

Koilachaur Sub-Station, Rolpa

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Message from the Managing Director



It has been a wonderful journey of 34 years of continuous service to the nation and people. I am pleased to learn that Distribution and Consumer Services Directorate (DCSD) is publishing its annual magazine on the occasion of NEA's 34th anniversary.

I would like to recognize and appreciate the contribution of all the staffs who sincerely put forth the industrious effort at all situations in elevating the performance of this directorate. Because of such diligent efforts, we have been able to perform as per our commitments and are able to aim higher to serve towards the prosperity of our country.

Progressing towards the new fiscal year, we have new challenges and goals to meet. Load shedding has been completely eliminated from the country and people's aspirations have now shifted towards reliable and quality supply of electricity. Along with that, NEA is working hard to fulfill the national goal of "Electricity for All" and striving to enhance the per capita consumption of electricity. NEA employees worked hard to reduce electricity loss and have been achieving good results in past three years. I am thankful to all the employees for the achievements and more involvement from all levels would ease the tedious task of gaining good results in all sectors.

This publication shows the big picture of the status of the country's distribution system. It gives the reflection of past performance and will help us to direct better in future.

Last but not least, a big congratulation for this publication and I wish more success in coming years to DCSD.

(Kulman Ghising)
Managing Director

Message from the Deputy Managing Director



It gives me great pleasure to present this publication on the occasion of NEA's 34th anniversary. This report showcases the many ways in which we work at local and country level to turn the aims of "Electricity for All" into results.

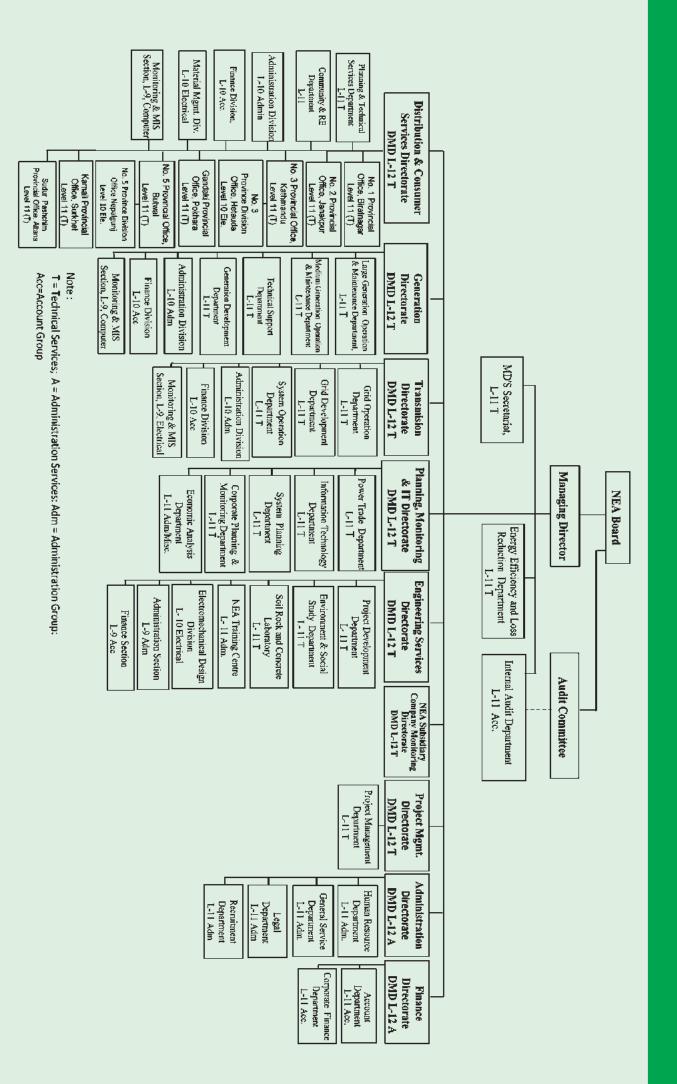
We had a fruitful and encouraging F/Y 2075/76. DCSD saw a remarkable financial and technical improvements. We saw a growth of 15.3% in net collections compared to previous fiscal year. At the same time, we were able to bring down the distribution losses to 11.28% from 14.82%. We added twenty new substations in a year's time to improve service quality and to extend the reach of grid provided electricity to remotely located consumers. In the context to fully electrified Nepal in coming three years, we have introduced new distribution system projects in all the provinces of Nepal.

DCSD has many challenges moving towards the new fiscal year. There are challenges to extend the reach of grid provided electricity to all parts of the country by next three years and to increase the per capita consumption to 700 units by next five years. After the end of load shedding, we are striving to provide reliable and quality electricity for all. We have ended F/Y 2075/76 on a high note and are determined to carry the merry way forward in achieving higher goals in F/Y 2076/77.

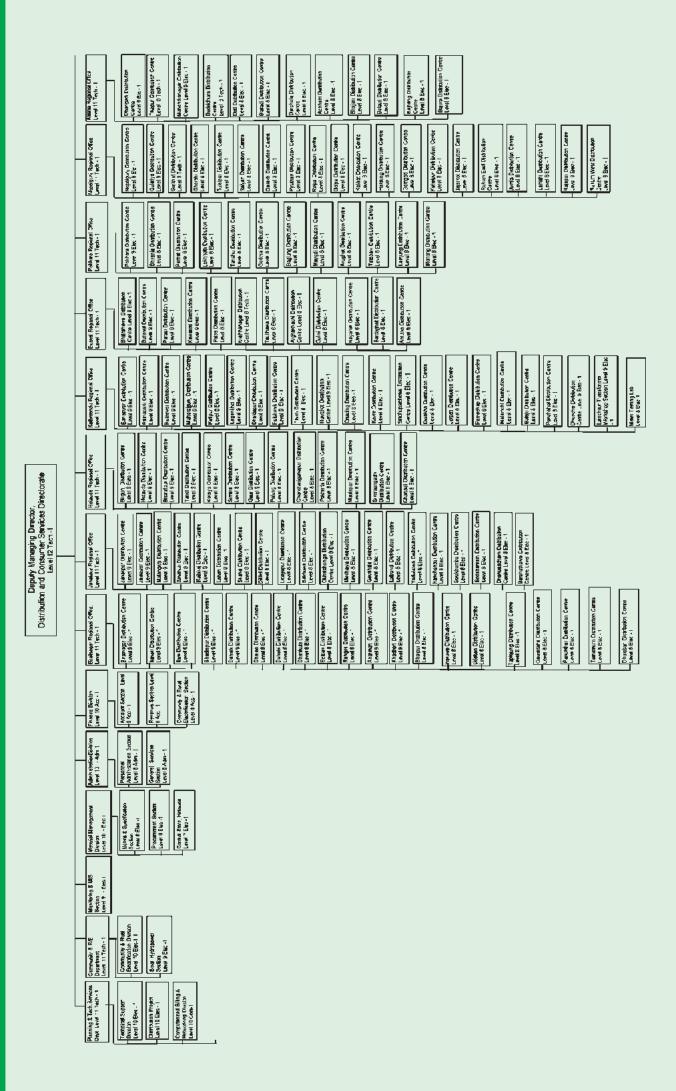
Lastly, I extend my heartful thanks to DCSD team for their hard work and achievements. I wish them success for the future endeavors.

(Hara Raj Neupane) Deputy Managing Director

ORGANIZATION CHART OF NEPAL ELECTRICITY AUTHORITY



ORGANIZATION CHART OF DISTRIBUTION AND CONSUMER SERVICE DIRECTORATE



DISTRIBUTION AND CONSUMER SERVICE TEAM



Hara Raj Neupane Deputy Managing Director Distribution and Consumer Services Directorate



Ramji Bhandari Director Planning & Technical Services Department



Tirpureshwar Purbe Director Community & Rural Electrification Department



Balaram Silwal Chief Administration Division



Nutan Dev Bhattarai Chief Material Management Division



Umesh Kumar Bhandari Chief Finance Division



Manoj Kumar Shah Chief



Sujan Kumar Shrestha Chief Monitoring and MIS Section Computerized Billing & Networking Division

REGIONAL DIRECTOR/CHEIFS



Sachidananda Yadav Chief Biratnagar Regional office



Anirudra Prasad Yadav Chief Kathmandu Regional Office



Om Prakash Mahato Chief Janakpur Regional Office



Suresh Chhetri Chief Pokhara Regional Office



Nabaraj Subedi Chief Butwal Regional Office



Manoj Kumar Singh Chief Nepalgunj & Surkhet Regional Office



Satish Kumar Karn Chief Attaria Regional Office



Shreeram Raj Pandey Chief Hetauda Regional Office

DISTRIBUTION & CONSUMER SERVICES

PROJECT CHIEFS



Jagadish Chandra Joshi Distribution System **Agumentation Project**



Pyaru Rana Grid Solar and Energy Efficiency Project (11 kV Line Expansion)



Bodha Raj Dhakal Distribution System Agumentation Project(B1)



Narayan Kumar Prasai Solu Corridor Rural **Electrification Project**



Manoj Kumar Shah Smart Metering Smart Grid 33 Kv Line Expansion and **Project**



Sandeep Shrestha Rehabilitation Project



Laxman Mandal **GIS Smart Grid Project**



Bikash Bahadur Raghubansi Grid Solar and Energy Efficiency Project (25 MW Solar Firm)



Rishi Kumar Baranwal Parsa 33/11 TL and SS Project



Nanda Kishor Mandal Transformer Testing Lab Construction Project



Prakash Raut Rasuwa-Nuwakot Distribution System Re-Construction and Improvement Project



Bijaya Sen Khadka Distribution System Upgradation and Expansion Project (AIIB)



Chandra Bir Khadka Buipa Okhaldhunga 33kV TL and SS project

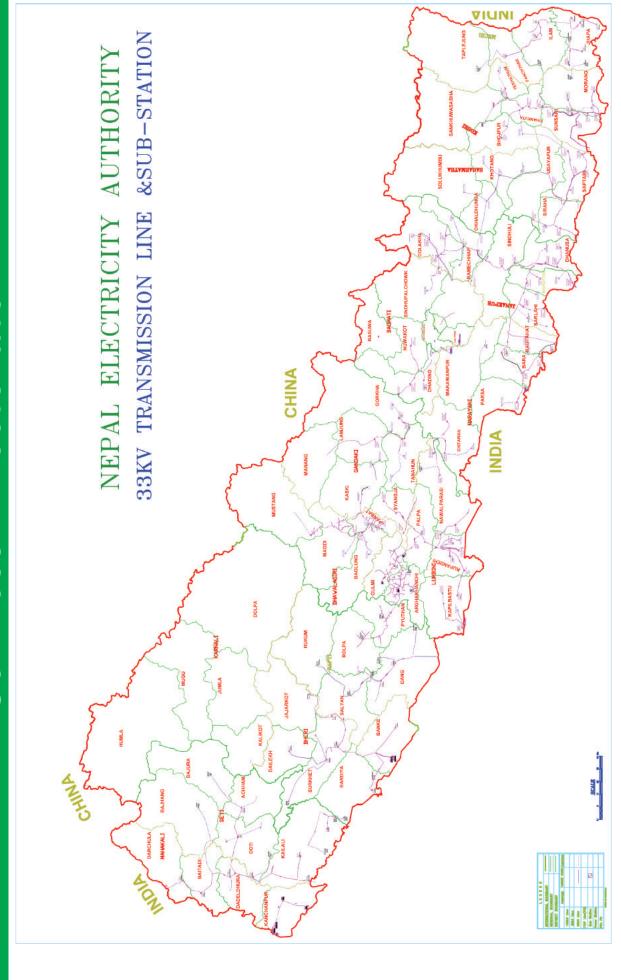


Surendra Chaudhary Mathatirtha Malta/Naubise 33 kV TL and SS project



Yogendra Thakur Nijhgadh-Kohalbi 33 kV Project

Distribution and Consumer Services Directorate



Introduction

Distribution and Consumer Services Directorate (DCSD), the largest directorate of NEA, is striving to provide safe, reliable and quality electricity at affordable price to all its consumers. The directorate is responsible for the overall management of electricity distribution services and networks of NEA including planning, expansion, operation, maintenance, and rehabilitation of the electricity distribution networks and substations up to 33 kV voltage level. In addition, enhancement of the consumer services activities such as new consumer connections, meter reading, billing, revenue collection, customer grievance handling and so forth by introducing new technologies and practices also fall under its jurisdiction.

DCSD has introduced some of the smart meter reading and billing techniques and technologies in most of the DCs. Implementation of a Revenue Billing System (M-power) in 168 Revenue Collection Centers has helped NEA for improved Billing and Revenue collection processes in a modern efficient and cost-effective manner. Introduction of the online payment system from the service providers namely CFS Remit, City Express, eSewa, Himalayan Bank, Mahalaxmi Bank, Nepal Investment Bank, Paypoint Nepal and Prabhu Bank has significantly disburdened The directorate is also encouraging and supporting energy-saving activities and Demand Side Management for the optimal use of electricity. The operation and maintenance of off-grid small hydropower plants also falls under the jurisdiction of this directorate.

DCSD is headed by the Deputy Managing Director and is organized into two departments at central level namely:

- Planning and Technical Service Department
- Community and Rural Electrification Department And, eight Regional Offices (RO) throughout the country viz:

Kathmandu Regional Office Biratnagar Regional Office Janakpur Regional Office Hetauda Regional Office Pokhara Regional Office Butwal Regional Office Nepalgunj Regional Office Attariya Regional office

However, NEA board has already approved to take the Distribution and Consumer Service to Provincial level instead of Regional Level.

The Directorate, at the central level, is further substructured to following Division and Section.

- Administration Division
- Finance Division
- Material Management Division
- Monitoring and MIS Section

These central Departments, Divisions, and Section are responsible for Planning and Managing human resources; Preparing yearly O&M and Capital Budget; Procurement activities; and Planning and Preparation of distribution system expansion programs, preparing and monitoring rural electrification programs respectively. Eight Regional Offices through its distributions centers (DCs) manage the overall distribution and consumer services activities in a more effective and efficient manner.

The Regional Offices are the main interface with the public and after a detailed study of the service facilities provided, many improvements have been effected for the convenience of the customers. The functions of operation, maintenance, and expansion of the distribution system up to 33 kV voltage level and consumer services such as new consumer connections, meter reading, billing, and revenue collection are carried out by various Distribution Centers under Regional Offices. In addition, operation and maintenance of off-grid small hydropower plants also fall under the regional office's jurisdiction. Each regional office is headed by a director/chief and reports to the Deputy Managing Director. There is the provision of technical division headed by a Manager

in each RO which looks after:

- The operation & maintenance of 33/11 kV substation
- Rural electrification activities
- Construction of new 33/11 kV substation and 33 kV lines, and
- Management of small hydropower plants.

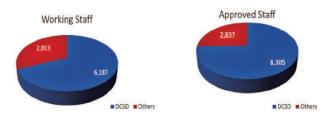
The regional chief is also supported by account and administrative sections in the related matters.

DCSD is the largest directorate of NEA in terms of the number of employees and business activities. Approximately 74.5% of the total staffs of NEA are employed in DCSD. This is also on the forefront to earn revenue for sustaining the operation, maintenance, and development activities of NEA. DCSD is providing services to consumers through its 129 Distribution Centers (DCs) spread over the whole country.

Divisions and Section at Directorate Level

Administration Division

The Administration Division is responsible for human resource management, general administration, coordination with branches and concerned department/regional offices, implementation of management decisions and coordination with other NEA offices. The total numbers of approved position in DCSD are 8,305 out of 11,142, the total approved position of NEA. Whereas the working staff by the end of F/Y 2075/76 is 6187 out of 9000, the total of NEA. Details of employee number is included in Annex 1.



Vehicle management is a big challenge for prompt and efficient service delivery. There are 411 SUV/Pickup Trucks, 125 Crane/Trucks and 65 Two-wheelers being

used by different offices under the Directorate for providing service to consumers. Annex 2 contains the details of vehicles.

Safety of personnel and equipment is a big challenge in NEA and DCSD is worst affected by it. In the F/Y 2075/76, 54 people and 52 animals lost their life due to various electricity injuries. During this period, 58 people got injured due to various electricity mishaps. Details of electricity accidents in the referenced period are listed in Annex 3.

Employees are scheduled for routine trainings and also are deputed for inspection and testing job in and outside the country. In the F/Y 2075/76, two hundred and thirty three (233) employees within DCSD were involved in trainings, inspections and seminars. Out of those, twenty three (23) employees attended events in Nepal, one hundred ninety eight (198) employees attended events in India and seventy five (75) employees attended in other countries. Details are included in Annex 4

Finance Division

The Finance Division at the corporate level is responsible for supervising, monitoring and control of financial transaction recorded in the course of daily business activities. This division comprises of two sections:

- Account Section
- Revenue Section

Account section is assigned with the duties of budgetary control, budget preparation, and cash flow management whereas Revenue section analyzes, consolidates and prepares the monthly and annual revenue statements.

Material Management Division

The Material Management Division (MMD) is responsible for the procurement/management of materials commonly used in the distribution system like Power & Distribution Transformers, Energy Meters, Poles, Instrument Transformers (CT, PT), Cable, Insulators & Hardwares etc. The material are procured through International Competitive Bidding / National Competitive Bidding. It has a central store in Hetauda and most of the procured materials are stored and distributed as per the requirements of ROs and DCs.

In F/Y 2075/76, MMD has received 20 Power Transformers and 625 Distribution Transformers. In the same time frame, 400,500 Steel Tubular Poles and 474,500 Single Phase Meters were procured by MMD. It also procured 1224 HT metering sets. In the same fiscal year, MMD procured 977 km of ABC cable, 72 km of PVC cable and 574 km of XLPE cable.

Monitoring and MIS Section

This section deals with following major activities:

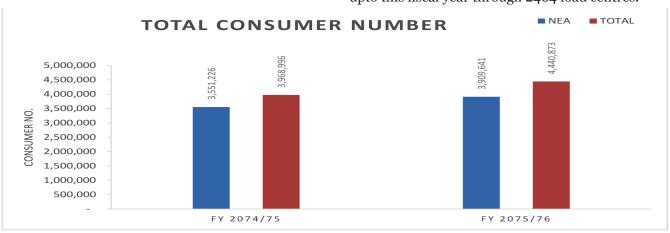
 Preparing annual Rural Electrification Budget for all Regional Offices and get it approved.

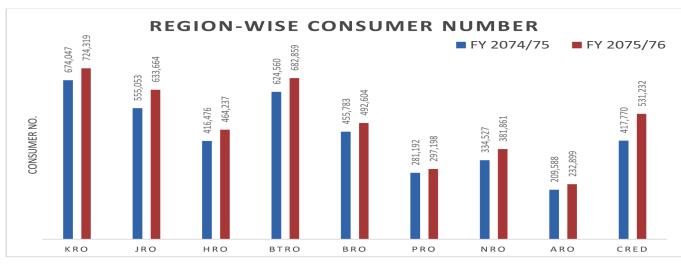
- Collecting all the decisions from DCSD and forwarding them to Regional Offices for execution.
- Preparing programs for all Regional Offices and getting approval from concerned authorities.
- Collecting quarterly, yearly progress reports from all Regional Offices and putting them forward to concerned authorities.

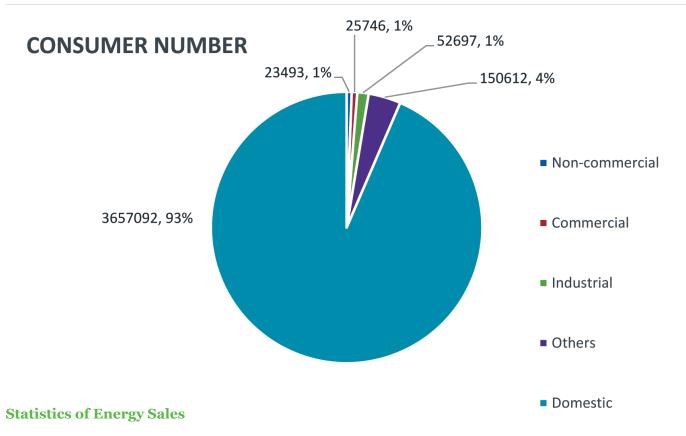
Highlights of the Directorate

Statistics of Consumers

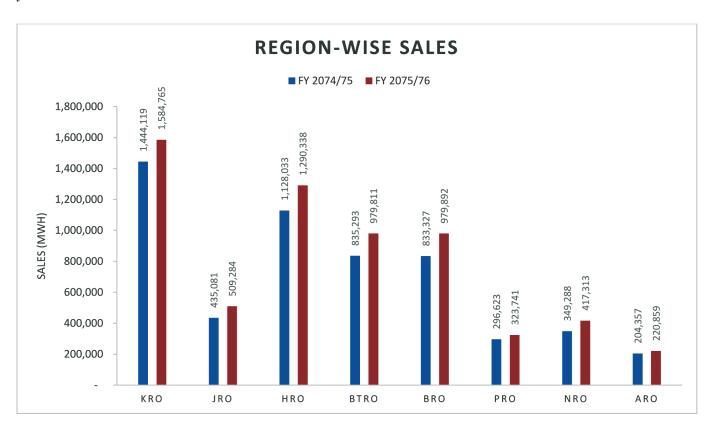
Including consumers of Communities under Community and Rural Electrification Department (CRED), in the fiscal year 2075/76, the total number of NEA consumers reached to 4,440,873 from the number 39,68,996 of the last year with an increase of 10.63%. NEA is providing electricity to 531,232 consumers through 504 Community under CRED upto this fiscal year through 2464 load centres.

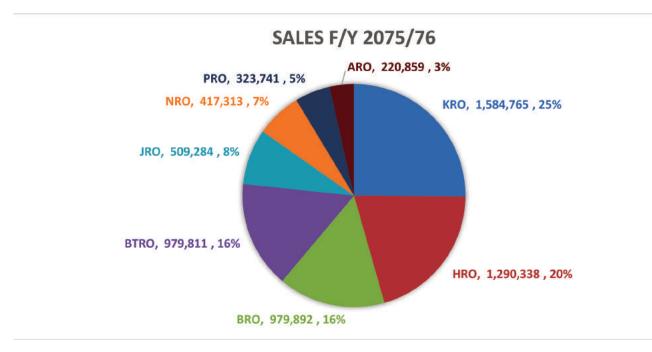






In the F/Y 2075/76, DCSD sold 6,306,002 MWh electricity which is 14.11% higher than that of previous fiscal year.

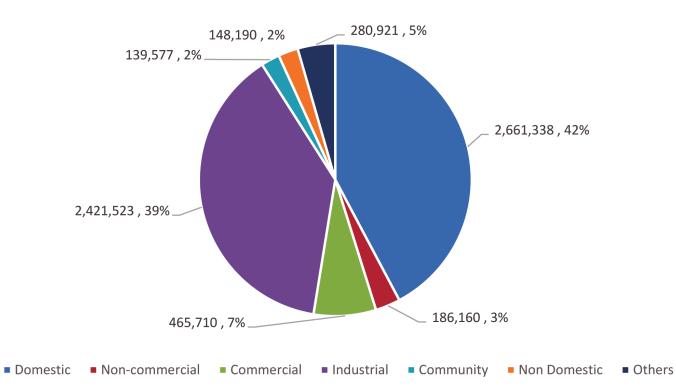




Category wise Consumption

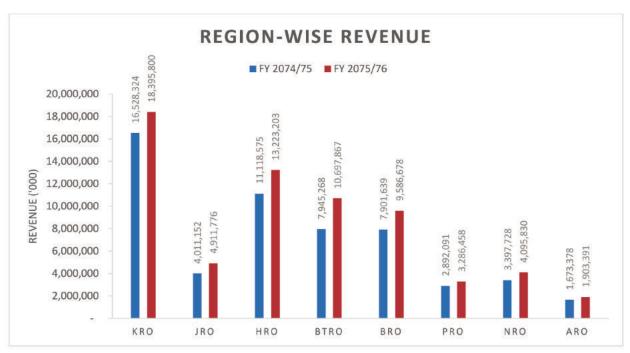
In the F/Y 2075/76, domestic consumption was the highest with 42% share and industrial consumption fared second with 39%.

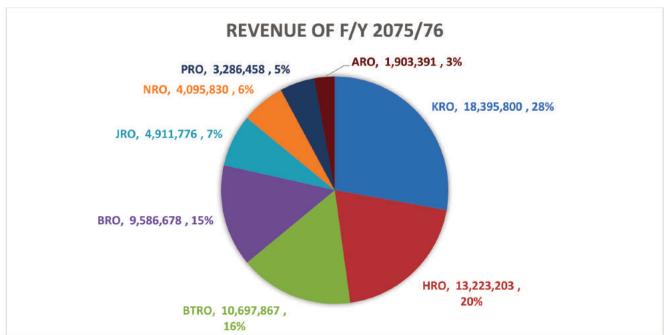
CONSUMPTION (MWh)



Revenue

In the F/Y 2075/76, DCSD collected the revenue of Rs. 66,101 million which is 19.17% higher than that of previous fiscal year.



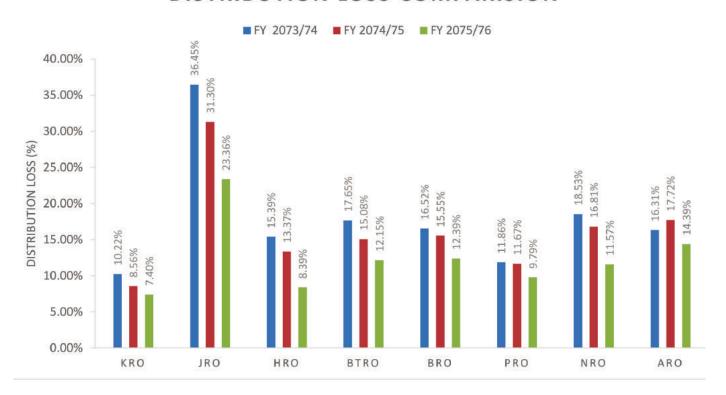


Distribution Losses

In the F/Y 2075/76, DCSD reduced the overall distribution loss to 11.28%. It is 3.54% lesser than the distribution loss of F/Y 2074/75 (14.82%). In the F/Y 2073/74, distribution loss of NEA was 16.83%.

