

Ministry of Energy

Final Report - NEDCo Energy Revenue Validation

Task I: Validation of revenue for the period October to December 2023

10 January 2025

Attn: The Chief Director

Ministry of Energy
P.O. Box SD 40,
Accra, Ghana
GA-107-2970

GH-MOE-425485-CS-CDS

Dear Sir,

Final Report - Consultancy Services for Validation of Northern Electricity Distribution Company (NEDCo) Revenue and Cash Collection

We enclose our Final Report (the “Final Report” or the “Report”) on Task 1 revenue validation for the period October to December 2023. We draw your attention to the section Scope and Bases in which we refer to the scope of our work, sources of information, and the limitations of the work undertaken.

The Executive Summary Section is not intended to be exhaustive but highlights the most significant matters that have come to our attention concerning the NEDCo Revenue and Cash Collection validation engagement. It should, therefore, be read in conjunction with the whole Report and the appendices.

Our work does not constitute an audit and has therefore not been carried out per auditing or other standards and practices and accordingly should not be relied upon as if it has been carried out under those standards and practices.

It is important to note that, we have engaged management of NEDCo in obtaining the information used for our report and the necessary clarifications required to enhance our work. If you require further clarification, please contact Dennis Brown on +233 501 415 598 or dennbrown@deloitte.com.gh or Nii Asafoatse Abbey on +233 503 627 159 or nabbey@deloitte.com.gh or the undersigned on 233 244 158 377 or ylartey@deloitte.com.gh.

Yours faithfully



Yaw Appiah Lartey

Partner, Financial Advisory

Deloitte & Touche

The Deloitte Place
Plot No. 71
Off George Walker Bush Highway
North Dzorwulu
P.O. Box GP 453
Accra, Ghana
Tel: +233 (0)302775355
www2.deloitte.com/gh

Contents

Executive Summary	5
Power purchases and distribution	14
Revenue and cash collection	17
Statutory and supplier payments	25
Appendices	28

Yaw Appiah Larley

Partner, Financial Advisory
Office tel: +233 (0)302775355
Mobile tel: +233 244 158 377
Email: ylarley@deloitte.com.gh

Nii Asafoatse Abbey

Associate Director, Financial Advisory
Office tel: +233 (0)302775355
Mobile tel: +233 503 627 159
Email: nabbey@deloitte.com.gh

Dennis Brown

Associate Director, Financial Advisory
Office tel: +233 (0)302775355
Mobile tel: +233 243 205 800
Email: dennbrown@deloitte.com.gh

Important Notice

This Final Report (the “Final Report” or “Report”) is strictly private and confidential to the Recipient Parties (as defined in the contract dated 1 October 2024 (the “Contract”).

Same as expressly provided for in the Contract, the Report must not be recited or referred to in any document or copied or made available (in whole or in part) to any other party.

Aside the authorised recipient of the report, no other party is entitled to rely on the report for any purpose whatsoever and we accept no responsibility or liability for the contents of the report to any other party.

For your convenience, this report may have been made available to you in electronic and hard copy format. Multiple copies and versions of this report may, therefore, exist in different media. Only a final signed copy should be regarded as definitive.

Scope and Bases

We have carried out the Revenue Validation Exercise as instructed in our contract covering the period October 2023 to December 2023

Scope	<ul style="list-style-type: none"> The scope of work is as detailed out in slide 6 of this report. Our deliverable is as follows: <ul style="list-style-type: none"> Revenue Validation Report (Task 1)
Access	<ul style="list-style-type: none"> Access to information was provided via a combination of e-mail exchanges and an electronic shared folder, as well as through virtual and/or physical meetings with management of NEDCo.
Timetable	<ul style="list-style-type: none"> Our work towards this Final Report was executed over a six-week period. This is in line with the timeline indicated in the Contract for the assignment..
Information sources and discussions	<ul style="list-style-type: none"> The data and information used for our work was provided by the management of NEDCo. To obtain further clarification and to confirm our understanding of the data and information received from management, where feasible, we held discussions- virtual and/or physical- with the management of NEDCo. We also relied on phone calls in some instances to follow up on our information requirements. We engaged the following officials of NEDCo in the course of our work: <ul style="list-style-type: none"> Matinu Alhassan – Accounting Services Manager Hilda Jalia Alhassan – Billing and Revenue Protection Manager Abdulai Saaka – Treasury Manager Dauda Yirisa – Ag. Manager, Northern Area

Quality of information	<p>Our revenue validation exercise was mainly based on information provided by NEDCo covering the period October 2023 to December 2023. These include:</p> <ul style="list-style-type: none"> Monthly records of power received from Volta River Authority (VRA) and transmitted by the Ghana Grid Company (GRIDCo) Power receipts schedule signed by both NEDCo and GRIDCo Monthly and quarterly breakdown of power distributed to customers across Service Areas and towns Monthly bank reconciliation statements Bank statements evidencing receipts and payments <ul style="list-style-type: none"> Overall, the quality of the information provided by management for purposes of our review is reasonable. Also, we have had good access to management for purposes of obtaining the information and clarification required for our work, which has further improved the quality of the information provided for our work.
Outstanding information/matters	<ul style="list-style-type: none"> As at the time of this report, the following information was outstanding: <ul style="list-style-type: none"> Invoices for statutory payments (Ministry of Energy, Public Utilities Regulatory Commission, Northern Electrification Fund, Ghana Revenue Authority and Energy Commission)



Executive Summary

Executive Summary	5
Power purchases and distribution	14
Revenue and cash collection	17
Statutory and supplier payments	25
Appendices	28



Executive Summary | Background and scope of work

The main objective of this assignment is to review and validate the revenue and cash collections of the Northern Electricity Distribution Company (NEDCo) over the period October 2023 to December 2023

Background information

The Government of the Republic of Ghana (“GoG” or the “Government”) introduced the Energy Sector Recovery Program (ESRP) in May 2019 to set out the roadmap of policies and actions required for the financial recovery in the energy sector. The ESRP was extended for two-and-a-half years from mid-2023 to end-2025 to achieve the programme’s objectives.

The services of an audit firm are required to audit and validate all electricity sales in terms of kWh and the amount billed and collected by NEDCO. This include validation of all payments to power suppliers and regulatory authorities, billing and collections, the amount of power delivered, the corresponding billing and collections. The review period shall include October to December 2023 and January to December 2024.

Objectives of the Assignment

The objectives of the assignment are to:

- Assess and validate the accuracy and reliability of the tariff revenue recorded by NEDCo
- Evaluate the effectiveness of internal controls and processes in place to ensure proper collection of tariff revenue by NEDCo
- Assess the adequacy of systems and procedures for billing and revenue monitoring
- Additionally, validate the:
 - The electricity delivered by generators, and received by NEDCo
 - The electricity distributed by NEDCo
 - The corresponding billing by NEDCo
 - The monthly revenue collections of NEDCo
 - The corresponding transfer of collections into the Single Collections Account
 - The statutory deductions
 - Non-tariff revenue

Scope of Services and Tasks

As detailed in the Contract, the scope of work covers the following tasks:

- Review and assess NEDCo’s billing and invoicing procedures, including the accuracy of metering, tariff application, and customer billing;
- Review and assess NEDCo’s revenue collection and accounts receivables management;
- Validate that all revenues received by NEDCo for the reporting period are in alignment with the electricity received and distributed by NEDCo along with corresponding billing and collections;
- Validate that NEDCo has made timely payments to their electricity suppliers;
- Identify all accounts into which customer cash collections are transferred;
- Check that all revenues received at each collection point were transferred in full to the relevant district collection/revenue accounts;
- Check that the daily banked receipts were swept in full into the Head Office Single collection/revenue account;
- Identify any revenue accounts utilised by NEDCo which are not swept into the district collection accounts and head office Single Collection account;
- Check the inflows into all the operational accounts to determine the sources of such revenue;
- Confirm the payment of statutory deductions to the relevant authorities;
- Check whether NEDCo is using a single collection account;
- High-level commentary on the adequacy, transparency and effectiveness of accounting and overall internal control systems for the revenue collections, transfer, and disbursement mechanisms;
- Recommend and advise the GoG on how to strengthen internal controls and GoG oversight over NEDCo’s revenue and disbursement.

[It is important to note that this report covers Task I: Review and validation of revenue and cash collections over the period October to December 2023.](#)

Executive Summary | Snapshots of NEDCo's energy statistics

NEDCo reported total billed energy of 277.2 million kWh, which represents 56% of the total Grid power purchased from VRA. This translates to revenue of GHS494.1 million with reported cash collections amounting to GHS878.0 million over the period October to December 2023

Figure 1A: Analysis of power purchases by service area (millions of kWh)

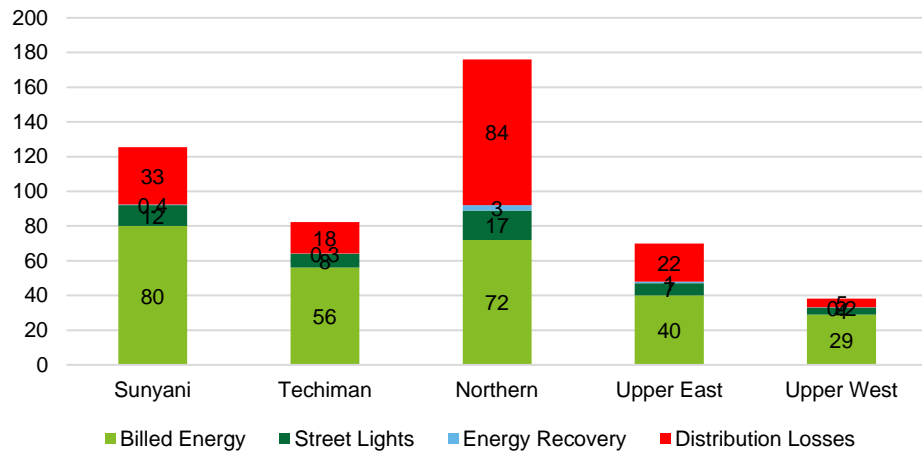


Figure 1C: Reported vs validated cash collections for power sales- Oct to Dec 2023 (GHS' millions)

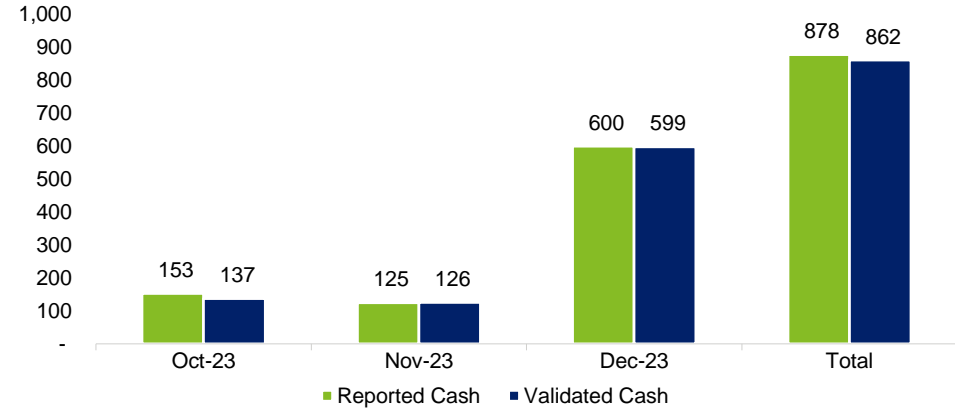


Figure 1B: Reported vs validated cash collections for power sales- Oct to Dec 2023 (GHS' millions)

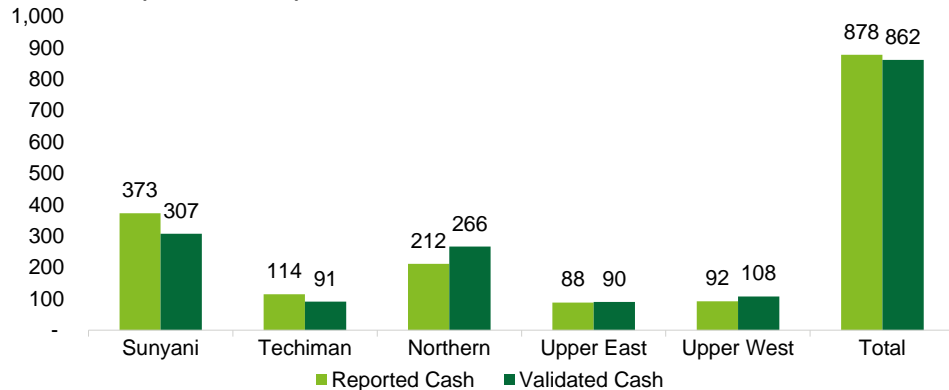
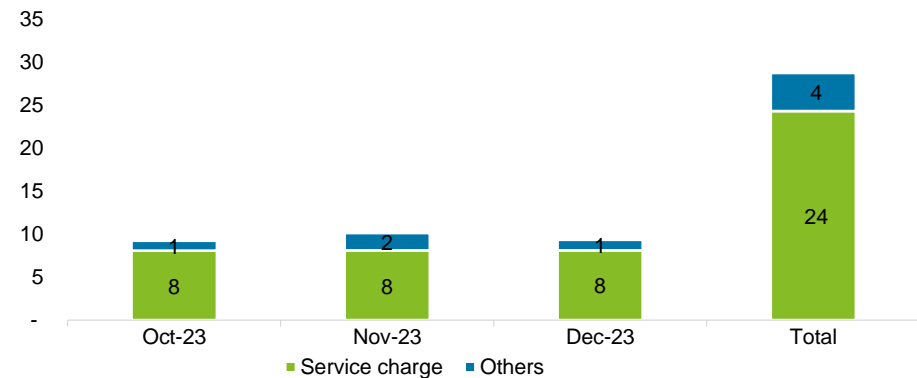


Figure 1D: Non-tariff revenue Oct 2023 to Dec 2023 (GHS' millions)



Source: Management Information & Deloitte Analysis

Executive Summary | Summary of power purchases & distribution

We fully reconciled NEDCo's reported power purchases of 492 million kWh with the monthly invoices submitted by VRA and GRIDCo, finding no exceptions.

