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Examination of The Causes of Realignment of Electricity Wayleaves in South-East Nigeria

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ABSTRACT: The research is a study of causes of realignment of electricity wayleaves in the south eastern part of Nigeria. The aim of the study is to examine the causes of realignment of electricity wayleaves in South-East, Nigeria with a view to enhance revocation and compensation process. The study identifies causes of realignment of electricity wayleaves in the south eastern part of Nigeria. The study covered Abia, Anambra, Ebonyi, Enugu and Imo state. The total population of this study is 4304 comprises of 465 Estate Surveyors and Valuers, 422 Revoking Authority staff comprises of ESV consultants of TCN for the revocation and compensation exercise and ESV employees of TCN, and 3,417 Affected Rights Holders. A sample of 1031 was drawn from the five states and questionnaires were administered for the collection of data. The analytical tools used are tables, frequencies and percentages. The statistical model adopted for the study is the mean ranking, Relative Importance Index, and Pearson product moment correlation coefficient. The result of the study showed that engineering factor is the major cause of realignment of power line. It also revealed that Short notice given to ARHs on realignment route, Reason of realignment not explained to ARHs and Delay payment of compensation that ranked first with (RII = 4.63) is the major challenges faced by the ARHs. and the exercise was perceived to cause disunity and disaffection among community. The study revealed also that there is no difference between causes of realignment before and after assessment. The research recommended formation of committee for serious monitoring of the exercise and as such the exercise will foment unity rather than disunity and disaffection among committee.

KEYWORDS: electricity wayleaves, realignment, power line, causes, revoking authority, affected rights holders and estate surveyors and valuers.

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INTRODUCTION

Electricity is one of the fundamental facilities that support the functionality of countries, cities, and other areas. Electricity is produced in power stations and transmitted to power substations and then distributed to consumers. The voltage varies from high to low; the high voltage is been produce in power stations then transmitted to substations and distribute to consumers in lower voltage. It flows through power lines and other transmission infrastructure to schools, houses, hospitals, factories, offices and other buildings. Tall structures need to be constructed to carry transmission lines and high voltage distribution lines across land, roads and rivers. As such there is no doubt that the electricity rely heavily on wayleaves. Perhaps, for this to be achieved it requires people's rights in land along the required corridor to be revoked.

Revocations of rights in land are the most taxing thing the holders of those rights face, and the government is not left out in this tax. Though, land often means different things to different people, and as such is not easy to relinquish. According to Obineme, Udobi, and Ifediora (2021), few people look at land as an area of the ground or a structure that is not covered by water while other people look at it as the area for producing grains and food to feed themselves, their families, friends, others and their livestock. Also, some people derive their dignity from land, which is the reason people respect land more. This is what brings about different reactions to revocations of rights in land made by the government, whether it is for the installation and operation of electricity equipment or not.

Realignment of electricity wayleaves can happen before, during or after assessment which causes the Revoking Authority (RA), Affected Rights Holders (ARHs), and Estate Surveyors and Valuers (ESV) in the revocation and compensation exercise a great loss. Perhaps, the revoking authority lost money and time spent so far in the exercise once decided to realign the electricity wayleaves and the private ESV losses the same as the RA; in the area of money spend to prepare powers of attorney, perfection of the powers of attorney donated to the private ESV and transportation money to and fro to the site. Moreso, the initially affected rights holders with regard to the initial route as well loss money and time in the sense that once the revocation notice is served, it is expected that every ongoing development should stop, to avoid increasing the cost of revocation. The crops and economic trees damaged to create center lines area and bearing points are not left out in addition, the mark made on the structure to show that the project is affected and the desecration of sacred sites and as such lead to disunity and disaffection among community.

It is based on the foregoing discussed issues such as; RA, ESV, ARHs loss of money so far spent before realignment of the route, disunity and disaffection experienced among the community that, this study is aimed at examining the causes of realignment of electricity wayleaves in South-East, Nigeria, with a view to enhance realignment of electricity wayleaves exercise.