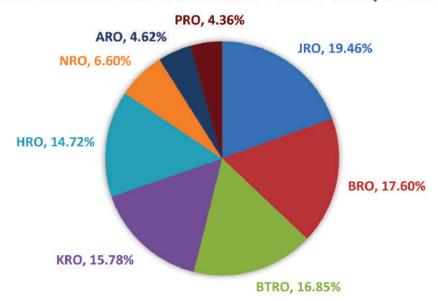


DISTRIBUTION LOSS COMPARISION

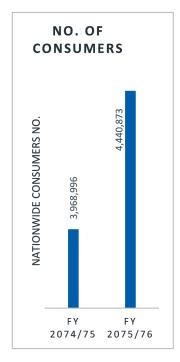


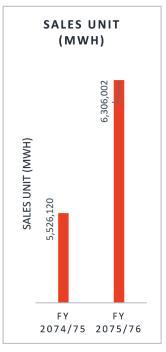
The following chart depicts the Region-wise contribution of loss in total distribution loss of DCSD.

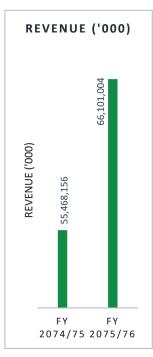
DISTRIBUTION LOSS CONTRIBUTION FOR F/Y 2075/76

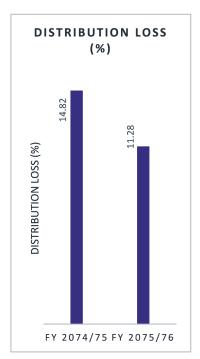


Salient features Comparison of F.Y.2074/075 and F.Y.2075/2076









Performance Analysis For F/Y 2075/76

No. of Consumer per DCSD employee	591.1
Unit consumption per consumer per year	1420
Revenue per consumer per year	Rs. 14,884.70
Unit consumption per domestic consumer per year	635.42
Revenue per domestic consumer per year	Rs. 5,961.21
Operation and Maintenance cost per kWh	Rs. 1.51
Average revenue per kWh	Rs. 10.48
Per capita consumption	220
Distribution Loss	11.28%

Coming on from F/Y 2074/75 to F/Y 2075/76, DCSD has made progress in few parameters and need substantial efforts in improving others. For example, per capita consumption has increased to 220 (NEA only) kWh, making an increment of 24.31 kWh in one year. To increase per capita consumption to 700 units per year, massive efforts is needed from all levels of NEA. There has been some improvement in per kWh revenue earned. In F/Y 2075/76, DCSD has seen per kWh revenue of Rs. 10.48, which is Rs. 0.44 increment from the previous year. The revenue earned per consumer was determined to be Rs. 14,884.70 in F/Y 2075/76, which is a good improvement from Rs. 13,975.36 from previous fiscal year.

DCSD has made significant improvement in reducing distribution loss to 11.28% from 14.82% of previous year. Per percent of distribution loss reduction benefits NEA with approx. 74 crore rupees, and loss reduction of 3.54% has benefitted 2 Arba 62 Crore Rupees to NEA. Loss reduction has two fold benefits to NEA and the country. Firstly, profit margin of NEA increases. Secondly, NEA can invest surplus benefits in the field of additional generation, transmission and distribution resources. It will positively impact the socio-economic situation of the whole country.

There are areas where substantial improvements need to be made by DCSD. The consumption of domestic consumers was 635.42 units per year in F/Y 2075/76. Generation along with distribution capacity needs to be increased heavily. The operation and maintenance cost was also too high in F/Y 2075/76. Rs. 1.51 per kWh of O&M cost has hampered profit margin of NEA. Similarly, commercial and industrial consumer number and consumer capacity has to be increased by encouraging potential consumers and supplying them required amount of electricity. Average per kWh revenue was priced Rs. 10.48, which needs considerable improvement.

Programs and Activities

- 416.7 km of 33 kV lines, 2796.2 km of 11 kV lines and 6,508.64 km of 400/230 V lines were added in the national distribution network in the fiscal year 2075/76 totaling 4,907.16 km of 33 kV lines, 35726.48 km of 11 kV lines and 109,176.15 km of 400/240 V lines. Distribution Centers (DCs) and various distribution system expansion and renovation projects are working on expanding and upgrading the distribution system.
- The total loss of NEA distribution network is 11.28%, which is 3.54% less than previous fiscal year. During the year under review, various measures taken in the preceding years were continued to reduce the non-technical losses. Massive awareness campaigns as workshops and review meetings were implemented in various distribution centers. Strict measures for electricity theft control as confiscation of electric equipment and taking legal action against culprits were also conducted in various distribution centers with the help of local administration and security agencies. All the distribution centers are engaged to remove the hookings, to replace the defective meters and penalize the people who are involved in electricity theft. NEA management made various decisions as 'Immediate Action Plans' to improve its functioning. Among many, this plan included regular inspection of Time-of-Day (TOD) meters, data download, and analysis to curb any connection fault or manipulation. All regional offices and distribution centers actively participated in this drive which was found to be much effective.
- Regarding the Chhut revenues (due to change of category of consumers, various technical reasons like CT/PT outage, etc.), a total of fourteen crores twenty-two lakhs three thousand seven hundred fifty-six rupees and fifteen paisa (Rs. 14,22,03,756.15) was collected from 182 cases for Chhut energy of one crore twenty-nine lakhs seven thousand eight hundred and fifty-five (1,29,07,855) units.

- DCSD has actively promoted the online payment of the electricity bills through various merchants. In the fiscal year 2075/76, there were forty-seven lakhs eighty-nine thousand seven hundred and forty-one (47,89,741) online transactions made and five Arba seventy-five crores forty-three lakhs seventy-seven thousand seven hundred and ninety-two rupees (Rs. 5,75,43,77,792) collected through those transactions. Out of that revenue collected, more than four Arba rupees was collected by one single merchant viz. eSewa company. It is notable that every month more than 5,50,000 consumers are using online payment system for bill payments.
- Safety has become a big challenge for DCSD and thus is entrusting major priority on it. In this regard, awareness to NEA employees and also to public is very important. For this, the directorate is giving priority for awareness and electrical safety, right from the implementation of the project till completion and also in operation and maintenance. As in past years, NEA organized various programs to mark "Electrical Safety Day" in collaboration with Society of Electrical Engineers of Nepal (SEEN) at the central level. Similarly, safety day programs and activities were executed by the various offices at Regional and District level. A safety oath to recall its importance and mandatory use of safety tools and tackles were emphasized on the day. A Safety Officer was assigned in each distribution centre.

Distrubution and Consumer Service's Initiation

Electricity for All within three years

Emphasis will be given to the development and expansion of hydroelectricity and all types of renewable energy to provide clean energy to all Nepali household within the coming three years and to avail electricity to all households as per demand within the next five years. The GoN has declared year 2075-2085 as Energy Decade and various distribution projects are scheduled to initiate and complete within this period. The present scenario of electrification of household based on local levels is as follows.

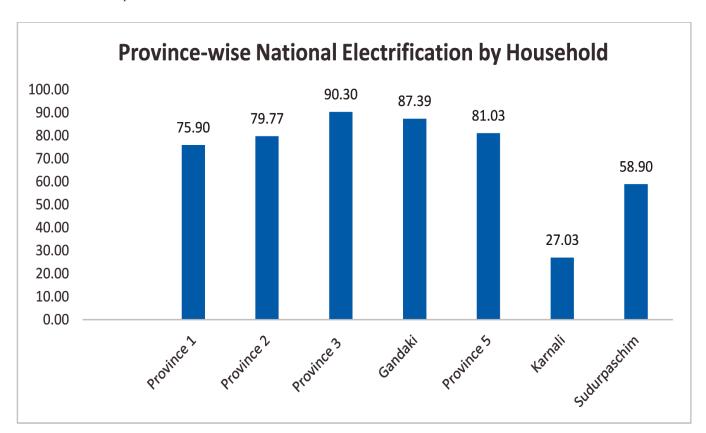
Karnali

Sudurpaschim

Total

	0%	-5%	5%-35%		35%-65%		65%-90%		90%-100%	
Province	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban
Province 1	23	0	11	О	17	6	27	19	10	24
Province 2	О	О	0	О	8	9	34	48	17	20
Province 3	6	0	2	0	12	1	28	11	26	33
Gandaki	6	0	6	0	8	0	14	7	24	20
Province 5	7	0	4	0	13	3	31	15	18	18

Electrification Percentage Based on Local Levels*



Presently, National Electrification by Household is 77.82%. Target has been set to fully electrify at least 40 districts in the fiscal year 2076/77. NEA and DCSD is working hard to electrify all parts of Nepal by the end of F/Y 2078/79.

 Distribution Networks are to be upgraded/ expanded to the capacity of 10,000 MVA for the consumption of 5000 MW within five years. Projects like Distribution System Upgrade and Expansion (DSUEP), Grid Solar and Energy Efficiency Project (GSEEP) and various projects under Planning and Technical Services Department (PTSD) are in various stages of execution.

 Most of the 33 kV sub-transmission lines and substation are overloaded in Terai regions. So up-gradation of Substation and replacement of

^{*} Local levels include 6 metropolitants, 11 sub-metropolitants, 276 municipalities and 460 rural municipalities. All together there are 753 Local levels in Nepal.

ACSR conductors with HTLS are prioritized in the coming fiscal year.

- As high system loss is a major challenge for NEA, DCSD is trying to make every effort to bring down the distribution system loss.
- Plans are to handle consumer complaints with new technologies without delay and the procedures for new connection related works shall be made simple and user-friendly.
- DCSD is committed to establish centralized customer care center to ensure a single point of contact for all consumer related activities, timely service, less processing time for new connection and centralized control and monitoring over the entire customer care process.
- To have the proper monitoring of the energy consumption pattern to a macro-level and to have appropriate load management, the Directorate is implementing the followings:
 - Replacement of existing 3-phase meter with SMART TOD Meter
 - All the industries and large consumer are instructed to install an Automatic Power Factor Corrector (APFC) at their end themselves, to maintain the voltage profile.
 - Introduction of single-phase SMART meter
 - Initiation of the underground of 11 kV and 0.4kV distribution lines
 - Launch of SMART Street Light
- Plans to make available the payment and billing information on the internet are being made so that consumer can access information online. A system will be implemented for consumers to pay the electricity bill online through an internet-based payment system.

Challenges

There are numerous challenges to overcome in various

sectors of electricity distribution and consumer services. Few of the challenges are summarized below:

- Due to difficult topography, it takes more time, resources and money to extend the reach of electricity to rural consumers.
- To enhance per capita consumption of electricity, 700 units by next 5 years, rapid expansion and upgradation of distribution network and distribution components needs to be done. A total of 10,000 MVA of distribution capacity needs to be built within five years.
- Reducing distribution losses has always been a challenge to DCSD. This year DCSD made improvements in reducing distribution loss to 11.28% as compared to 14.82% of F/Y 2074/75. In F/Y 2076/77, distribution loss is targeted to further lower it to about 9%.
- There are big challenges to introduce new technologies in metering and billing. Upgradation of Online payment system to make it resilient to malware, phishing, man-in-the-middle attack, password attack and others.

Customer Care

Distribution centers work as interfaces between NEA and its consumers. So, special efforts are taken to improve the quality of service at the consumer interface points. The employees took special efforts to serve our valued consumers in a more effective way. With the Queue Management System at most of the cash collection centers, difficulties encountered by the consumers in queuing for making payments were minimized. Round the clock no-light services have been implemented in most of the urban no-light centers. The online payment system has decreased the hassle of the consumers for bill payments. Drinking water facilities have also been provided to all the customers within the DCS premises.

To ensure the consumers get all the services in time and easy manner, the Directorate has implemented **One-door Policy** in some of the Distribution Centres and has plan to extend to all DCs.

Projects under the Directorate

Grid Solar and Energy Efficiency Project (GSEEP)

The Government of Nepal (GoN) has received a credit from the World Bank (WB) towards the cost of Grid Solar and Energy Efficiency Project (GSEEP) under IDA Credit. The GSEEP Project comprises of the following two components.

Component 1: Grid-connected Solar PV Farms
Development deals with the Design, Planning,
Engineering, Procurement (Manufacturing/Supply)
Construction/Erection, Testing, Commissioning and
Five Years of Operation & Maintenance of 25 MWp
Utility Scale Grid Tied Solar Farms. The first solar firm
in Nepal is being installed there in the Colony area of
Devighat Hydropower Station. The landworks, supply
and delivery of equipments have been completed and
the installation works is going on.

Component 2: Distribution System Planning & Loss Reduction deals with the Rural Electrification in three (3) packages along with Distribution Business Management and Implementation of Loss Reduction and Distribution System Rehabilitation. Under this component, the following projects are in process:

- Design, planning, engineering, procurement, installation, testing and commissioning of 8 New 33/11kV substations and 33kV lines in the development of the NEA grid. (Kapilbastu, Arghakhachi, Sindhuli, Ramechap & Gulmi).
- Design, Supply, Installation/Erection, Testing and Commissioning of 11/0.4 kV Distribution System (Dolakha, Sindhuli & Ramechap).
- Design, Supply, Installation/Erection, Testing and Commissioning of 11/0.4 kV Distribution System (Gulmi, Arghakachi & Kapilbastu).
- Design, Supply, Installation/Erection, Testing and Commissioning of 11/0.4 kV Distribution System (Taplejung, Panchthar & Illam).

- Preparation Of Distribution Loss Reduction Master Plan Along With Design, Supervision, And Monitoring Of Loss Reduction Activities.
- Design, Supply, and Installation of Substations and 33kV Lines in Bharatpur, Dhading, Hetauda, Kavre, Lagankhel, Nuwakot, Palung, Ramechhap, Dolakha, and Sindhupalchok districts.
- Design, Supply, and Installation/Erection, Testing and Commissioning of 11/0.4 kV Distribution System in Kavre, Dhading and Nuwakot districts.
- Design, Supply, and Installation/Erection, Testing and Commissioning of Distribution System in Melamchi, Dolakha, Ramechhap, Rasuwa, Palung, Bharatpur and Sindhuli districts.

Distribution System Upgrade and Expansion Project (DSUEP)

With the vision to electrify all the households by the end of F/Y 2078/79, DSUEP has come into implementation in 23 districts of Province No. 5, Karnali Province and Sudurpaschim Province. As the provinces are the least electrified part of the Nepal, NEA decided to utilize the assistance of Asian Infrastructure Investment Bank (AIIB) in that part of the country.

In pursuance of this program, NEA has identified a project covering 23 districts of the Provinces 5, 6 and 7 and anticipates the establishment of 45 new 33/11 substations. DSUEP comprises a largescale implementation to construct more than thirty-five 33/11 kV substations, more than 1000 km of 33 kV lines and more than 1500 km of 11 kV lines. Examinations of the existing networks in the associated areas, indicate that a substantial revision of the infrastructure development will need to be carried out to meet the requirements of providing supply to the intended villages and settlements. Accordingly, a network planning study is being carried out followed by a detailed engineering design and feasibility study analysis to identify appropriate development options that will be suitable for the intended electrification program.

This project equally focuses on environment sustainability. It includes preparation of Framework for environmental and social assessment of subprojects, including criteria for categorization of sub-projects and identification of appropriate EA instruments for each. It also includes scoping of environmental and social risks and impacts, including stakeholder identification, within the overall Project Area of Influence.

Following are the districts covered by the scope of this project:

Province 5	Karnali	Sudurpaschim
	Province	Province
Parasi	Surkhet	Darchula
Rupandehi	Kalikot	Bajura
Palpa	Jajarkot	Bajhang
Gulmi	Salyan	Baitadi
Rukum East	West Rukum	
Dang	Jumla	
Pyuthan	Dolpa	
Banke	Mugu	
Bardiya	Humla	
Rolpa		

DSUEP has started the detailed survey of substations, 33 kV lines, 11 kV lines and 400/240 V lines and the detailed project report is expected to come by the mid of Poush 2076. After DPR, the constructions will start and the whole project is expected to in F/Y 2078/79.

Distribution Activities from Project Management Directorate (PMD)

PMD is responsible for project preparation, procurement and construction of all new and existing projects that is or will be funded by ADB.

PMD is implementing both transmission and distribution projects. PMD has played a vital role in Distribution Sector with the construction of 33/11 kV SS, 33 kV Line, 11 kV Line and 400 Volt line in neediest and strategic places which has helped NEA to connect more consumers, reduce loss and increase the supply reliability.

PMD engagement in distribution sector includes following major works:

- Preparation of bidding document for the construction of 300 km of 33 kV line, 750 km of 11 kV line, 970 km of 0.4 kV lines and 8 nos. of 33/11 kV substation for rural electrification and distribution system reinforcement in Province 2.
- 301 km of 33 kV line (including 46 km conductor upgradation), 909 km of 11 kV OH line (including 245 km augmentation / reinforcement), 540 km of 11 kV underground line, 1261 km of 0.4 kV OH line (including 455 km augmentation), 644 km of 0.4 kV underground line is being and planned to beconstructed. 510 km underground optical fiber installation is underway as well as 165 km OPGW is being planned to be strung.
- PMD has already completed the construction of 180 MVA of 33/11 kV SS including substation capacity upgradation at 11 places totaling 121.8 MVA and new substation at Ghailadubba, Katahari, Bodhebasain, Hasuliya, Maharajgunj, Dhakdhai, BP Nagar and Palungtar totaling a capacity of 59 MVA, 222 km of 33 kV line, 255 km of 11 kV line and 249 km of 0.4 kV line.
- Bidding Document is being prepared for Distribution system undergrounding and reinforcement in main places Lalitpur and Bhaktapur District.
- PMD has been working continuously to adopt modern technology in distribution system. It has initiated the implementation of smart metering, Distribution system undergrounding and Distribution system automation.

In the fiscal year 2076/77, PMD has targeted to complete following transmission line, substations and distribution lines:

- 160 km of 33 kV line, 320 km of 11 kV line, 500 km of 0.4 kV line
- 17 nos. of 33/11 kV substation with the total capacity of 91 MVA.

Project Highlights

Grid Substation Reinforcement and Capacity Expansion Project

Upgradation of Dhalkebar - Mujeliya 33 kV Double Circuit Line of length 23 km by replacing the existing 0.10 sq. Inch ACSR conductor with HTLS conductor and addition of capacitor banks at Mujeliya substations is one of the scopes of this project. The Contract has been awarded to JV Contractor M/s Mudhbary & Joshi and APAR, India on 18 June, 2018 and planned to be completed by September, 2019. The cumulative progress achieved till date is 81.10%.

Distribution System Augmentation and Expansion Project

This project is to augment and expand the distribution system of NEA. The project work includes the construction of twenty-five (25) numbers of 33/11 kV new substations, upgrading of eleven (11) numbers of existing 33/11 kV substations and construction of 33kV, 11 kV and 400 Volt Lines at various districts of the country. With the completion of this project, 266.8 MVA of 33/11 kV SS, 437 km of 33 kV line, 701 km of 11 kV Line, 710 km of 400 Volt line and 91 MVA total capacity of distribution transformer will be added in the distribution system. The project is being executed in following 3 Lots of contracts namely:

Lot 1: Expansion of Distribution Network in the Eastern Region including 13 substations, lines and transformers

Lot 2: Expansion of Distribution Network in the West Regions including 12 substations, lines and transformers

Lot 3: Reinforcement of distribution system including 11 substations upgradation

Lot 3 Contract package has almost been completed with the upgradation of 11 nos. of 33/11 kV substation which has added capacity of 121.8 MVA in the distribution system as well as nearly completion of 46 km of 33 kV line, 202 km of 11 kV Line and 223 km of 400 Volt Line.



33 kV UG cable connection work at Dhakdhai SS

Out of total 25 nos. of substations of Lot 1 and Lot 2, 8 substations have been commissioned and has contributed 59 MVA additional capacity into the system. Similarly, a total of 176 km of 33 kV line, 53 km of 11 kV line and 26 km of 400 Volts line has been completed.

Overall, physical progress of 85.88% has been achieved till date.

Distribution System Master Plan Project

The principal objective of this project is to prepare a Distribution System/Rural Electrification Master Plan of Nepal (DS/REMP-N) for the entire country, with emphasis on providing electricity for all and enhancement of livelihoods in the remote settlements of the country in an efficient way. Consulting firm M/s Gesto Energy, Portugal has been working closely with NEA to develop the master plan. The prime assignment of the consultant is to identify least cost and economically viable means to reinforce, upgrade and expand Nepal's electricity system, including on-and off-grid, to achieve universal access to electricity by 2023 A.D. The master plan will include policy recommendations, a comprehensive electrification

and distribution augmentation program and detailed case studies. The Project is funded by Norwegian Grant, administered by ADB and planned to be completed by December 2019. A progress of 64.92% has been achieved so far.

Enhancement of Distribution Network in the Central and Northern Region of Kathmandu Valley

This is a sub-project under Power Transmission and Distribution Efficiency Enhancement Project (PTDEEP) which is funded by ADB under the loan no. 3542 (NEP). This project intends the enhancement of distribution system and/or rehabilitation of the distribution system (11kV and 0.4kV) with the provision of automation for the areas under Maharajgunj Distribution Center in the Northern region of the Kathmandu Valley. The scope of the project includes Design, Supply, Installation and Commissioning of Underground Distribution Network using Trenchless boring methodology under Maharajgunj Distribution Center including Reinforcement and Automation. Major work includes construction of 155 circuit km of underground 11 kV line, 210 circuit km of underground 400 volt line, 125 km of underground optical fiber laying, 40 circuit km of construction and upgrading of 11 kV overhead line by AB Cable & 140 circuit km of 400 Volt overhead line by AB Cable and 230 nos. of RMU installation.

The contract agreement was made on 15 March, 2019 with KEI Industries Limited, India. As of now, detail survey works and design works under supervision of project is on progress and planned to be completed by November 2021. A physical progress of 9.51% has been achieved till date.

Enhancement of Distribution Network in the Eastern and Southern region of Kathmandu Valley

The project intends towards the enhancement of distribution system and/or rehabilitation of distribution system (11kV and 0.4kV) with the provision of automation for the areas under Ratnapark



Distribution Center. The scope of the project includes Design, Supply, Installation and Commissioning of Underground Distribution Network using Trenchless boring methodology under Ratnapark Distribution Center including Reinforcement and Automation. The major work includes the construction of underground 11 kV Line: 160 circuit km & underground 400 volt Line: 195 circuit km, underground optical fiber laying: 160 km, Construction and upgrading of 11 kV overhead line by AB Cable: 40 circuit km & 400 Volt overhead line by AB Cable: 75 km and RMU installation: 140 nos.

The contract agreement was made on the 15 March, 2019 with KEI Industries Limited, India. Detail survey and design works under the supervision of project is on progress and planned to be completed by November 2021. Till date, cumulative physical progress of 9.46% has been achieved.

Kathmandu Valley Smart Metering Project

Kathmandu Valley Smart Metering Project is one of the sub-project of PTDEEP which will modernize the distribution business and improve financial health of NEA with reduction of distribution losses and increment of overall efficiency of distribution system operation. NEA intends to introduce smart meters and deploy Advanced Metering Infrastructure (AMI) System with its auxiliary system all across Kathmandu valley (Kathmandu, Lalitpur and Bhaktapur) within a radius of 220 sq. miles. Through AMI implementation, NEA aims to mirror benefits to the customers that can be seen in a number of countries and replicated in Nepal Electricity Authority (NEA). In the initial stages of program rollout, immediate benefits such as reduced meter reading costs, access to time of use-based tariffs and cut back in AT&C losses will be realized. Hence, Nepal Electricity Authority (NEA) plans to implement Advance Metering Infrastructure to bring about reform in distribution sector.

The project is to design, supply, establish, install, testing, commissioning, operate and maintain the Advanced Metering Infrastructure (AMI) for consumers equipped with Single Phase and Three Phase Whole Current meters. The first stage of overall smart metering project shall include 90,000 metering nodes in areas of Kathmandu central region and Kathmandu northern region (Maharajung and Ratnapark) with an approx. area of 60 sq. miles. AMI system includes communications links provided by Network provider, which is the backbone of AMI. The communication infrastructure is based on RF mesh network and GPRS/GSM system. Further, communication network shall provide reliable medium for two-way communication between various nodes (smart meter) & HES.

The project is supposed to increase the accessibility of real-time data and provide all information on a single console in an integrated manner with the possibility to remotely control entire network, increase operational efficiency and to establish network platform that can support multiple applications like AMI, DMS, DER, Street Light Management and Home Area Network etc. over a single communications platform using RF communication technology. Hence the Network canopy is to be established using RF communication technology which shall communicate with field devices using intermediate network elements such as routers/repeaters/ collectors/ gateways/ data concentrator units/access points etc. In case RF

communication technology is not feasible at specific consumer/metering location, the bidder shall provide GPRS/GSM based network connectivity for metering point.

The contract has been awarded to M/s Pinggao-WISDOM JV and planned to be completed by December 2020. Physical progress of 6.70 has been achieved so far.

Kathmandu Valley West Distribution System Enhancement Project

The project is a sub-project under PTDSSP which intends the enhancement of distribution system and/ or rehabilitation of the distribution system (11kV and 0.4kV) with the provision of automation for the areas under Kirtipur, Kuleshwor, Baneshwor, Balaju and Jorparti Distribution Center of the Kathmandu Valley.

The scope of the project includes design, supply, installation and commissioning of underground distribution network using trenchless boring methodology under five distribution Center including reinforcement and automation.

With the ADB concurrence on advance procurement, the notice for IFB was published on 21 May 2019. Technical bids were opened on 25 July 2019 and evaluation is underway.

