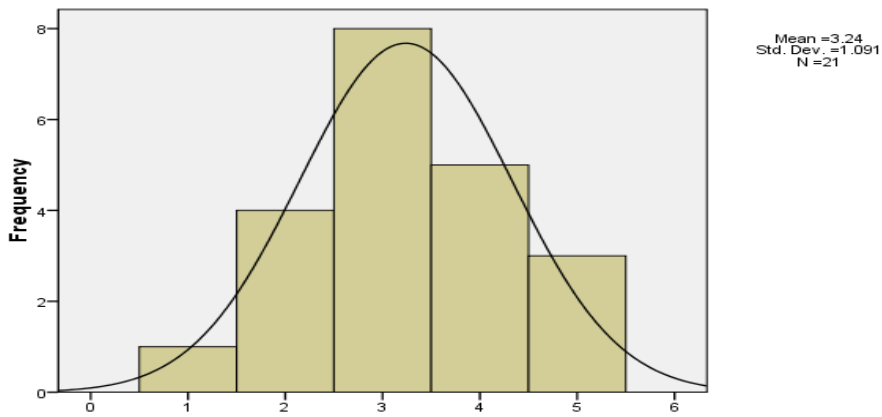


FIGURE 5. Conflict analysis module

Figure 5 shows the histogram plot for Conflict analysis module from the figure it is clearly seen that the data are slightly Left skewed due to more respondents choosing 3 for Conflict analysis module except for the 3 values all other values are under the normal curve shows model is significantly following a normal distribution.

TABLE 5. Correlations

Correlations					
	Energy Demand Module	Resupply module	Scenarios module	Multicriteria analysis module	Conflict analysis module
Energy Demand Module	1	0.162	0.107	0.33	0.239
Resupply module	0.162	1	0.148	0.095	0.118
Scenarios module	0.107	0.148	1	0.171	0.008
Multicriteria analysis module	0.33	0.095	0.171	1	0.34
Conflict analysis module	0.239	0.118	0.008	0.34	1

Table 5 shows the correlation between motivation parameters for Energy Demand Module for Conflict analysis module is having the highest correlation with Multicriteria analysis module is having lowest correlation. Next, the correlation between motivation parameters for Resupply module for Energy Demand Module is having the highest correlation with Multicriteria analysis module having the lowest correlation. Next, the correlation between motivation parameters for Scenarios module for Resupply module is having the highest correlation with Conflict analysis module having the lowest correlation. Next, the correlation between motivation parameters for Multicriteria analysis module for Scenarios module is having the highest correlation with Energy Demand Module having the lowest correlation. Next, the correlation between motivation parameters for Conflict analysis module for Energy Demand Module is having the highest correlation with Scenarios module having the lowest correlation.

4. CONCLUSION

This paper presents findings from a study on how these changes may affect internal communication procedures within the Northern Ireland NHS. Despite the fact that more organizations increasingly focus on the level of interaction with external audiences, few give their official communications systems the same priority. It is suggested that organizations gain substantial advantages from assessing this frequently disregarded component of the process of communication. A procedure is described for carrying out such Operations research has employed mathematical modeling and advanced statistical analysis to improve decision-making and address a variety of commercial and organisational issues. Decisions that were previously reliant on managers' intuition are now based on analysis since the corporate environment is

becoming more complex. This paper's major goal is to outline a methodology for predicting the near-shore wave energy supply and over medium to long period while evaluating the accompanying uncertainty. The methodology makes use of wave climate models to evaluate the key factors and metrics used in deciding where to locate, operate, and maintain certain near shore Converters and/or wave farms. This research specifically focuses on those elements linked to wave climate. The methodology is introduced and defined through implementation to a research study on the Sea coast of southern Spain. The result of Cronbach's Alpha Reliability. The model's total Cronbach's Alpha value is.486 and suggests a 48% dependability level. The 52% Cronbach's Alpha are shown can be used for analysis based on the literature review.

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