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This would be achieved by identifying the causes of realignment and challenges faced by the ARHs with the exercise in the study area, while testing the following hypothesis:

 H_{o1} : There is no significant difference between the causes of realignment before and after assessment of electricity wayleaves, in the South-East of Nigeria.

REVIEW OF THE EMPIRICAL STUDIES

Route Realignment

Realignment of electricity wayleaves can occur before, during or after assessment which causes the revoking authority (RA), Estate Surveyors and Valuers (ESV), and affected rights holders (ESV) in the revocation and compensation exercise a great loss. Perhaps, the revoking authority lost money and time spent so far in the exercise once decided to realign the electricity wayleaves and the private Valuers losses the same as the revoking authority; in the area of money spend to prepare powers of attorney, perfection of the powers of attorney donated to the private Valuers and transportation money to and fro to the site. Moreso, the initially affected rights holders as well loss money and time in the sense that once the revocation notice is served, is expected that every ongoing development should stop, to avoid increasing the cost of revocation. The crops and economic trees damaged to create center lines area and bearing points are not left out in addition, the mark made on the structure to show that the project is affected and the desecration of sacred sites.

Figure 2.3 shows the researchers illustration of 132 KVA electricity wayleaves initial route and realignment with 30 meters width and as such any property that fall within this width in the both side are affected.



Fig. 2.3:Electricity Wayleaves Initial Route (in black line) and Realignment (in dotted red line)

Source: Extracted from Alpha Odumodu and Company Assessment Note, 2020

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The black line represents the initial route while the dotted red line represents the realignment route and both black and dotted red lines are the centre points (lines) where the measurement of 15 meters are taken from, whether it is for the right side or the left side. However, Various authors (Kalu, 2001; German, Schoneveld, and Mwangi, 2011; Ghatak, and Mookherjee, 2011; Ogunba, 2013; Anuar, and Mohd, 2015; Odudu, 2017; Adekunle, Muhammad, Oluwole, Bello, and Idris, 2019; Obineme, et al, 2021 and others) had written on issues pertaining to acquisition (revocation) and compensation practice from different perspectives, but failed to consider the causes of electricity wayleaves realignment.

The Cause of Realignment

Powerline, (2017) stated that realignment of the electricity wayleaves can be shifted from unproductive riparian valleys to productive parts of an individual's land through revocation process but the researchers failed to state the causes of realignment and the reaction of the affected rights holders when such shift occurs been aware of the previous route. Perhaps, there is no explicit provision that subjects the Governor's expropriation or Revoking Authority decision to a review by an independent committee or judiciary. The Land Use Act does not require the government to determine, prior to revocation of land rights, whether the proposed project is (a) necessary to serve a public purpose; (b) reasonably likely to achieve the intended public benefit, and (c) whether the proposed benefits to be deriving from the revocation would be proportionate to the costs borne by affected populations. However, to minimize the realignment of the power line, the characteristics of electricity wayleaves and factors that can lead to realignment have to be considered.

General Characteristics of the Electricity Wayleaves to Consider

West African Power Pool (2018) stated that the general characteristics of the electricity wayleaves to be considered are:

- a. Short, to minimize cost and the impact on the environment.
- b. Rectilinear, to minimize the angles and the footprint.
- c. Accessible, near roads and to facilitate maintenance.
- d. Surrounding towns and villages, to facilitate electrification.

e. Bypassing towns and villages, to minimize the demolition of the built environment

and relocation of populations.

The factors to avoid are:

- a. Exclusion zones of airports and airfields.
- b. Soils with low load-bearing capacity, thus, far from wetlands and floodplains.
- c. Hills and ridges.
- d. Protected areas, forest reserves, classified forests, Ramsar sites and other sites, which aim to protect natural areas and species.