Table 1 : Summary of power purchases and distribution for the period Oct to Dec 2023 (kWh)

Summary of power purchases and distribution for the period Oct 2023 to Dec 2023 (kWh)							
Service Area	GRID Power Purchased (A)	Billed Energy (B)	Streetlights (C)	Energy Recovery/Illegal (D)	Accountable Power (E=B+C+D)	Distribution Losses (F)	Dist'n Loss %
Sunyani	124,978,149.39	79,561,696.00	12,497,815.00	415,387.00	92,474,898.00	32,503,251.39	26%
Techiman	82,642,365.28	56,426,052.00	8,264,237.00	327,190.00	65,017,479.00	17,624,886.28	21%
Northern	176,044,044.76	71,847,099.00	17,180,924.00	2,651,423.86	91,679,446.86	84,364,597.90	48%
Upper East	69,624,694.84	40,064,546.00	6,962,469.00	1,041,821.00	48,068,836.00	21,555,858.84	31%
Upper West	38,744,635.40	29,284,328.00	4,297,944.00	225,751.00	33,808,023.00	4,936,612.40	13%
Grand total	492,033,890	277,183,721	49,203,389	4,661,573	331,048,683	160,985,207	33%

Source: Management Information & Deloitte Analysis

NEDCo's power purchases and distribution

As presented in Table 1 above, NEDCo's commercial statistics report for October to December 2023 indicates total power purchased and transmitted to NEDCo of 492 million kWh, of which 277.2 million kWh was billed to customers as revenue. In addition to the billed energy, 49.2 million kWh of the power purchased was assessed as consumption for street lighting, and 4.7 million kWh was estimated as recoveries from illegal consumption. The sum of energy billed, power for street lighting, and the recoveries from illegal consumption is what management refers to as Accountable Power. The difference between the Accountable Power and the Total Power Purchased represents Total Distribution Losses.

Based on management's report, we noted Total Distribution Losses of 161 million kWh, representing 33% of the Total Power Purchased. When analysed based on the revenue run rate for October to December 2023, the Total Distribution Losses translate to GHS286.6 million. NB: *The revenue run rate is calculated by dividing the billed energy in GHS by the billed energy in kWh to arrive at the billed energy per kWh, the result of which is multiplied by the total distribution loss.*

NEDCo's power purchases and distribution (cont'd)

When analysed by Service Areas, Sunyani and Northern, together, received about 61.2% of the grid power supplied to NEDCo by VRA. These two, together, also accounted for 54.6% of the total billed energy, and 55.6% of the total accountable energy over the period October to December 2023. In terms of losses, Northern and Sunyani, together, accounted for 72.6% of the total distribution losses reported by NEDCo.

To validate NEDCo's power purchases and distribution for October to December 2023, we reviewed the monthly power bills/invoices submitted to NEDCo by VRA and GRIDCo. Included in the signed monthly invoices are schedules that track power receipts at various Bulk Supply Points (BSPs) (refer to Appendix A2) across the five Service Areas. As per our review over the period October to December 2023, we were able to fully reconcile NEDCo's reported power purchased (in units) amounting to 492 million kWh with that of the monthly invoices submitted to NEDCo by VRA and GRIDCo without exceptions.

Executive Summary | Summary of power purchases & distribution

When compared to the average cost per kWh of GHS0.78, the average price per kWh of GHS1.78 indicates a mark-up of about GHS1.00 (c.130%) on each kWh of power sold by NEDCo over the period October to December 2023

Table 2 : Analysis of cost and sales per kWh of power sold by NEDCo

Analysis of cost and sales per kWh of power sold by NEDCo October to December 2023											
Period	Power Supplied (kWh) (A)	Amount Billed (GHS) (B)	Cost per kWh (GHS) (C=B/A)	TSC* (GHS) (D)	TSC per kWh (GHS) (E=D/A)	Total cost per kWh (GHS) (F=C+E)	Total sales (kWh) (G)	Total sales (GHS) (H)	Average Price per kWh Mark-up on Cost		
									(GHS) (I=H/G)	(%)	
Oct-23	164,125,363	108,419,738	0.66	21,184,158	0.13	0.79	89,972,546	160,388,535	1.78	126%	
Nov-23	171,585,835	113,348,058	0.66	22,147,114	0.13	0.79	92,968,408	166,198,709	1.79	126%	
Dec-23	156,322,692	96,944,299	0.62	20,050,436	0.13	0.75	94,242,766	167,497,014	1.78	137%	
Grand total	492,033,890	318,712,095	0.65	63,381,708	0.13	0.78	277,183,720	494,084,258	1.78	130%	

Source: Management Information & Deloitte Analysis

Refer to Appendix A5 for breakdown of the TSC into its various component

TSC* - Transmission Service Charge

Cost per kWh of power purchased

As shown in Table 2 above, the total cost of power to NEDCo is composed of the amounts billed to NEDCo by VRA for power supplied to the various bulk supply points and the amounts billed to NEDCo by GRIDCo for transmission of same power to the bulk supply points across the 5 Service Areas under NEDCo.

For October to December 2023, NEDCo received 492 million kWh of power from VRA for which it was billed a total of GHS318.7 million by VRA, translating into an average cost of GHS0.65 per kWh for power supplied by VRA. Similarly, NEDCo received total bill of GHS63.4 million as transmission charges from GRIDCo, which translates into an average transmission cost of GHS0.13 per kWh for power transmitted. Together, these amount to an average cost of GHS0.78 per kWh for power purchased and transmitted to NEDCo for October to December 2023.

Price per kWh of power sold

As presented in Table 2, for October to December 2023, NEDCo recorded total power sales of 277.2 million kWh at GHS494.1 million, which translates into an average price of GHS1.78 per kWh of power sold over the period.

Markup on cost

When compared to the average cost per kWh of GHS0.78, the average price per kWh of GHS1.78 indicates a markup of about GHS1.00 on each kWh of power sold by NEDCo over the period October to December 2023. This reflects a margin of about 130% on the cost per unit of power purchased and transmitted to NEDCo over the period.

The analysis of the markup indicates that NEDCo can comfortably cover the costs it incurs in buying and transmitting power from VRA to its bulk supply points. This shows that, under normal circumstances, NEDCo is financially capable of covering the expenses related to purchasing power and paying its suppliers. Therefore, the reason for NEDCo's difficulty in paying its suppliers is likely more related to its distribution losses and cash flow issues rather than its commercial arrangements with suppliers and customers.

Executive Summary | Summary of revenue & collection

The high levels of reported cash collections compared to reported billed revenue resulted mainly from credit notes amounting to GHS 468.8 million received from VRA in respect of outstanding bills for Ministries Departments and Agencies

Table 3: Summary of revenue and collection - NEDCo

Summary of revenue and collection - NEDCo											
Service Area	Billed to Prepaid Customers	Billed to Post-paid Customers	Total Billed Energy	Billed to Pre-paid Customers	Billed to Post-paid Customers	Total Billed Energy	Collection from Pre-paid Customers	Collection from Post-paid Customers	Total Collections	Collection % of billings	Collection % of Consumption
	(kWh)	(kWh)	(kWh)	(GHS)	(GHS)	(GHS)	(GHS)	(GHS)	(GHS)	(GHS)	(GHS)
	(A)	(B)	(C=A+B)	(D)	(E)	(F=D+E)	(G)	(H)	(I=G+H)	(I/F)	(I/F)
Sunyani	38,129,839	41,431,857	79,561,696	67,951,743	72,511,120	140,462,863	69,570,131	302,954,352	372,524,483	265.2%	28.7%
Techiman	33,301,712	23,124,340	56,426,052	58,782,676	39,912,121	98,694,797	60,251,932	53,794,505	114,046,437	115.6%	20.4%
Northern	30,062,609	44,165,950	74,228,559	55,636,154	79,165,627	134,801,781	61,068,710	150,607,096	211,675,807	157.0%	26.8%
Upper East	22,009,258	18,055,288	40,064,546	39,880,817	31,947,586	71,828,403	42,353,695	45,841,705	88,195,400	122.8%	14.5%
Upper West	17,221,758	9,681,111	26,902,869	29,651,277	18,645,137	48,296,413	30,936,550	60,595,155	91,531,706	189.5%	9.7%
Grand total	140,725,175	136,458,546	277,183,721	251,902,667	242,181,591	494,084,258	264,181,019	613,792,813	877,973,832	177.7%	100.0%

Source: Management Information & Deloitte Analysis

NEDCo's billed energy, revenue and cash collection

As presented in table 3 above, total billed energy by NEDCo for the period October to December 2023 amounted to about 277.2 million kWh. The Sunyani and Northern area, together, accounted for 55.5% of the total billed energy over the period.

The total kWh of billed energy over the period October to December 2023 translated into total revenue of GHS494.1 million with Northern and Sunyani areas accounting for 55.7% of the total revenue billed.

When analysed by customer type, prepaid customers accounted for 50.8% of power consumed and 51.0% of revenue generated, while post-paid customers accounted for 49.2% of power consumed, translating into 49.0% of the total revenue billed over the period October to December 2023. A more detailed breakdown of power consumption and billings per Service Area has been presented in *Appendix A3* of this report.

In terms of cash collection, NEDCo reported total cash collection of GHS878.0 million over the period October to December 2023, with collections (cash plus credit notes) collected from postpaid customers accounting for 69.9% of the total collection.

NEDCo's billed energy, revenue and cash collection (cont'd)

When analysed by Service Areas, Sunyani accounted for the highest cash collection ratio at 265.2% of the billed revenue, whilst Upper West, Northern and Upper East recorded cash collection to billings ratios of 189.5%, 157.0% and 122.8%, respectively. The lowest ratio was recorded in Techiman at 115.6%. Overall, we noted NEDCo's reported cash collection (GHS 878.0 million) was almost double its billed revenue (GHS 494.1 million). The high levels of reported cash collections compared to reported billed revenue resulted mainly from credit notes amounting to GHS 468.8 million (representing 53.4% of the total collection over the review) received from VRA. We further noted that the credit notes are in respect of outstanding bills for Ministries Departments and Agencies (MDAs) covering the period October 2021 to March 2022 and for payment on account in the January 2024 billing cycle.

To validate the billed energy and revenue reported by NEDCo, we performed a walk-through test of the power billing and revenue accounting software in use at NEDCo to ascertain the accuracy of management's assertions about how the system has been configured to account for revenue. In performing the systems testing procedures, we used sample transactions to recalculate revenue data generated from the system and noted no exceptions.



Executive Summary | Summary of revenue & collection

The total validated cash collection mainly include funds from the NEDCo's power sales collection bank accounts amounting to GHS 393.13 million and credit notes received from VRA in respect of power consumed by MDAs amounting to GHS468.8 million

Table 4: Summary of revenue and collection - NEDCo

Cash validated from bank statements and credit notes (GHS'000)			
Service Area	Source	Total	Variance
Sunyani	Cash from bank statements (A)	118,328,180	
	Credit note (B)	188,968,952	
	Cash per management report (C)	372,524,483	
	<i>Difference noted (A+B-C)</i>	<i>(65,227,351)</i>	<i>(17.51%)</i>
Techiman	Cash from bank statements (A)	60,544,080	
	Credit note (B)	30,240,712	
	Cash per management report (C)	114,046,437	
	<i>Difference noted (A+B-C)</i>	<i>(23,261,645)</i>	<i>(20.40%)</i>
Northern	Cash from bank statements (A)	92,790,955	
	Credit note (B)	153,539,734	
	Cash per management report (C)	211,675,807	
	<i>Difference noted (A+B-C)</i>	<i>34,654,883</i>	<i>16.37%</i>
Upper East	Cash from bank statements (A)	58,085,019	
	Credit note (B)	31,800,640	
	Cash per management report (C)	88,195,400	
	<i>Difference noted (A+B-C)</i>	<i>1,690,258</i>	<i>1.92%</i>
Upper West	Cash from bank statements (A)	43,519,376	
	Credit note (B)	64,281,427	
	Cash per management report (C)	91,531,706	
	<i>Difference noted (A+B-C)</i>	<i>16,269,098</i>	<i>17.77%</i>
Mobile Money	Validated Momo (A)	12,894,191	n/a
Cheque Deposits	Validated Cheque Deposits (A)	7,000,000	n/a
Consolidated	Validated cash from bank statements (A)	393,161,801	
	Credit note (B)	468,831,465	
	Cash per management report (C)	877,973,832	
	<i>Difference noted (A+B-C)</i>	<i>(15,980,567)</i>	<i>(1.82%)</i>

Refer to Appendix A5 for details of validated cash collection for each area

Refer to Appendix A4 for breakdown of cheque deposits

Source: Management Information & Deloitte Analysis

Project Power II – Final Report - 14 January 2025

NEDCo's billed energy, revenue and cash collection (cont'd)

Table 4 summarises the results of our cash validation work covering October 2023 to December 2023. Based on the information provided by management and our review of same, we noted reported cash collections of c.GHS878.0 million over the review period compared to a validated cash amount of c.GHS862.0 million over the period October 2023 to December 2023, indicating an unreconciled difference of GHS 16.0 million. As per our review, the total validated cash collection mainly includes funds from NEDCo's power sales collection bank accounts (across five service areas) amounting to GHS 393.2 million, which represented 45.6% of total validated cash collection and credit notes received from VRA in respect of power consumed by MDAs amounting to GHS468.8 million, which represented 54.4% of the total validated cash collections. We are unable to segregate the exact portion of the credit notes that relate to the period under review (October to December 2023) as the information presented was not granular enough to allow for that analysis.

Overall, we noted an unreconciled difference of GHS 16.0 million (variance of 1.8%) which represents a lower validated cash (GHS 862.0 million) compared to reported cash (GHS 878.0 million) over the review period. According to management, the unreconciled difference resulted from timing differences between the date on which the billing system records cash receipts from customers and when these cash receipts are banked. Aside from the high-level explanation provided by management, management has been unable to assist in reconciling the difference noted.

The reported cash collections (GHS 878.0 million) was about 77.7% higher than reported billed revenue (GHS 494.1 million) over the period October to December 2023. The high levels of reported cash collection compared to billed revenue as indicated earlier has resulted from the allocation of credit notes from VRA in respect of power consumed by MDAs over the period October 2021 to March 2022, and for payment on account for MDA's in the January 2024 billing cycle.

As at the date of this report, we noted that NEDCo does not operate a Single Collection Account where all cash collection from power sales across the five Service Areas under NEDCo are transferred. We however noted instances of bulk transfers into the Northern Area power sales account from other accounts mapped to the other Service Areas, although management confirmed that this account is not operated as a Single Collection Account.



Executive Summary | Summary of revenue & collection

Management's schedules for non-tariff revenue indicate total non-tariff revenue of GHS28.8 million generated over the period October to December 2023. About 85% of this relates to service charges included in all customer bills

Table 5: Summary of non-tariff revenue - NEDCo

Schedule of non-tariff revenue - Oct 2023 - Dec 2023 (GHS,000)					
Item	Oct-23	Nov-23	Dec-23	Total	% of Total
Service Charge (Distribution)	8,101	8,105	8,124	24,330	84.6%
General Miscellaneous Income	37	634	433	1,104	3.8%
Sale of Scrap & Old Materials	-	1,083	-	1,083	3.8%
Interest-Bank Deposits (Local)	434	9	569	1,012	3.5%
Income from Unestimated Work	201	91	67	358	1.2%
Reconnection Fees	131	71	76	277	1.0%
Revenue Netting Account	272	-	-	272	0.9%
Sale of IC Cards	35	35	37	108	0.4%
Meter Maintenance Fees	26	38	42	106	0.4%
Sale Of Bid Forms ETC	2	37	-	40	0.1%
Sale of Service Application For	3	21	3	27	0.1%
Swimming & Fitness Services I	6	6	3	15	0.1%
Other Investment Income(Local)	-	10	4	14	0.0%
Misc Interest Income (Local)	5	4	1	10	0.0%
Rental and Hire of Vehicles	-	-	10	10	0.0%
Hire of Space, Halls, Clubhouse	-	3	2	5	0.0%
Club/Bar Sales Income	1	1	0	2	0.0%
Other Investment Income(Foreign)	-	-	1	1	0.0%
Sale of Inventory	1	-	-	1	0.0%
Grand total	9,255	10,148	9,371	28,773	100.0%

Source: Management Information & Deloitte Analysis

NEDCo's non-tariff revenue for October to December 2023

As summarised in Table 5 above, management reported total non-tariff revenue of GHS28.8 million for October- December 2023. The key components of NEDCo's non-tariff revenue are summarily explained as follows:

Service charge- This is a fee charged to all customers to cover the cost of NEDCo's services, and it is included in all customers' bills but separated from power sales and reported as a component of non-tariff revenue. This amounted to GHS24.3 million over October- December 2023 and constituted c.84.6.0% of the total non-tariff revenue reported for the quarter.