The major work includes construction of underground 11 kV Line: 225 circuit km & underground 400 volt Line: circuit 239 km, underground optical fiber laying: 225 km, Construction and upgrading of 11 kV overhead line by AB Cable: 165 circuit km & 400 Volt overhead line by AB Cable: 240 km, RMU installation: 360 nos. and OPGW stringing: 165 km

Rural Electrification and Distribution Network Reinforcements in Province 2

In order to achieve the goal of sustainable energy access and grid access to all, Government of Nepal and Nepal Electricity Authority have emphasized on improving the electricity quality through construction of new substations and augmentation of the existing substations and transmission lines with distribution network reinforcement.

The scope of works under this proposal include construction of new 33/11 kV substations, 33 kV lines, 11 kV lines and low voltage distribution lines and reinforcement and rehabilitation of existing distribution networks. It is proposed to construct 8 new 33/11kV substations, 300 km of 33 kV lines, 750 km of 11kV lines, 970 km of 400 Volts distribution lines and addition of 300 nos. of distribution transformers.

The project is expected to be started by late 2019 and be completed by fiscal year 2024/25. The project shall be implemented through turnkey contracts in three packages. Adequate attentions will be paid for project preparation to ensure smooth project implementations and timely completion. Required Land acquisition and social & environmental study and bidding document preparation has already been initiated.

Rural Electrification and Distribution Network Improvement of Tanahu District

This project intends to electrify and improve the networks of the nearby villages which will be affected by the Tanahu Hydropower Project and is financed by ADB through Loan No.2990/2991-NEP (SF): Tanahu Hydropower Project. The scope of this project consists of construction of two 33/11 kV, 6/8 MVA SS at Saranghat and Ghiring, 40 km of 33 kV subtransmission line, 218 km of 11 kV line, 345 km of 400/230 V line and installation of seventy (70) nos. distribution transformers (11/0.4 kV). The contract was awarded to M/s JV of East India Udhyog and Waiba Infratech on 29 November 2018. Till date, design of major equipment like pole, conductor, stay wire, distribution transformer has been approved and survey for 33, 11 and 0.4 kV line has been completed. The project is expected to complete by the middle of 2020. Till date, cumulative progress of 11.45% has been achieved.

Planning and Technical Services Department

Planning and Technical Services Department (PTSD) is responsible for planning and preparation of distribution system expansion programs and supporting DCSD in the technical matters.

There are three divisions under this department:

- Computerized Billing and Network Division
- Technical Support Division
- Project Implementation Division

Computerized Billing and Networking Division

Computerized Billing and Network Division has always been striving towards enhancing the revenue collections of NEA. Our MPower Billing System Software has provided NEA, a competent billing system with several features and modules for monitoring the entire process and transparency of the revenue system.

Mpower has already been implemented in 168 revenue collection centers out of 173 revenue collection centers. This Division has targeted the data migration/implementation (Completion) of M-power Billing System in all the remaining revenue collection centers of NEA within this Fiscal Year. Currently Mpower Billing System covers more than 99% of the total consumer count and also covers more than 99.7% of the total NEA revenue.

Handheld Meter Reading Device (HHD) is currently operating in more than 110 locations which have helped in reducing human errors during meter reading and improve the energy sales. With the innovation in new technology, the division is in the

process of implementing Online Meter Reading Handheld Device (HHD) with GPRS functions. The meter reader directly uploads the meter reading data to the concerned branch server system after collecting the data from the consumer premises which results in efficient meter reading and swift payment.

Web Based Services provided to the customers to view the bills, where the consumers can query the bills through NEA website. The Customer Management Information System (LAGAT) has been implemented in various revenue collection centers which will help in keeping the customer database up to date.

Online payment system was introduced from Bhadra, 2074 and has been successfully implemented in 160 revenue collection centers. This system has focused all the groups of consumers where the consumer can pay their electricity bills through various online banking, mobile banking services, kiosks, cooperatives etc. Online system has eased the difficulty of the consumers standing in queue for hours just to pay the electricity bill as well as spending money on transportations to pay electricity bill.

Any Branch Payment System (ABPS) which has been implemented inside Kathmandu valley has helped the customers to pay their bill in any locations within Kathmandu valley with ease. It has helped NEA to collect revenue and get analytical reports on time.

On the process of striving to the excellence, Computerized Billing and Network Division is planning to enhance the online meter reading Hand Held Device by providing SMS facilities to the consumers after meter reading to make paperless environment which will help in financial savings. With the concept of making centralized system, Computerized Billing and Network Division are planning to move on Digital Collection Centre to reduce the hustle and bustle of the collection counters.

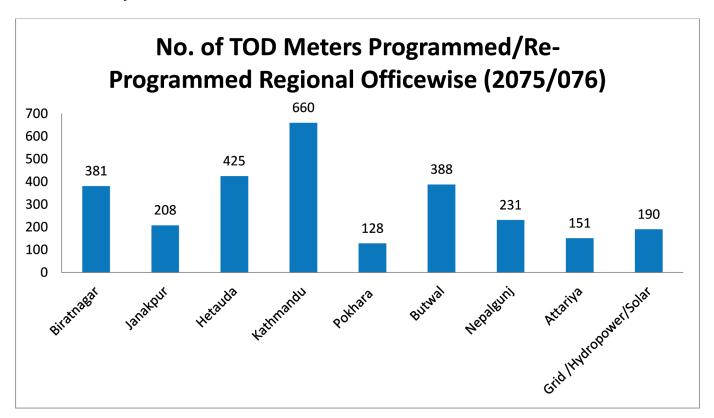
Furthermore, Computerized Billing and Network Division along with IT department has done enhancement on existing DCS Activities to get a Real time Revenue Management Information which will help MIS for Data Analysis and evaluate NEA's financial health.

Technical Support Division

Technical support division monitors and conducts all the technical matters under PTSD. Major works under this department include-

- Identification of potential rural electrification and substation rehabilitation projects and implement them.
- Monitoring and evaluation of region wise monthly distribution system losses. Assist to identify and implement programs for loss reduction in distribution systems

- Initiate modern facilities for the electricity consumers in the field of meter reading, billing and revenue collection
- Execute distribution planning, incorporating demand side management and loss reduction as an integral part of it.
- Preparing and updating the construction standards and guidelines for implementation of electrical installations and construction activities up to 33 kV.
- Testing and locating faults of underground cables of 11 kV & 33 kV feeders throughout the country with the help of cable testing equipment along with technical support.
- Programming/re-programming, data download and analysis of TOD energy meters & metering equipment. In the fiscal year 2075/076, TOD section has programmed about 2762 meters for consumers and inter-branch metering for different distribution centers.



Project Implementation Division

There are various projects under this division which plans, executes and monitors construction of 33/11 kV SS, 33 kV Line, 11 kV Line and 400 Volt line in neediest and strategic places which connects more consumers, reduce loss and increase the supply reliability. The Major Projects under PTSD are as follows:

GIS Smart Grid Project

The scope of this project is to manage asset inventories along with its position on earth. NEA has planned to develop GIS (Geographical Information System) software that keeps inventories of all the poles, transformers, cables, consumers' connections to each transformer along with geo-positioning. It helps concerned person to know the actual information about poles, transformers and consumers' capacity and also to balance the transformer's load as per connection to the consumer. It also facilitates to provide consumer service faster & reliable and identify any fault in distribution system. GIS based Data Survey work will be conducted in F/Y 2019/20 for 35 branches. This project is funded by the Government of Nepal (GoN). GIS Server hardware has been procured. Document for procurement of GIS based Survey is being prepared.

Rasuwa-Nuwakot Reconstruction & Distribution System Improvement Project (KfW funding)

The project includes the construction of the 220 kV Chilime-Trishuli Transmission System (Portion

I) and a Neighborhood Electrification Component (NEC) (Portion II). The purpose of the Project is to expand and improve the grid infrastructure for the efficient evacuation of electricity from hydropower to the Integrated Nepalese Power System and contribute thereby to an increased power supply and reduction in transmission losses. In addition, the project aims for reliable distribution of power evacuated through the Trishuli-Chilime transmission line and upstream hydropower projects to new customers in some specific locations in the vicinity of the transmission line.

The NEC, Portion II, is related to the neighborhood electrification in Salme, Valche and Kaule VDC and also in the vicinity of the transmission line benefitting local population. The project includes consulting services during project implementation for design, procurement and supervision. It also includes construction of 6/8 MVA, 33/11 kV substation at Bhalche of Nuwakot district, construction of 12 km 33 kV line from Trishuli 3B Hub substation to Bhalche substation, construction of 50 km of 11 kV & 50 km of 0.4 kV lines using covered conductor & ABC cable and installation of 30 numbers of distribution transformers in the vicinity of the 220 kV Chilime-Trishuli Transmission line corridor.

Civil construction works for control building, staff quarter, and office buildings are ongoing. Construction of switchyard is nearly in completion stage. Retaining wall construction work is already completed. Few section of boundary wall construction is underway.



Staff Quarter under construction at Bhalche S/S, Nuwakot

The project is scheduled to complete by the end of December 2019.

Reconstruction and Improvement of Electricity Distribution System (KfW funding)

The project aims at improving the access to electricity in the Nuwakot and Rasuwa districts by rehabilitating and improving the electricity distribution infrastructure after the earthquake in April 2015. The project comprises the financing of immediate relief measures with respect to the distribution network and short to medium term electrification measures as well as other social issues identified after earthquake.

The envisaged scope of the project consists of Social Development (civil work and supply of ambulance) and Electrical Components. The electrification measures will comprise the construction and reconstruction of several medium and low voltage distribution lines, the construction of small substations, the installation of distribution transformers and other related project measures that will be identified during the design of the final project measures.

Nijgadh - Kolhabi 33kV Project

The Nijgadh-Kolhabi 33kV project funded by Government of Nepal aims to meet the growing demand of electricity in Kolhabi and nearby area of Bara District. This Project also covers the demand of electricity for Proposed Nijgadh International Airport. The scope of this project includes the construction of 33kV Sub-Transmission Line from Nijgadh 33/11kV Substation to Kolhabi Municipality as well as 33/11kV, 20/24 MVA Substation at Kolhabi Municipality, Bara. The bids are under evaluation to procure 19 km of 33kV line and 33/11kV, 20/24 MVA Substation. The Project is scheduled to be completed by F/Y 2020/21.

Khokana Nijgadh 33/11kV Substation Project

The project is funded by Government of Nepal and primarily aims to meet the electricity demand of Kathmandu- Nijgadh Fast Track Road. It also aims to meet growing demand of electricity in Thingan, Len Danda, Dhedhre Simpani areas of Makanwanpur District. The scope of this project includes the construction of 33kV Sub-Transmission Line and 33/11kV, 10/12 MVA Substation. The land acquisition is under process. The Project is scheduled to be completed by F/Y 2020/21.

33 kV Line Expansion and Rehabilitation Project

The project is funded by GoN and aims to meet the growing demand of electricity in various parts of country by rehabilitation/capacity upgradation/new construction of 33 kV lines. The project scope includes construction of Bhurigaun-Gulariya (Bardia) 33 kV line of length 42 km and construction of Yadukuha-Dhanushadham 33 kV line of length 15 km. The contract has been finalized and procurement and delivery of goods is under process.

Rasuwaghat-Khotang S/S and RE Project

Works under this Project include the construction of 14 km of 33 kV line, 33/11kV, 3 MVA capacity substation at Bagedhunga and 90 km of 11kV & LV line in Khotang and Udaypur districts. Out of above, 10 km of 33 kV line, 37.2 km of 11kV line, 33 km of LV line and 12 nos. of distribution transformers have been installed and commissioned. Store building has been constructed in Bagedhunga. 33/11kV, 750kVA transformer has been installed in Bagedhunga. Also, 33 kV Bay extension at Jaljale substation has been completed & is in operation. 3 MVA Bagedhunga (Khotang) Substation was completed and tested/commissioned on 2075/12/30 B.S.

Transformer Testing Lab Construction Project

The project scope includes the construction of Transformer Testing Lab at Biratnagar, Butwal and Nepalgunj. These labs will benefit NEA as well as medium and large consumers by providing facilities in the nearby areas. The construction of workshop building at all the three places has been completed and Transformer testing equipments are already installed in all labs. The civil and crane installation works are on progress. Procurement for supply & installation

of electrical equipment for maintenance facilities has already been initiated. The lab will impart facility for Routine Test of Distribution and Power Transformer up to 16 MVA capacities. The project is scheduled to be complete by FY 2020/21.



Transformer Testing Workshop Building at Kohalpur, Nepalgunj.

Smart Metering Smart Grid Project

The scope of the project includes:

Phase 1: To implement Automatic Meter Reading (AMR) System with implementing Advanced Metering Infrastructure in TOD meters like EDMI, Bluestar, Actarius, Wasion, Risesun. For this purpose, 10,000 Intelligent GPRS/GSM Modem has been procured. Out of the procured modems, 7916 modems have been installed in consumer sites. The information like billing data, load profile, instantaneous data, event tampers can be retrieved via AMR/AMI system. The Integrated Branch Billing data can be retrieved through email and SMS. Server setup with all hardware and Network is completed.

Phase 2: Implementation of Smart Three phase energy meter to replace three phase whole current electromechanical meter. The programming of these smart meters can be executed remotely and control of consumer's supply can be executed remotely in case the payment is due. The mode of communication between meter and system is GPRS.

Phase 3: To implement smart meter throughout NEA with DTMS (Distribution Transformer Monitoring System) for smart distribution network.

Matatirtha Naubise 33 kV Transmission Line Project

This project aims to supply power for cement industry at Naubise, Dhading and existing NEA consumers in its vicinity. The scope of the project includes the construction of 33/11 kV, 2*6/8 MVA substations along with 13 km 33 kV double circuit line. Construction of the transmission line & substation at Naubise is completed and Naubise substation is charged from Matatirtha Substation through the newly completed Matatirtha - Naubise 33 kV double circuit transmission line





Charging of Matatirtha- Naubise 33 kV Transmission Line

Matatirtha Malta 33 kV Transmission Line Project

This project aims to supply power for Laxmi Cement Industry Pvt. Ltd. in Malta, Lalitpur and evacuation of power produced by Pashupati Energy Pvt. Ltd. (6MW) and supply existing NEA consumers in its vicinity. The project will help to improve the quality of

supply and reduce the technical losses of the area. The scope of the project includes the construction of 33/11 kV, 10/13.3/16.6 MVA substation at Malta along with double circuit 35 km 33 kV line. Civil and electrical work of Malta substation is completed and the substation is in operation, charged with Khani khola hydropower feeder. Construction of 33 kV line from Matatirtha to Malta is in progress. Line construction work has been obstructed at different location by local community. Since, number of trees in the ROW (Right of Way) has increased than approved IEE report, the project in process of preparing Updated IEE report which is in final approval stage. About 70% of the transmission line construction work is completed and remaining work is scheduled is to be completed within FY 2076/77.



Underground Cable laying works for Matatirtha Malta 33 kV Transmission Line

Dailekh (Dullu)-Kalikot 33 kV Transmission Line, Substation & Electrification Project

This project aims to connect Kalikot District with National Grid. The project will supply electricity to Kalikot district and its vicinity. The main scope of the project is construction of 33/11 kV,6/8 MVA substation at Manma Bazar, Kalikot with 33 kV single circuit about 55 km Transmission line from Dullu, Dailekh to Kalikot Substation. Transmission line construction work is in progress. Pole erection work from Dullu Substation to Manma Bazar (Kalikot) is completed and around 1145 poles have been erected. Conductor stringing work is in progress. Land acquisition for the

construction of substation in Kalikot is in final stage. After finalizaion of the land acquisistion, tender for construction of substation shall be started. The project was started in FY 2075/76 with funds from GoN and is expected to complete in FY 2077/78.

Matatirtha Markhu 33 kV Transmission Line Project

This project aims to meet the growing demand of electricity in Kulekhani area of Makawanpur district and its vicinity. The project will help to improve the quality of supply and reduce the technical losses of the area. The main scope of the project is construction of 33/11 kV, 6/8 MVA substation at Markhu with single circuit 15 km Transmission line from Matatirtha to Markhu. Substation, Control Building & Installation of Electrical instruments including Power Transformer has been completed. 33 kV Bay extension work and 33 kV Control Panel Installation works at Matatirtha Substation has been also completed. Transmission line construction work is in progress. The project is expected to complete in FY 2076/77.

Madankudari-Makaibari-Singati 33 kV line Project

The project funded by GoN aims to meet the growing demand of electricity in Madan Kudari— Majhifeda area of Kavre District and its vicinity. Also, power generated by IPP will be connected to this substation and part of this power will be consumed locally and other will be evacuated at Mude-Lamosanghu. The scope of the project includes the construction of 33/11 kV,6/8MVASubstation withinterconnection facilities. The land acquisition process has been completed. The 33 kV substation and 33 kV transmission line construction works are in progress. The Project is scheduled to be completed by FY 2020/21.

Chautara-Sindhupalchok 33 kV substation Project

The project funded by GoN aims to meet the growing demand of electricity in Chautara area of Sindhupalchok District and its vicinity. The scope of the project includes the construction of 33/11 kV,

6/8 MVA Substation with interconnection facilities. The construction of 33 kV line from Lamosanghu to Chautara is completed. Substation control building works and guard house has been completed and other civil construction works including bay construction works are in progress. Supply and delivery of equipments to site is in progress. The project is scheduled to be completed by FY 2020/21.

33/11 KV Substation Rehabilitation Project

This project is financed by Govt. of Nepal (GON) and NEA. The aim of this Project is for the improvement in reliability of the distribution system of 36 different Substations under different distribution centers all around the country. The main aim of the Project is to rehabilitate substations and strengthen the distribution system by F/Y 2076/077 under 5 different Packages.

The main scope under this project is:

Package 1: Rehabilitation of 33/11 KV Substation at

Dharan, Inaruwa, Mirchaiya, Rajbiraj, Mujelia with 33/11 kV Power Transformers of 10/13.3/16.6 MVA capacity. It is intended to complete within first quarter of F/Y 2076/077.

Package 2: Rehabilitation of 33/11 KV Substation in Pokharia, Harsa, Simrangaud with 33/11 kV Power Transformers of 20/24 MVA capacity. It is intended to complete within first quarter of F/Y 2076/077.

Package 3: Rehabilitation of 33/11 KV Substation in Mukundapur, Kawasoti, Kalaiya with 33/11 kV Power Transformers of 20/24 MVA capacity. It is intended to complete within F/Y 2076/077.

Package 4: Rehabilitation of 33/11 KV Substation in Guleria, Jeetpur, Bhairahawa and Lumbini with 33/11 kV Power Transformers of 20/24 MVA capacity. It is intended to complete within first quarter of F/Y 2076/077.

Package 5: Rehabilitation of 33/11 KV Substation in Jhalari, Belauri, Dhangadhi, Mahendranagar and Ghorahi with 33/11 kV Power Transformers of 20/24



33/11KV, 20/24MVA transformer testing at Butwal



33/11KV, 20/24MVA transformer foundation at Mahendranagar

MVA capacity. It is intended to complete within first quarter of F/Y 2076/077.

Solu Corridor Rural Electrification Project

Under the project, distribution system will be expanded and reinforced for people and places affected by Solu Corridor 132 kV Transmission Line Project, by constructing 139 km of HT line, 247 km of LT line and installation of 67 numbers of 11/0.4 kV distribution transformers and also upgrading of existing poles, conductors and transformers in Solukhumbu, Okhaldhunga and Udaypur districts of Nepal.

The scope of project includes Solu-Dudhkunda Municipality, Necha-Salyan Rural Municipality and Thulung-Dudhkoshi Rural Municipality of Solukhumbhu District, Siddhicharan Municipality and Manebhanjyang Rural Municipality of Okhaldhunga Districts and Katari Municipality of Udaypur District.

The project is funded by Government of Nepal (GoN). Contact agreement has been signed on July 25, 2019 for both packages. The project is scheduled to be completed by January 24, 2020.

Distribution System Rehabilitation Project

Capacityupgradation&otherRehabilitationof33/11kV Sub-stations (Nepalgunj Old, Tulsipur, Shitalnagar/Butwal, Milanchowk/Myagdhi, Balardaha/Saptari, Dhankuta, Malangawa, Devight and Arghakhanchi has been completed last year. Scope preparation and estimation of other rehabilitation (33 kV Line & 33/11 kV Substation) work is under process.

Community Rural Electrification Department

n order to expand the access to electricity services to the rural areas on people's participation approach, the Government of Nepal (GoN) has brought forward Community Rural Electrification Program (CREP) since 2003 which is being executed efficiently through Community Rural Electrification Department (CRED) under Distribution and Consumer Services Directorate (DCSD), Nepal Electricity Authority (NEA). Later on in 2010, CRED was dissolved in the process of restructuring of NEA and the activities of CREP were carried out through eight Regional Offices. However, the CREP activities were slowed down due to lack of coordination at central and regional level. On this background, CRED was formed again in July 2013.

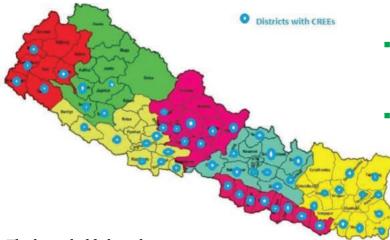
The GoN is contributing 90% of total rural electrification and rehabilitation cost of related infrastructure of the electrified areas through NEA; and a Community Rural Electrification Entity (CREE) is required to contribute remaining 10% of the cost. NEA sells bulk power to the CREEs and they are responsible for operation and management of electricity distribution within their concerned areas. NEA provides services up to 11 kV Line and the REC itself is responsible for 400/230 Volt Line. NEA, Community Rural Electrification By-Law 2071 governs the electrification activities of NEA and CREP.

CREP is becoming more effective to promote energy access, build consumer capacity, develop livelihood,



Extension of LT line to remotely located house of Jorpokhari samudayik bidhyut upabhokta samite, Jorpokhari, Panchthar.

alleviate poverty, and empower Community Rural Electrification Entities (CREEs). In the journey of 16 years, CREP has achieved a major success of providing access to electricity to 531,232 consumers of 53 districts through 506 nos. of different CREEs (290 CBOs and 216 Entities of Kailali Kanchanpur Gramin Bidhyut Chhata Sansthan and Rural Municipalities/ Municipalities). The districts with CREEs have been depicted in following map:



The households have been electrified through 2664 numbers of distribution transformers of which 473 are of 25 kVA, 1291 are of 50 kVA; and 900 are of 100 kVA capacity.

CRED is facing some technical and administrative issues despite which the performance of CRED of FY 2018/19 was satisfactory. During this review period, CRED initiated activities to resolve & complete ongoing community rural electrification works, and initiated new electrification works and substations in different areas of Nepal. CRED's major activities of this year are as follows:

- seventy-one (71) projects, initiated in this year and previous years, have been completed in this Review Period out of which 40 projects are being executed by Contractors and 31 by CREEs.
- the works related to two substations in the rural areas of Sindhuli and Panchthar along with 33 kV line extension have been initiated.

 technical, administrative and accounting trainings were provided to the CREEs of Gandaki Province and Province no. 3.

The details of projects under CRED in different stages of execution from FY 2013/014 to FY 2018/019 are as follows.

- Total number of projects: 157
 - Electrification, System Improvement and Rehabilitation Projects: 148
 - 33/11 kV, 6/8 MVA Substation Projects with 33kV line Construction: 5 (Lamjung, Baglung, Sindhuli, Taplejung, Panchthar)
 - 33kV Line Construction Project : 1 (Palpa)
 - Building(DivisionOffice)ConstructionProject: 1 (Pokhara)
 - Material Procurement Projects :
 2 (Steel Tubular Pole and Distribution Transformer)
 - Completed Projects: 95, Ongoing Projects: 62
- Projects executed by contractors: 119, Projects executed by CREEs: 38
- Consumers to be electrified: 1,09,000
- Proposed Load Centers: 620
- Total Line Length: 108 km (33kV)

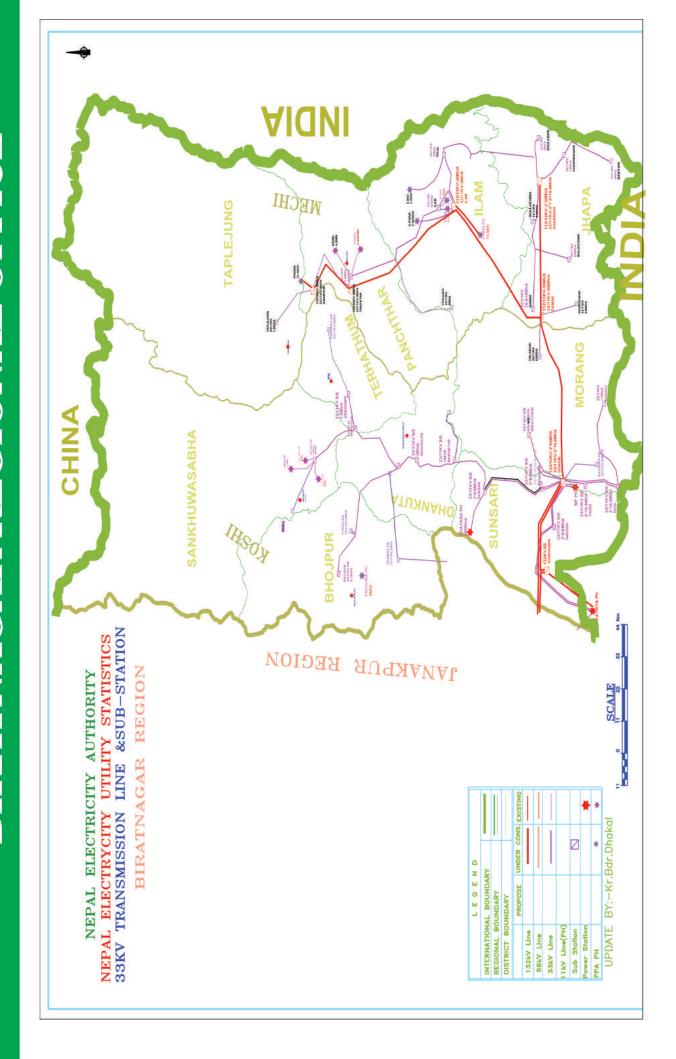
1425 km (11kV)

3887 km (400V)

• Out of 1,45,000 wooden poles used in the electrification process, 59,000 have been replaced and remaining 86,000 are yet to be replaced.