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RESEARCH METHODOLOGY

This includes the use of questionnaire, interview and document analysis. Descriptive analysis was used to summarise the data collected. Tables and simple percentages including Frequency Distribution, Mean Ranking and Pearson Product Moment Correlation Coefficient were used. The population of the study was 4,304 consisting of revoking authority (RA), affected rights holders (ARHs), and Estate Surveyors and Valuers (ESV). Since the study population has different characteristics, they were stratified and sampled for study as shown in Table I below.

S/No.	Stratum	Population	Sample size
1	Stratum 1	422 (TCN Staff inclusive)	248
	Revoking Authority		
2	Stratum 2 Affected rights holders	3,417 (Anambra, Enugu and Imo affected rights holders inclusive)	511
3	Stratum 3 Estate Surveyors and Valuers	465 (Estate Surveyors and Valuers)	272
	Total	4,304	1031

Table1: Population and Sample Size

Data Presentation and Analysis

Table 2 display the frequency of respondents' response on the causes of realignment of electricity wayleaves in South-East Nigeria.

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Table 2: Response to Causes of Realignment of Electricity Wayleaves from both
Revoking Authority (RA) in red and Estate Surveyors and Valuers (ESV) in black

F	Cause/Response	S. Agr	eed	Agree	d	Undee	cided	Disag	greed	S. Dis	agreed
1	Eng. Factor to reduce cost (hill, valley, river)	152	159	0	40	0	0	0	0	0	0
2	Politics	104	136	8	10	8	10	32	43	0	0
3	Conc. of ppty unhealthy to the proj.	34	44	110	144	8	11	0	0	0	0
4	Palace	76	100	51	66	8	11	17	22	0	0
5	Factory	25	33	17	22	42	55	59	78	9	11
6	Historical property	16	21	72	94	48	63	16	21	0	0
7	Religious property	53	70	38	50	23	30	30	40	8	9
8	River crossing	53	70	30	40	15	20	47	60	7	9
9	Angle points	16	20	40	52	40	52	48	63	8	12
10	Built environment	48	63	40	53	32	42	24	31	8	10
11	Exclusion zone of airport and airfield	72	94	56	74	24	31	0	0	0	0
12	Soil with low load bearing capacity, thus far from wetland and valley plane	46	60	61	79	15	20	23	30	7	10
13	Ridges	16	22	26	33	50	66	51	66	9	12
14	Protected areas, forest reserves, classified forests, Ramsar sites and other sites, which aim to protect natural areas and species	104	136	16	20	8	10	8	11	16	22
	Total	815	1028	565	777	321	421	355	465	72	95

Table 2 displays the response to causes of Realignment of Electricity Wayleaves for both Revoking Authority (RA) and Estate Surveyors and Valuers (ESV). The frequency of response for the RA and ESV are in the left side in the column, first is for RA followed by ESV. The row total for the respondents is given in the last column named total and the column total for the choice is given in the last row named total. From the table it could be observed that the option "S. Agreed" dominated the opinion by both RA and ESV. The cause opined by the respondents to be responsible for realignment of electricity way leaves has been confirmed by their reactions by inference from outcome of this presentation.

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Table 3 displays the variables ranks from Revoking Authority (RA) responses on causes of realignment of electricity wayleaves. This is done with the application of Relative Importance Index (RII)