NEDCo's non-tariff revenue for the period October to December 2023 (contd)

- General miscellaneous income**- This, according to management, mainly includes income that can not be classified or charged to a specific ledger account. An example of such is a penalty for illegal connections and others. This amounted to a total of GHS1.1 million over the period reviewed and constituted c.3.8% of the total non-tariff revenue.
- Sale of Scrap and Old Materials** - This relates to the revenue generated from the sale of obsolete such as scrap metal and old machinery. Over the period October-December 2023, the total sale of scrap and old materials amounted to GHS 1.1 million, constituting approximately 3.8% of the total non-tariff revenue reported for the quarter.
- Interest on local bank deposits**- This relates to interest earnings on cash deposited in NEDCo's local bank accounts. This amounted to GHS1.1 million over the period October-December 2023 and constituted c.3.8% of the total non-tariff revenue reported for the quarter.
- Income from 'unestimated work'**- Reported in management schedules as "income from unestimated work", this relates to payments made by customers who have connected power to areas not covered by NEDCo. Customers are required to pay for an assessment of their networks to determine if it meet NEDCo's standards. This amounted to a total of GHS358 thousand over the period October to December 2023 and constituted c.1.2% of the total non-tariff revenue reported for the quarter.
- Reconnection fees**- These are fees charged to customers for reconnection after being disconnected for various reasons, including illegal connection and non-payment of bills. These amounted to a total of GHS277 thousand over the period reviewed and constituted c.1.0% of the total non-tariff revenue.
- Revenue netting account**- This is primarily a suspense account that holds revenue that has not been posted to any account as of the date of generating the report. Ideally, the finance team investigates this and later posts the amounts to the right accounts. This amounted to a total of GHS272 thousand over October-December 2023 and constituted c.0.9% of the total non-tariff revenue reported for the quarter.



Executive Summary | Summary of payments to suppliers and regulators

NEDCo's payables due to its suppliers (VRA and GRIDCo) stood at GHS2.8 billion as of 31 December 2023, representing about 22 months' worth of power supply bills

Table 6 : Summary of validated supplier and regulatory payments – Oct to Dec 2023

Supplier and regulatory payments- Oct 2023 to Dec 2023								
Entities	Bills	Payments	Pmt. % of Bills	Outstanding debts			Months Outstanding	
	(GHS'm)	(GHS'm)		(GHS'm)		AMB*	Indicative	
	Total	Total		Bal b/f Change	Bal c/f	(GHS'm)	Months	
<i>Power suppliers:</i>								
VRA	318.7	180.0	56%	2,025.7	138.7	2,164.4	106.2	20.4
GRIDCO	63.4	18.0	28%	572.0	45.4	617.4	21.1	29.2
Subtotal-Power suppliers	382.1	198.0	52%	2,597.7	184.1	2,781.8	127.4	21.8
<i>Regulatory entities:</i>								
MOE	14.8	-	0%	5.0	14.8	19.8	4.9	4.0
NEF	9.9	-	0%	(2.8)	9.9	7.0	3.3	2.1
PURC	-	-	n/a	(0.1)	-	(0.1)	-	n/a
GRA	-	25.6						
Energy Commission	-	0.2	n/a	-	(0.2)	(0.2)	-	n/a
Subtotal-Regulatory	24.7	25.8	104%	2.1	24.5	26.6	8.2	3.2
Grand total	406.8	223.8	55%	2,599.9	208.6	2,808.4	135.6	20.7

*Average Monthly Bill

Source: Management Information & Deloitte Analysis

Supplier and statutory bills and payments

Table 6 above is a summary of supplier and statutory bills for NEDCo, and payments made towards reducing these liabilities. These have been validated using copies of bills and payment receipts provided by NEDCo for our review.

Supplier bills and payments: As shown in Table 6 above, NEDCo's suppliers include VRA and GRIDCo for the supply and transmission of power, respectively. In total, NEDCo received power bills amounting to GHS382.09 million for October to December 2023 and made payments amounting to GHS198.0 million over the same period. The payments made represent only about 52% of the total power bills received from VRA and GRIDCo. The shortfall recorded for the period (c.GHS184.09 million) adds up to the opening balance of outstanding bills amounting to GHS2.6 billion to leave a closing balance of GHS2.8 billion as of 31 December 2023. Comparing this balance to the average monthly bill of GHS127.36 million recorded for October to December 2023 indicates that supplier payments, as of 31 December 2023, reflect a payable period of 22 months and suggest significant delays in settling supplier bills.

Supplier and regulatory bills and payments

Regulatory bills and payments: Table 6 also presents a summary of amounts required to be paid to some statutory bodies, including the Ministry of Energy (MOE), National Electricity Fund (NEF), Public Utilities Regulatory Commission (PURC), and Energy Commission (EC).

In total, we estimated statutory bills amounting to GHS24.7 million over the period October to December 2023 and validated payments made by NEDCo amounting to GHS25.8 over the same period. The payments made represent about 104% of the total bills assessed on NEDCo for October to December 2023.

In terms of NEDCo's dealings with GRA, NEDCo, as at the date of this report, did not provide information on its financial obligations to GRA over the review period for our assessment. We were, thus, unable to assess the total balance of outstanding payments to GRA as of 31 December 2023 and the indicative number of months of payments this translates into.

For MOE and NEF, the regulatory payments required of NEDCo have been specified in the Energy Sector Levies (Amendment) Act (Act 946). The Act directs that NEDCo should pay MOE and NEF 3% and 2%, respectively, of the price per kWh of electricity charged to customers. Although management asserts that the payments are done on cash collected basis, we have reflected the actual bills as prescribed by the Act for purposes of our validation exercise.

For PURC and Energy Commission, there were no specific requirements in the Act that obligate NEDCo to make any statutory payments. We also did not see any invoices for statutory payments from PURC and/or EC to NEDCo for the period October to December 2023.



Power purchases and distribution

Executive Summary	5
Power purchases and distribution	14
Revenue and cash collection	17
Statutory and supplier payments	25
Appendices	28



Power purchases and distribution

We noted a total distribution loss of 161 million kWh representing 33% of the total power purchased from VRA over the period October to December 2023.

Table 7 : Summary of power purchases and distribution for the period Oct 2023 to Dec 2023 (kWh)

Summary of Power Purchases and distribution for the period Oct 2023 to Dec 2023 (KWh)								
Service Area	Station	GRID Power Purchased (A)	Billed Energy (B)	Street Lights (C)	Energy Accountable Power Recovery/Illegal (D)	(E=B+C+D)	Distribution Losses (F=A-E)	Dist'n Loss %
Sunyani	Sunyani	47,500,912.19	29,188,016.70	4,750,091.22	415,387.27	34,353,495.19	13,147,417.00	28%
	Bekum	30,194,400.00	22,769,388.90	3,019,440.00	-	25,788,828.90	4,405,571.10	15%
	Mim	40,297,900.00	22,542,907.50	4,029,790.00	-	26,572,697.50	13,725,202.50	34%
	Bechem	6,984,937.20	5,061,382.60	698,493.72	-	5,759,876.32	1,225,060.88	18%
	Sub-total	124,978,149.39	79,561,695.70	12,497,814.94	415,387.27	92,474,897.91	32,503,251.48	26%
Techiman	Techiman	60,139,165.28	41,125,845.60	6,013,916.53	327,189.64	47,466,951.77	12,672,213.51	21%
	Kintampo	22,503,200.00	15,300,206.36	2,250,320.00	-	17,550,526.36	4,952,673.64	22%
	Sub-total	82,642,365.28	56,426,051.96	8,264,236.53	327,189.64	65,017,478.13	17,624,887.15	21%
Northern	Tamale	122,595,514.76	49,275,422.74	12,259,551.48	2,651,423.86	64,186,398.08	58,409,116.68	48%
	Yendi	46,141,870.00	20,490,265.20	4,614,187.00	-	25,104,452.20	21,037,417.80	46%
	Buipe/Yapei	3,071,860.00	2,081,411.65	307,186.00	-	2,388,597.65	683,262.35	22%
	Damango	4,234,800.00	2,381,459.00	423,480.00	-	2,804,939.00	1,429,861.00	34%
	Sub-total	176,044,044.76	74,228,558.59	17,604,404.48	2,651,423.86	94,484,386.93	81,559,657.83	46%
Upper East	Bolga	30,929,210.00	19,636,554.00	3,092,921.00	1,041,821.11	23,771,296.11	7,157,913.89	23%
	Bawku	21,129,066.00	10,030,369.40	2,112,906.60	-	12,143,276.00	8,985,790.00	43%
	Navrongo	14,092,538.84	8,040,277.00	1,409,253.88	-	9,449,530.88	4,643,007.96	33%
	Zebilla	3,473,880.00	2,357,345.70	347,388.00	-	2,704,733.70	769,146.30	22%
	Sub-total	69,624,694.84	40,064,546.10	6,962,469.48	1,041,821.11	48,068,836.69	21,555,858.15	31%
Upper West	Wa	28,087,089.00	19,964,230.02	2,808,708.90	225,751.01	22,998,689.93	5,088,399.07	18%
	Tumu	4,184,680.00	2,397,878.50	418,468.00	-	2,816,346.50	1,368,333.50	33%
	Sawla	6,472,866.40	4,540,760.20	647,286.64	-	5,188,046.84	1,284,819.56	20%
	Sub-total	38,744,635.40	26,902,868.72	3,874,463.54	225,751.01	31,003,083.27	7,741,552.13	20%
Grand Total		492,033,890	277,183,721	49,203,389	4,661,573	331,048,683	160,985,207	33%



Power purchases and distribution

Out of the total power purchased over the period reviewed, NEDCo reported billed energy of 277.2 million kWh, which represents 56.3% of the total power purchased from VRA

Overview

NEDCo currently purchases power solely from VRA. At the end of each month, VRA issues a power supply bill to NEDCo indicating the total cost and volume of power supplied to NEDCo. Also attached to the power supply bills are schedules that track power supplied to various Bulk Supply Points (BSPs) across each Service Area (see table 7 in the previous slide).

To validate the reported power purchased over the period reviewed, we obtained and reviewed signed original copies of the monthly VRA power bills to verify the volume of power purchased by NEDCo for every month covered within our review period. As indicated above, each power bill or invoice contains a schedule that provides a breakdown of the power supplied into the bulk amounts received at the various designated BSPs across each Service Area. Overall, we were able to fully reconcile the power supplied to the various BSPs across the five Service Areas to the total power purchases of 492 million kWh reported by NEDCo for the period October to December 2023. Please refer to *Appendix A2* for a detailed schedule of power supplied to each of the BSPs across the Service Areas for every month covered in our review period.

Accountable energy and distribution losses

Out of the total power purchased of 492 million kWh, management reports indicate that NEDCo was able to account for only 331 million kWh as either billed energy, power consumption for street/public lighting or recoveries from illegal consumption, which together, represents what management refers to as Accountable Power. The Accountable Power represents 67% of the total power purchased, with distribution losses accounting for the remaining 33%. Our analysis indicates that the Northern Service Area, which accounted for the highest proportion of the bulk power receipts from VRA at 36%, was the highest in terms of distribution loss ratio at 50.7% with Sunyani recording the second highest distribution loss of 20.2%.

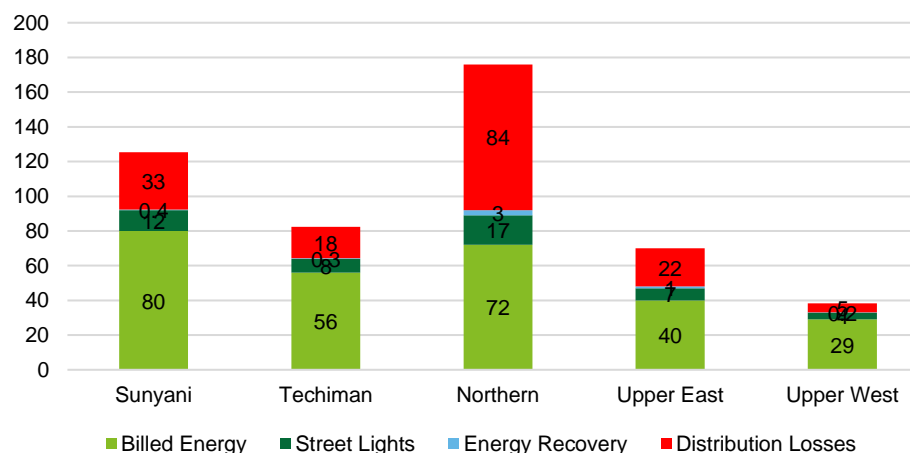
Figure 2 depicts the total power supplied to each Service Area and analysis of same into various components (billed energy, streetlights, illegal consumption and distribution losses)

Accountable energy and distribution losses (cont'd)

According to management, the distribution losses are made up of technical and commercial losses, although management was unable to split the distribution losses reported into the technical and commercial components. Technical losses occur during the distribution of power from NEDCo to customers, while commercial losses relate to power distributed to customers that is not recovered. Commercial losses may be occasioned by several factors, including illegal connections, faulty meters, customers' inability or unwillingness to pay for power consumed etc.

Out of the total power purchased over the period reviewed, NEDCo reported a billed energy of 277.2 million kWh, which represents 56.3% of the total power purchased from VRA. Power consumption due to public/street lighting and recoveries from illegal consumption accounted for 10% and 1% of the total power purchased, respectively.