CRED is planning different activities in coming fiscal years to achieve meaningful result by augmenting implementation of CREP which will strengthen the CRED and support the empowerment and sustainability of the CREEs too.

BIRATINAGAR REGIONAL OFFICE



BIRATNAGAR REGIONAL AND DISTRIBUTION CENTRE CHIEFS



Sachidananda Yadav Biratnagar Regional Office Chief



Rajeev Kumar Singh Biratnagar DC



Anarmani DC



Jitendra Kumar Jha Mithilesh Kumar Gohiwar Sanjeev Kumar Shah Ithari DC



Inaruwa DC



Shivaram Yadav Urlabari DC



Jitendra Kumar Yadav Damak DC



Saroj Kumar Shah Gauradaha DC



Ram Udgar Shah Bhadrapur DC



Binod Kumar Yadav Belbari DC



Ram Pramod Shah Duhabi DC



Pawan Kumar Shah Dhankuta DC



Rangeli DC



Sanjaya Kumar Gupta Rabin Babu Ghimire Dipak Kumar Dahal Illam DC



Terathum DC



Deepak sapkota Dharan DC



Suresh Prasad Singh Panchthar DC



Shiva ji Prasad Shah Taplejung DC



Ram Ashis Shah Bhojpur DC



Dhurba Adhikari Khandbari DC

Introduction

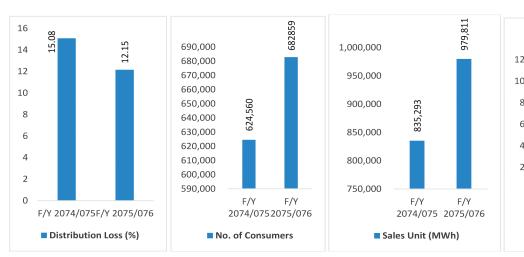
Biratnagar Regional Office is one of the eight Regional Offices under the Distribution and Consumer Services Directorate and is responsible for overall management of electricity distribution services, operation and maintenance of electrical networks of Mechi (Taplejung, Panchthar, Ilam and Jhapa districts) and Koshi (Sankhuwasabha, Terahthum, Bhojpur, Dhankuta, Sunsari and Morang districts) Zones. There are 19 (Nineteen) Distribution Centers (DCs) in this Regional Office. Gauradah DC and Pachthar DC is newly formed DC in F.Y. 2075/2076 under this region. The major activities of this regional Office include operation, maintenance and rehabilitation of the electricity distribution networks up to 33 kV voltage Level and 33/11 kV Substations as well as consumer services activities such as new consumer connections, meter reading, billing, and revenue collection.

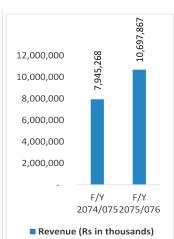
fund is Government of Nepal and NEA itself. There are nine 33 kV transmission line, substation project and a rural electrification project funded by Government of Nepal under this regional office.

Key Objectives

- To decrease the distribution system loss by controlling the electricity leakage and theft energy by loss reduction activities/loss reduction programs.
- To implement interaction and public awareness programs for increment of sales, revenue collection and decrease in electricity loss.
- Supply of reliable electricity to the consumers within the region at statutory levels of voltage.
- Provide new connections to prospective consumers.
- Ensure rational development of the electricity distribution system within the region.

The comparative salient features of this regional office are as follows:





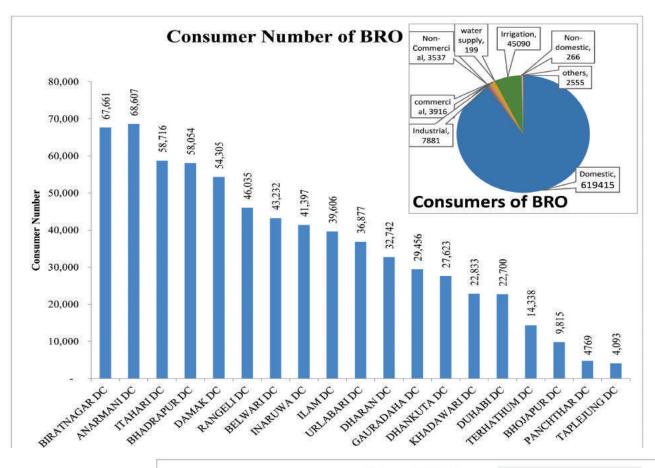
Operational Structure

There are 19 Distribution Centers under Biratnagar Regional Office (BRO) spread over Mechi and Koshi zones. During the year under consideration two new Distribution Center namely Gauradah and Pachthar were established for the convenience of the consumers. Regional office comprises of technical, financial and admistrative division which monitors various actions of the concern DC's. The source of

Highlights of the Year

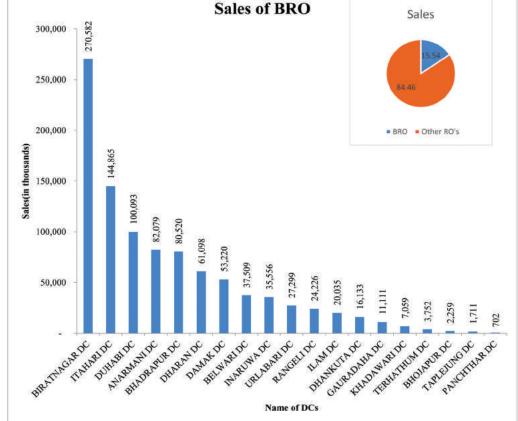
Consumer Number

BRO recorded 682,859 consumer accounts by the end of the fiscal year 2075/076 which is 9.33% growth from last year. The majority of consumer accounts were in the domestic category approximately which is 91% while the second most were from the irrigation category which is 6.60% of total consumers



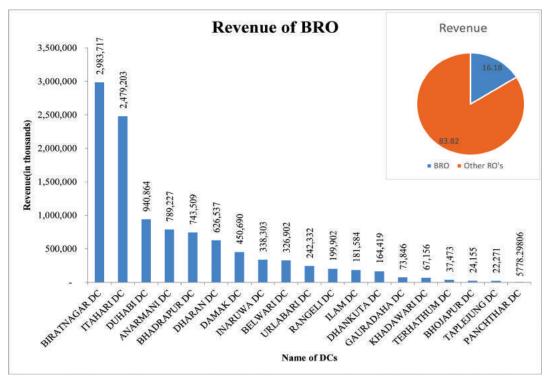


Atotal of 979,810.74 MWh of energy was sold in this FY 2075/076 which is 17.30% increase than last year. Sales contribution to NEA system from this Regional Office is 15.54%

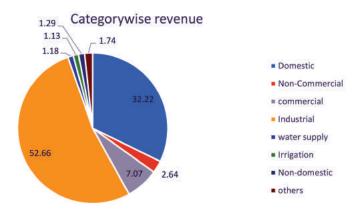


Revenue

The gross revenue of Rs. 10,697.86 million was earned in F/Y 2075/076 after selling of 979,810.74 MWh energy which is 34.64% increase from last year.



The majority of revenue in BRO recorded from industrial tariff category which is approximately 53% of the total revenue of the region.



Biratnagar distribution center accounts for 22.28%, Itahari accounts for 23.14%, Duhabi 8accounts for 8.79%, Anarmani accounts for 7.37% and Bhadrapur accounts for 6.95% of the total revenue in the Region

Distribution Infrastructures

The infrastructure of this regional office spread over 10 districts of Mechi and Koshi zones. The regional office includes the following distribution infrastructures.

33 kV Distribution Lines	688.93km
11 kV Distribution Lines	5936.40km
33/11 kV primary Substations	23
LV Distribution Lines	17464.20km
Distribution Transformers Total installed capacity	418.47MVA

Performance Highlights

Consumer per Staff	676
LT 0.4/0.24kV Line Length per Staff (km/staff)	17
Sales per Consumer per year (kWh/Consumer)	1,440
Revenue per Consumer per year (Rs./Consumer)	15,672
Consumer per Distribution Transformers	140

Customer Care

Distribution centers work as interfaces between NEA and its consumers. So, special efforts were taken to improve the quality of service at the consumer interface points. The employees took special attention and efforts to serve their valued consumers in more effective way. With the newly introduced online payment system and queue management system at cash collection centers, difficulties faced by the consumers in queuing for making payments were minimized. Round the clock no-light services have been implemented in most of the urban no-light centers. Implementation of Customer Care programs

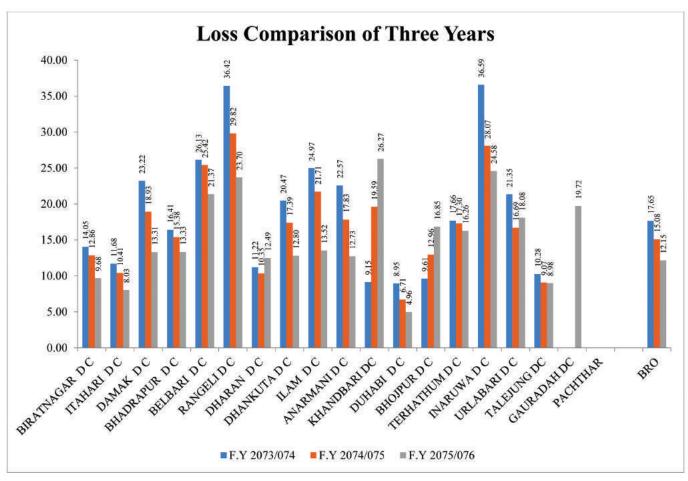
in this regional office are:

- New Meter Connection: This regional office has instructed the DCs to connect the new meter within seven days after the registration of application.
- No Light Services: No light Services in this regional office implements consumers services as soon as possible after registering the consumers complain in no light register.
- Quality Supply: NEA regular works for addition of new transformers, shifting of distribution transformer at load centers, addition of two wires and upgradation of Substation have key roles in voltage improvement providing quality supply.
- Online Payment System: This system has given the service of paying the bill online and also updates about the bill payment for the consumers and the compulsion for consumers to come to counters for bill payment has ended, thus saving time of

- the consumer. Consumers can pay their bills via 8 service providers (eSewa, PayPoint, CFS Remit, City Express, Prabhu Bank, Nepal Investment Bank, Himalayan Bank and Mahalaxmi Bikash Bank)
- Onedoor system: NEA has introduced one door system to facilitate the consumers and to provide the service as quickly as possible. This system saves the time of the consumer.

Loss Reduction Program/Loss Reduction Activities

The distribution networks comprise of technical and non-technical losses, in which proportion of non-technical losses is quite high. During the year under review, various measures taken in the preceding years were continued to reduce the non-technical losses. Massive awareness campaigns as workshops and review meetings were implemented in various distribution centers. Strict measures for



electricity theft control such as confiscation of electric equipments and taking legal action against culprits were also conducted in various distribution centers with the help of local administration and security agencies. NEA management made various decisions as 'Immediate Action Plans' to improve its functioning. This plan included regular inspection of Time-of-Day (TOD) meters, data download and analysis to curb any connection fault or manipulation.

Future Plans/Programs

As high system loss is a major challenge for NEA, BRO is trying to make every effort to bring down the distribution system loss. It is also planning to improve the quality of the services through the use of new technologies and capacity building to meet the challenges of new environment in utility business. Consumer complaints shall be addressed without delay and the procedure for new connection related works shall be made simple and user friendly.

To reduce Non-Technical and Technical loss, these

future plans shall be implemented with the joint efforts of BRO and DCS.

For Non-Technical losses:

- Identification of electricity theft prone areas in different Distribution Centers.
- Public Awareness Program.
- Movement of Police and Staffs to remove hooking.
- Changing of Defective meters i.e. burnt, damage, stopped meters.
- Re-sealing of meters.
- Additional billing of HT/LT Consumers after analyzing TOD meter data download report as per the NEA, Electricity Distribution rules 2069.
- Upgrading of electricity meters to meet standard accuracy must be conducted to support reduction of non technical losses through statistical analysis



Electricity Theft Control



For Technical losses:

- Conversion of single-phase lines to three phase lines by the addition of two wires.
- Balancing of phase loads.
- Optimization of distribution system.
- Improve power factor and reducing the harmonic distortion by installing suitable size of Capacitor Banks at substation as well as installation of LV Capacitors on LV lines.
- Demand management measures.
- Re-location of distribution transformers at load center.
- Upgradation of distribution transformers and substation power transformers.
- Changing of broken insulators like Disc insulator, pin Insulator and shackle insulator.
- Tightining of Jumpers connecting with suitable size of conductors on HV and LV lines.
- Regular Trimming works of Bush and tree branches.

Safety measures/Safety Day

Safety is one of the major aspects in the distribution center services and the regional office is giving major priority to it. In this regard, not only the NEA employees, public awareness is also important. For this the RO is giving priority for people's awareness for electrical safety.

Challenges within Regional Office

The various challenges faced by the regional office to provide reliable service to the consumers are as follows:

- Most of the 33 kV feeders of Morang, Sunsari and Jhapa are overloaded and are unable to fulfill consumer demand and evacuate power from IPP's. To solve this problem Khanar-Dharan 33 kV line should be upgraded by HTLS conductor, Anarmani-Dhulabari, Rani-Rangeli 33 kV line should be upgraded.
- The construction of Inarwa-Bhimpur 132 kV, 126
 MVA substation can reduce the load of 33/11 kV
 Rani substation and Tanki sinwari substation,
 Duhabi-Damak transmission line of capacity126



Electrical Safety day awareness program conducted by Anarmani DC



Electrical Safety day awareness program conducted by Terathum DC

MVA should be constructed for distribution system reliability of the region.

- In Inarwa 400/220/132 kV substation can reduce the load of Duhabi 33/11 kV 63*3 MVA substation which is also is to be upgraded to 105*3 MVA to fulfill the energy demand of the region.
- Parajunge 132/33 kV, 2*24/30 MVA substation is running at almost full capacity of 55 MVA so atleast one of the transformer should be upgraded to 63 MVA.
- Construction of Duhabi-Katahari, Parajunge-Aitabaare, Parajunge-Jurepani 33 kV line should be completed as soon as possible after resolving the social issues.
- Due to the adverse topography in Taplejung, Terathum, Khaadbaari, Urlabaari, Dharan, Dhankuta DC within the regional office, it is very difficult to provide quick service to the consumers. Also line length is long with lack of voltage stability and severe losses in those areas.

Segregation of technical and non-technical losses,
 Social and political issues and flooding during the monsoon season are other challenges within the region.

Projects within the Regional Office

Ilam-Phidim-Taplejung 33 kV Tr Line & 33/11 kV Substation Project

The scope of the project includes the construction of 90 km of 33 kV transmission line and construction of 6/8 MVA substation at Taplejung. The construction of 33 kV Tr. Line from Phidim to Taplejung is completed, the civil construction works for 6/8 MVA substation at Taplejung is more than 90% complete and 50% of electro mechanical works is completed.

All electro-mechanical equipments are delivered at substation site. Substation will be charged by the end of 2019.. It is a Government Funded Project with the budget of 55,000 (in thousands). BRO aims to complete whole project by the end of 2019.

Aathrai-Sankranti Bazar 33 kV Transmission line Project

The project includes the construction of 25 km of 33 kV line, 25 km of 11 kV line, 40 km of LT Line and construction of 33 /11 kV 6/8 MVA substation at Sankranti Bazar and 33 kV Bay at Jiri Khimti, Tehrathum. Polling works of the projects are completed and 40% of conductor stringing is also completed. Remaining stringing will be completed in fiscal year 076/077. It is a Government Funded Project with the budget of 25,00 (in thousands).

Bhedetar-Rajarani 33/11 kV Transmission Line and Substation Project

The project includes the construction of 28 km of 33 kV Line, 15 km of 11 kV line, 15 km of LV distribution line, 33/11 kV 6/8 MVA Substation at Rajarani and 33 kV Bay at Letang, Morang. The construction of boundary wall at substation site has been completed. The 33 kV line has been re-routed from Rajarani to Letang after the agreement with the contractor and the construction work will start shortly. It is a Government Funded Project with the budget of 8600 (in thousands).

Taplejung-Panchthar-Bhojpur Distribution Network Strenghtening Project

The scope of the project is to re-inforce/strengthen the distribution network in Taplejung, Panchthar and Bhojpur Districts. Line extension works are also carried out in the areas where there is no electrification. It is a Government Funded Project with the budget of 50,00 (in thousands). For F/Y 074/075 the targeted work is achieved completely. For F/Y 2075/076, construction work is under progress.

Damak-Dharampur Electrification Project

The scope of the project included the construction of HT/LT Line and Transformer Installation in the area between Damak and Dharampur. It is a Government Funded Project with the budget of 50,00 (in thousands). For F/Y 074/075 the targeted work is achieved completely. For F/Y 2075/076, construction work is under progress. BRO aims to complete whole project by F/Y 2076/077.

Biratchowk-Letang 33 kV Transmission Line and 33/11 kV substation Project

This project lies in northern part of Morang District. It includes construction of 33 kV line from Biratchowk to Letang and 33/11 kV 6/8 MVA Substation in Letang. This project is vital to provide electricity supply in remote areas of Morang and Dhankuta districts. It not only helps in improving the voltage level but also provides the connection facilities to the many upcoming IPPs. It is a Government Funded Project with the budget of 19,200 (in thousands). Land Acquisition Works of the project is under progress.

Substation Status

S.N.	Distribution Centre	Substation Name/Location	Capacity (MVA)	Total Capacity (MVA)	Voltage level (kV)	Existing	Proposed	Planned	Underconstruction	Remarks	
1	Dhankuta	Dhankuta	6/8*1 + 1.5*1	11		√					
1	Diialikuta	Bhedetar	1.5*1	11		√					
2	Bhadrapur	Chandragadhi Dhulabari	6/8*2	40		√ √	√			Upgrading of one 6/8 MVA Power transformer by 20/24 MVA	
		Baniyani	6/8*1			√					
	Damak	Damak	16.6*1 + 6/8*1	41.0		√					
3	Dalliak	Buluchowk	16.6 * 1	41.2		\checkmark					
4	Dharan	Dharan	6/8 * 3	24		√	√			Upgrading of one 6/8 MVA Power transformer by 20/24 MVA	
_	Ilam	Fikkal	6/8 * 1	16		√					
5		Tilkaini	6/8 * 1	10		√					
6	Panchthar	Phidim	3*1	3		√					
7	Taplejung	Taplejung	1.5*1 + 3*1	4.5		√		V		Upgrading of 1.5 MVA Power Transformer by 6/8 MVA	
8	Inaruwa	Inaruwa	6/8*2	16	33/11	√		V		Upgrading of one 6/8 MVA Power Transformer by 10/13.3/16.6 MVA	
9	Rangeli	Rangeli	6/8 * 2	16		√					
10	Bhojpur	Bhojpur	3*1	3		√					
11	Khadbari	Tirtire	6/8*1	8		√					
12	Itahari	Khanar	16.2*2 + 6/8 * 1	41.2		√					
13	Biratnagar	Rani	16.6 * 2	66.4		√		√		Upgrading of one 10/13.3/16.6 MVA power transformer by 20/24 MVA	
		Tanki	16.6 * 2			√					
14	Belbari	Biratchowk	6/8 * 2	16		√					
15	Tehrathum	Jiri Khimti	3*1 + 1.5 *1	6		√					
15	1 cm autum	Basantapur	1.5 *1	U		√					
16	Anarmani	Ghailadubba	6/8 * 1	8			√		√		Upgrading of 6/8 MVA Power transformer by 10/13.3/16.6 MVA
	Т	otal Existing		320.4		23					

33 kV Feeder Status

S.N.	Name of Distribution Center	Name of 33 kV Feeder	Length of Feeder (km)	Conductor Name/Size (sq. inch)	Maximum/ Average Load (A)
		Khanar	7.3	Dog	325
1	Itahari DC	Khanar New	11	Dog	150
		Reliance	0.88	Dog	205
2	Terathum DCS	Basantapur - Jirikhimti	15	Dog/ 0.1	50
3	Khandbari DC	Dhankut-Tirtire s/s 33 kV	45.94	Dog/0.1	210
4	Ilam DC	Anarmani-Fikkal - Puwakhola	73 KM	Dog(0.1 ACSR Conductor)	56/36.75
5	Dhankuta DC	Dharan-Dhankuta	34.09	Dog/0.1	201 /128
6	Panchthar DC	Illam-Phidim	41.17	Dog/0.1	30/25
0	Panenthar DC	Phidim-Thapatar	3.62	Dog/0.1	20/15
7	Bhojpur DC	Hile - Bhojpur Feeder	44.44	Dog/0.1	19
		Anarmani-chancragadhi	12.52	Racoon .dog	235
	Dla duaman DC	chandragadhi-baniyani	17.72	Dog	60.6
8	Bhadrapur DC	Anarmani-dhulabari	14.15	Dog	207
		Sunmai-Charali	16.5	Dog	207
9	Urlabari DC			No 33KV Feeder	
10	Gauradaha DC			No 33KV Feeder	
	Damak DCS	Damak Bazaar Feeder	4.5	0.1	325/200
11	Daillak DCS	Panchgachhi Feeder	23.5	0.1	200/100
12	Belbari DC	Duhabi-Belbari	22.13	0.1	229
13	Rangeli DC	Biratnagar Rani-Rangeli	27	Dog/0.1	170.51
14	Dharan DC	Dhuhabi- Dharan-Chatara	41.56	Dog (0.1)	327
15	Taplejung DC	thapatar hiti	82.5	Dog	1.5
		Biratnagar 33kV-1	18.2	Racoon	270/215
		Biratnagar 33kV-2	18.2	Racoon	250/200
16	Biratnagar	Biratnagar 33kV-3	29	Bear	535/400
		RJM	2	Dog	30/30
		Industrial 33 kV	10	Bear	130/80
17	Duhabi Dc	33 kV Duhabi Industrial feeder	13.9	Dog/ 0.1 sq inch	126
18	Inaruwa	Duhabi S/S - Inaruwa S/S	15	Dog / 0.1 Sq.Inch	300/210
19	Anarmani DC	33 KV Damak Prasaran Line	7	Dog	210

11 kV Feeder Status

S.N.	Name of Distribution Center	Name of 11 kV Feeder	Length of Feeder (km)	Conductor Name Size (sq.inch)	Maximum/ Average Load (A)
		Gaisar	23.92	Dog, Rabbit	260
		Tarahara 22.9 Dog, Rabbit, Weasel		Dog, Rabbit, Weasel	150
		Pakali	52.12	Dog, Rabbit, Weasel	175
	Itahari DC	Industrial	8.25	Dog, Rabbit	145
1	Italiaii DC	NTC	4.84	Rabbit	3.6
		Itahari	27.45	Dog, Rabbit	225
		Khanar	15.22	Dog, Rabbit, Weasel	135
		Industrial Labipur	18.91	Dog, Rabbit, Weasel	185
	Inaruwa DC	Jhumka	94.46	Dog, Rabbit, Weasel	215
		Basantapur Sukrabare	98	Weaseal/0.03 & Rabbit/0.05	65
	Terathum DCS	Myanglung	33	Weaseal/0.03 & Rabbit/0.05	35
2	Teramum DCS	Morahang	112	Weaseal/0.03 & Rabbit/0.05	25
		Lasune	42	Weaseal/0.03 & Rabbit/0.05	10
		Khandbari Feeder	250.098	Weasel/0.03	114
	Whan dhani DO	Chainpur Feeder	71.55	Weasel/0.03	25
3	Khandbari DC	Madi Feeder	39.56	Weasel/0.03	13
		Mudhe Feder	49.25	Weasel/0.03	23
		Ilam	12.16	Rabbit(0.05 ACSR)	34/21
		Sakhejung	187.45	Weasel(0.03 ACSR)	78/62
4	Illam DC	Kanyam	98.02	Dog(0.1 ACSR)	145/110
		Laxmipur	54.57	Rabbit(0.05 ACSR)	94/73
		Danabari	181.59	Rabbit(0.05 ACSR)	53/42
		Parajungi Feeder	120km	Dog(0.1),Rabbit(0.05),Weasel(0.03)	246
5	Gauradaha DC	Gauriganj Feeder	107.4 km	Dog(0.1),Rabbit(0.05),Weasel(0.03)	241
		Kunjibari Feeder	34.5 km	Dog(0.1),Rabbit(0.05),Weasel(0.03)	48
		Triveni	49.7	Weasel/ 0.03	56/51
		Hile	141.35	Weasel/ 0.03	106/85
6	Dhankuta DCS	Belhara	81.6	Weasel/ 0.03	56/51
		Rajarani	91.89	Weasel/ 0.03	45/35
		Fakshib/Aahale	41.87	Weasel/ 0.03	15/10
		Phidim Feeder	77.3KM	Rabbit/o.o5	41/27
	Panchthar DC	Jorpokhari Feeder	35.66KM	Rabbit/o.o5	4/1.5
7	Panenthar DC	Kabeli Feeder	24.14KM	Rabbit/o.o5	0.5/0.2
		Yashok Feeder	63.5KM	Rabbit/o.o5	16.5/4.03
	Illam DC	Sakhejum Feeder	15.47KM	Rabbit/0.05	80/25
		Bazzar feeder	74.94	Rabbit & Wessel/ 0.05 & 0.03	34
		Aale Bokhim feeder	24.82	Rabbit & Wessel/ 0.05 & 0.03	7.5
8	Bhojpur DC	Kafle feeder	115.07	Rabbit & Wessel/ 0.05 & 0.03	21.7
		Hile feeder	50.72	Dog & Rabbit/ 0.1 & 0.05	5.5
		Belhara feeder	7.08	Weasel/ 0.03	2.75