Cause/Response	S. Agreed	Agreed	Undecided	Disagreed	S.	RII	Rank
					Disagreed		
	W=5	W=4	W=3	W=2	W=1		
Eng. Factor to	152	0	0	0	0		
reduce cost (hill,	WF=760	WF=0	WF=0	WF=0	WF=0	5	1 st
valley, river)							
Politics	104	8	8	32	0		
	WF=520	WF=32	WF=24	WF=64	WF=0	4.21	4 th
Conc. of ppty	34	110	8	0	0		
unhealthy to the	WF=170	WF=440	WF=24	WF=0	WF=0	4.17	5 th
proj.							
Palace	76	51	8	17	0		
	WF=380	WF=204	WF=24	WF=34	WF=0	4.22	3 rd
Factory	25	17	42	59	9		
-	WF=125	WF=68	WF=126	WF=118	WF=9	2.93	12 th
Historical property	16	72	48	16	0		
	WF=80	WF=288	WF=144	WF=32	WF=0	3.58	9 th
Religious property	53	38	23	30	8		
	WF=265	WF=152	WF=69	WF=60	WF=8	3.64	7 th
River crossing	53	30	15	47	7		
-	WF=265	WF=120	WF=45	WF=94	WF=7	3.49	10 th
Angle points	16	40	40	48	8		
	WF=80	WF=160	WF=120	WF=96	WF=8	3.05	11 th
Built environment	48	40	32	24	8		
	WF=240	WF=160	WF=96	WF=48	WF=8	3.63	8 th
Exclusion zone of	72	56	24	0	0		
airport and airfield	WF=360	WF=224	WF=72	WF=0	WF=0	4.32	2 nd
Soil with low load	46	61	15	23	7		
bearing capacity,	WF=230	WF=244	WF=45	WF=46	WF=7	3.76	6 th
thus far from							
wetland and valley							
plane							
Ridges	16	26	50	51	9		
-	WF=80	WF=104	WF=150	WF=102	WF=9	2.93	12 th

 Table 3:
 Response to Causes of Realignment of Electricity Wayleaves from RA

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Protected areas, forest reserves, classified forests, Ramsar sites and other sites, which aim to protect natural areas and	104 WF=520	16 WF=64	8 WF=24	8 WF=16	16 WF=16	4.21	4 th
species Total	815	565	321	355	72		

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Key: WF = Weighted frequency.

Table 3 showed that Engineering Factor to reduce cost (hill, valley, river) ranked first (RII = 5.00). This was followed by Exclusion zone of airport and airfield (RII = 4.32). And followed by Palace (RII = 4.22), followed by Protected areas, forest reserves, classified forests, Ramsar sites and other sites, which aim to protect natural areas and species and Politics (RII = 4.21), followed by Concentration of property unhealthy to the project (RII = 4.17), followed by Soil with low load bearing capacity, thus far from wetland and valley plane (RII = 3.76), followed by Religious property (RII = 3.64), and others as shown in the Table 3. This goes to explain that the Engineering Factor to reduce cost (hill, valley, river) that ranked first with (RII = 5.00) is the major cause of realignment, that is not to say that other factors are not relevant because without considering other factors realignment can occur.

Table 4 displays the variables ranks from Estate Surveyors and Valuers (ESV) responses on causes of realignment of electricity wayleaves. This is done with the application of Relative Importance Index (RII)

Cause/Response	S. Agreed W=5	Agreed W=4	Undecided W=3	Disagreed W=2	S. Disagreed W=1	RII	Rank
Eng. Factor to reduce cost (hill, valley, river)	159 WF=795	40 WF=160	0 WF=0	0 WF=0	0 WF=0	4.80	1 st
Politics	136 WF=680	10 WF=40	10 WF=30	43 WF=86	0 WF=0	4.20	4 th
Conc. of ppty unhealthy to the proj.	44 WF=220	144 WF=576	11 WF=33	0 WF=0	0 WF=0	4.17	6 th
Palace	100 WF=500	66 WF=264	11 WF=33	22 WF=44	0 WF=0	4.23	3 rd
Factory	33	22	55	78	11		