Figure 2: Analysis of power purchases by service area (millions of kWh)



Source: Management Information & Deloitte Analysis



Revenue and cash collection

Executive Summary	5
Power purchases and distribution	14
Revenue and cash collection	17
Statutory and supplier payments	25
Appendices	28



Revenue and cash collection | Overview

For the period October to December 2023, NEDCo reported total revenue of GHS494.1 million as against cash collections of GHS878.0 million, representing 177.7% of the total revenue. About 54.4% of the total cash collections represent credit notes received from VRA

Table 8: Summary of revenue and collection - NEDCo

Summary of revenue and collection - NEDCo

Service Area	Billed to Prepaid Customers	Billed to Post-paid Customers	Total Billed Energy (kWh) (C=A+B)	Billed to Pre-paid Customers	Billed to Post-paid Customers	Total Billed Energy (GHS) (F=D+E)	Collection from Pre-paid Customers	Collection from Post-paid Customers	Total Collections (GHS) (I=G+H)	Collection % of billings	Consumption %
	(kWh) (A)	(kWh) (B)		(GHS) (D)	(GHS) (E)		(GHS) (G)	(GHS) (H)			
Sunyani	38,129,839	41,431,857	79,561,696	67,951,743	72,511,120	140,462,863	69,570,131	302,954,352	372,524,483	265.2%	28.7%
Techiman	33,301,712	23,124,340	56,426,052	58,782,676	39,912,121	98,694,797	60,251,932	53,794,505	114,046,437	115.6%	20.4%
Northern	30,062,609	44,165,950	74,228,559	55,636,154	79,165,627	134,801,781	61,068,710	150,607,096	211,675,807	157.0%	26.8%
Upper East	22,009,258	18,055,288	40,064,546	39,880,817	31,947,586	71,828,403	42,353,695	45,841,705	88,195,400	122.8%	14.5%
Upper West	17,221,758	9,681,111	26,902,869	29,651,277	18,645,137	48,296,413	30,936,550	60,595,155	91,531,706	189.5%	9.7%
Grand total	140,725,175	136,458,546	277,183,721	251,902,667	242,181,591	494,084,258	264,181,019	613,792,813	877,973,832	177.7%	100.0%

Source: Management Information & Deloitte Analysis

NEDCo's billed energy, revenue and cash collection

As presented in table 8 above, NEDCo total billed energy for the period October to December 2023 amounted to about 277.2 million kWh, with Sunyani and Northern areas, together, accounting for 55.5% of the total billed energy over the period.

The total kWh of billed energy over the period October to December 2023 translated into total revenue of GHS494.1 million with Northern and Sunyani areas accounting for 55.7% of the total revenue billed.

When analysed by customer type, prepaid customers accounted for 50.8% of power consumed and 51.0% of revenue generated, while post-paid customers accounted for 49.2% of power consumed, translating into 49.0% of the total revenue billed over the period October to December 2023. A more detailed breakdown of power consumption and billings per Service Area has been presented in Appendix A3 of this report.

In terms of cash collection, NEDCo reported total cash collection of GHS878.0 million over the period October to December 2023, with cash collected from postpaid customers accounting for 69.9% of the total.

NEDCo's billed energy, revenue and cash collection (cont'd)

When analysed by Service Areas, Sunyani accounted for the highest cash collection ratio at 265.2% of the billed revenue, whilst Upper West, Northern, and Upper East recorded cash collection to billings ratios of 189.5%, 157.0%, and 122.8% respectively. The lowest ratio was recorded in Techiman at 115.6%. We note that overall, NEDCo accounted for collection rate at 177.7%. This has mainly resulted from credit notes received from the VRA in respect of power consumed by MDAs over the period October 2021 to March 2022, and payment on account for MDA's in respect of 2023 billing cycles. The credit notes have been captured by NEDCo as collections received over the review period but in substance, the allocated notes mainly relates to billing outside of the review period of October to December 2023.

To validate the billed energy and revenue reported by NEDCo, we performed a walk-through test of the power billing and revenue accounting software in use at NEDCo to ascertain the accuracy of management's assertions about how the system has been configured to account for revenue. In performing the systems testing procedures, we used sample transactions to recalculate revenue data generated from the system and have so far noted no exceptions. Refer to the tables in Appendix A3 for detailed breakdown of the billed power (in both kWh and GHS) and cash collections for each of the five Service Areas noted in Table 8 above.



Revenue and cash collection | Overview

Based on our review of bank statements for collection accounts provided by management of NEDCo, we noted total cash collection of GHS393.2 million and total credit note of GHS468.8 million, which is about 1.82% lower than the total cash collections reported by NEDCo for the period under review

Table 9: Summary of validated cash collection - NEDCo

Cash validated from bank statements and credit notes						
Service Area	Source	Oct 2023	Nov 2023	Dec 2023	Total	Variance
Sunyani	Cash from bank statements (A)	39,830,545	32,703,363	45,794,271	118,328,180	
	Credit note (B)	-	-	188,968,952	188,968,952	
	Cash per management report (C)	42,950,581	37,703,744	291,870,158	372,524,483	
	<i>Difference noted (A+B-C)</i>	<i>(3,120,035)</i>	<i>(5,000,381)</i>	<i>(57,106,935)</i>	<i>(65,227,351)</i>	(17.51%)
Techiman	Cash from bank statements (A)	19,993,090	22,034,428	18,516,562	60,544,080	
	Credit note (B)	-	-	30,240,712	30,240,712	
	Cash per management report (C)	33,350,148	27,057,355	53,638,934	114,046,437	
	<i>Difference noted (A+B-C)</i>	<i>(13,357,058)</i>	<i>(5,022,927)</i>	<i>(4,881,660)</i>	<i>(23,261,645)</i>	(20.40%)
Northern	Cash from bank statements (A)	34,143,655	30,304,574	28,342,726	92,790,955	
	Credit note (B)	-	-	153,539,734	153,539,734	
	Cash per management report (C)	38,381,557	28,035,154	145,259,095	211,675,807	
	<i>Difference noted (A+B-C)</i>	<i>(4,237,902)</i>	<i>2,269,419</i>	<i>36,623,365</i>	<i>34,654,883</i>	16.37%
Upper East	Cash from bank statements (A)	20,501,551	21,350,429	16,233,039	58,085,019	
	Credit note (B)	-	-	31,800,640	31,800,640	
	Cash per management report (C)	22,329,862	19,224,131	46,641,407	88,195,400	
	<i>Difference noted (A+B-C)</i>	<i>(1,828,311)</i>	<i>2,126,297</i>	<i>1,392,272</i>	<i>1,690,258</i>	1.92%
Upper West	Cash from bank statements (A)	15,862,604	14,387,228	13,269,544	43,519,376	
	Credit note (B)	-	-	64,281,427	64,281,427	
	Cash per management report (C)	15,947,630	12,879,433	62,704,642	91,531,706	
	<i>Difference noted (A+B-C)</i>	<i>(85,026)</i>	<i>1,507,795</i>	<i>14,846,329</i>	<i>16,269,098</i>	17.77%
Mobile Money	Validated Momo (A)	3,994,827	3,836,094	5,063,270	12,894,191	<i>n/a</i>
Cheque Deposits	Validated Cheque Deposits (A)	3,000,000	1,500,000	2,500,000	7,000,000	<i>n/a</i>
Consolidated	Validated cash from bank statements (A)	137,326,273	126,116,116	129,719,412	393,161,801	
	Credit note (B)	-	-	468,831,465	468,831,465	
	Cash per management report (C)	152,959,778	124,899,818	600,114,236	877,973,832	
	<i>Difference noted (A+B-C)</i>	<i>(15,633,505)</i>	<i>1,216,297</i>	<i>(1,563,359)</i>	<i>(15,980,567)</i>	(1.82%)

Refer to Appendix A5 for details of validated cash collection for each area

Refer to Appendix A4 for breakdown of cheque deposits

Source: Management Information & Deloitte Analysis

Project Power II – Final Report - 14 January 2025

Validation of NEDCo's cash collections

- Table 9 summarizes the results of our cash validation work covering the period October to December 2023. Based on the information provided by management and our review of same, we noted total cash collections of c.GHS877 million over the period October to December 2023. This is higher compared to the total cash of c.GHS862 million validated for the same period, indicating an unreconciled difference of c.GHS1.31 million. Whilst this indicates potential understatement of the reported cash collections over the period October to December 2023, management indicated that the difference is likely to have resulted from timing differences between date on which the billing system records cash receipts from customers and when these cash receipts are banked. Aside the high-level explanation provided by management, management has been unable to assist in reconciling the difference noted.
- When analyzed by Service Areas, the Techiman Area recorded the highest variance of 20.40%, whilst Upper West, Sunyani and Northern areas recorded variances of 17.77%, 17.51% and 16.37%, respectively.
- During our validation process, we noted from discussions with management that NEDCo has an arrangement with Broad Spectrum Limited, an electronic payments service provider and Telecel Ghana for the aggregation of all mobile money payments, which are then transferred in bulk to the Company's current account at GCB Bank. These were included in our validated cash collections.
- Management of NEDCO also provided evidence of credit notes from VRA in respect of MDAs outstanding bills for the period October 2021 - March 2022 and full year 2023 billing cycles. We have included these in the validated cash collections.
- Additionally, management indicated that organisations such as the Ghana Water Company Limited (GWCL), and K-NET issue cheque payments for power consumption which are directly deposited into NEDCo's Head Office current accounts (SG and Ecobank accounts). We have also included these in the validated cash collections.
- We noted that NEDCo does not operate a Single Collection Account where all cash collections from power sales across the five Service Areas under NEDCo are transferred. We however noted instances of bulk transfers into the Northern Area power sales account from other accounts mapped to the other Service Areas, although management confirmed that this account is not operated as a Single Collection Account.



Revenue and cash collection | Sunyani

For the period October - December 2023, NEDCo reported revenue of GHS140.5 million for the Sunyani Area, which represents 28.4% of its total revenue. The corresponding cash collection amounted to GHS372.5 million (which amounts to c.265.2% of revenue)

Table 10: Summary of revenue and collection – Sunyani Service Area

Summary of revenue and collection - Sunyani Area											
	Billed to Prepaid Customers (kWh) (A)	Billed to Post-paid Customers (kWh) (B)	Total Billed Energy (kWh) (C=A+B)	Billed to Pre-paid Customers (GHS) (D)	Billed to Post-paid Customers (GHS) (E)	Total Billed Energy (GHS) (F=D+E)	Collection from Pre-paid Customers (GHS) (G)	Collection from Post-paid Customers (GHS) (H)	Total Collections (GHS) (I=G+H)	% of billings (I=C)	Consumption % (I=F)
Sunyani	21,647,518	7,540,499	29,188,017	37,231,679	14,152,124	51,383,802	37,618,632	88,896,496	126,515,128	246.2%	36.7%
Berekum	5,450,306	3,615,894	9,066,200	9,766,378	6,093,003	15,859,381	10,011,639	27,909,884	37,921,522	239.1%	11.4%
Dormaa	1,228,003	3,082,076	4,310,079	2,334,594	5,222,339	7,556,933	2,541,874	5,152,706	7,694,580	101.8%	5.4%
Tepa	907,833	3,013,170	3,921,003	1,700,550	5,418,411	7,118,960	1,789,200	143,516,866	145,306,066	2041.1%	4.9%
Hwidiem	1,534,336	4,026,243	5,560,579	2,978,318	7,824,632	10,802,949	3,019,622	8,868,315	11,887,937	110.0%	7.0%
Mim	646,144	3,897,691	4,543,835	1,221,189	6,655,425	7,876,614	1,284,857	6,338,606	7,623,463	96.8%	5.7%
Goaso	2,135,705	1,612,018	3,747,723	3,826,041	3,007,862	6,833,904	4,005,924	3,129,848	7,135,771	104.4%	4.7%
Duayaw Nkwanta	763,997	2,180,455	2,944,452	1,422,122	3,657,005	5,079,127	1,453,362	3,285,049	4,738,411	93.3%	3.7%
Bechem	555,322	1,561,608	2,116,930	1,053,921	2,555,521	3,609,442	1,058,223	2,672,570	3,730,794	103.4%	2.7%
Drobo	361,006	2,502,523	2,863,529	703,559	4,093,017	4,796,576	725,266	2,683,809	3,409,076	71.1%	3.6%
Sampa	408,769	2,240,698	2,649,467	839,438	3,575,235	4,414,673	949,550	2,602,889	3,552,438	80.5%	3.3%
Wamfie	347,426	2,019,439	2,366,864	668,435	3,305,413	3,973,848	691,295	2,193,595	2,884,890	72.6%	3.0%
Kukuom	435,257	1,486,025	1,921,282	1,064,674	2,572,611	3,637,284	1,170,810	1,462,445	2,633,255	72.4%	2.4%
Nkrankwanta	339,397	1,173,852	1,513,249	688,710	1,953,743	2,642,453	729,144	2,100,097	2,829,241	107.1%	1.9%
Kenyasi	1,368,820	1,479,666	2,848,486	2,452,136	2,424,781	4,876,916	2,520,734	2,141,177	4,661,911	95.6%	3.6%
Grand total	38,129,839	41,431,857	79,561,696	67,951,743	72,511,120	140,462,863	69,570,131	302,954,352	372,524,483	265.2%	100.0%

Source: Management Information & Deloitte Analysis

Sunyani Area revenue and cash collection

In total, the Sunyani Service Area accounted for 79.6 million kWh of power consumed by NEDCo's customers. This represents 28.7% of the total energy billed by NEDCo over the period October to December 2023. Out of a total of 15 service stations in the Sunyani catchment area, two towns – Sunyani and Berekum – together, accounted for 48.1% of the total power consumed within the Sunyani Service Area. This suggests that power consumption within the Sunyani Service Area is significantly concentrated in these two towns.

For the Sunyani Service Area, total power billed to post-paid customers amounted to 41.4 million kWh over the period October to December 2023. This represents 52.1% of the total billed energy for the Sunyani Service Area. In terms of revenue, the post-paid customers accounted for GHS72.5 million over the same period, which represents 51.6% of the total revenue.

Sunyani Area revenue and cash collection (cont'd)

In terms of cash collections, the Sunyani Service Area accounted for a total of GHS372.5 million, which represents 42.4% of the total cash collections over the period October to December 2023. Although pre-paid customers accounted for only 47.9% of the total billed energy in kWh, cash collected from pre-paid customers amounted to GHS69.6 million and constituted 18.7% of the total cash collections within the Sunyani Service Area.

Overall, total cash collections as a % of billed revenue for the Sunyani Service Area was 265.2% over the period October to December 2023. When ranked based on the ratio of cash collection to billed revenue, Tepa and Sunyani towns recorded the two highest ratios at 2041.1% and 246.2%, respectively. At the bottom of the rank are Drobo and Kukuom towns with 71.1% and 72.4%, respectively.