		**************************************		5 5 11% 707 1	
		11 KV Bhadrapur	24.01	Dog, Rabbit, Weasel	197
		11 KV Jalthal	51.5	Dog, Rabbit, Weasel	165
		11 KV Chandragadhi	34.52	Dog, Rabbit, Weasel	137
		11 KV Haldibari	33.15	Dog, Rabbit, Weasel	160
		11 KV 750 KVA	4	Dog, Rabbit, Weasel	45
9	Bhadrapur DC	11 KV Prithvinagar	41.72	Dog, Rabbit, Weasel	75
	Jimurupur 20	11 KV Baniyani	28.295	Dog, Rabbit, Weasel	39
		11 KV Kechana	89.53	Dog, Rabbit, Weasel	62
		11 KV Singimadi	3.306	Dog	13
		11 KV Kakarvitta	86.391	Dog, Rabbit, Weasel	253
		11 KV Dhulabari	76.081	Dog, Rabbit, Weasel	276
		11 KV Dhaijan	45.83	Dog, Rabbit, Weasel	162
10	Urlabari DC	Urlabari	60km	Dog,Rabbit	280
10	Uriabari DC	Rajghat	30km	Dog	175
		Shivgunj	42.44	0.1/0.05/0.03	250/175
		Kunjibari	2.53	0.05	200/100
		Dhukurpani	63.56	0.1/0.05/0.03	300/250
11	Damak DCS	Damak Bazaar	31.85	0.1/0.05/0.03	325/275
		NTC dedicated feeder	2.77	0.05	5/2.5
		Kerkha 87.13 0.1/0.05/0.03		325/250	
		Padajungi	13.48	0.1/0.05/0.03	275/175
		Belbari	106.35	Dog, Rabbit, Weasel	251
12	Belbari DC	Kerabari	84.55	Dog, Rabbit, Weasel	269
		haraichaa	85.2	Dog, Rabbit, Weasel	116
		Rangeli Feeder	44.22	Dog:20Km, Weasel:24.22Km	80
			111	Dog:30Km, Rabbit:10Km,	
		Kanepokhari Feeder	87.85	Weasel:57.85Km	170
13	Rangeli DC			Dog:20Km, Rabbit:5Km,	
		Karshiya Feeder	82.18	Weasel:57.18Km	140
				Dog:50Km, Rabbit:10Km,	
		Sijuwa Feeder	106.4	Weasel:46Km	180
				Dog(0.1) ,XLPE (100 sq.mm) Rabit	
		Panmara Feeder	27.645	(0.05), Weasel (0.03)	133
		Dharan Feeder	23.445	Dog(0.1), Rabbit (0.05), Weasel (0.03)	133
		Local Chatara	31.647	Dog(0.1), Rabbit (0.05), Weasel (0.03)	136
		Chatara Bayerban	21.803	Dog(0.1), Rabbit (0.05), Weasel (0.03)	45
				Dog(0.1) ,XLPE (100 sq.mm) Rabit	
14	Dharan DC	Bhanu Feeder	7.185	(0.05), Weasel (0.03)	187
				Dog(0.1) ,XLPE (100 sq.mm) Rabit	
		Railway Feeder	12.8	(0.05), Weasel (0.03)	33
		BPKIHS feeder	1.56	XLPE(75 Sq.mm) ,Weasel (0.03)	66
		British feeder	0.97	XLPE(75 Sq.mm), Weasel (0.03)	31
		Industrial feeder	2.58	Dog (0.1)	44
		Khanepani feeder	9.04	Dog (0.1), Weasel (0.03)	66

15	Taplejung DC	fungling	46.5	Rabbit, Weasel	55
		bhrikuti	35	Dog	280/200
		katahari	27	Dog	270/215
		jhorahat	36	Dog	200/150
		tanki	12	Dog	200/190
		nahar	25	Dog	230/180
		khananbari	32	Dog	280/200
		airport	8	Dog	10/10
		bypass	27	Dog	280/200
		B.G.M	23	Dog	230/200
16	Biratnagar DC	rani	25	Dog	270/200
		budhnagar	22	Dog	150/80
		NCELL	4	Dog	
		NTC	6	Dog	
		biratanagar	31	Dog	290/215
		hatkhola	65	Dog	150/90
		tanki-2	5	Dog	70/40
		hatimudha 10 Dog		260/200	
		biratnagar 11KV-1	12	Dog	290/280
		biratnagar 11KV-3	13	Dog	125/95
		11 kV Tarhara 1	9.1 km	Dog /0.1	274
		11 kV Tarhara 2	17 km	Dog:0.1 ,Rabbit:.05,Weasel:0.03	264
17	Duhabi dc	11 kV biratnagar 2	12.3 km	Dog:0.1, Weasel:0.03	159
		11 kV duhabi	31.158 km	Dog:0.1 ,Rabbit:.05,Weasel:0.03	102
		11 kV inaruwa	121.805 km	Dog:0.1 ,Rabbit:.05,Weasel:0.04	138
		Industrial Feeder	12	Dog:0.1	184/160
		Gramin Feeder	88.1	Dog, Rabbit, Weasel(0.1,0.05, 0.03)	178/105
18	Inaruwa	Inaruwa Feeder	25.18	Dog, Rabbit(0.1,0.05)	186/110
		Laukahi Feeder	86.02	Dog, Rabbit(0.1,0.05)	170/100
		Jhumka Feeder	120	Dog, Rabbit, Weasel(0.1,0.05, 0.03)	234/160
		Garamani	71	Dog,Rabbit,Weasel	210
		Birtamode Bazar	18	Dog,Rabbit,Weasel	306
		Sanischare	82	Dog,Rabbit,Weasel	180
		Dhulabari	10	Dog,Rabbit,Weasel	335
19	Anarmani DC	Surunga	21	Dog,Rabbit,Weasel	387
		Charali	26	Dog,Rabbit,Weasel	247
		Kankai	124	Dog,Rabbit,Weasel	272.3
		Rajgud	54	Dog,Rabbit,Weasel	132.2
		Budhabare	5	Dog,Rabbit,Weasel	247

Electrification Status

S.No.	District	Municipalities / Rural Municipalities	Total Electrification % of municipalities (Grid Connected)	Populations	No of House- holds	Total 11 kV (HT) Circuit Kilometer (KM) required to fully electrified the Municipalities or rural municipalities	Total 0.4 kV (LT) Circuit Kilometer (KM) required to fully electrified the Municipalities or rural municipalities	No of Trans– former Required
		1. Phungling Municipality	74.84	27029	6129	25	75	28
		2. Aathrai Triveni Rural Municipality	84.51	14110	2956	8	32	12
		3. Sidingwa Rural Municipality	0.00	12384	2426	50	120	42
		4. Fakthanglung Rural Municipality	0.00	12300	2584	45	135	35
		5. Mikkwakhola Rural Municipality	0.00	9376	1912	15	130	15
1	Taplejung	6. Meringden Rural Municipality	33.07	12844	2640	24	110	20
		7. Maiwakhola Rural Municipality	0.00	11297	2246	25	105	33
		8. Pathibhara Yangwarak Rural Municipality	87.53	13912	2902	15	40	12
		9. Sirijangha Rural Municipality	0.00	16179	3304	60	105	38
		Total District : Taplejung	38.74	129431	27099	267	852	235
		1. Phidim Municipality	75.85	50426	11268	34	73	15
		2. Hilinang Rural Municipality	76.28	23483	4910	8	25	8
		3. Kummayak Rural Municipality	100.00	16519	3587			
		4. Maklajung Rural Municipality	76.84	25229	5688	13	31	6
2	Panchthar	5. Phalgunanda Rural Municipality	79.06	24660	5290	18	20	9
		6. Phalelung Rural Municipality	25.89	22428	4664	60	112	28
		7. Tumbewa Rural Municipality	37.14	13753	2885	21	31	10
		8. Yangawarak Rural Municipality	49.85	18737	3906	43	36	11
		Total District : Panchthar	67.91	195235	42198	197	328	87

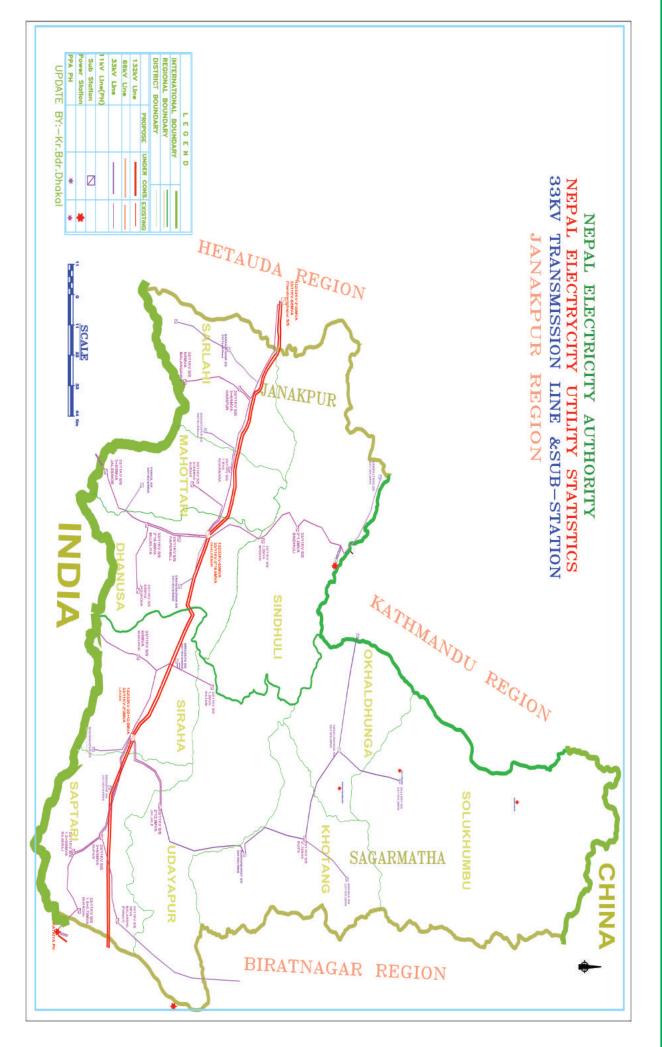
		1. Ilam Municipality	86.56	51773	12142	4	16	13
		2. Deumai Municipality	76.54	35123	7598	4	18.5	14
		3. Mai Municipality	54.24	34748	7549	11	26	25
		4. Suryodaya Municipality	81.07	60489	14092	6	16	12
		5. Phakaphokthum Rural Municipality	52.28	23062	4943	7	15	14
3	Ilam	6. Chulachili Rural Municipality	67.19	22208	4959	6	14	11
		7. Mai Jogmai Rural Municipality	76.30	22448	4989	4	15	11
		8. Mangsebung Rural Municipality	36.02	19736	3977	12	34	21
		9. Rong Rural Municipality	71.45	20411	4640	7	19	16
		10. Sandakpur Rural Municipality	76.70	17136	3886	5	14	8
		Total District : Ilam	71.68	307134	68775	66	187.5	145
		1. Mechinagar Municipality	92.04	125671	28716	42	95	55
		2. Damak Municipality	96.93	84468	20362	60	150	50
		3. Kankai Municipality	93.24	45146	10603	30	50	35
		4. Bhadrapur Municipality	92.04	73706	17175	24	56	32
		5. Arjundhara Municipality	80.46	67715	15323	45	125	40
		6. Shivasarakshi Municipality	86.41	72651	16525	40	150	30
		7. Gauradaha Municipality	94.92	59646	13576	25	73.5	41
		8. Birtamod Municipality	97.49	92089	21501	40	120	70
		9. Kamal Rural Municipality	85.08	49896	11534	30	60	20
4	Jhapa	10. Gaurigunj Rural Municipality	81.87	37152	8030	30	75	35
		11. Barhadashi Rural Municipality	75.00	37850	8322	25	125	40
		12. Jhapa Rural Municipality	55.97	38916	7983	20	70	30
		13. Buddashanti Rural Municipality	87.75	46771	10682	21	36	25
		14. Haldibari Rural Municipality	80.46	32542	7214	13	40	22
		15. Kanchankawal Rural Municipality	82.47	44467	9832	19	45	19
		Total District : Jhapa	88.10	908686	207378	464	1270.5	544

		1. Biratnagar Sub Metropolitan	91.31	240122	53471	20	50	25
		2. Belbari Municipality	100.00	73708	17156			
		3. Letang Municipality	90.69	35853	8211	30	15	8
		4. Pathari Sanishchare		00 00				
		Municipality	86.76	68383	15610	35	340	58
		5. Rangeli Municipality	92.83	58181	12583	25	35	20
		6. Sunwarshi Municipality	81.60	56778	12077	20	30	15
		7.Urlabari Municipality	92.11	61184	14015	22	227	51
		8. Sundraharaincha						
		Municipality	100.00	90069	20816			
		9. Ratuwamai Municipality	83.27	61949	13961	25	32	20
		10. Budhiganga Rural						
		Municipality	82.65	46519	10762	12	50	12
5	Morang	11.Dhanpalthan Rural						
		Municipality	90.86	44065	8902	10	25	15
		12. Gramthan Rural			00			
		Municipality	63.43	36597	8859	15	45	15
		13. Jahada Rural Municipality	60.92	46778	9144	14	56	15
		14. Kanepokhari Rural	00.00					
		Municipality	88.82	42545	9712	10	35	20
		15. Katahari Rural Municipality	64.90	4.4.4.0.1	9050	177	F-1	157
		16. Kerabari Rural	64.82	44491	8959	17	51	17
		Municipality	100.00	34040	7821	2	17	5
		17. Miklajung Rural	100.00	54040	7021		-/	3
		Municipality	81.19	25229	5688	93	587	47
		Total District : Morang	87.87	1066491	237747	350	1595	343
		1. Itahari sub metropolitan	94.39	165093	39702	20	50	60
		2. Dharan sub metropolitan	86.01	161790	38412	15	50	40
		3. Inaruwa Municipality	97.38	74716	15297	4	15	4
		4. Duhabi Municipality	100.00	66049	13974			
		5. Ramdhuni Municipality	84.62	60767	13500	10	30	25
		6. Barahachhetra Municipality	70.33	90946	20622	15	40	15
		7. Koshi Rural Municipality	83.32	51257	10038	12	20	6
6	Sunsari	8. Gadhi Rural Municipality	100.00	40948	8271			
U	Sullsaii	9. Barju Rural Municipality	100.00	36630	7346			
		10. Bhokraha Rural						
		Municipality	86.75	47594	7987	10	15	5
		11. Harinagara Rural						
		Municipality	87.70	47990	8040	9	12	6
		12. Dewanganj Rural						
		Municipality	86.85	41208	7473	18	25	10
		Total District : Sunsari	89.04	884988	190662	113	257	171

BIRATNAGAR REGIONAL OFFICE

		1.Pakhribas Municipality	94.50	23017	5189	2	5	2
		2. Dhankuta Municipality	96.59	38175	9862	2	3	2
		3. Mahalaxmi Municipality	91.91	25856	5715	2	4	3
		4. Sangurigadhi Rural						
		Municipality	91.87	22452	5260	3	5	4
7	Dhankutta	5. Khalsa Chhintang						
,		Sahidbhumi Rural	0 - 0 -					
		Municipality	89.82	19556	4040	3	7	4
		6. Chhathar Jorpati Rural	0					
		Municipality	90.83	19101	4412	3	4	4
		7. Chaubise Rural Municipality	89.52	20103	4735	4	6	5
		Total District: Dhankutta	92.80	168260	39213	19	34	24
		1. Myaglung Municipality	97.27	19528	4566	3	6	2
		2. Laligurans Municipality	94.45	16821	3653	2	8	1
		3. Aatharai R.M.	5.17	21605	4548			
8	Terhathum	4. Phedap Rural Municipality	87.75	17583	3779	4	18	2
		5. Chhathar Rural Municipality	90.26	16604	3613	5	12	2
		6. Menchyayam Rural						
		Municipality	95.59	8025	1781	3	7	2
		Total District : Terhathum	74.78	100166	21940	17	51	9
		1. Chainpur	93.03	26891	5906	5	25	8
		2. Dharmadevi	93.97	17956	3938	8	40	10
		3. Khandbari	96.02	30700	7406	5	20	4
		4. Madi	97.33	14248	3199	12	40	8
		5. Panchkhapan	76.32	17253	3615	18	40	12
9	Sankhuwasabha	6. Bhotkhola	0.00	6475	1372	100	150	15
		7. Chichila	49.09	6957	1509	25	56	11
		8. Makalu	0.00	13364	2907	70	95	12
		9. Sabhapokhari	47.04	10330	2181	60	90	10
		10. Silichong	0.00	11626	2400	65	98	15
		Total District : Sankhuwasabha	69.54	155800	34433	368	654	105
		1. Bhojpur	68.40	23703	5610	14	38	7
		2. Shadanand	63.17	27538	5953	25	34	13
		3. Hatuwagadhi	7.90	17778	3990	21	41	19
		4. Ramprasad Rai	51.94	16456	3500	11	28	10
		5. Aamchok	0.00	16311	3203	33	32	24
10	Bhojpur							All Transformers are Provided by Rural
		6. Tyamke Maiyunm	22.40	15866	3538	24	35	Muncipality
		7. Arun Gaunpalika	91.85	15410	3296	4.5	7	2
		8. Pauwadungma	47.98	13413	2858	8.5	14	8
		9. Salpasilichho	8.15	11422	2378	21	25	16
		Total District : Bhojpur	44.04	157897	34326	162	254	99

JANAKPUR REGIONAL OFFICE



JANAKPUR DISTRIBUTION CENTRE CHIEFS



Om Prakash Mahato Janakpur Regional Office Chief



Surya Narayan Mandal Janakpur DC



Bishnu Prasad Yadav Lahan DC



Raj Kumar Raman Sakhuwa DC



Chandra Narayan Shah Rajbiraj DC



Madhav Prasad Yadav Malangawa DC



Madhabendra Yadav Jaleshwor DC



Abdesh Kumar Dube Siraha DC



Ram Ayodhya Raya Yadav Udayapur DC



Bijaya Mahato Lalbandi DC



Digambar Yadav Mirchaiya DC



Sunil Kumar Mahato Yadukuwa DC



Khil Nath Aryal Sindhuli DC



Roshan Kumar Singh Gaushala DC



Ram Dinesh Raya Yadav Diktel DC



Roshan Kumar Singh Kanchanpur DC



Sanjib Shah Okhaldhunga DC

Introduction

Janakpur Regional Office (JRO) is one of the eight Regional Offices under the Distribution and Consumer Services Directorate and is responsible for overall management of electricity distribution services, operation and maintenance of distribution networks of Janakpur and Sagarmatha Zones. It comprises 16 Distribution Centers spread over in Dhanusha, Mahottari, Sarlahi, Sindhuli of Janakpur zone and Siraha, Saptari, Udaypur, Okhaldhunga, Khotang & Solukhumbu districts of Sagarmatha zone. Yadukuha DC and Kanchanpur DC are newly formed distribution centres of this region in the F.Y 2075/2076.

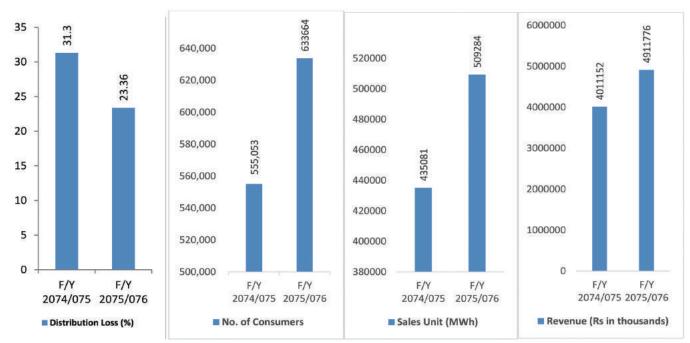
The major activities of this regional Office include operation, maintenance and rehabilitation of the electricity distribution networks up to 33 kV voltage Level and 33/11 kV Substations as well as consumer services activities such as new consumer connections, meter reading, billing, and revenue collection.

year under consideration two new distribution center namely Yadukuha and Kanchanpur were established for the convenience of the consumers. Regional office comprises of technical, financial and admistrative division which monitors various actions of the concern DCs. The source of fund is Government of Nepal and NEA itself. There are nine 33 kV transmission line, substation project and a rural electrification project funded by Government of Nepal under this regional office

Key Objectives

- To decrease the distribution system loss by controlling the electricity leakage and theft energy using the different tools of loss reduction activities/loss reduction programs.
- To implement interaction and public awareness programs which will enhance in the increment of sales, revenue collection and decrease in electricity loss.

The comparative salient features of this regional office are as follows:



Operational Structure

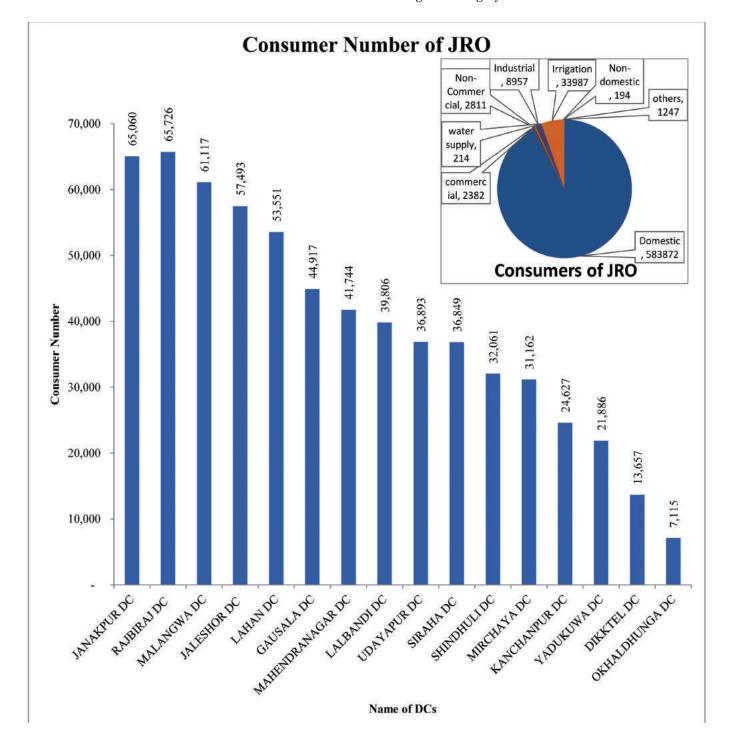
There are 16 Distribution Centers under JRO spread over Janakpur and Sagarmatha Zones. During the • Supply of reliable electricity to the consumers within the Region at statutory levels of voltage.

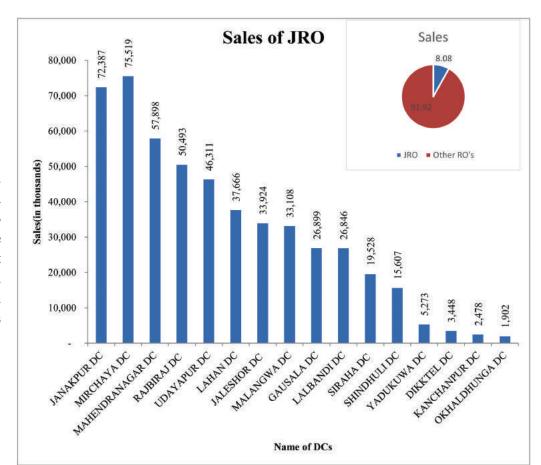
- Increase the revenue by increasing sales of electricity in the region.
- Provide new connections to prospective consumers.
- Ensure rational development of the electricity distribution system within the Region.

Highlights of the Year

Consumer Number

JRO recorded 633,664 consumer accounts by the end of the fiscal year 2075/076 which is 14.16% growth of consumers to that of last year. The majority of consumer accounts were in the domestic category while the second most were from the irrigation category.



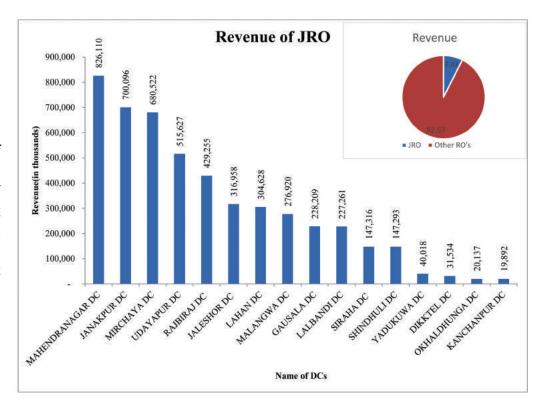


Sales

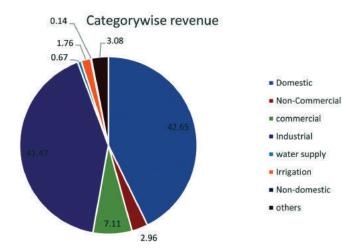
A total of 509,284.02 MWh of energy was sold in this FY 2075/076 which is an increase of 17.05% from last year. Sales contribution to NEA system from this Regional Office is 8.08%.

Revenue

The gross revenue of Rs. 66,101.00 million was earned in F/Y 2075/076 after selling of 509,284.02 MWh energy, which is 22.45% more than that of last year.



The majority of revenue in JRO recorded from domestic tariff category which is approximately 43% of the total revenue of the region.



Mahendranagar distribution Center accounts for 16.81%, Janakpur accounts for 14.25%, Mirchya accounts for 13.85%, Udayapur accounts for 10.49% and Rajbiraj accounts for 8.73% of the total revenue in the Region

Distribution Infrastructure

33 kV Distribution Lines	774.70km
11 kV Distribution Lines	5364.05 km
33/11 kV primary Substations	24
LV Distribution Lines	14500 km
LV Distribution transformers	4,249 Nos
Distribution Transformers Total installed capacity	351.96 MVA

Performance Highlights

Consumer per Staff	814
LT 0.4/0.24KV Line Length per Staff (km/staff)	18.64
Sales per Consumer per year (kWh/Consumer)	804
Revenue per Consumer per year (Rs./Consumer)	7,752
Consumer per Distribution Transformers	149

Customer Care

Distribution centers work as interfaces between NEA and its consumers. So, special efforts were taken to improve the quality of service at the consumer interface points. The employees took special attention and efforts to serve their valued consumers in more effective way. Nepal Electricity Authority has made

arrangements to submit electricity bill easily through the online systems. This system has given the service of paying the bill online and also updates about the bill payment for the consumers and the compulsion for consumers to come to counters for bill payment has ended, thus saving time of the consumer. Consumers can pay their bills via 8 service providers (eSewa, PayPoint,CFS Remit,City Express, Prabhu Bank,Nepal Investment Bank, Himalayan Bank and Mahalaxmi Bikash Bank). NEA has introduced one door system to facilitate the consumers and to provide the service as quickly as possible. This system saves the time of the consumer.