Table 4:Response to Causes of Realignment of Electricity Wayleaves from ESV

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	WF=165	WF=88	WF=165	WF=156	WF=11	2.94	13 th
Historical	21	94	63	21	0		
property	WF=105	WF=376	WF=189	WF=42	WF=0	3.58	10 th
Religious	70	50	30	40	9		
property	WF=350	WF=200	WF=90	WF=80	WF=9	3.66	8 th
River crossing	70	40	20	60	9		
-	WF=350	WF=160	WF=60	WF=120	WF=9	3.51	11 th
Angle points	20	52	52	63	12		
	WF=100	WF=208	WF=156	WF=126	WF=12	3.03	12 th
Built	63	53	42	31	10		
environment	WF=315	WF=212	WF=126	WF=62	WF=10	3.64	9 th
Exclusion zone	94	74	31	0	0		
of airport and	WF=470	WF=296	WF=93	WF=0	WF=0	4.32	2^{nd}
airfield							
Soil with low	60	79	20	30	10		
load bearing	WF=300	WF=316	WF=60	WF=60	WF=10	3.75	7^{th}
capacity, thus far							
from wetland							
and valley plane							
Ridges	22	33	66	66	12		
	WF=110	WF=132	WF=198	WF=132	WF=12	2.93	14^{th}
Protected areas,	136	20	10	11	22		
forest reserves,	WF=680	WF=80	WF=30	WF=22	WF=22	4.19	5 th
classified forests,							
Ramsar sites and							
other sites,							
which aim to							
protect natural							
areas and species							
Total	1028	777	421	465	95		

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Key: WF = Weighted frequency.

Table 4 showed that Engineering Factor to reduce cost (hill, valley, river) ranked first (RII = 4.80). This was followed by Exclusion zone of airport and airfield (RII = 4.32). And followed by Palace (RII = 4.23), followed by Politics (RII = 4.20), followed by Protected areas, forest reserves, classified forests, Ramsar sites and other sites, which aim to protect natural areas and species (RII = 4.19), followed by Concentration of property unhealthy to the project (RII = 4.17), followed by Soil with low load bearing capacity, thus far from wetland and valley plane (RII = 3.75), and others as shown in the Table 4. This goes to explain that the Engineering Factor to reduce cost (hill,

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valley, river) that ranked first with (RII = 5.00) is the major cause of electricity wayleaves realignment.

 Table 5:Ranking of Response on Causes for Realignment of Electricity Wayleaves (REWL) from

 RA and ESV

Response	Minimum	Maximum	Mean	Rank
S. Agreed	18	140.50	64.25	1
Agreed	9	127.00	48.96	2
Undecided	0	95.00	32.61	3
Disagreed	0	68.50	29.29	4
S. Disagreed	0	18.00	5.89	5

From Table 5 the researchers could see from the ranking that "Strongly Agreed" topped the choice made by the respondents with a mean of 64.25 and ranked number 1 followed by "Agreed" with mean of 48.96 and ranked 2. From this result we can say that combining those who Strongly Agreed and Agreed in respect to the causes of realignment of electricity wayleaves, they are really true, and as such all the factors mentioned are the causes for realignment of electricity wayleaves from both Revoking Authority (RA) and Estate Surveyors and Valuers (ESV).

Responses from the ARHs in respect to their reaction when realignment occurs Reaction of the ARHs comes as questions as followed:

i.Why realignment?

ii.Is it because ARHs with realignment did not have good structure?

iii.Is it because ARHs did not have someone to influence the executors?

iv.Why short notice?

The exercise is been perceived to cause disunity and disaffection among community.

Table 4 displays the variables ranks from affected rights holders (ARHs) response on challenges in realignment of electricity wayleaves. This is done with the application of Relative Importance Index (RII)