Revenue and cash collection | Techiman

For the period October-December 2023, NEDCo reported revenue of GHS98.7 million for the Techiman Area, which represents 20.0% of its total revenue. The corresponding cash collection amounted to GHS114.0 million (c.115.6% of revenue)

Table 11: Summary of revenue and collection – Techiman Service Area

Summary of revenue and collection - Techiman

Techiman	Billed to Prepaid Customers (kWh) (A)	Billed to Post-paid Customers (kWh) (B)	Total Billed Energy (kWh) (C=A+B)	Billed to Pre-paid Customers (GHS) (D)	Billed to Post-paid Customers (GHS) (E)	Total Billed Energy (GHS) (F=D+E)	Collection from Pre-paid Customers (GHS) (G)	Collection from Post-paid Customers (GHS) (H)	Total Collections (GHS) (I=G+H)	Collection % of Consumption %
Techiman	13,952,740	4,988,111	18,940,851	24,298,072	8,589,696	32,887,768	24,937,100	26,624,038	51,561,138	156.8% 33.6%
Wenchi	3,382,462	1,298,524	4,680,986	5,936,894	2,280,313	8,217,207	6,036,676	3,055,923	9,092,599	110.7% 8.3%
Kintampo	2,946,400	1,734,186	4,680,585	5,157,597	3,094,170	8,251,767	5,239,801	3,204,895	8,444,696	102.3% 8.3%
Akumadan	1,214,848	1,126,043	2,340,891	2,110,789	1,947,245	4,058,034	2,169,500	1,585,435	3,754,934	92.5% 4.1%
Nkoranza	2,216,922	2,182,994	4,399,916	4,330,022	3,577,858	7,907,880	4,562,459	3,435,546	7,998,005	101.1% 7.8%
Ejura	3,064,628	1,390,542	4,455,170	5,245,976	2,398,984	7,644,960	5,408,296	2,468,916	7,877,212	103.0% 7.9%
Atebubu	1,562,444	2,248,518	3,810,962	2,835,329	3,795,753	6,631,082	2,886,165	3,023,897	5,910,061	89.1% 6.8%
Kwame Danso	481,262	1,057,093	1,538,355	889,060	1,762,576	2,651,636	905,586	1,547,284	2,452,870	92.5% 2.7%
Yeji	1,040,161	1,554,815	2,594,976	1,830,295	2,826,353	4,656,648	1,850,637	2,637,093	4,487,730	96.4% 4.6%
Nsawkaw	477,220	2,869,427	3,346,647	859,647	5,366,868	6,226,515	861,511	1,926,607	2,788,119	44.8% 5.9%
Bamboi	950,556	331,264	1,281,820	1,750,800	513,430	2,264,230	1,782,196	408,095	2,190,291	96.7% 2.3%
Jema	641,056	734,122	1,375,178	1,140,596	1,149,061	2,289,657	1,158,298	1,363,239	2,521,538	110.1% 2.4%
Busunya	185,516	525,680	711,196	331,001	854,347	1,185,348	359,332	718,013	1,077,345	90.9% 1.3%
Sekyre-Dumase	332,909	812,904	1,145,813	600,934	1,303,938	1,904,872	609,915	1,136,777	1,746,692	91.7% 2.0%
Abofour	852,589	270,118	1,122,707	1,465,664	451,529	1,917,193	1,484,461	658,747	2,143,208	111.8% 2.0%
Grand total	33,301,712	23,124,340	56,426,052	58,782,676	39,912,121	98,694,797	60,251,932	53,794,505	114,046,437	115.6% 100.0%

Source: Management Information & Deloitte Analysis

Techiman Area revenue and cash collection

In total, the Techiman Service Area accounted for 56.4 million kWh of power consumed by NEDCo's customers. This represents 20.4% of the total energy billed by NEDCo over the period October to December 2023. Out of a total of 15 service stations in the Techiman catchment area, the Techiman township accounted for 33.6% of the total power consumed within the Techiman Service Area. This suggests that power consumption within the Techiman Service Area is significantly concentrated in Techiman.

For the Techiman Service Area, total power billed to post-paid customers amounted to 23.1 million kWh over the period October to December 2023. This represents 41.0% of the total billed energy for the Techiman Service Area. In terms of revenue, the post-paid customers accounted for GHS39.9 million over the same period, which represents 40.4% of the total revenue.

Techiman Area revenue and cash collection (cont'd)

In terms of cash collections, the Techiman Service Area accounted for a total of GHS114.0 million, which represents 13.0% of the total cash collections over the period October to December 2023. Pre-paid customers accounted for 59.0% of the total billed energy in kWh and cash collected from pre-paid customers constituted 52.8% of the total cash collections within the Techiman Service Area.

Overall, total cash collections as a % of billed revenue for the Techiman Service Area was 115.6% over the period October to December 2023. When ranked based on the ratio of cash collection to billed revenue, Techiman and Abofour towns recorded the two highest ratios at 156.8% and 111.8%, respectively. At the bottom of the rank are Nsawkaw and Atebubu towns with 44.8% and 89.1%, respectively.



Revenue and cash collection | Northern

For the period October-December 2023, NEDCo reported revenue of GHS134.8 million for the Northern Area, which represents 27.3% of its total revenue. The corresponding cash collection amounted to GHS211.7 million (c.157.0% of revenue).

Table 12: Summary of revenue and collection – Northern Service Area

Summary of revenue and collection - Northern

Northern	Billed to		Total Billed Energy (kWh) (C=A+B)	Billed to Pre-paid Customers		Total Billed Energy (GHS) (F=D+E)	Collection from		Total Collections (GHS) (I=G+H)	Collection % of billings	Consumption %
	Prepaid Customers (kWh) (A)	Billed to Post-paid Customers (kWh) (B)		Billed to Pre-paid Customers (GHS) (D)	Billed to Post-paid Customers (GHS) (E)		Pre-paid Customers (GHS) (G)	Post-paid Customers (GHS) (H)			
Tamale	21,582,201	21,393,447	42,975,648	39,075,226	40,568,268	79,643,495	41,558,268	131,340,619	172,898,887	217.1%	57.9%
Yendi	2,362,379	2,164,195	4,526,574	5,132,867	3,953,240	9,086,107	5,645,874	1,911,914	7,557,788	83.2%	6.1%
Pong-Tamale/Savelugu	644,811	2,534,672	3,179,483	1,245,184	4,261,811	5,506,994	1,642,912	2,080,067	3,722,979	67.6%	4.3%
Buipe/Yapei	1,052,550	1,028,862	2,081,412	1,888,171	1,730,096	3,618,267	1,946,130	1,016,792	2,962,921	81.9%	2.8%
Salaga	366,055	1,435,960	1,802,015	657,811	2,490,736	3,148,547	711,296	1,112,233	1,823,529	57.9%	2.4%
Damango	1,235,449	1,146,010	2,381,459	2,104,567	2,167,379	4,271,945	2,305,692	1,095,910	3,401,602	79.6%	3.2%
Gusheigu/Karaga	598,890	1,711,091	2,309,981	1,118,592	2,901,789	4,020,380	1,650,103	1,017,908	2,668,011	66.4%	3.1%
Zabzugu/Tatale	518,512	1,334,392	1,852,904	956,228	2,172,517	3,128,745	1,261,799	1,016,834	2,278,633	72.8%	2.5%
Saboba	244,062	451,115	695,177	473,294	782,321	1,255,615	586,657	555,773	1,142,430	91.0%	0.9%
Bimbilla	275,106	2,873,866	3,148,972	601,278	4,873,316	5,474,594	699,109	1,800,966	2,500,075	45.7%	4.2%
Kete-Krachi	118,842	1,133,897	1,252,739	254,835	1,974,922	2,229,756	318,213	1,631,623	1,949,835	87.4%	1.7%
Tolon/Nyankpala/Kumbungu	365,717	2,754,574	3,120,291	730,331	4,704,857	5,435,189	953,168	1,660,028	2,613,197	48.1%	4.2%
Kpassa	250,468	1,485,600	1,736,068	515,735	2,180,541	2,696,276	590,649	1,590,245	2,180,894	80.9%	2.3%
Kpandai	154,590	1,132,671	1,287,261	286,505	1,830,473	2,116,978	382,840	1,106,379	1,489,219	70.3%	1.7%
Chereponi	175,219	729,512	904,731	351,890	1,215,593	1,567,483	481,359	594,465	1,075,824	68.6%	1.2%
Chinderi	117,758	856,086	973,844	243,639	1,357,768	1,601,408	334,642	1,075,342	1,409,983	88.0%	1.3%
Grand total	30,062,609	44,165,950	74,228,559	55,636,154	79,165,627	134,801,781	61,068,710	150,607,096	211,675,807	157.0%	100.0%

Source: Management Information & Deloitte Analysis

Northern Area revenue and cash collection

In total, the Northern Service Area accounted for about 74.2 million kWh of power consumed by NEDCo's customers. This represents 26.8% of the total energy billed by NEDCo over the period October to December 2023. Out of a total of 16 service stations in the Northern area, Tamale service station accounted for 57.9% of the total power consumed within the Northern Service Area. This suggests that power consumption within the Northern Service Area is significantly concentrated in Tamale.

For the Northern Service Area, total power billed to post-paid customers amounted to 44.2 million kWh over the period October to December 2023. This represents 59.5% of the total billed energy for the Northern Service Area. In terms of revenue, the post-paid customers accounted for GHS79.2 million over the same period, which represents 58.7% of the total revenue.

Northern Area revenue and cash collection (cont'd)

For cash collections, the Northern Service Area accounted for a total of GHS 211.7 million, which represents 24.1% of the total cash collections over the period October to December 2023. Although pre-paid customers accounted for only 40.5% of the total billed energy in kWh, cash collected from pre-paid customers amounted to GHS61.0 million and constituted 28.9% of the total cash collections within the Northern Service Area.

Overall, total cash collections as a % of billed revenue for the Northern Service Area was 157.0% over the period October to December 2023. When ranked based on the ratio of cash collection to billed revenue, Tamale and Saboba towns recorded the two highest ratios at 217.1% and 91.0%, respectively. At the bottom of the rank are Bimbila and Tolon/Nyankpala/Kunbungu towns with 45.7% and 48.1%, respectively.



Revenue and cash collection | Upper East

For the period October-December 2023, NEDCo reported revenue of GHS71.8 million for the Upper East Area, which represents 14.5% of its total revenue. The corresponding cash collection amounted to GHS88.2 million (c.122.8% of revenue)

Table 13: Summary of revenue and collection – Upper East Service Area

Summary of revenue and collection - Upper East Service Area											
Upper East	Billed to Prepaid Customers (kWh) (A)	Billed to Post-paid Customers (kWh) (B)	Total Billed Energy (kWh) (C=A+B)	Billed to Pre-paid Customers (GHS) (D)	Billed to Post-paid Customers (GHS) (E)	Total Billed Energy (GHS) (F=D+E)	Collection from Pre-paid Customers (GHS) (G)	Collection from Post-paid Customers (GHS) (H)	Total Collections (GHS) (I=G+H)	Collection % of billings	% of Consumption
Bolga	9,971,353	4,470,614	14,441,967	17,993,289	8,458,433	26,451,722	18,786,434	22,801,952	41,588,386	157.2%	36.0%
Bawku	1,785,900	1,762,205	3,548,105	3,163,824	3,134,522	6,298,346	3,265,923	2,367,766	5,633,690	89.4%	8.9%
Navrongo	2,839,084	2,435,500	5,274,584	5,070,699	4,558,304	9,629,003	5,687,769	5,963,976	11,651,745	121.0%	13.2%
Zebilla	1,176,393	1,180,953	2,357,346	2,152,719	2,040,557	4,193,276	2,333,155	2,191,293	4,524,448	107.9%	5.9%
Garu	776,059	639,774	1,415,833	1,441,391	1,060,353	2,501,744	1,459,795	880,979	2,340,774	93.6%	3.5%
Walewale	1,425,446	1,988,414	3,413,860	2,605,741	3,373,922	5,979,663	2,735,881	2,898,444	5,634,325	94.2%	8.5%
Sandema	975,064	724,642	1,699,706	1,809,775	1,264,463	3,074,238	1,918,739	1,435,228	3,353,967	109.1%	4.2%
Chiana	7,679	141,274	148,953	14,445	239,743	254,188	43,852	220,056	263,908	103.8%	0.4%
Gambaga	1,188,248	1,641,044	2,829,292	2,194,843	2,818,960	5,013,803	2,328,450	2,896,358	5,224,808	104.2%	7.1%
Bunkprugu	602,629	612,787	1,215,416	1,067,034	978,769	2,045,803	1,179,893	655,102	1,834,995	89.7%	3.0%
Yagaba	217,111	699,924	917,035	421,310	1,130,153	1,551,463	453,877	944,827	1,398,705	90.2%	2.3%
Bongo	690,007	1,090,720	1,780,727	1,257,750	1,758,117	3,015,866	1,410,672	1,658,649	3,069,322	101.8%	4.4%
Pusiga	354,287	667,437	1,021,724	687,996	1,131,291	1,819,287	749,255	927,074	1,676,329	92.1%	2.6%
Grand total	22,009,258	18,055,288	40,064,546	39,880,817	31,947,586	71,828,403	42,353,695	45,841,705	88,195,400	122.8%	100.0%

Source: Management Information & Deloitte Analysis

Upper East Area revenue and cash collection

In total, the Upper East Service Area accounted for 40.1 million kWh of power consumed by NEDCo's customers. This represents 14.5% of the total energy billed by NEDCo over the period October to December 2023. Out of a total of 13 service stations in the Upper East catchment area, three towns – Bolgatanga, Bawku and Navrongo – together, accounted for 58.1% of the total power consumed within the Upper East Service Area. This suggests that power consumption within the Upper East area is significantly concentrated in these three towns.

For the Upper East Service Area, total power billed to post-paid customers amounted to 18.1 million kWh over the period October to December 2023. This represents 45.1% of the total billed energy for the Area. In terms of revenue, the post-paid customers accounted for GHS31.9 million over the same period, which represents 44.5% of the total revenue.

Upper East Area revenue and cash collection (cont'd)

In terms of cash collections, the Upper East Service Area accounted for a total of GHS88.2 million, which represents 10.0% of NEDCo's total cash collections over the period October to December 2023. Although pre-paid customers accounted for only 54.9% of the total billed energy in kWh, cash collected from pre-paid customers amounted to GHS42.4 million and constituted 48.0% of the total cash collections within the Upper East area.

Overall, total cash collections as a percentage of billed revenue for the Upper East Service Area was 122.8% over the period October to December 2023. When ranked based on the ratio of cash collection to billed revenue, Bolgatanga, Navrongo, Sandema, and Zebilla towns recorded the four highest ratios at 157.2%, 121.0%, 109.1% and 107.9%, respectively. At the bottom of the rank are Bawku and Bunkprugu towns with 89.4% and 89.7%, respectively.