For the consumers having bulk payments and those who wants to pay bill at cash collection centers, the Queue Management System was initiated and is continued till date. This system solved the difficulties faced by the consumers in queuing for making the payments. Round the clock no-light services have been implemented in most of the urban no-light centers. Help desk and quick service is maintained in no light and consumer services for instant service to the costumer.

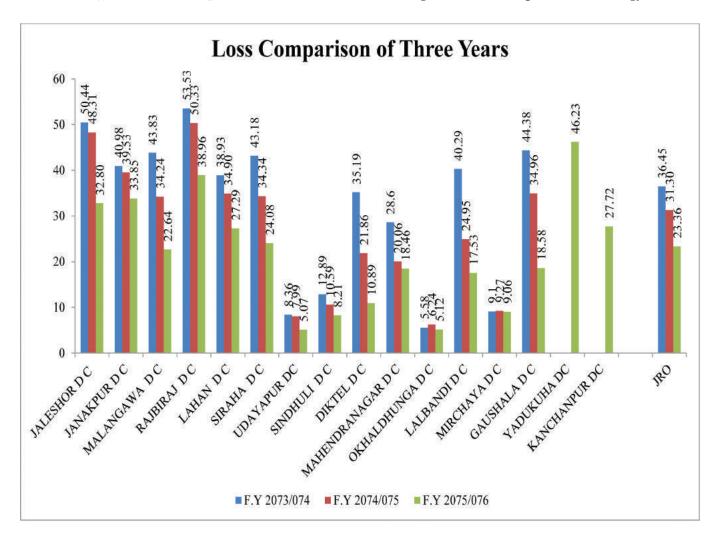


Introduction of Public Help Desk and One Door Service (Siraha DC)

Loss Reduction Program/Loss Reduction Activities

Loss reduction program was conducted as campaign throughout the fiscal year. In the initial phase, pamphlet distribution, miking and public hearing programmed were conducted in different DCs for awareness. Also with the help of Security Personnel, massive direct hooking control program was carried out. Similarly, intensive meter resealing and inspection program was done to minimize the chances of theft. Data download and analysis of All TOD meters were completed and additional billings against CT/PT outage, MF and reverse energy case have been processed.

Loss reduction program will be carried out as a campaign in this fiscal year. Consumers and local people will be motivated such that they do not indulge in illegal use of electricity. Activities like pamphleting, public hearing program, meter resealing, random inspection of energy meters,



Future Plans/Programs

As high system loss is a major challenge for NEA, JRO is trying to make every effort to bring down the distribution system loss. It is planning to improve the quality of the services through the use of new technologies and capacity building to meet the challenges of new environment in utility business. Consumer complaints shall be addressed without delay and the procedure for new connection related works shall be made simple and user friendly.

action against direct hooking and meter bypass case and TOD meter data download and analysis will be carried out continuously. Also reduction of technical loss will be given priority. Under this activity, actions like conductor upgrading, upgrading and installation of distribution transformer in appropriate load center to avoid the overloading and heavy loss will be carried out. Also all the industries will be informed to maintain power factor at minimum 0.8 and shunt capacitor connection will be made mandatory for new three phase industrial consumer.



Various Loss Reduction Activites conducted within the Region.

Safety Measures/ Safety day

Safety measures have become necessary as there is occurence of electric accidents of employees, people and domestic animals every year due to leakage of electricity and non-safety working habit. Initiative will be taken to raise the awareness of the working staff regarding safety hazards. Use of safety tools will be made mandatory for all the working staffs.

Challenges within Regional Office

The various challenges faced by the regional office to provide reliable service to the consumers are as follows:

 Chapur-Haripur-Malangwa 33KV Line connected to Chapur grid is about 100 km long which is overloaded to 22 MVA. Therefore, 132/33 kV grid substation must be constructed nearby Lalbandi & Malangwa.

- Janakpur 1 & Janakpur 2, 33 KV double circuit line of Mujeliya SS is connected to dhalkebar grid and 25 km long, also branched to paraul &Yadukuha. These lines are overloaded upto 20 MVA. Therefore, grid must be established near Janakpur and Jaleshowor area.
- Dhalkebar-Sindhuli and Lahan-Bishnupur 33



Electricity Saftey Day in Rajbiraj DC.

kV line should be shortened by constructing substation between the lines.

- Every year strong wind and floods occur in these area. Most of the substation are submerged in water. It is very difficult to restore line in those situation. This year Jaleshwor 33/11 kV SS was submerged under water in flood. Bishnupur SS, Rajbiraj SS, Rupni SS have most probable chances to be flooded during rainy season. Jaljale-Buipa-Okhaldhunga 33 kV line is mostly effected during flood.
- Most of the street lights are unaccounted in this region causing loss. It is common problem of almost all distribution center.
- Most of the 33/11 KV substation of this region does not have Power Capacitor Bank causing more technical loss. Power capacitor is only available in jaleshwor SS while remaining other does not have.
- Unauthorized use of electricity service increases loss in this region. Rajbiraj, Malangwa, Lahan, Yadukuha, Sakhuwa, Jaleshwor, Kanchanpur, Siraha dc have such major problem
- Line Upgrade and line rehabilation is needful work in present condition for proper supply of electricity.
 - 33 kV Janakpur 1 & Janakpur 2 line must be upgraded.
 - 33 KV line must be constructed between Dhanushadham and yadukuha.
 - Underground distribution network must be established in cities like Rajbiraj & Janakpur.
 - HT line must be made in 11 m Pole.
 - Galvanized Line material should be used and old rusty one should be replaced.

Projects within the Regional Office

Khurkot Nepalthok 33kV Transmission Line and Substation Project

The scope of the project is to construct 33 kV

transmission line and substation within the Khurkot Nepalthok region. It is a Government Funded Project with the budget of 230,500 (in thousands) and inception date of 066/067. The percentage of work completed is 35% with the amount of budget expended 66,862(in thousands). The work progress achieved so far is construction of staff quarter, control room and 22 km 33 kV line. Its completion date is FY 2076/77.

Okaldhunga Salleri(Solukhumbu) 33 kV Transmission Line and Substation Project

The scope of the project is to construct 33kV transmission line and substation within the Okaldhunga Salleri (Solukhumbu) region. It is a Government Funded Project with the budget of 170,500 (in thousands) and inception date of 066/67. The percentage of work completed is 30% with the amount of budget expended 16,225(in thousands). The work progress achieved so far is construction of 38 km 33 kV line. Its completion date is FY 2076/77.

Bhagwanpur 33 kV Transmission Line and Substation Project

The scope of the project is to construct 33 kVtransmission line and substation within the Bhagwanpur region. It is a Government Funded Project with the budget of 221,635 (in thousands) and inception date of 066/67. The percentage of work completed is 22% with the amount of budget expended 37,224(in thousands). The work progress achieved so far is construction of staff quarter and control room. Its completion date is FY 2076/77.

Sanghutar(Ramechhap) 33 KV Transmission Line and Substation Project

The scope of the project is to construct 33kV transmission line and substation within the Sanghutar (Ramechhap) region. It is a Government Funded Project with the budget of 131,000 (in thousands) and inception date of 066/67. The percentage of work completed is 22% with the amount of budget expended 20,921(in thousands). The work progress achieved so far is erection of 195 poles and stringing of conductor upto 10 Km out of 24 Km and construction of staff

quarter and control room. Its completion date is FY 2076/77.

Haripurwa Basanpur 33 kV Transmission Line and Substation Project

The scope of the project is to construct 33 kV transmission line and substation within the Haripurwa Basanpur region. It is a Government Funded Project with the budget of 212,618 (in thousands) and inception date of 066/67. The percentage of work completed is 28% with the amount of budget expended 54,107(in thousands). The work progress achieved so far is construction of staff quarter and control room. Its completion date is FY 2076/77.

Gadhariya Dumariya 33&11 kV Transmission Line and Substation Project

The scope of the project is to construct 33&11 kV transmission line and substation within the Gadhariya Dumariya region. It is a Government Funded Project with the budget of 199,164 (in thousands) and inception date of 066/67. The percentage of work completed is 32% with the amount of budget expended 50,782(in thousands). The work progress achieved so far is construction of staff quarter and control room. Its completion date is FY 2076/77.

HT/LT Line Construction at Singhadevi Raniban, Okhaldhunga

The scope of the project is to construct HT/LT line within the Singhadevi Raniban, Okhaldhunga region. It is a Government Funded Project with the budget of 39,000 (in thousands) and inception date of 070/71. The percentage of work completed is 35% with the amount of budget expended 6,365(in thousands). The work progress achieved so far is underconstruction of 2.2 KM 11 KV Line and 11 km 0.4 KV line. Its completion date is FY 2076/77.

HT/LT Line Construction at Nirmali Dada, Khotang

The scope of the project is to construct HT/LT line within the Nirmali Dada, Khotang region. It is a Government Funded Project with the budget of 17,000

(in thousands) and inception date of 070/71. The percentage of work completed is 95% with the amount of budget expended 10,922 (in thousands). The work progress is achieved and only measurement work is remaining. Its completion date is FY 2076/77.

Khurkot Ghurmi 33 KV Transmission Line and Substation Project

The scope of the project is to construct 33 kV transmission line and substation within the Khurkot Ghurmi region. It is a Government Funded Project with the budget of 282,441 (in thousands) and inception date of 066/67. Its completion date is FY 2077/78.

Rupni Sarsawar Kusumhar 33 KV Transmission Line and Substation Project

The scope of the project is to construct 33 kV transmission line and substation within the Rupni Sarsawar Kusumhar region. It is a Government Funded Project with the budget of 302,300 (in thousands) and inception date of 075/76. Its completion date is FY 2077/78.

Lohna Janakpur33 KV Transmission Line and Substation Project

Thescope of the project is to construct 33 kV transmission line and substation within the Lohna Janakpur region. It is a Government Funded Project with the budget of 322,740 (in thousands) and inception date of 075/76. Its completion date is FY 2077/78.



Construction of New Substation in Siraha

Substation Status

			Total	Voltage					
S.	Distribution	Name of	Capacity	Level	Existing	Proposed	Planned	Underconstruction	Remarks
No	Center	Substation	(MVA)	(kV)					
1	Janakpur	Mujeliya	32.1		V				Planned to be Upgraded soon by 40MVA
2	Yadukuha	Yadukuha	16.6		√				Before FY 2075/076,it was under Janakpur DC
4	Sakhuwa	Dhanushadham	8		√				
5	Jaleshwor	Jaleshwor	16		√				
6	Jaleshwor	Paraul	8		√				
7	Gaushala	Aurhi	16		√				
8	Gaushala	Khairmara	3		√				
9	Malangwa	Malangwa	16		√				
10	Malangwa	Barahathwa	8		√				
11	Lalbandi	Haripur	24		√				
12	Sindhuli	Sindhuli	8		√				
13	Sindhuli	Bhiman	1.5		√		V		Planned to be Upgraded soon by 6/8MVA
14	Siraha	Bishnupur	16		\checkmark				
15	Mirchaiya	Mirchaiya	8	33/11	√		V		Planned to be Upgraded soon by 16MVA
16	Rajbiraj	Rajbiraj	16		√				
17	Rajbiraj	Rupni	11		√				
18	Rajbiraj	Bode Barsain	8		√				Recently Charged
19	Kanchanpur	Bhardah	3		√				Before FY 2075/076,it was under Rajbiraj DC
20	Kanchanpur	Balardah	8		√				Before FY 2075/076,it was under Rajbiraj DC
21	Udayapur	Jaljale	25		√				
22	Udayapur	Taraghari(Katari)	3		√				
23	Okhaldhunga	Okhaldhunga	2.25		√				
24	Diktel	Buipa	3						
25	Diktel	Bagedhunga	3		V				Recently Charged but no outgoing11 KV Feeder
26	Lahan	Bhagwanpur						√	Under Construction (16.6 MVA)
27		Rakathum						√	Under Construction (16.6 MVA)
28		Haripurwa						√	Under Construction (16.6 MVA)
29		Gadhaiya						√	Under Construction (16.6 MVA)
	Existing total MVA		263.45		24				

33 kV Feeder Status

S.N.	Name of Distribution Center	Name of 33kV Feeder	Length of Feeder (km)	Conductor Name/Size (sq.inch)	Maximum/ Average Load (A)
1	Janakpur	Janakpur 1	25	Dog	300/240
2	Janakpur	Janakpur 2	25	Dog	320/280
3	Sakhuwa	Dhanushadham	28	Dog	35/20
4	Jaleshwor	Parul	35	Dog	80/60
5	Jaleshwor	Sursand(India) to Jaleshwor	10	Dog	180/140
6	Gaushala	Dhalkebar to Aurhi SS	30	Dog	140/100
7	Gaushala	Bardibas to Khairmara	35	Dog	20/14
8	Malangwa	Haripur to Malangwa	25	Dog	240/200
9	Malangwa	Bagmati - Barahatwa	20	Dog	80/60
10	Lalbandi	Chapur-Haripur	37	AAA	400/340
11	Lalbandi	Bagmati - Bailbash	16	Dog	18/15
12	Sindhuli	Dhalkebar to Sindhuli SS	45	Dog	70/50
13	Siraha	Lahan- Bishnupur	34	Dog	130/100
14	Siraha	Jayanagar(India) to Bishnupur	25	Dog	130/100
15	Mirchaiya	Mirchaiya to Paanbari	8	Dog	Not in Operation
16	Rajbiraj	Lahan to Rajbiraj	44	Dog	260/220
17	Rajbiraj	Lahan- Rupni	32	Dog	150/120
18	Rajbiraj	Rupni to Rajbiraj	12	Dog	260/230
19	Rajbiraj	Bishanpur to Bode Barsain	11	Dog	50/38
20	Rajbiraj	Bhardah to Rajbiraj	20	Dog	150/120
21	Rajbiraj	Rajbiraj Switchyard to Pumpeanal Switchyard	36	Dog	
22	Kanchanpur	Kataiya(India) to Bhardah	13	Dog	80/60
23	Kanchanpur	Rupni to Balardah	32	Dog	120/100
24	Udayapur	Lahan to Jaljale	23.5	Dog	200/160
25	Udayapur	Mirchaiya to Taraghare	28.2	Dog	40/35
26	Diktel	Jaljale to Buipa	69	Dog	30/20
27	Diktel	Raswaghat to Bagedhunga	8	Dog	
28	Okhaldhunga	Buipa to Okhaldhunga	33	Dog	16/14
29	Yadukuha	Mujeliya to Yadukuha	15	Dog	100/80
	Total		774.7		

11 kV Feeder Status

S.N.			Length Conductor Name		Maximum/
	Distribution	Name of 11kV Feeder	of Feeder	Size (sq.inch)	Average
	Center	D1 : 17	(km)	_	Load (A)
1	Yadukuha	Bhatihan	32	Rabbit and Weasel	110/80
		Sonigama	42	Rabbit and Weasel	80/60
		Dhabauli	78	Rabbit and Weasel	140/115
2	Janakpur	City1	97	Dog and Rabbit	150/120
		City2	74	Dog and Rabbit	180/160
		City 3	89	Dog and Rabbit	150/120
		City 4	62	Dog and Rabbit	120/100
		Pidari	94	Dog ,Rabbit and Weasel	200/160
		Ring	123	Dog, Rabbit and Weasel	120/100
		Dedicated	19	Rabbit and Weasel	16/14
		Mahendranagar	91	Dog,Rabbit and Weasel	140/120
		Industrial	7	Rabbit and Weasel	40/30
3	Sakhuwa	Mahendranagar	91	Dog, Rabbit and Weasel	235/200
		Lalgadh	22	Dog, Rabbit and Weasel	185/150
		Godar	154	Dog, Rabbit and Weasel	265/200
		Industrial	7.92	Dog, Rabbit and Weasel	75/60
		Sabaila	31	Dog, Rabbit and Weasel	40/30
4	Jaleshwor	City	30	Dog, Rabbit and Weasel	80/60
		Ring	15	Dog, Rabbit and Weasel	20/15
		Ekdara	45	Dog, Rabbit and Weasel	80/60
		Katti	55	Dog, Rabbit and Weasel	125/80
		Pipara	73	Dog, Rabbit and Weasel	150/120
		Mathiyani	45	Dog, Rabbit and Weasel	120/90
		Paraul	61	Dog, Rabbit and Weasel	70/60
		Loharpatti	74	Dog, Rabbit and Weasel	80/70
5	Gaushala	Gaushala	98	Rabbit	140/100
		Sonamai	50	Rabbit	100/85
		Bhangaha	51	Rabbit	100,/70
		Aurhi	40	Dog and Weasel	80/55
		Lalgadh	46	Dog and Weasel	130/78
		Bazar	20	Dog, Rabbit and Weasel	60/40
		Bharat tole	3	Dog, Rabbit and Weasel	20/18
6	Malangwa	Malangwa	18	Dog, Rabbit	140/100
		Kaudena	330	Rabbit	180/150
		Gramin	51	Rabbit	140/100
		Barahathwa	65.2	Rabbit	180/140
		Hirapur	55	Rabbit	60/40
		Panchgachhiya	46	Dog, Rabbit and Weasel	120/70
		Gair	26	Dog, Rabbit and Weasel	40/20
7	Lalbandi	Lalbandi Feeder	75	DOG	150/120A
	zanounui	Harion Feeder	85	DOG	170/150A
		Gair Feeder	20	DOG	40/20A

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		Pangachhiya Feeder	77	DOG	120/70A
8	Sindhuli	Bazar	12.5	Dog & Rabbit	90/70
	S11101110111	Beni	175	Rabbit	60/45
		Majhitar	80	Rabbit	22/20
		Ranibas	86	Dog and Rabbit	70/50
		Bhiman	8	Dog and Rabbit	15/14
		Dudhauli	75	Dog and Rabbit	60/40
9	Lahan	Lahan	40.5	Dog and Rabbit	200/160
	Buildin	Jahadi	150	Dog and Rabbit	220/200
		Thadi	111	Dog and Rabbit	240/205
		Sitapur	66	Dog and Rabbit	200/160
		Bastipur	56	Dog and Rabbit	80/60
10	Siraha	Siraha	62.47	Dog, Rabbit and Weasel	220/200
10	Sirunu	Sanhaitha	90.96	Dog, Rabbit and Weasel	80/60
		Kalyanpur	68.89	Dog, Rabbit and Weasel	120/100
11	Mirchaiya	Mirchaiya	55	Dog and Rabbit	110/90
- 11	19111 Cilarya	Golbazar	95	Dog, Rabbit and Weasel	180/150
		Bandipur	39	Dog, Rabbit and Weasel	80/60
12	Rajbiraj	Bazaar1	16	Dog and Rabbit	140/120
12	тајытај	Bazaar2	18	Dog and Rabbit	160/140
		East	32	Dog, Rabbit and Weasel	120/100
		Hospital	1	Dog, Rabbit and Weasel	5
		Raipur Feeder	14	Dog, Rabbit and Weasel	190/160
		South	37	Dog, Rabbit and Weasel	150/120
		West	65	Dog, Rabbit and Weasel	145/100
		Kalyanpur	172	Dog, Rabbit and Weasel	305/260
		Raipur	8	Dog, Rabbit and Weasel	16/14
		Kanchanpur	30	Dog, Rabbit and Weasel	130/110
		Industrial	7	Dog, Rabbit and Weasel	10
13	Kanchanpur	Kanchanpur (From Bhardah)	28	Dog, Rabbit and Weasel	90/70
		Hanumannagar	8	Dog, Rabbit and Weasel	70/60
		Kanchanpur (From Balardah)	44	Dog, Rabbit and Weasel	50/40
14	Udayapur	Gaighat	110	Rabbit and Weasel	180/150
	7	Katari	64.76	Rabbit and Weasel	60/40
		Beltar	99.18	Dog, Rabbit and Weasel	120/100
		jojdiah	27	Rabbit and Weasel	45/26
		Jaljale	35	Rabbit and Weasel	32/20
		Sindhuli	20.67	Rabbit and Weasel	60/40
15	Okhaldhunga	Ramechhap Singhadevi	80	Weasel	18
		Okhaldhunga	85	Weasel	25
		Pokhre Feeder	40	Weasel	6
16	Diktel	Diktel	127	Weasel	60/40
		Rajapani	132	Weasel	30/25
		Halesi	124	Rabbit and Weasel	40/30
	Total		5364.05		

Electrification Status

S. No.	District	Municipalities Rural Municipalities	Total Electrification % of Municipality (Grid Connected)	Popula- tions	No of House- holds	Total 11 kV (HT) Circuit Kilometer (KM) required to fully electrified the Municipalities or rural municipalities	Total 0.4 kV (LT) Circuit Kilometer (KM) required to fully electrified the Municipalities or rural municipalities	No of Transformer Required
		1. Bodebarsain	44.53	47553	8824	10	25	15
		2. Dakneshwori	53.75	47030	8964	12	30	20
		3. Hanumannagar Kankalini	68.33	50309	8970	15	25	20
		4. Kanchanrup	88.47	58617	11212	6	16	18
		5. Khadak	55.79	49905	9477	10	25	10
		6. Sambhunath	65.74	34953	6805	12	25	10
		7. Saptakoshi	88.20	23243	4994	6	19	16
		8. Surunga	67.52	48646	9515	15	25	10
		9. Rajbiraj	76.75	76020	14731	10	30	15
1	Saptari	10. Agnisaira Krishnasavaran	86.46	30811	6023	4	10	10
		11. Balan-Bihul	66.36	24002	4373	15	30	15
		12. Belhi Chapena	66.16	29971	5403	10	25	10
		13. Bishnupur	65.45	25343	4809	12	25	12
		14. Chhinnamasta	76.89	26782	5190	10	20	12
		15. Mahadeva	65.69	31396	5935	8	25	15
		16. Rupani	76.34	29026	5514	10	30	15
		17. Tilathi Koiladi	67.01	34908	6267	10	30	15
		18. Tirhut	85.88	24211	4485	3	8	8
		Total District : Saptari	69.72	692726	131491	178	423	246
		1. Lahan	81.30	100299	18780	14	22	5
		2. Dhangadhimai	69.34	51863	9572	16	10	4
		3. Siraha	86.15	90206	16916	16	21	29
		4. Golbazar	79.21	56987	11051	7	35	5
		5. Mirchaiya	81.53	53459	10202	30	45	15
		6. Kalyanpur 7. Karjanha	77.09 72.60	53874 33848	10264 6653	8	13 40	3
		8. Sukhipur	72.93	40314	7361	12	22	5
	~	9. Bhagwanpur	71.75	22906	4001	7	12	2
2	Siraha	10. Aurahi	79.43	25189	4640	4	40	7
		11. Bishnupur	78.72	20244	3791	5	6	8
		12. Bariyarpatti	70.00	27605	4660	13	19	3
		13. Lakshmipur Patari	70.00	30663	5279	15	30	10
		14. Naraha	80.09	21169	4016	4	9	5
		15. Sakhuwanankar Katti	71.06	20284	3704	10	14	5
		16. Arnama	79.69	25043	4423	5	4	8
		17. Navarajpur Total District : Siraha	79.75 77.88	20787 694740	3584 128897	4 177	12 354	3 129

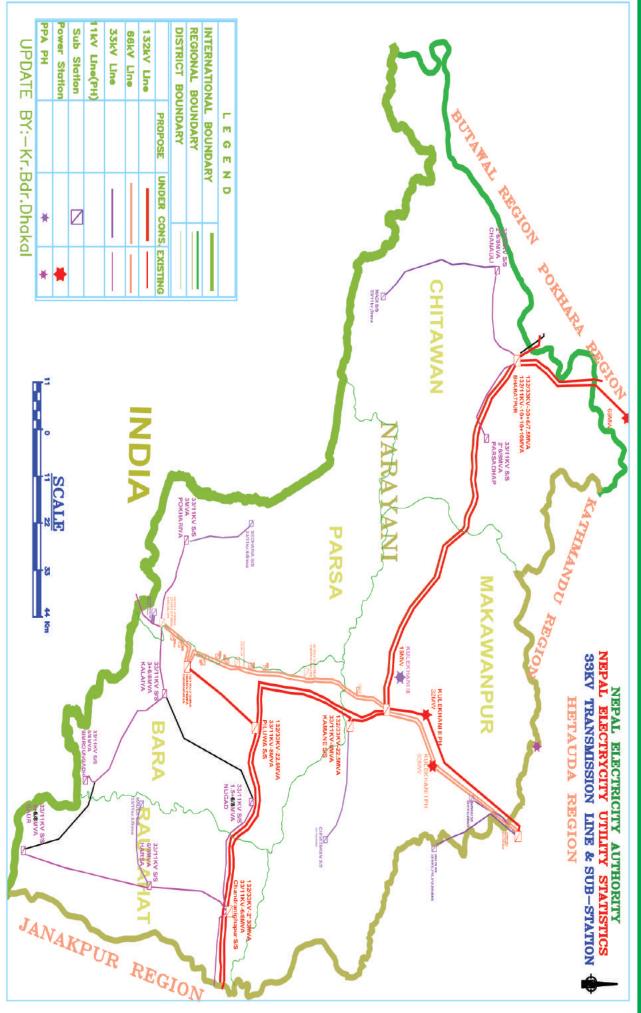
		1. Janakpur Sub					96	
		Metropolitan City	93.00	178925	33746	34	90	36
		2. Chhireshwarnath	96.38	46110	8578	1	3	10
		3. Ganeshman Charanath	88.04	40093	7764	2	4	8
		4. Dhanusadham	91.60	50292	9614	1	5	12
		5. Nagarain	93.03	39260	7022	5	36	9
		6. Bideha	77.88	35599	6419	8	30	20
		7. Mithila	87.21	42871	7823	5	40	10
		8. Sahidnagar	64.84	52320	9567	19	60	20
	DI I	9. Sabaila	84.62	57799	11112	3	14	19
3	Dhanusha	10. Kamala	41.48	42613	7722	12	45	20
		11. Mithila Bihari	93.87	37022	6693	7.5	40	10
		12. Hansapur	93.08	42164	7626	5	40	7
		13.Janaknandani	75.00	27955	4922	12	45	10
		14. Bateshwar	89.86	23754	4050	5	12	10
		15. Mukhiyapatti Musharniya	91.95	28114	4556	4	36	6
		16. Lakshminya	95.22	31170	5511	2.5	20	8
		17. Aurahi	89.94	24910	4416	1	8	2
		18. Dhanauji	90.38	23606	4101	5	12	10
		Total District : Dhanusha	83.69	824577	151242	132	546	227
		1. Aurahi Municipality	88.32	35567	6502	6	21	12
		2. Balawa Municipality	95.00	47282	8555	11	10	3
		3. Bardibas Municipality	85.49	71706	14643	35	40	17
		4. Bhangaha Municipality	84.40	52214	9558	8	35	15
		5. Gaushala Municipality	83.17	74461	13281	8	30	15
		6. Jaleshwor Municipality	95.00	64264	11206	12	50	5
		7. Loharpatti Municipality	95.00	44538	8171	9	45	4
		8. Manara Shiswa Municipality	94.08	55492	9528	8	30	3
4	Mohottari	9. Matihani Municipality	95.00	34647	5837	9	20	2
		10. Ramgopalpur Municipality	95.00	33960	5871	9	45	4
		11. Ekdara Rural Municipality	95.00	32737	5370	6	20	2
		12. Mahottari Rural	05.00	30633	5428	6	20	2
		Municipality	95.00	0 00				
		Municipality 13. Pipara Rural Municipality	95.00	39669	7247	7	20	2
						7 7	20 20	2
		13. Pipara Rural Municipality	95.00	39669	7247			