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Challenges/Response	S. Agreed	Agreed	Undecided	Disagreed	S. Disagreed	RII	Rank
	W=5	W=4	W=3	W=2	W=1		
Initially ARHs left	124	124	26	0	0	4.36	3 rd
without notice	WF=620	WF=496	WF=78	WF=0	WF=0		
Initially ARHs left	124	99	0	24	27	3.98	6 th
without compensation	WF=620	WF=396	WF=0	WF=48	WF=27		
after causing damage							
Short notice given to	200	47	27	0	0	4.63	1 st
ARHs on realignment	WF=1000	WF=188	WF=81	WF=0	WF=0		
route							
Reason of realignment	173	101	0	0	0	4.63	1^{st}
not explained to ARHs	WF=865	WF=404	WF=0	WF=0	WF=0		
Delay payment of	199	49	26	0	0	4.63	1 st
compensation	WF=995	WF=196	WF=78	WF=0	WF=0		
Late compensation to	164	83	27	0	0	4.50	2 nd
ARHs on the	WF=820	WF=332	WF=81	WF=0	WF=0		
realignment route							
Omitted ARHs	82	164	28	0	0	4.20	4 th
	WF=410	WF=656	WF=84	WF=0	WF=0		
Time value of money	82	114	78	0	0	4.01	5 th
-	WF=410	WF=456	WF=234	WF=0	WF=0		
Total	1049	924	223	24	27		

6.Resnanse on	challenges in	Realignment (of Flectricity	v wavleaves as reacte	d by ARHs
U.Respuise on	Chanenges m	Keanginnent o		wavieaves as reacte	U DV ANIIS

Key: WF = Weighted frequency.

Table 6 showed that Short notice given to ARHs on realignment route, Reason of realignment not explained to ARHs and Delay payment of compensation ranked first (RII = 4.63). This was followed by Late compensation to ARHs on the realignment rout (RII = 4.50). And followed by Initially ARHs left without notice (RII = 4.36), followed by Omitted ARHs (RII = 4.20), followed by Time value of money (RII = 4.01), and followed Initially ARHs left without compensation after causing damage (RII = 3.98). This goes to explain that the Short notice given to ARHs on realignment route, Reason of realignment not explained to ARHs and Delay payment of compensation that ranked first with (RII = 4.63) are the major challenges faced by the ARHs.

The research Hypothesis

 $H_{o1:}$ There is no significant difference between the causes of realignment before and after assessment of electricity wayleaves, in the South East of Nigeria.

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Table 7:SPSS Output for Correlation

		ARHs	ESV
Before R.	Pearson Corr.	1	1.00
	Sig. (1-tailed)		0.01
	Ν	2	2
After R.	Pearson Corr.	1.00	1
	Sig. (1-tailed)	0.01	
	Ν	2	2

Probability: 0.01**

Table 7 is showing the results of analysis or output of correlation. The Pearson correlation coefficient is given as +1.00 and significant at 0.01. The probability value of 0.01 is less than 5% but within the range meaning that the value of Pearson correlation is significant at the 5% level of significance. The statistical connotation is that there is a positive and significant relationship between cause of realignment before and after assessment of electricity wayleaves. Therefore we accept the null hypothesis that says "There is no significant difference between the causes of realignment before and after assessment of electricity wayleaves, in the South East of Nigeria".

DISCUSSION/CONCLUSION

The major cause of realignment as revealed by the study is engineering factor to reduce cost (hill, valley, river) and as such it necessary to look into the engineering factor at the early stage to minimise or avoid the factor causing realignment of route. Perhaps, other factors as listed in the table 4.1a by the researchers are to be considered not minding the fact that engineering factor were the major cause of power line realignment as shown in the analysis. However, realignment of power line causes disunity and disaffection among community members as seen from the reaction of the ARHs by asking questions which if not proper handle will result to delay of construction. It also revealed that Short notice given to ARHs on realignment route, Reason of realignment not explained to ARHs and Delay payment of compensation that ranked first with (RII = 4.63) is the major challenges faced by the ARHs.

These ARHs properties that was affected by realignment of electricity wayleaves leads to the compensation sum been paid later when initial ARHs must have collected theirs and invested in nearby available land and as such causing the left available area to be costly as result of increase in land demand and as such for fairness and equity it requires prompt payment.

However, it is important for proper regulation of the activities of the executors of this exercise by both the government and community where it is being executed and as such creating a formidable committee which should include members of the committee and government representative.

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