Revenue and cash collection | Upper West

For the period October-December 2023, NEDCo reported revenue of GHS48.3 million for the Upper West Area, which represents 9.8% of its total revenue. The corresponding cash collection amounted to GHS91.5 million (c.189.5% of revenue)

Table 14: Summary of revenue and collection – Upper West Service Area

Summary of revenue and collection - Upper East Service Area											
Upper East	Billed to Prepaid Customers (kWh) (A)	Billed to Post-paid Customers (kWh) (B)	Total Billed Energy (kWh) (C=A+B)	Billed to Pre-paid Customers (GHS) (D)	Billed to Post-paid Customers (GHS) (E)	Total Billed Energy (GHS) (F=D+E)	Collection from Pre-paid Customers (GHS) (G)	Collection from Post-paid Customers (GHS) (H)	Total Collections (GHS) (I=G+H)	Collection % of billings	Consumption %
Wa	9,704,669	4,050,188	13,754,856	16,677,977	8,042,978	24,720,955	17,215,723	48,314,319	65,530,041	265.1%	51.1%
Lawra	734,452	570,774	1,305,226	1,237,230	1,168,631	2,405,861	1,248,217	925,765	2,173,982	90.4%	4.9%
Tumu	1,423,558	974,321	2,397,879	2,434,431	1,607,447	4,041,879	2,656,493	2,056,199	4,712,693	116.6%	8.9%
Jirapa	745,887	491,452	1,237,339	1,244,583	1,037,900	2,282,484	1,263,897	1,697,875	2,961,772	129.8%	4.6%
Nadowli	560,233	502,949	1,063,182	971,881	847,933	1,819,814	1,043,110	1,274,057	2,317,167	127.3%	4.0%
Bole	2,482,782	1,354,439	3,837,221	4,355,878	2,977,866	7,333,745	4,612,352	2,398,471	7,010,823	95.6%	14.3%
Nandom	1,080,512	640,728	1,721,240	1,909,137	1,115,049	3,024,186	1,962,323	1,721,704	3,684,027	121.8%	6.4%
Han	209,025	249,819	458,844	358,004	414,939	772,943	392,400	1,005,421	1,397,822	180.8%	1.7%
Issa	139,651	283,892	423,543	215,559	453,729	669,288	257,099	363,060	620,159	92.7%	1.6%
Sawla	140,991	562,549	703,540	246,596	978,664	1,225,260	284,936	838,284	1,123,220	91.7%	2.6%
Grand total	17,221,758	9,681,111	26,902,869	29,651,277	18,645,137	48,296,413	30,936,550	60,595,155	91,531,706	189.5%	100.0%

Source: Management Information & Deloitte Analysis

Upper West Area revenue and cash collection

The Upper West Service Area accounted for about 26.9 million kWh of power consumed by NEDCo's customers. This represents 9.7% of the total energy billed by NEDCo over the period October to December 2023. The Upper West area has 10 total service stations, with the Wa town accounting for 51% of the total power consumed within the Upper West Service Area. Bole and Tumu are the next closest towns, accounting for 14.3% and 8.9% of the total power consumed, respectively.

For the Upper West Service Area, total power billed to post-paid customers amounted to about 9.7 million kWh over the period October to December 2023. This represents almost 36% of the total billed energy for the Upper West Service Area. Similarly, the post-paid customers accounted for GHS18.6 million over the same period, which represents 38.6% of the total revenue.

Upper West Area revenue and cash collection (cont'd)

For cash collections, the Upper West Service Area accounted for a total of about GHS91.5 million, which represents 10.4% of the total cash collections over the period October to December 2023. Pre-paid customers accounted for 33.8% of the total cash collected, amounting to GHS30.9 million. Wa town constituted about 71.6% of the total cash collections within the Upper West Service Area.

Overall, total cash collections as a percentage of billed revenue for the Upper West Service Area was 189.5% over the period October to December 2023. When ranked based on the ratio of cash collection to billed revenue, Wa and Han towns recorded the two highest ratios at 256.1.0% and 180.8%, respectively. At the bottom of the rank is Lawra town with 90.4%.



Statutory and supplier payments

Executive Summary	5
Power purchases and distribution	12
Revenue and cash collection	17
Statutory and supplier payments	25
Appendices	28



Statutory and supplier payments | Supplier payments

Over the period October to December 2023, NEDCo made payments to VRA and GRIDCo totaling GHS198.0 million, which represents 52% of the total bills received over the same period

Table 15: Supplier and regulatory payments – Oct to Dec 2023

Supplier and regulatory payments- Oct 2023 to Dec 2023														
Entities	Power Purchases/Regulatory Bills (GHS'm)				Payments (GHS'm)				Pmt. % of Bills	Outstanding debts (GHS'm)			Months Outstanding	
	Oct-23	Nov-23	Dec-23	Total	Oct-23	Nov-23	Dec-23	Total		Bal b/f	Change	Bal c/f	AMB* (GHS'm)	Indicative Months
<i>Power suppliers:</i>														
VRA	108.4	113.3	96.9	318.7	50.0	65.0	65.0	180.0	56%	2,025.7	138.7	2,164.4	106.2	20.4
GRIDCO	21.2	22.1	20.1	63.4	8.0	8.0	2.0	18.0	28%	572.0	45.4	617.4	21.1	29.2
Subtotal-power suppliers	129.6	135.5	117.0	382.1	58.0	73.0	67.0	198.0	52%	2,597.7	184.1	2,781.8	127.4	21.8
<i>Regulatory entities:</i>														
MOE	4.8	5.0	5.0	14.8	-	-	-	-	0%	5.0	14.8	19.8	4.9	4.0
NEF	3.2	3.3	3.3	9.9	-	-	-	-	0%	(2.8)	9.9	7.0	3.3	2.1
PURC	-	-	-	-	-	-	-	-	n/a	(0.1)	-	(0.1)	-	n/a
GRA	-	-	-	-	6.5	8.7	10.4	25.6	n/a	-	(25.6)	(25.6)	-	n/a
Energy Commission	-	-	-	-	-	-	0.2	0.2	n/a	-	(0.2)	(0.2)	-	n/a
Subtotal- Regulatory	8.0	8.3	8.4	24.7	6.5	8.7	10.6	25.8	104%	2.1	(1.1)	1.0	8.2	0.1
Grand total	137.62	143.81	125.37	406.80	64.48	81.73	77.58	223.80	55%	2,599.85	183.00	2,782.86	135.60	20.52

Billed revenue 160.39 166.20 167.50 494.08
Source: Management Information & Deloitte Analysis

*Average Monthly Bill

Supplier bills and payments

Table 15 above shows the bills received from NEDCo's power suppliers, which include VRA for bulk supply of power and GRIDCo for transmission of the power supplied by VRA to designated BSPs across NEDCo's operational catchment areas. For the 3 months covering October to December 2023, bills received by NEDCo amounted to a total of GHS382.09 million, with VRA's bills accounting for 83.4% of the total, whilst bills received from GRIDCo accounted for 16.6%.

Over the same period, NEDCo made payments to VRA and GRIDCo totaling GHS198.0 million, representing 52.0% of the total bills received. This resulted in a shortfall of GHS184.09 million when matched against the total bills received over the period. The shortfall noted adds up to an opening balance of payables due to the suppliers of GHS2.6 billion as at 30 September 2023 to leave a closing balance of GHS2.8 billion due to suppliers as of 31 December 2023. Whilst about GHS2.2 billion of the total validated balance represents the amount owed to VRA, management provided a reconciliation statement signed by both VRA and NEDCo that indicates that the balance due to VRA as at Dec 2023 is GHS1.6 billion. We have requested for management to assist with a reconciliation between the two positions and this may include third party confirmation from VRA.

Supplier bills and payments (cont'd)

To assess the timeliness and sufficiency of payments made to suppliers over the period reviewed, we calculated the indicative payable period (in months) based on the 3-month run rate. In this regard, we computed an Average Monthly Bill (AMB) received from suppliers over the 3-month period, which is GHS127.36 million. The ratio of outstanding payables due to suppliers as of 31 December 2023 and the AMB provides an indication of the number of months of outstanding payments due to suppliers. As shown in table 15, our analysis indicates that NEDCo, as of 31 December 2023, owed about 22 months' worth of bills payable to its suppliers, with 83.4% due to VRA and 16.6% due to GRIDCo.

The fee component for GRIDCo are made up of the Transmission Service Charges (TSC), TSC1, TSC 2 and Regulatory Levy. However, NEDCO is yet to receive invoices for statutory payment covering the period October-December 2023 from PURC. The Regulatory Levy component of the GRIDCo fees for the period October to December 2023 amounted to GHS4.16m. See *Appendix A4* for a breakdown of the monthly GRIDCo fees.



Statutory and supplier payments | Regulatory payments

For the 3-month period covering October to December 2023, the regulatory bills assessed on NEDCo amounted to a total of GHS24.7 million, with amounts payable to MOE accounting for 60% of the total

Table 15: Supplier and regulatory payments – Oct to Dec 2023 (cont'd)

Supplier and regulatory payments- Oct 2023 to Dec 2023														
Entities	Power Purchases/Regulatory Bills (GHS'm)				Payments (GHS'm)				Pmt. % of Bills	Outstanding debts (GHS'm)			Months Outstanding	
	Oct-23	Nov-23	Dec-23	Total	Oct-23	Nov-23	Dec-23	Total		Bal b/f	Change	Bal c/f	AMB* (GHS'm)	Indicative Months
<i>Power suppliers:</i>														
VRA	108.4	113.3	96.9	318.7	50.0	65.0	65.0	180.0	56%	2,025.7	138.7	2,164.4	106.2	20.4
GRIDCO	21.2	22.1	20.1	63.4	8.0	8.0	2.0	18.0	28%	572.0	45.4	617.4	21.1	29.2
Subtotal-power suppliers	129.6	135.5	117.0	382.1	58.0	73.0	67.0	198.0	52%	2,597.7	184.1	2,781.8	127.4	21.8
<i>Regulatory entities:</i>														
MOE	4.8	5.0	5.0	14.8	-	-	-	-	0%	5.0	14.8	19.8	4.9	4.0
NEF	3.2	3.3	3.3	9.9	-	-	-	-	0%	(2.8)	9.9	7.0	3.3	2.1
PURC	-	-	-	-	-	-	-	-	n/a	(0.1)	-	(0.1)	-	n/a
GRA	-	-	-	-	6.5	8.7	10.4	25.6	n/a	-	(25.6)	(25.6)	-	n/a
Energy Commission	-	-	-	-	-	-	0.2	0.2	n/a	-	(0.2)	(0.2)	-	n/a
Subtotal- Regulatory	8.0	8.3	8.4	24.7	6.5	8.7	10.6	25.8	104%	2.1	(1.1)	1.0	8.2	0.1
Grand total	137.62	143.81	125.37	406.80	64.48	81.73	77.58	223.80	55%	2,599.85	183.00	2,782.86	135.60	20.52
<i>Billed revenue</i>	<i>160.39</i>	<i>166.20</i>	<i>167.50</i>	<i>494.08</i>	<i>*Average Monthly Bill</i>									

Source: Management Information & Deloitte Analysis

Statutory bills and payments

The table 15 above shows the statutory bills assessed on NEDCo over the period October to December 2023. These include bills payable to the Ministry of Energy (MOE), National Electricity Fund (NEF), Public Utilities Regulatory Commission (PURC), and Energy Commission (EC).

For the payables due to MOE and the NEF, these are prescribed in the Energy Sector Levies (Amendment) Act (Act 946). Per the Act, NEDCo is required to pay 3% and 2% of its power sales to MOE and NEF, respectively.

For PURC and Energy Commission, there were no specific requirements in the Act that obligate NEDCo to make any statutory payments. We also did not sight any invoices for statutory payments from PURC and/or EC to NEDCo for the period October to December 2023.

For GRA, NEDCo, as at the date of this report, did not provide information on its financial obligations to GRA over the review period for our assessment.

Statutory bills and payments (cont'd)

We were, thus, unable to assess the total balance of outstanding payments to GRA as of 31 December 2023 and the indicative number of months of payments this translates into.

For the three months covering October to December 2023, the statutory bills assessed on NEDCo amounted to a total of GHS24.7 million, with amounts payable to MOE accounting for 60% of the total. Over the same period, NEDCo made regulatory payments totaling GHS25.8 million representing 104% of the total regulatory bills.

As of the date of this report, NEDCO's management indicated they have not received invoices covering regulatory payments to PURC and Energy Commission to provide same for our review. We were, thus, unable to assess the total balance of outstanding statutory payments as of 31 December 2023 and the indicative number of months of payments this translates into as at 31 December 2023.



Appendices

Executive Summary	5
Power purchases and distribution	14
Revenue and cash collection	17
Statutory and supplier payments	25
Appendices	28



Appendices | A1: NEDCo overview and structure

Northern Electricity Distribution Company (NEDCo) is a wholly owned subsidiary of Volta River Authority (VRA)

Company background

Northern Electricity Distribution Company (NEDCo), formerly known as Northern Electricity Department (NED) of the Volta River Authority (VRA), was established in 1987 to supply safe and reliable electricity to homes and businesses in northern Ghana and neighboring countries. In 1997, it was registered as NEDCo, a wholly owned subsidiary of VRA.

NEDCo's operations cover about 64% of the geographical area of Ghana and had about 1.2 million customers across Ghana as of December 2023.

Customer Segmentation class

NEDCo's customers are segmented into the following segments:

Table 16 : Customer Segregation Class

Customer type	Percentage	YTD Oct Revenue Contribution (%)
Residential customers	83.80%	57.7%
Non-Residential customers	16.19%	33.2%
Special Load Tariff (SLT)	0.01%	9.1%

Source: Management Information & Deloitte Analysis

- **Residential customers:** This customer group uses power for household purposes and are billed under a residential rate which is relatively lower. NEDCo's customers are predominantly residential (c. 83.77%) and these attracts subsidised tariffs for power consumed. According to management, the tariffs charged to residential customers are below NEDCo's average operating cost per unit.
- **Non-Residential customers:** This category consist of commercial consumers and small businesses.
- **Special Load Tariff (SLT):** This Group is made up of industrial consumers, categorised into the following power voltage based on their consumption: Low-Voltage; Medium Voltage and High Voltage.

Customer Segmentation by meter type

NEDCo's customers are also categorised depending on the type of meter assigned to each customer. Currently, NEDCo deploys the following three (3) types of customer meters:

- **Postpaid meters:** Customers on this meter are allowed to consume power on credit and pay later. Meter readers, also known as field agents, are deployed to go and record power consumed by these customers at the end of every month for purposes of billing the customers. NEDCo therefore records receivables in respect of these customers.
- **Smart prepaid meters:** Customers on this meter prepay for power consumed. Payments options include electronic platforms and use of certified vendors. The meters are configured to compute and recognise in revenue the exact power consumed by customers for the month regardless of how much was prepaid for, and this is consistent with the standard accounting principles of revenue recognition.
- **Non-smart prepaid meters:** Like the smart prepaid meters, customers on this meter are allowed to prepay for power consumed, except that the system is currently configured to recognize, immediately and fully, customer prepayments for power as revenue regardless of actual consumption over the period. This is inconsistent with standard accounting principles and leads to overstatement of revenue.