		1.Bagmati Municipality	80.32	46256	9143	10	20	11
		2.Balara Municipality	98.00	51746	8809	20	35	8
		3.Barahathwa Municipality	96.00	79946	13573	22	32	6
		4.Godaita Municipality	98.81	54603	9046	16	30	7
		5. Harion Municipality	75.32	50294	9848	3	22	11
		6.Haripur Municipality	86.09	42767	7461	3 4	15	9
		7.Haripurwa Municipality	97.00	41267	6761	24	35	8
		8.Ishworpur Municipality	80.34	68685	12680	6	20	14
		9.Kabilasi Municipality	96.00	48475	7867	21	31	9
		10.Lalbandi Municipality	70.30	68007	14012		25	
		11.Malangwa Municipality		53261	9060	12	25	17
		12.Basbariya Rural Municipality	99.00 95.00	26985	4236	18	26	6
		13.Bishnu Rural Municipality	97.00	28336	4588	22	35	8
5	Sarlahi	14.Brahampuri Rural Municipality	96.00	34159	5422	17	28	6
		15.Chakraghatta Rural						
		Municipality	98.00	32005	5047	25	37	8
		16.Chandranagar Rural		<u> </u>	3 17			
		Municipality	95.00	38160	6342	22	35	7
		17.Dhankaul Rural	,,,	Ü	01			,
		Municipality	96.00	28383	4539	17	32	7
		18.Kaudena Rural		0.0	1007	,		,
		Municipality	98.00	29867	4664	16	22	6
		19.Parsa Rural Municipality	96.00	24788	3827	17	23	5
		20.Ramnagar Rural		17	,	,		
		Municipality	95.00	32892	5137	19	24	6
		Total District : Sarlahi	90.12	880882	152062	315	552	166
		1. Solududhkunda	46.00	19804	4834	80	240	22
		2. Thulung Dudhkoshi	0.00	19097	4116	72	216	18
		3. Necha Salyan	0.00	15658	3530	45	135	12
		4. Nappe Dudhkoshi	0.00	13021	2721	56	168	14
6	Solukhumbu	5. Maha Kulung	0.00	11118	2378	50	200	10
		6. Sotang	0.00	9252	1988	36	108	12
		7. Likhu Pike	0.00	5373	1134	50	100	10
		8. Khumbu Pasanglhamu	43.00	8727	2362	50	100	10
		Total District : Solukhumbu	14.05	102050	23063	439	1267	108
		1. Siddhicharan	66.46	28608	7145	60	120	12
		2. Manebhanjyang	7.53	21536	4720	90	200	15
		3. Champadevi	1.06	19022	3879	100	220	20
		4. Sunkoshi	0.00	18955	4075	80	240	20
7	Okhaldhunga	5. Molung	0.00	16598	3751	80	240	16
	Oknaiununga		60.70	15529	3406	20	60	6
		6. Chisankhugadhi						
		6. Chisankhugadhi 7. Khiji Demba				90	270	18
		7. Khiji Demba 8. Likhu	0.00	15436 14356	3178 3022	90 27	270 60	18 7

JANAKPUR REGIONAL OFFICE

		1. Rupakot Majhuwagadhi	83.71	40422	8661	10	49	8
		2. Halesi Tuwachung	57.73	25451	5030	45	75	18
		3. Khotehang	57.05	19367	4054	23	65	15
		4. Diprung	72.58	17386	3568	10	39	8
		5. Aiselukharka	14.22	13872	3008	35	87	21
8	Khotang	6. Jantedhunga	4.38	13309	2736	23	121	23
		7. Kepilasgadhi	19.85	13175	2884	35	127	24
		8. Barahpokhari	16.68	12367	2329	12	121	22
		9. Lamidanda	89.71	11521	2407	0	15	1
		10. Sakela	57.81	9991	2076		65	12
		Total District : Khotang	54.21	176861	36753	193	764	152
	Udayapur	1. Triyuga	74.03	97094	21605	25	65	25
		2. Katari	61.25	62259	12995	30	65	30
		3. Chaudandigadhi	67.26	53865	11664	40	80	25
		4. Belaka	59.84	47001	9903	20	45	20
9		5. Udayapurgadhi	4.85	34078	6851	40	80	25
		6. Rautamai	18.37	26038	5173	40	70	20
		7. Tapli	0.00	16148	2997	35	65	15
		8. Limchungbung	0.00	13297	2568	25	40	12
		Total District : Udayapur	52.89	349780	73756	255	510	172
		1.Kamalamai Municipality	82.66	67285	14960	8	15	5
		2. Dudhauli Municipality	73.20	68243	13758	10	20	9
		3. Golanjor	46.40	20200	3848	10	19	5
		4. Ghyanglekh	3.06	14381	2568	10	20	5
10	Sindhuli	5. Teen Patan	54.82	38043	7189	10	15	4
10	Silidhuli	6. Phikkal	0.00	17733	3172	10	15	4
		7. Marin	69.34	29076	5090	10	15	3
		8. Sunkoshi	55.06	22440	4763	10	15	4
		9. Hariharpur Gadhi	1.54	28976	4794	9	12	4
		Total District : Sindhuli	57.31	306377	60142	87	146	43

HETAUDA REGIONAL OFFICE



HETAUDA REGIONAL AND DISTRIBUTION CENTRE CHIEFS



Shreeram Raj Pandey Hetauda Regional Office Chief



Munindra Thakur Birgunj DC



Shambhu Kusiyat Yadav Hetauda DC



Chutun Kumar Shreewastav Tandi DC



Gajendra Kumar Chaudhary Kalaiya DC



Suresh Kumar Mahato Bharatpur DC



Rohini Paudel Simara DC



Umesh Kumar Yadav Gaur DC



Sudhir Kumar Ray Pokhariya DC



Shekh Maksud Aalam Chandranigahapur DC



Santosh Prasad Pant Palung DC



Introduction

Hetauda Regional Office (HRO) is one of the eight Regional Offices under Distribution and Consumer Services Directorate (DCSD). Area of operation of this regional office covers Narayani Zone. It is responsible for overall management of electricity distribution services, operation and maintenance of electrical networks within the area under its scope.

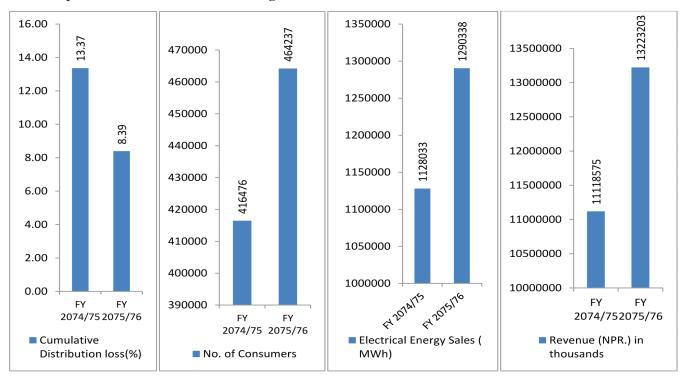
The major activities of this Regional Office (RO) include operation, maintenance, rural electrification and rehabilitation of the electricity distribution networks up to 33 kV voltage Level and 33/11 kV Substations as well as consumer services activities such as new consumer connections, meter reading, billing, and revenue collection.

matters like projects, planning & development, corporate work and co-ordination of rural electrification activities within the region. There is a finance and revenue section to look after the financial and budgetary functions of the region. The regional office is provided with a separate administrative officer to attend human resource function. The source of fund is Government of Nepal and NEA itself. There are nine 33 kV transmission line, substation project and a rural electrification project funded by Government of Nepal under this regional office.

Key Objectives

 To decrease distribution system loss by controlling electricity leakage and theft of the energy by loss reduction programs.

The comparative salient features of the regional office are as follows:



Operational Structure

There are 10 Distribution Centers (DCs) and 1 Sub Distribution Center under the regional office. Technical division of the RO looks after all the technical

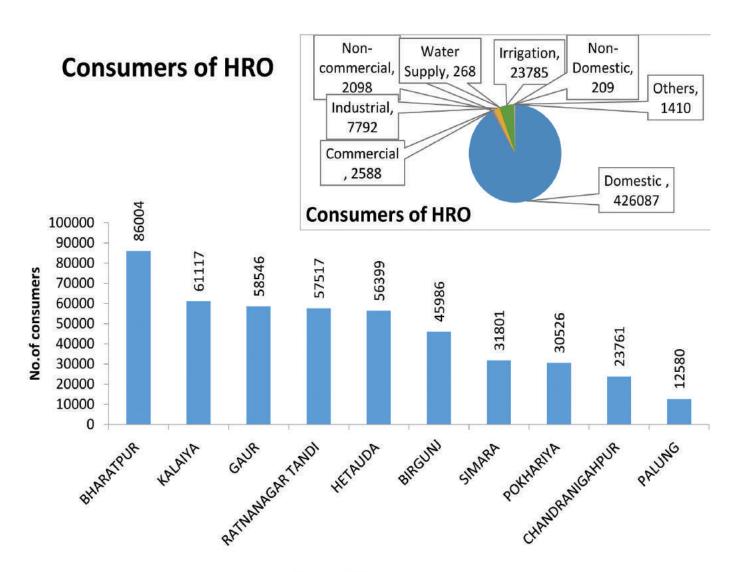
- Supply of reliable electricity to the consumers within the Region at statutory levels of voltage.
- Sell electricity and achieve planned surpluses of revenue.

- Provide new connections to prospective consumers.
- Ensure rational development of the electricity distribution system within the Region.

Highlights of the Year

Consumer Number

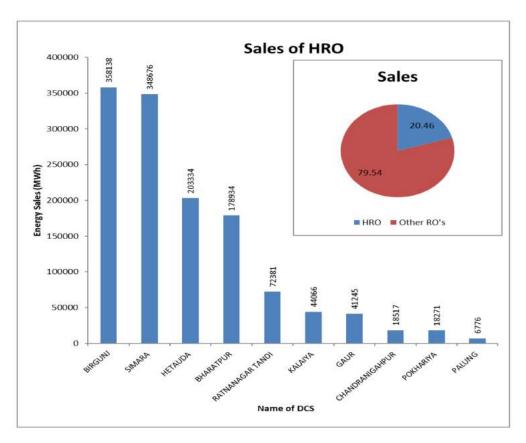
The HRO recorded a total of 464,237 new consumer accounts this fiscal year and most of them belonged to domestic category. There has been increase in the number of consumers by 11.47% as compared to last fiscal year. Most of the new consumers were connected to Bharatpur DC.



Name of DCs

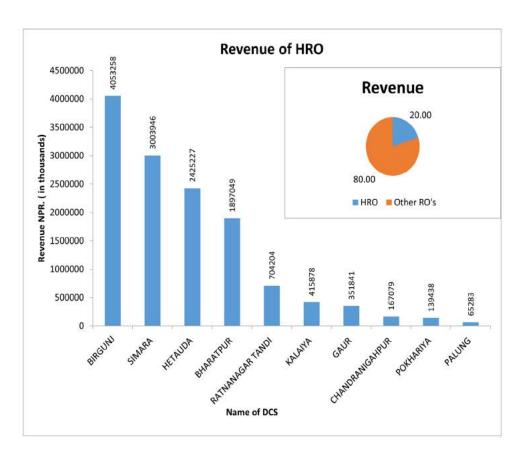
Sales

The Electrical energy sales of the RO has gone up by 14.39% as compared to last fiscal year. Hetauda Regional Office reported 20.46 % of total sales of electrical energy of Nepal Electricity Authority (NEA). Birgunj, Simara, Hetauda and Bharatpur DCs are top four contributors in increased energy sales of the RO for this fiscal year with 27.76%, 27.02%, 15.76% and 13.87% contribution respectively

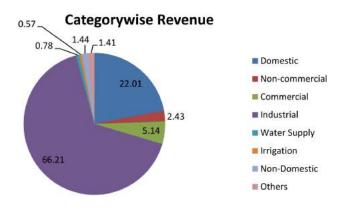


Revenue

The revenue of the RO has increased by 18.93% compared to the last fiscal year.Thetotalrevenueearned by the RO this Fiscal Year is NPR.13.22 billion which is about 20% of total revenue earned. Birgunj, Simara, Hetauda and Bharatpur DCs are top four contributors in increased revenue of the RO for this fiscal year with 22.72%,18.34% 30.65%, and 14.35% contribution respectively. Industrial, Domestic and Commercial consumers respectively were first, second and third highest contributors to total revenue of the RO.



The majority of revenue in HRO is recorded from industrial tariff category which is approximately 66.21% of the total revenue of the region followed by domestic consumers of 24.83%.



Distribution Infrastructure

Length of 33 kV Distribution Line, excluding	239.7
line length under Palung DC (ckt. km.)	
Length of 11 kV Distribution Line (ckt. km)	3831.45
33/11 kV Substations (no.)	26
Length of LV Distribution Lines (ckt. km)	9327.74
No. of LV distribution transformers	3961

Performance Highlights

Consumer per Staff	702
LT 0.4/0.24KV Line Length per Staff (km/staff)	14.11
Sales per Consumer per year (kWh/Consumer)	2,784
Revenue per Consumer per year (Rs./Consumer)	28,488
Consumer per Distribution Transformers	117

Customer Care

Special efforts were taken to improve the service at the customer interface points. The staff attached to 10 distribution centers took special efforts to serve our valued customers better during the year. Nepal Electricity Authority has made arrangements to submit electricity bill easily through the online systems. This system has given the service of paying the bill online and also updates about the bill payment for the consumers and the obligation for consumers to come to counters for bill payment has ended, thus saving time of the consumers. NEA has introduced one door system to facilitate the consumers and to

provide the service as quickly as possible.

Loss Reduction Program/Loss Reduction Activities

The distribution networks comprise of technical and non-technical losses, in which proportion of non-technical losses is quite high. During the year under review, various measures taken in the preceding years were continued to reduce the non-technical losses. Massive awareness campaigns as workshops and review meetings were implemented in various distribution centers.

Strict measures for electricity theft control such as confiscation of electric equipments and taking legal action against culprits were also conducted in various distribution centers with the help of local administration and security agencies. The amount of revenue collected from line disconnection was NPR. 251.7 million in the fiscal year 2075/076. NEA management made various decisions as 'Immediate Action Plans' to improve its functioning. This plan included regular inspection of Time-of-Day (TOD) meters, data download and analysis to curb any connection fault or manipulation.

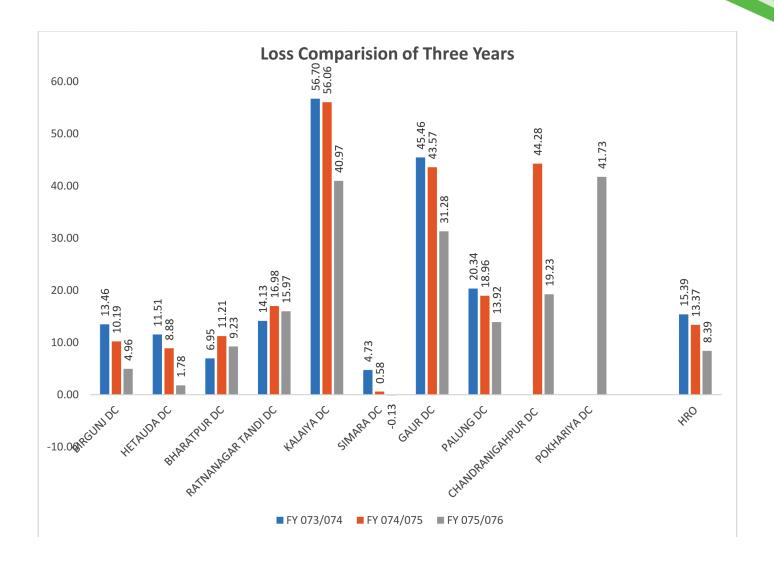
Future Plans/Programs

As high system loss is a major challenge for NEA, HRO is trying to make every effort to bring down the distribution system loss. It is also planning to improve the quality of the services through the use of new technologies and capacity building to meet the challenges of new environment in utility business. Consumer complaints shall be addressed without delay and the procedure for new connection related works shall be made simple and user friendly.

To reduce Non-technical and Technical losses, these future plans shall be implemented with the joint efforts of HRO and DCS.

For Non-Technical losses:

• Identification of electricity theft prone areas in different Distribution Centers.



- Public Awareness Program.
- Mobilization of Police and Staffs to remove hooking.
- Changing of Defective meters i.e. burnt, damage, stopped meters.
- Re-sealing of meters.
- Additional billing of HT/LT Consumers after analyzing TOD meter data download report as per the NEA, Electricity Distribution Rules 2069.
- Upgrading of electricity meters to meet standard accuracy must be conducted to support reduction of non technical losses through statistical analysis

For Technical losses:

- Conversion of single-phase lines to three phase lines by the addition of two wires.
- Balancing of phase loads.
- Optimization of distribution system.
- Improve power factor and reducing the harmonic distortion by installing suitable size of Capacitor Banks at substation as well as installation of LV Capacitors on LV lines.
- Demand management measures.
- Re-location of distribution transformers at load center.
- Up-gradation of distribution transformers and substation power transformers.



Electricity theft control activities in Kalaiya DC



Electricity theft control activities in Birgunj DC

• Changing of broken insulators like Disc insulator, pin Insulator and shackle insulator.

Challenges within the Regional Office

The various Challenges faced by the Regional office to provide reliable service to the consumers are as follows:

- 33/11 KV, 24 MVA Parsa substation of Tadi is currently over loaded.132/33kV Bhandara substation should be constructed to minimize the load of Parsa S/S.
- Palung DC is supplied by only one 11KV feeder from Kulekhani I Hydropower due to which there is high technical loss and reliability of the system is very low. 33kV line should be constructed to connect areas of Palung DC.

- Non-Technical loss reduction in this region is a major challenge. Electricity theft and hooking is still a problem in the region.
- Major technical challenge within the region is distribution system reliability which needs to be sorted out by system up-gradation like conductor upgrading, feeder separation, substation rehabilitation, etc.
- Segregation of technical and non-Technical losses within the region.
- Social and political challenges are also vibrant within the Region.
- Flooding in the rainy seasons and occasional storm (Bara, Parsa districts in this year) around the region creates hindrance to system continuity, reliability and restoration.



After flood scenario in Birgunj



After flood scenario in Birgunj

Ongoing Projects under the Regional Office:

Chandranigahpur-Manpur 33/11kV Project

It is funded by Government of Nepal and has the scope of construction of 33/11 kV substation. The overall budget of the project is NRs.8.2 Million.

Chanauli - Madi 33kV Project

It shall be constructing 33 kV underground cable using NRs. 20 Million from Government of Nepal.

Devnagar-Chanauli 33/11kV16MVA S/S

The Government of Nepal has provided fund of NRs. 3 Million for the construction of 33/11 kV, 16 MVA substation.

Devnagar - Chitwan 33/11kV, 16MVA S/S Project.

A 33/11 kV substation with the maximum capacity of 16 MVA shall be constructed using fund of NRs. 30 Million from Government of Nepal.

Maulapur Pataura Rural Electrification and Rehabiliation Project

The scope of the project is construction of HT and LT lines with the budget of NRs. 11.2 Million. It is funded by Government of Nepal. The inception date of the project was 5 Baisakh 2076

Riddi Siddi Cement Project

Funded by Government of Nepal has scope of construction of 33 kV line with the budget of 10 Million Nepalese Rupees. The inception date of the project was 4 Baisakh 2076 and its expected completion date is 3 Mangsir 2076. About 60% of the total budget has already been expended.

Substation Status

S.N.	Distribution Centre	Substation Name/Location	Total Capacity (MVA)	Voltage level (kV)	Existing	Proposed	Planned	Under Construction	Remarks
1	Kalaiya	Kalaiya S/S	16		\checkmark				
2	Kalaiya	Simaraungadh S/S	8		\checkmark				
3	Simara	Nijgadh S/S	8		√				
4	Pokhriya	Pokhariya S/S	8		\checkmark				
5	Birgunj	Chapkiya	8	00/11	√				
6	Dlagastaria	Chanauli S/S	16	33/11	√				
7	Bharatpur	Madi S/S	3		√				
8	Ratnanagar Tandi	Parsa S/S	24.6		√				
9	Gaur	Gaur S/S	16		√				
10	Chapur	Harsaha S/S	8		√				
		Total Existing	115.6		10				

33 kV Feeder Status

S.N.	Name of DC	Name of 33KV Feeder	Length of Feeder (ckt-km)	Conductor Name size (sq.inch)	Remark(s)
1	Gaur	Gaur	42	Wolf/o.3	
1	Gaur	Harshaha	18	Dog/o.1	
2	Pokhariya	Birganj to Pokhariya	19.17	Dog	
3	Hetauda	Shivam 2	11.62	Panther/(0.3 sq inch)	Gird S/S
4	Simara	Chapur- Nijgadh	21	dog	
5	Ratnagar Tandi	Bharatpur- Parasa	20.5	dog /0.1	
		Birgunj -Kalaiya	12	0.1	
6	Kalaiya	Nijgadh- Kalaiya	30	0.1	
		Kalaiya- Simraungadh	24	0.1	

11 kV Feeder Status

S.N.	Name of DC	Name of 11KV Feeder	Length of Feeder	Conductor Name/Size (sq.inch)	
		Gaur	36.5	Dog/0.1	
		Bauharba	77.6	Dog/o.1	
1	Gaur	Bankul	114.1	Dog/0.1	
		Bairiya	68.5	Dog/o.1	
		Harshaha	159.7	Dog/0.1	
		Hulash	9.31	0.1 ACSR	
		Jeetpur	3.04	0.1 ACSR	
		Dumarwana	3.73	0.1 ACSR	
		Narbasti	8.215	0.1 ACSR	
		Musarnimai	20.18	0.05/0.1 ACSR	
		Ramban	70.31	0.05/0.1	
		Airport	1.5	o.o5ACSR+XLPE Single core cable	
		Nijgadh 1	19.765	0.1/0.05/0.03 ACSR	
		Nijgadh 2	4.083	0.1/0.05/0.03 ACSR	Nijgadh S/S
2	Simara	Nijgadh 3	34.19	0.1/0.05/0.03 ACSR	
		Parwanipur	3.702	0.1 ACSR	
		Simara	6.746	o.1 ACSR	
		Pathlaiya 1	17.94	o.1 ACSR	
		Pathlaiya 2	39.139	0.1 ACSR	
		Piluwa	14.364	0.1/0.05	
		Amlekhganj	23.377	0.05 ACSR	
		Oil Nigam	1.118	0.05 ACSR	
		Pole plant	0.076	0.05ACSR	
		Ramban	3.2	Dog, Rabbit, Weasel	Simra DCS
		Pokhariya		Dog, Rabbit, Weasel	Similar Deb
3	Pokhariya	Janki Tola	45.75		
3	1 Okliariya		101.87	Dog, Rabbit, Weasel Dog, Rabbit, Weasel	
4	Parwanipur S/S	Langadi Gramin	69.73 5.3	Dog, Rabbit, Weasel	Parwanipur S/S
- 4	1 at wampar 5/5	Bhutandevi	68.67 Km	Dog(size 0.16 sq inch)	Tarwampar 6/6
		Unilever	102.9	Dog(size 0.16 sq inch)	
		Gramin	168.68	Rabbit(size 0.077 sq inch)	
		Bhaise	44.27	Rabbit(size 0.077 sq inch)	
5	Hetauda	Bansagopal	64.68	Rabbit(size 0.077 sq inch)	Grid S/S
		Chaugada	53.71	Dog(size 0.16 sq inch)	
		HID	7.48	Panther/(0.3 sq inch)	
		Ncell	0.13	Dog(size 0.16 sq inch)	
6	Palung	Markhu Feeder	120.146	0.05/0.03 ACSR	KL1
U	i aiulig	Sisneri Feeder	42.78	0.05 /0.03 ACSR	KLI
		Tandi	125	0.1/0.05/0.03	
	Determent The 1	Khairahni	121	0.1/0.05/0.03	
7	Ratanagar Tandi	Parsa	119	0.1/0.05/0.03	
		Chainpur	140	0.1/0.05/0.03	