Power supply, transmission and distribution

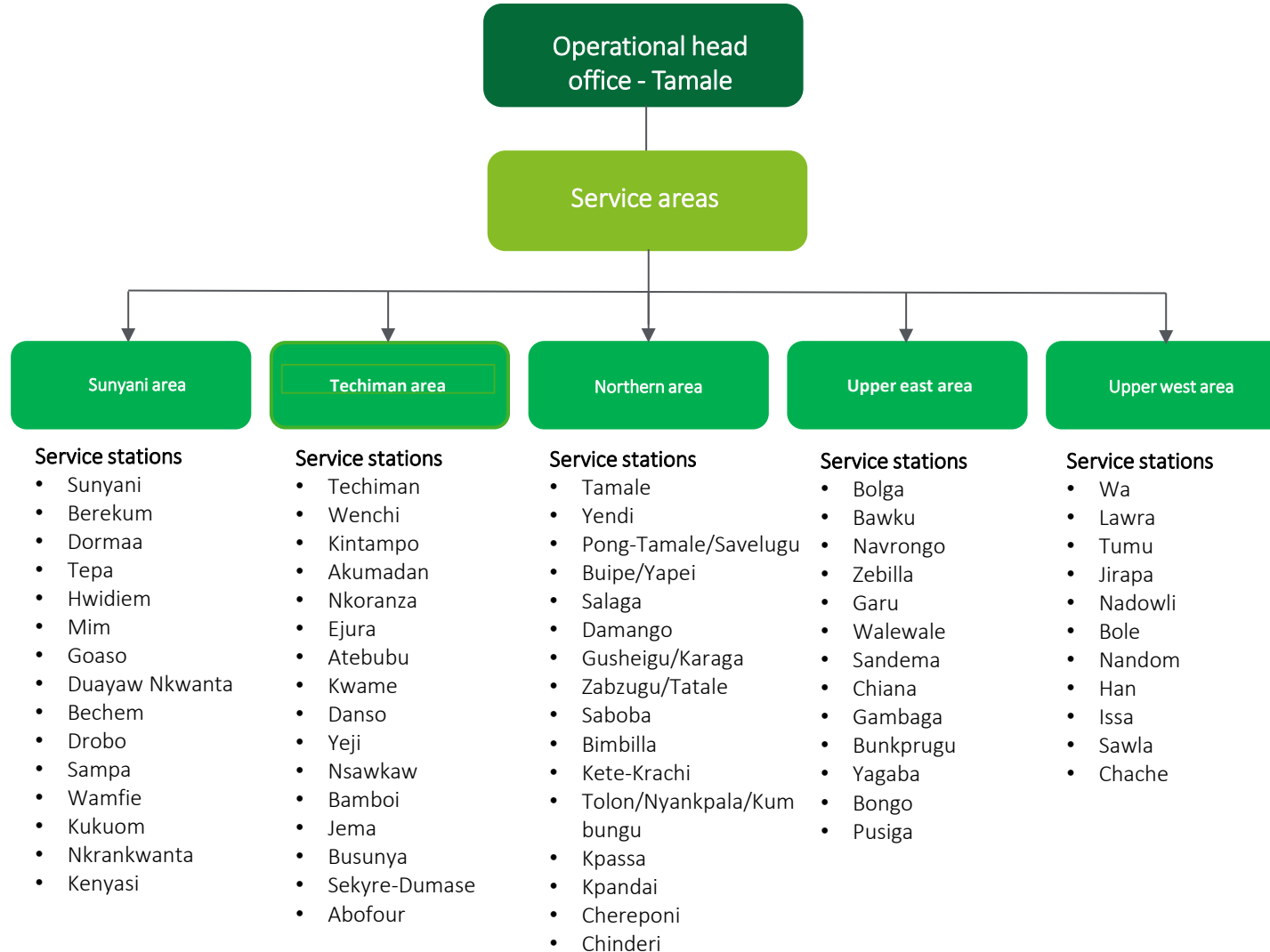
NEDCo currently buys power in bulk solely from VRA, its parent company. The power supplied by VRA is transmitted by the Ghana Grid Company (GRIDCo) to designated Bulk Supply Points (BSPs) across five (5) Service Areas, which makes up the operational area for NEDCo. The 5 Service Areas include: Northern, Techiman, Sunyani, Upper East and Upper West. Each of these areas encompasses a cluster of service stations installed to serve designated towns within a Service Area.

Figure 3 on the next slide shows the operational structure of NEDCo.

Appendices | A1: NEDCo overview and structure

NEDCo distributes power to five operational areas across the northern part of the country

Figure 3: Operational areas across the northern part of the country



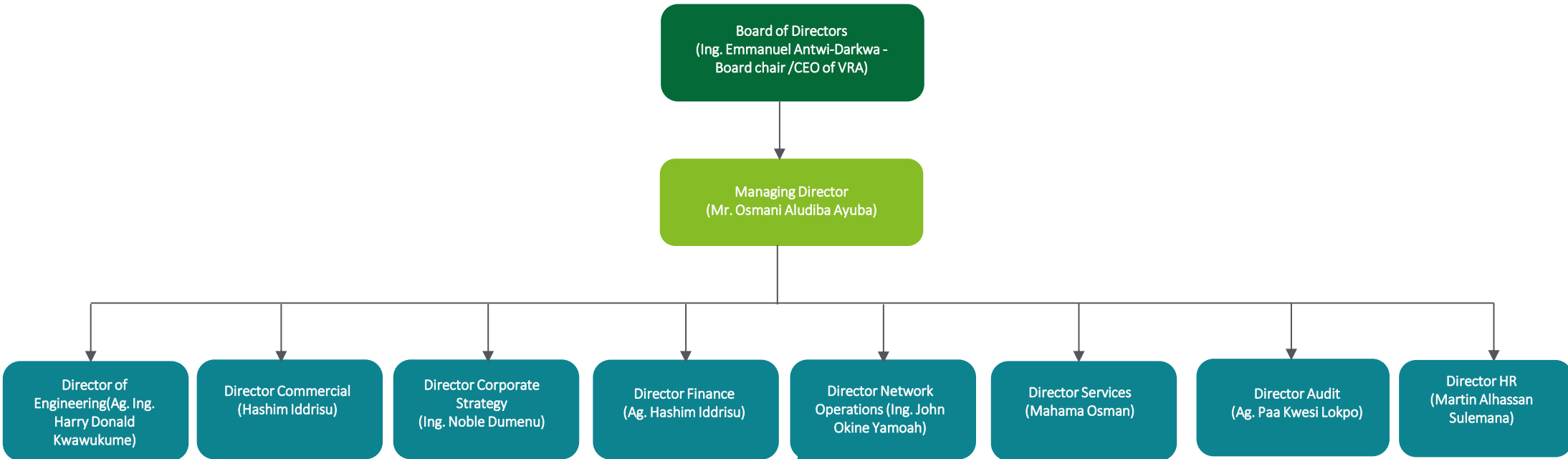
- NEDCo's operations in the regions are managed through five Regional Offices designated as Service Areas in the following cities:
 - Sunyani
 - Techiman
 - Tamale
 - Wa
 - Bolgatanga
- The head office of NEDCo is strategically located in Tamale, the Capital of the Northern Region.
- Each Area is headed by a Manager supported by an Engineer, Finance Officer, Commercial Officer, IT Officer, and a Human Resource Officer.
- NEDCo has service stations under each area that directly serve customers in designated towns.

Source: Management Information

Appendices | A1: NEDCo overview and structure

NEDCo operates a vertical organisational structure whereby the Board of Directors, chaired by the Chief Executive Officer (CEO) of VRA, provides supervision and strategic direction to the Executive Management Team

Figure 4: Management structure



Source: Management Information



Appendices | A2: Power purchases & distribution tables

Power receipts (as noted from schedules attached to signed official invoices) at designated BSPs across the 5 Service Areas

Table 17: Review of VRA invoices for volumes of power purchased

Review of VRA invoices for volumes of power purchased				
Area/Feeder	Oct-23	Nov-23	Dec-23	Total
TECHIMAN				
Techiman	19,448,583.85	20,431,295.05	20,259,286.39	60,139,165.29
Kintampo	7,266,930.00	7,781,630.00	7,454,640.00	22,503,200.00
Sub total				82,642,365.29
SUNYANI				
Sunyani	17,984,198.44	18,557,482.57	17,944,168.38	54,485,849.39
Berekum	10,059,000.00	10,253,500.00	9,881,900.00	30,194,400.00
Mim	13,526,300.00	13,269,900.00	13,501,700.00	40,297,900.00
Sub total				124,978,149.39
NORTHERN				
Tamale	41,343,528.83	44,180,085.42	37,071,900.50	122,595,514.75
Yendi	14,904,520.00	16,470,460.00	14,766,890.00	46,141,870.00
Buie/Yapei	1,153,620.00	954,950.00	963,290.00	3,071,860.00
Sub total				171,809,244.75
UPPER EAST				
Bolga	10,525,270.00	11,130,030.00	9,273,910.00	30,929,210.00
Bawku	7,210,500.00	7,497,726.00	6,420,840.00	21,129,066.00
Navrongo	4,578,830.12	5,014,688.72	4,499,020.48	14,092,539.32
Zebilla	1,170,550.00	1,209,800.00	1,093,530.00	3,473,880.00
Sub total				69,624,695.32
UPPER WEST				
Wa	9,024,120.00	8,947,030.00	7,897,310.00	25,868,460.00
Tumu	1,500,970.00	1,454,050.00	1,229,660.00	4,184,680.00
Sawla	3,691,283.10	3,687,187.90	3,329,195.40	10,707,666.40
Lawra Solar	737,159.00	746,019.00	735,451.00	2,218,629.00
Sub total				42,979,435.40
Grand total	164,125,363.34	171,585,834.66	156,322,692.15	492,033,890.15

Source: Management Information & Deloitte Analysis



Appendices | A3: Revenue & cash collection tables

Table18: Sunyani & Upper West Service Areas

Total billed energy for Sunyani area - Oct to Dec 2023												
Service Station	Total billed energy (kWh)				Total billed energy (GHS)				Total Collections (GHS)			
	Oct-23	23-Nov	23-Dec	Total	Oct-23	23-Nov	23-Dec	Total	Oct-23	23-Nov	23-Dec	Total
Sunyani	9,361,191	9,695,286	10,131,540	29,188,017	16,426,890	17,169,619	17,787,294	51,383,802	14,548,535	15,693,034	96,273,558	126,515,128
Berekum	2,705,912	3,158,983	3,201,305	9,066,200	4,679,644	5,558,541	5,621,196	15,859,381	4,459,999	4,366,557	29,094,965	37,921,522
Dormaa	1,400,376	1,470,066	1,439,638	4,310,079	2,396,165	2,682,327	2,478,441	7,556,933	2,658,548	2,122,073	2,913,959	7,694,580
Tepa	1,264,813	1,263,943	1,392,247	3,921,003	2,324,130	2,304,851	2,489,979	7,118,960	1,940,819	1,509,689	141,855,557	145,306,066
Hwidiem	1,923,362	1,895,566	1,741,651	5,560,579	3,746,631	3,698,455	3,357,863	10,802,949	2,920,418	2,727,061	6,240,458	11,887,937
Mim	1,463,398	1,515,239	1,565,198	4,543,835	2,538,190	2,649,721	2,688,704	7,876,614	3,366,199	2,046,056	2,211,208	7,623,463
Goaso	1,260,711	1,229,033	1,257,979	3,747,723	2,306,425	2,258,982	2,268,496	6,833,904	2,441,940	1,912,173	2,781,658	7,135,771
Duayaw Nkwanta	932,783	1,001,193	1,010,476	2,944,452	1,584,422	1,759,115	1,735,590	5,079,127	1,469,221	1,232,266	2,036,924	4,738,411
Bechem	711,815	677,095	728,021	2,116,930	1,221,905	1,161,224	1,226,313	3,609,442	1,353,677	835,957	1,541,160	3,730,794
Drobo	829,840	964,549	1,069,141	2,863,529	1,383,238	1,630,510	1,782,828	4,796,576	1,403,945	748,755	1,256,376	3,409,076
Sampa	831,875	836,500	981,092	2,649,467	1,375,752	1,394,089	1,644,832	4,414,673	1,482,134	866,441	1,203,863	3,552,438
Wamfie	746,196	805,761	814,908	2,366,864	1,250,603	1,354,636	1,368,609	3,973,848	1,105,469	819,227	960,193	2,884,890
Kukuom	578,272	657,777	685,234	1,921,282	1,055,895	1,300,978	1,280,411	3,637,284	972,476	686,058	974,720	2,633,255
Nkrankwanta	468,280	482,736	562,233	1,513,249	800,984	859,705	981,764	2,642,453	1,076,313	825,510	927,418	2,829,241
Kenyasi	847,593	961,483	1,039,410	2,848,486	1,463,596	1,663,958	1,749,363	4,876,916	1,750,886	1,312,885	1,598,140	4,661,911
Grand total	25,326,415	26,615,208	27,620,073	79,561,696	44,554,469	47,446,712	48,461,683	140,462,863	42,950,581	37,703,744	291,870,158	372,524,483

Total billed energy for Upper West area - Oct to Dec 2023												
Service Station	Total billed energy (kWh)				Total billed energy (GHS)				Total Collections (GHS)			
	Oct-23	23-Nov	23-Dec	Total	Oct-23	23-Nov	23-Dec	Total	Oct-23	23-Nov	23-Dec	Total
Wa	4,657,725	4,786,126	4,311,005	13,754,856	8,477,681	8,657,724	7,585,549	24,720,955	7,875,705	6,479,269	51,175,067	65,530,041
Lawra	350,265	365,170	589,791	1,305,226	617,910	657,541	1,130,410	2,405,861	535,714	495,924	1,142,344	2,173,982
Tumu	768,437	827,881	801,561	2,397,879	1,292,474	1,400,170	1,349,234	4,041,879	1,808,689	1,008,802	1,895,201	4,712,693
Jirapa	431,237	407,844	398,259	1,237,339	821,352	753,842	707,289	2,282,484	767,519	708,367	1,485,886	2,961,772
Nadowli	336,891	368,035	358,255	1,063,182	590,367	629,162	600,284	1,819,814	860,454	472,857	983,856	2,317,167
Bole	1,273,178	1,369,260	1,194,783	3,837,221	2,467,615	2,639,470	2,226,660	7,333,745	1,953,841	2,419,831	2,637,151	7,010,823
Nandom	571,992	611,181	538,068	1,721,240	1,021,821	1,069,726	932,638	3,024,186	957,011	794,304	1,932,712	3,684,027
Han	140,350	157,627	160,867	458,844	236,497	266,191	270,254	772,943	384,307	135,571	877,943	1,397,822
Issa	128,423	164,324	130,796	423,543	200,565	268,530	200,193	669,288	248,928	146,428	224,803	620,159
Sawla	224,057	241,571	237,911	703,540	391,432	423,484	410,345	1,225,260	555,461	218,080	349,679	1,123,220
Grand total	8,882,555	9,299,019	8,721,295	26,902,869	16,117,716	16,765,841	15,412,857	48,296,413	15,947,630	12,879,433	62,704,642	91,531,706

Source: Management Information & Deloitte Analysis

Project Power II – Final Report - 14 January 2025

This written communication is solely for Ministry of Energy's benefit, and is not intended to be relied upon by any other person or entity.



Appendices | A3: Revenue & cash collection tables

Table 19: Upper East & Techiman Service Areas

Total billed energy for Upper East area - Oct to Dec 2023												
Service Station	Total billed energy (kWh)				Total billed energy (GHS)				Total Collections (GHS)			
	Oct-23	23-Nov	23-Dec	Total	Oct-23	23-Nov	23-Dec	Total	Oct-23	23-Nov	23-Dec	Total
Bolga	4,647,319	4,961,967	4,832,681	14,441,967	8,507,214	9,117,831	8,826,677	26,451,722	7,992,636	7,719,609	25,876,142	41,588,386
Bawku	1,221,243	1,137,995	1,188,867	3,548,105	2,214,412	1,994,775	2,089,159	6,298,346	1,508,126	1,177,098	2,948,466	5,633,690
Navrongo	1,693,791	1,845,795	1,734,998	5,274,584	3,149,669	3,361,906	3,117,428	9,629,003	3,169,188	2,346,009	6,136,548	11,651,745
Zebilla	756,780	800,889	799,677	2,357,346	1,364,754	1,422,988	1,405,534	4,193,276	1,389,344	1,239,849	1,895,255	4,524,448
Garu	438,825	497,162	479,845	1,415,833	780,989	862,987	857,767	2,501,744	821,325	615,119	904,329	2,340,774
Walewale	1,085,047	1,074,675	1,254,137	3,413,860	1,903,199	1,874,424	2,202,040	5,979,663	1,765,660	1,808,373	2,060,291	5,634,325
Sandema	558,059	578,396	563,251	1,699,706	1,009,344	1,047,156	1,017,738	3,074,238	980,320	982,665	1,390,982	3,353,967
Chiana	42,741	52,904	53,308	148,953	73,819	90,646	89,723	254,188	75,059	44,062	144,787	263,908
Gambaga	901,880	991,013	936,399	2,829,292	1,616,840	1,728,817	1,668,146	5,013,803	1,677,143	1,241,946	2,305,720	5,224,808
Bunkprugu	334,568	385,485	495,363	1,215,416	559,375	648,853	837,575	2,045,803	617,902	541,922	675,171	1,834,995
Yagaba	272,550	300,077	344,407	917,035	463,107	509,586	578,770	1,551,463	744,028	258,503	396,174	1,398,705
Bongo	580,298	622,397	578,032	1,780,727	976,585	1,051,100	988,182	3,015,866	935,220	844,251	1,289,851	3,069,322
Pusiga	319,689	356,275	345,760	1,021,724	571,424	634,490	613,372	1,819,287	653,911	404,728	617,690	1,676,329
Grand total	12,852,789	13,605,031	13,606,726	40,064,546	23,190,731	24,345,560	24,292,112	71,828,403	22,329,862	19,224,131	46,641,407	88,195,400

Total billed energy for Techiman area - Oct to Dec 2023												
Service Station	Total billed energy (kWh)				Total billed energy (GHS)				Total Collections (GHS)			
	Oct-23	23-Nov	23-Dec	Total	Oct-23	23-Nov	23-Dec	Total	Oct-23	23-Nov	23-Dec	Total
Techiman	6,065,528	5,923,790	6,951,533	18,940,851	10,597,575	10,198,254	12,091,939	32,887,768	11,953,546	9,830,887	29,776,706	51,561,138
Wenchi	1,517,039	1,523,453	1,640,495	4,680,986	2,657,676	2,669,892	2,889,640	8,217,207	2,537,686	2,551,538	4,003,375	9,092,599
Kintampo	1,525,093	1,539,108	1,616,385	4,680,585	2,689,571	2,728,791	2,833,405	8,251,767	2,843,735	2,130,087	3,470,874	8,444,696
Akumadan	724,213	775,746	840,932	2,340,891	1,247,535	1,359,841	1,450,658	4,058,034	1,139,221	1,096,888	1,518,825	3,754,934
Nkoranza	1,535,923	1,554,165	1,309,828	4,399,916	2,791,968	2,846,550	2,269,361	7,907,880	3,063,190	2,721,236	2,213,579	7,998,005
Ejura	1,428,899	1,442,869	1,583,402	4,455,170	2,443,219	2,462,608	2,739,133	7,644,960	2,790,987	2,093,381	2,992,843	7,877,212
Atebubu	1,219,879	1,341,549	1,249,534	3,810,962	2,101,728	2,345,045	2,184,309	6,631,082	2,178,118	1,420,133	2,311,810	5,910,061
Kwame Danso	520,049	503,084	515,222	1,538,355	897,379	865,210	889,047	2,651,636	793,015	684,082	975,773	2,452,870
Yeji	842,915	856,930	895,131	2,594,976	1,704,588	1,445,334	1,506,727	4,656,648	1,532,880	1,099,624	1,855,226	4,487,730
Nsawkaw	991,061	1,078,461	1,277,125	3,346,647	1,661,726	2,115,505	2,449,283	6,226,515	913,455	628,539	1,246,125	2,788,119
Bamboi	383,306	447,602	450,912	1,281,820	630,887	812,448	820,895	2,264,230	688,069	682,750	819,471	2,190,291
Jema	450,819	449,209	475,150	1,375,178	747,721	750,053	791,883	2,289,657	1,086,962	651,816	782,760	2,521,538
Busunya	213,393	243,344	254,459	711,196	359,185	396,677	429,486	1,185,348	397,561	294,175	385,609	1,077,345
Sekyre-Dumase	353,635	380,510	411,668	1,145,813	583,243	633,904	687,724	1,904,872	630,043	531,259	585,390	1,746,692
Abofour	353,286	375,419	394,002	1,122,707	604,790	638,808	673,596	1,917,193	801,679	640,961	700,568	2,143,208
Grand total	18,125,035	18,435,238	19,865,778	56,426,052	31,718,791	32,268,919	34,707,087	98,694,797	33,350,148	27,057,355	53,638,934	114,046,437

Source: Management Information & Deloitte Analysis



Appendices | A3: Revenue & cash collection tables

Table 20: Northern Service Area

Total billed energy for Northern area - Oct to Dec 2023													
Service Station	Total billed energy (kWh)				Total billed energy (GHS)				Total Collections (GHS)				
	Oct-23	23-Nov	23-Dec	Total	Oct-23	23-Nov	23-Dec	Total	Oct-23	23-Nov	23-Dec	Total	
Tamale	14,803,005	14,899,546	13,273,097	42,975,648	27,533,219	27,550,038	24,560,237	79,643,495	22,135,936	17,633,104	133,129,847	172,898,887	
Yendi	1,067,503	1,355,191	2,103,880	4,526,574	1,960,113	2,639,011	4,486,983	9,086,107	2,235,352	1,540,458	3,781,977	7,557,788	
Pong-Tamale/Savelugu	958,138	1,025,658	1,195,688	3,179,483	1,680,752	1,769,219	2,057,023	5,506,994	1,854,967	1,058,000	810,012	3,722,979	
Buipe/Yapei	664,011	685,992	731,409	2,081,412	1,170,389	1,169,501	1,278,377	3,618,267	1,213,609	813,841	935,471	2,962,921	
Salaga	582,384	557,223	662,409	1,802,015	1,014,597	976,807	1,157,143	3,148,547	807,051	454,312	562,165	1,823,529	
Damango	780,585	810,178	790,696	2,381,459	1,396,609	1,474,419	1,400,917	4,271,945	1,424,092	930,638	1,046,871	3,401,602	
Gusheigu/Karaga	884,710	771,910	653,360	2,309,981	1,563,070	1,329,340	1,127,970	4,020,380	1,185,414	767,069	715,527	2,668,011	
Zabzugu/Tatale	657,517	594,142	601,245	1,852,904	1,135,910	993,619	999,216	3,128,745	957,126	739,438	582,069	2,278,633	
Saboba	214,937	235,954	244,286	695,177	393,488	426,022	436,104	1,255,615	488,442	283,866	370,122	1,142,430	
Bimbilla	1,017,349	1,070,561	1,061,062	3,148,972	1,768,518	1,888,027	1,818,050	5,474,594	1,153,991	786,903	559,181	2,500,075	
Kete-Krachi	384,398	400,131	468,211	1,252,739	677,318	712,764	839,674	2,229,756	770,777	679,846	499,213	1,949,835	
Tolon/Nyankpala/Kumbungu	999,745	1,094,619	1,025,928	3,120,291	1,761,939	1,911,960	1,761,290	5,435,189	1,294,008	592,341	726,848	2,613,197	
Kpassa	682,320	515,559	538,189	1,736,068	933,871	866,194	896,210	2,696,276	962,171	553,327	665,396	2,180,894	
Kpandai	462,556	379,132	445,573	1,287,261	767,845	618,208	730,925	2,116,978	776,007	433,360	279,851	1,489,219	
Chereponi	307,571	303,198	293,962	904,731	523,957	524,835	518,691	1,567,483	488,191	277,059	310,574	1,075,824	
Chinderi	319,025	314,918	339,901	973,844	525,231	521,714	554,463	1,601,408	634,424	491,590	283,970	1,409,983	
Grand total	24,785,752	25,013,912	24,428,894	74,228,559	44,806,828	45,371,677	44,623,275	134,801,781	38,381,557	28,035,154	145,259,095	211,675,807	

Source: Management Information & Deloitte Analysis



Appendices | A4: GRIDCo fees & Cheque payment

Table 21: Breakdown of GRIDCo fees

Breakdown of GRIDCo fees				
Month	Transmission service charge (TSC1)	Regulatory levy	TSC2	Total TSC Amount
	GHS	GHS	GHS	GHS
Oct-23	12,470,189	1,389,403	7,324,565	21,184,158
Nov-23	13,037,039	1,452,561	7,657,514	22,147,114
Dec-23	11,889,159	1,317,633	6,843,644	20,050,436
Total	37,396,388	4,159,597	21,825,723	63,381,708

Table 22: Cheque payments

Summary of cheque payments for power consumption				
Date of receipt	Cheque No.	Company	Validated Amount	Bank Account No.
			(GHS)	cheque was validated from
9-Oct	00515731	GWCL	1,500,000	37201002678-7
19-Oct	00515731	GWCL	1,500,000	37201002678-7
24-Nov	00515824	GWCL	1,500,000	37201002678-7
20-Dec	00515951	GWCL	1,000,000	37201002678-7
20-Dec	00515952	GWCL	1,500,000	37201002678-7
Total			7000000	



Appendices | A5: Cash collection tables

Table 23: Sunyani area cash collection

Review of Bank Statements Covering Customer Collections- October 2023 to December 2023 (GHS)							
No.	Bank name	Account no.	Branch	Cash Deposited			Total
				Oct 2023	Nov 2023	Dec 2023	
1	GCB Power Sales	7011130001678	SUNYANI MAIN	34,221,802	26,760,295	41,224,383	102,206,480
2	SG Power Sales	36201000477-1	SUNYANI - 90701	5,608,743	5,943,068	4,569,888	16,121,699
3	Credit Notes			-	-	188,968,952	188,968,952
Total				39,830,545	32,703,363	234,763,224	307,297,132

Table 24: Techiman area cash collection

Review of Bank Statements Covering Customer Collections- Oct 2023 to Dec 2023 (GHS)							
No.	Bank name	Account no.	Branch	Cash Deposited			Total
				Oct 2023	Nov 2023	Dec 2023	
1	GCB Power Sales	7151130003864	Techiman Main	19,993,090	22,034,428	18,516,562	60,544,080
2	Credit notes			-	-	30,240,712	30,240,712
Total				19,993,090	22,034,428	48,757,273	90,784,791

Table 25: Northern area cash collection

Review of Bank Statements Covering Customer Collections- Oct 2023 to Dec 2023 (GHS)							
No.	Bank name	Account no.	Branch	Cash Deposited			Total
				Oct 2023	Nov 2023	Dec 2023	
1	GCB Bank	8011010005518	TAMALE	7,492,406	4,743,681	3,928,677	16,164,764
2	SG Bank	0372010026797	TAMALE	2,547,680	377,350	2,358,800	5,283,830
3	SG Bank	0372010026777	TAMALE	6,679,170	5,437,445	2,841,712	14,958,327
4	ABSA Remittance	033-1122912	TAMALE	10,952,820	6,987,861	8,522,830	26,463,511
5	ADB Remittance	811101024132001	SAVELUGU	477,760	6,584,644	5,813,965	12,876,370
6	Zenith Remittance	6071100259	TAMALE	3,696,533	3,894,548	3,516,124	11,107,205
7	NIB Remittance	1142061442401	UDS	2,297,286	2,279,045	1,360,618	5,936,949
8	Credit Notes			-	-	153,539,734	153,539,734
Total				34,143,655	30,304,574	181,882,460	246,330,689

Source: Management Information & Deloitte Analysis



Appendices | A5: Cash collection tables

Table 26: Upper East area cash collection

Review of Bank Statements Covering Customer Collections- Oct 2023 to Dec 2023 (GHS)							
No.	Bank name	Account no.	Branch	Cash Deposited			Total
				Oct 2023	Nov 2023	Dec 2023	
1	SG GH Power Sales	39201001538-9	Wa	2,357,664	2,324,121	1,928,848	6,610,633
2	GCB Power Sales	0011130004885	Wa	13,504,940	12,063,107	11,340,696	36,908,743
3	Credit Notes			-	-	64,281,427	64,281,427
Total				15,862,604	14,387,228	77,550,971	107,800,803

Table 27: Upper West area cash collection

Review of Bank Statements Covering Customer Collections- Oct 2023 to Dec 2023 (GHS)							
No.	Bank name	Account no.	Branch	Cash Deposited			Total
				Oct 2023	Nov 2023	Dec 2023	
1	SG GH Power Sales	0382010018711	Bolga	15,433,657	15,164,232	10,933,746	41,531,634
2	GCB Power Sales	9011130000681	Bolga	5,067,895	6,186,197	5,299,293	16,553,384
3	Credit Notes					31,800,640	31,800,640
Total				20,501,551	21,350,429	48,033,679	89,885,659

Source: Management Information & Deloitte Analysis



Appendices | A6: Glossary

Glossary of terms

AMB	Average Monthly Bill	NEDCo	Northern Electricity Distribution Company
BSPs	Bulk Supply Points	NEF	National Electrification Fund
EC	Energy Commission	PURC	Public Utilities Regulatory Commission
ESRP	Energy Sector Recovery Program	SG	Societe Generale
GCB	Ghana Commercial Bank	SHS	Senior High School
GHS	Ghana Cedis	SLT	Special Load Tariff
GESTIP	Ghana Energy Sector Transformation Initiative Project	SMS	Short Message Service
GRIDCo	Ghana Grid Company	SoE	State-Owned Energy
GOG	Government of the Republic of Ghana	TSC	Transmission Service Charge
GWCL	Ghana Water Company Limited	MOE	Ministry of Energy
H1/H2 20XX	First Half/Second Half of the Year 202X	NIB	National Investment Bank
kWh	Kilowatt hours	Q1/Q2/Q3/Q4 20XX	First/Second /Third/Fourth Quarter of the Year 20XX
		VRA	Volta River Authority

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