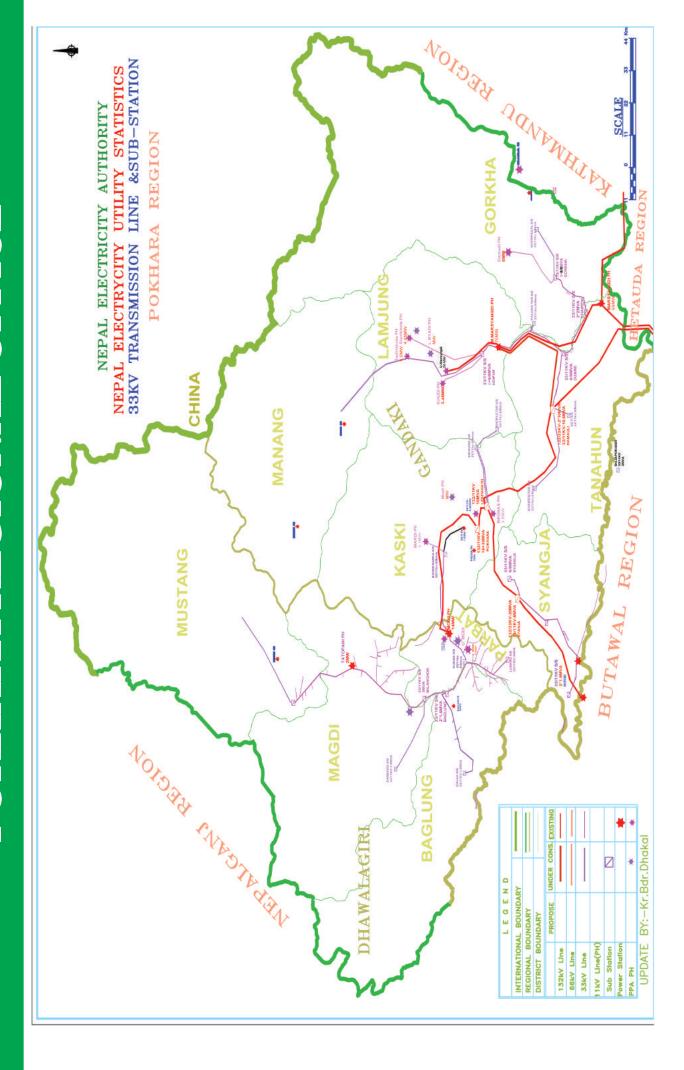
		Bharikuti	15	0.1	
			15	0.1	
		Narayanghat Audhogik 1	57	0.1	
			32	0.1	
		Audhogik 2 Hospital	40	0.1	
		Bharatpur 1	15		
		Bharatpur 2	42	0.1	
8	Phonotous	Gaidakot	35	0.1	
0	Bharatpur	Gitanagar	73 79	0.1	
		Rampur	43.9	0.1	
		Narayani	55.2	0.1	
		Megauli	39	0.1	
		Basantapur		0.1	
		Kalyanpur	14		
		Muglin	24	0.1	
		Birgunj feeder No. 1	57	0.1	Grid S/S
			14.56	0.1	Grid 5/5
		Birgunj feeder No. 2	21.58	0.1	
		Birgunj feeder No. 4	27.07	0.1	
		Birgunj feeder No. 5	14.22	0.1	
		Birgunj feeder No. 6	21.52	0.1	
		Bindawasini feeder	14.084	0.1	
		Jagarnathpur feeder	16.1	0.1	
		Prasauni feeder	6.52	0.1	
		Himal feeder	9.1	0.1	
		Jagadamba feeder	6.92	0.1	
9	Birgunj	Dabur dedicated feeder		0.1	
			1.43		
		Parwanipur feeder Krishi feeder	7.67	0.1	
		Nitanpur feeder	17.06	0.1	
		Narayani feeder	13.9 4.28	0.1	
		Gramin feeder	25.45	0.1	
		Simara feeder	9.65	0.1	
		Gandak feeder	14.89	0.1	
		Chorni feeder	4.89	0.1	
		Birgunj feeder	10.61	0.1	
		6 No	83.12	Dog, Rabbit, Weasel	Birganj DC
		Bindavasini	12.62	Dog, Rabbit, Weasel	Birganj DC
		Nagarpalika	19.7	0.03/0.05/0.1	<i>g,</i> = 0
		Bariyarpur	40.44	0.03/0.05/0.1	
		Sitalpur		0.03/0.05/0.1	
		1	90.3	-, -,	
10	Kalaiya	Gunjbhawanipur	90	0.03/0.05/0.1	
10	ixuiaiya	Badharwa	40	0.03/0.05/0.1	
		Krishi	91.36	0.03/0.05/0.1	
		Simarungadh Bazar	30.32	0.03/0.05/0.1	
		Batra	25	0.03/0.05/0.1	
		Pachrauta	55.48	0.03/0.05/0.1	
		Chandranigahapur North	44.75	0.1/0.05	
11	Chandranigahapur	Chandranigahapur South	99.79	0.1/0.05	
		Chandranigahapur -Harsawa	28.59	0.1/0.05	

Electrification Status

S.no.	District	Municipality Rural Municipality	Total Electrification % of municipalities (Grid Connected)	Population	No of House- holds	Total 11 kV (HT) Circuit Kilometer (KM) required to fully electrify the Municipalities or rural municipalities	Total 0.4 kV (LT) Circuit Kilometer (KM) required to fully electrify the Municipalities or rural municipalities	No of Transformer Required
		1. Kolhavi	71.79	52125	9601	20	30	10
		2. MahaGadhi Mai (Bariyapur)	71.85	61950	9200	15	25	15
		3. Nijagadh	91.13	41826	8478			
		4. Pachrauta	63.49	40450	5571	10	20	8
		5. Simraungadh	67.93	57491	8396	18	28	10
		6. Adarsh Kotwal	65.56	32613	4686	10	17	7
	Bara	7. Baragadhi	66.71	32187	5054	15	20	10
		8. Bisrampur	73.43	28154	4019	7	16	8
1		9. Devtaal	70.07	27490	3770	13	20	7
		10. Feta	66.68	30365	4242	12	25	24
		11. Karaiyamai	71.2	31352	4940	15	20	6
		12. Parwanipur	86.78	26972	3748	3	6	5
		13. Prasauni	78.69	29651	4292	8	17.5	9
		14. Suwarna	68.92	34963	4777	15	25	10
		15. Jitpur Simara	96.03	138601	25650	3	5	3
		16. Kalaiya	72.68	145624	22123	15	30	15
		Total District:Bara	77.39	749864	119347	179	304.5	147
		1. Bharatpur	97.61	331106	81490	12	65	10
		2. Kalika	76.41	50160	10761	15	30	20
		3. Khairhani	69.1	66215	14555	52	104	30
2	Chitwan	4. Madi	38.02	44482	10576	20	80	15
	Cintwaii	5. Rapti	70.3	68591	14231	235	980	90
		6. Ratnanagar	80.05	82452	18970	71	142	40
		7.Ichchhakamana	51.2	29512	5640	50	115	26
		Total District:Chitwan	83.16	672518	156223	455	1516	231

		1. Thaha	70	45291	9714			
		2. Bagmati	54.33	33181	6235	30	50	15
		3. Bakaiya	48	43112	8204	20	50	15
		4. Bhimphedi	90.91	25401	5234	10	20	10
		5. Indra Sarowar	70	15026	3323			
3	Makwanpur	6. Kailash	46.74	26029	4638	35	55	35
		7. Makwanpur Gadhi	59.38	27554	5445	15	30	15
		8. Manahari	72.86	41780	8586	13	21	11
		9. Rakshirang	41.86	28500	4957	44	60	25
		10. Hetauda	95.46	166345	37287	7	15	9
		Total District:Makwanpur	75.32	452219	93623	174	301	135
		1. Birgunj	91.53	281780	45947	20	42	54
		2. Bahudar Mai	65.96	46401	6644	12	24	14
		3. Parsa Gadhi	61.74	45155	7500	11	23	15
		4. Pokhariya	75.38	38460	5702	9	22	12
	Parsa	5. Bindyabasini	54.84	28618	4182	9.5	20	11
		6. Chipaharmai	49.82	31195	4658	8.5	19	11
		7. Dhobini	47.96	23288	3479	12	25	13
4		8. Jagarnathpur	58.19	38201	5793	8	17	11
		9. Jirabhawani	41.19	26626	4815	7.5	16	11
		10. Kalikamai	62.34	24727	3558	8	23	13
		11. Pakaha Mainpur	54.16	24231	3553	9	17	11
		12. Paterwa Sugauli	54.42	27955	4681	9.5	19	13
		13. Sakhuwa Prasauni	55.72	38653	6232	11	18	14
		14. Thori	47.59	23855	4968	12	25	13
		Total District: Parsa	70.07	699145	111712	147	310	216
		1. Baudhimai	75.1	40041	5788	2	15	3
		2. Brindaban	63.55	51439	7673	135	390	20
		3. Chandrapur	43.55	86737	16183	125	350	15
		4. Debahi Gonahi	74.32	38691	5646	3	15	4
		5. Fatuwa Bijaypur	64.72	43706	6780	2	12	2
		6. Gadhi Mai	74.34	48643	7304	2	15	3
		7. Garuda	71.36	60763	8959	12.5	53	8
		8. Gaur	82.32	42054	6781	3	20	5
	D . 1 .	9. Gujara	40.33	56083	8897	80	250	17
5	Rautahat	10. Ishanath	73.6	49875	7021	2	20	3
		11. Katahariya	74.83	46237	7123	2	19	3
		12. Madhav Narayan	74.19	42340	6596	3	18	5
		13. Maulapur	74.01	31805	4608	3	25	4
		14. Paroha	73.97	45083	6475	2.5	18	4
		15. Rajdevi	74.53	36796	6458	5	25	4
		16. Rajpur	74.24	49443	6943	3	22	3
		17. Durga Bhagwati 18. Yamunamai	75.03	27323	4588	2	15	2
		Total District: Rautahat	73.73	28750 825809	4545 128368	388	12 1294	3 108
		Total District: Kautaliat	67.15	025009	120300	300	1294	100

POKHARA REGIONAL OFFICE



POKHARA REGIONAL AND DISTRIBUTION CENTRE CHIEFS



Suresh Chhetri Pokhara Regional Office Chief



Surendra Kumar Shah Pokhara DC



Nabin Kumar Labh Lekhnath DC



Shiva Narayan Goshali Tanahu DC



Sunil Sapkota Syangja DC



Kapil Raj Pandey Baglung DC



Netramani Neupane Myagdi DC



Madhab Neupane Gorkha DC



Dipak Kumar Dahal Lamjung DC



Niroj Paudel Aarughat DC



Rajendra Lal Dev Tatopani DC

Introduction

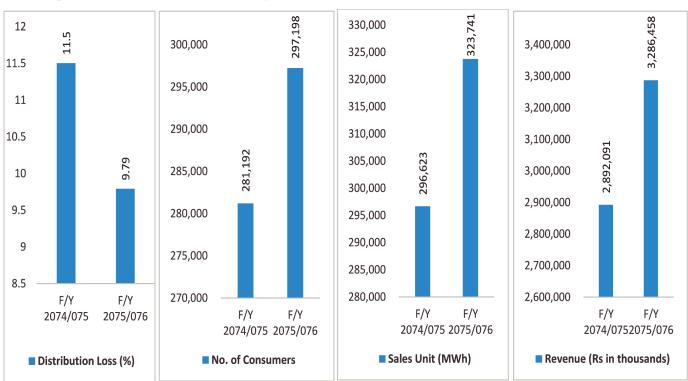
Pokhara Regional Office (PRO) is one of the eight Regional Offices under the Distribution and Consumer Services Directorate and is responsible for overall management of electricity distribution services, operation and maintenance of electrical networks of Gandaki & Dhaulagiri Zones. There are 11 (Eleven) Distribution Centers (DCs) in this Regional Office. Area of operation of this regional office covers all the distribution area of Pokhara, Lekhanath, Tanahu, Gorkha, Syanga, Parbat, Baglung, Myagdi, Tatopani, Aarughat, and Lamjung. The major activities of this regional office include operation, maintenance and rehabilitation of the electricity distribution networks up to 33 kV voltage Level and 33/11 kV Substations as well as consumer services activities such as new consumer connections, meter reading, billing, and revenue collection.

zones. Regional office comprises of technical, financial and admistrative division which monitors various actions of the concern DCs. The source of fund is Government of Nepal and NEA itself. There are seven 33 kV transmission line, substation project and a rural electrification project funded by Government of Nepal under this regional office.

Key Objectives

- To decrease the distribution system loss by controlling the electricity leakage and theft energy by loss reduction activities/loss reduction programs.
- To implemente interaction and public awareness programs which will enhance in the increment of sales, revenue collection and decrease in electricity loss.

The comparative salient features of this regional office are as follows:



Operational Structure

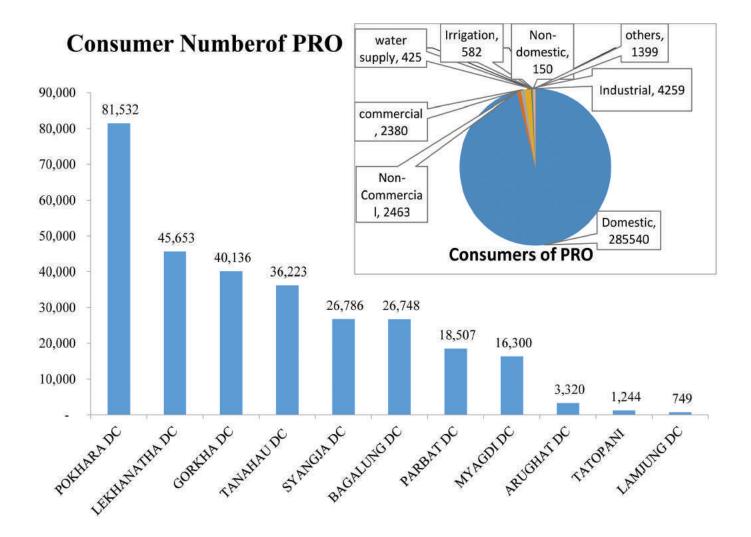
There are 11 Distribution Centers under Pokhara Regional Office spread over Gandaki & Dhaulagiri • Supply of reliable electricity to the consumers within the region at statutory levels of voltage.

- Sell electricity and achieve planned surpluses of revenue.
- Provide new connections to prospective consumers.
- Ensure rational development of the electricity distribution system within the Region.

Highlights of the year

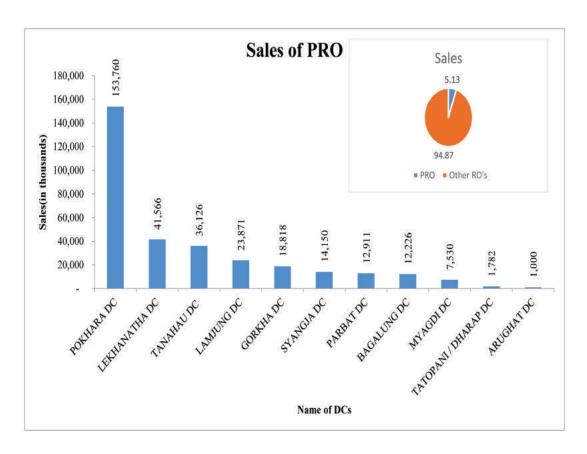
Consumer Number

PRO recorded 2,97,198 consumer accounts by the end of the fiscal year 2075/076 which is increased by 5.69% from last year. The majority of consumer accounts were in the domestic category while the second most were from the industrial category.



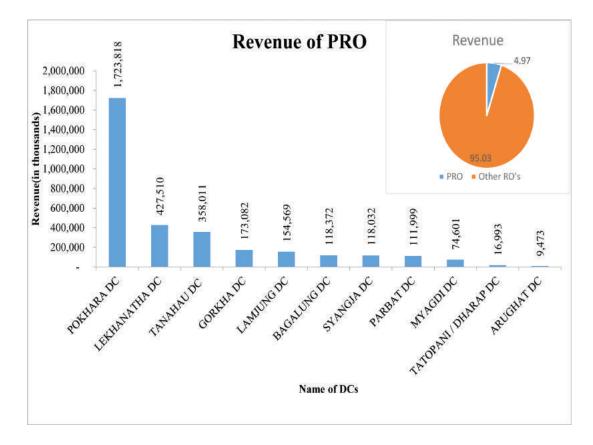
Sales

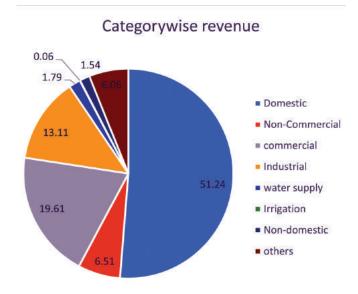
A total of 323,740.86MWh of energy was sold in this FY 2075/076 which is 9.14% higher than last year. Sales contribution to NEA system from this Regional Office is 5.13%.



Revenue

Thegrossrevenue of Rs.3286.45 million was earned in F/Y 2 0 7 5 / 0 7 6 after selling of 323740.86 MWh energy which is 13.63% more than last year.





The majority of revenue in PRO recorded from domestic tariff category which is approximately 51.24% of the total revenue of the region. The higher sales in domestic category resulted for higher revenue. Pokhara distribution Center accounts for 52.45%, Lekhnath DC accounts for 13.00%, Tanahun accounts for 10.89%, Gorkha accounts for 5.26% and Lamjung accounts for 4.70% of the total revenue in the Region.

Distribution Infrastructure

33 kV Distribution Lines	389.56 km
11 kV Distribution Lines	3,586.54km
33/11 kV primary Substations	16
LV Distribution Lines	9,570.34km
LV Distribution transformers	3000
Distribution Transformers Total installed capacity	218.35MVA

Performance Highlights

Consumer per Staff	610
LT 0.4/0.24KV Line Length per Staff (km/staff)	20
Sales per Consumer per year (kWh/Consumer)	1,092
Revenue per Consumer per year (Rs./Consumer)	11,064
Consumer per Distribution Transformers	99

Customer Care

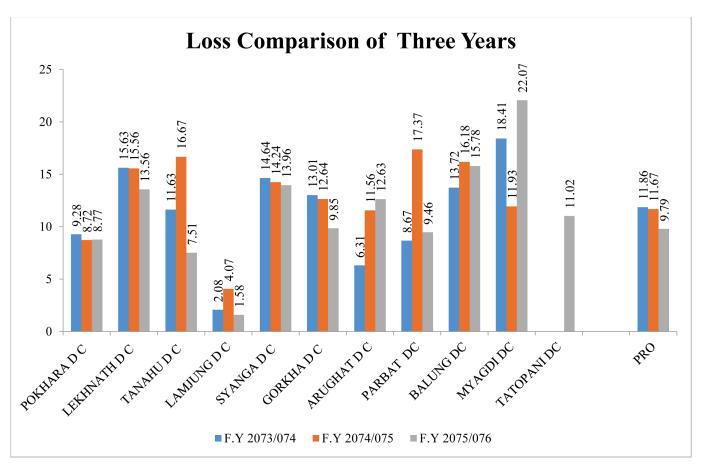
Distribution centers work as interfaces between NEA and its consumers. So, special efforts were taken

to improve the quality of service at the consumer interface points. Nepal Electricity Authority has made arrangements to submit electricity bill easily through the online systems since Bhadra 13 2074. This system has given the service of paying the bill online and also updates about the bill payment for the consumers and the compulsion for consumers to come to counters for bill payment has ended, thus saving time of the consumer. Consumers can pay their bills via 8 service providers (eSewa, PayPoint, CFS Remit,City Express, Prabhu Bank,Nepal Investment Bank, Himalayan Bank and Mahalaxmi Bikash Bank). NEA has introduced one door system to facilitate the consumers and to provide the service as quickly as possible. This system saves the time of the consumer.

For the consumers having bulk payments and those who wants to pay bill at cash collection centers, the Queue Management System was initiated and is continued till date. This system solved the difficulties faced by the consumers in queuing for making the payments. Round the clock no-light services have been implemented in most of the urban no-light centers.

Loss Reduction Program/ Loss Reduction Activities

The distribution networks comprise of technical and non-technical losses, in which proportion of non-technical losses is quite high. During the year under review, various measures taken in the preceding years were continued to reduce the nontechnical losses. Massive awareness campaigns as workshops and review meetings were implemented in various distribution centers. Strict measures for electricity theft control such as confiscation of electric equipment's and taking legal action against culprits were also conducted in various distribution centers with the help of local administration and security agencies. NEA management made various decisions as 'Immediate Action Plans' to improve its functioning. This plan included regular inspection of Time-of-Day (TOD) meters, data download and analysis to curb any connection fault or manipulation.



Future Plans/Programs

As high system loss is a major challenge for NEA, PRO is trying to make every effort to bring down the distribution system loss. It is planning to improve the quality of the services through the use of new technologies and capacity building to meet the challenges of new environment in utility business. Consumer complaints shall be addressed without delay and the procedure for new connection related works shall be made simple and user friendly.

To reduce Non-technical and Technical loss, these future plans shall be implemented with the joint efforts of PRO and DCSD.

For Non-Technical losses:

- Identification of electricity theft prone areas in different Distribution Centers.
- Public Awareness Program.
- Mobilize the police and the staffs to remove hooking.

- Changing of Defective meters i.e. burnt, damage, stopped meters.
- Re-sealing of meters.
- Additional billing of HT/LT Consumers after analyzing TOD meter data download report as per the NEA, Electricity Distribution rules 2069.
- Upgrading of electricity meters to meet standard accuracy.

For Technical losses:

- Conversion of single-phase lines to three phase lines by the addition of two wires.
- Balancing of phase loads.
- Optimization of distribution system.
- Improve power factor and reducing the harmonic distortion by installing suitable size of Capacitor Banks at substation as well as installation of LV Capacitors on LV lines.
- Demand management measures.
- Re-location of distribution transformers at load center.



- Upgradation of distribution transformers and substation power transformers.
- Changing of broken insulators like Disc insulator, pin Insulator and shackle insulator.
- Tightening of Jumpers connecting with suitable size of conductors on HV and LV lines.
- Regular Trimming works of Bush and tree branches.



Line Shifting/Upgrading work for Construction of Middle Highway (Pokhara DC)



Monitoring of 33/11 kV panel board of Hemja substation



Electricity Safety day Rally (Tanahun DC)

Safety measures/Safety Day

Safety is one of the major aspects in the distribution center services and the regional office is entrusting it as a major priority. In this regard, not only the NEA employees, public awareness is also important. For this the RO is giving priority for people's awareness for electrical safety.

Challenges within Regional Office

The various Challenges faced by the Regional office to provide reliable service to the consumers are as follows:

- Udipur-manang feeder has problems in voltage regulation due to long line length and also has line tripping problem. Switching substation should be made near dharapani, manang. Tower structure should be made at few places prone to landslide like Nigalghari, Taal, Jagat etc.
- Myagdi -Mustang feeder has tripping problems due to landslide and trees along the line. Few Tower structures should be made in landslide and heavy flood prone area like Begkhola, Myagde Bhir, etc. Line re-routing should be done along the higway.

- All feeders of lamjung district are from Udipur Substation resulting in overloading of substation.
 So load should be shifted to Bhorletar substation which is under construction.
- All the feeders in pokhara city are from Kudhar substation. Birauta substation should be constructed and rural feeders should be shifted to Hemja substation.
- 11 kV Khaireni feeder of lekhnath DC is very long so, construction of Khairenitar 33/11 kV, 6/8 MVA substation should be completed to make system reliable.
- 11 kV Pokharichaap feerder of Tanahun is 76 km long.so, new 11kV feeder should be constructed from 33/11 kV, 6/8 MVA Dumre substation to decrease voltage drop of the line.
- 33/0.4 KV load centers are still existing in trunk line in Parbat, Baglung and tatopani DCs. Kusmisera substation should be completed soon and load should be shifted to 11/0.4 loadcenters.
- Due to the adverse topography of the DC's in hilly regions within the Regional office, it is very difficult to provide quick service to the consumers.
- Segregation of Technical and non-Technical losses and social and political issues are the other challenges within the region.

Projects within the Regional Office

Udipur Besisahar Manang 33 KV Transmission Line Project

The scope of the project is to construct of 33kV line from Udipur Substation to Thanchowk Substation and 33/11kV 1.5MVA Substation at Thanchowk, Manang to develop reliable grid source for electrification of Manang District. It is a Government Funded Project with the budget of 178,000 (in thousands) and inception date of 059/60. The percentage of work completed is 40% with the amount of budget expended 36,347(in thousands). The project is planned to be completed by F.Y.2077/078

Galkot 33kV Transmission Line and Substation Project

The scope of the project is to construct 33kV and 11kV line from Baglung Substation to Galkot Substation and 33/11kV 3MVA Substation at Harichaur, Baglung to develop reliable grid source for electrification of Western Region of Baglung District and connection point for IPPs of Daram Khola. It is a Government Funded Project with the budget of 93,550 (in thousands) and inception date of 071/72. The percentage of work completed is 90% with the amount of budget expended 43,335(in thousands). The project is planned to be completed by F.Y. 2076/77



Sindhabesi Lamjung Lekhnath 33 kV Transmission Line and Substation Project

Sindhabesi Lamjung Lekhnath 33 kV Transmission Line and Substation Project

The scope of the project is to construct 33kV line from Lekhnath Grid Substation to Sindhabesi Substation and 33/11kV 6/8 MVA Substation at Mungri danda, Sindhabesi, Kaski to develop reliable grid source for electrification of North-East Region of Kaski and North-West Region of Lamjung and connection point for IPPs of Rudi Khola. It is a Government Funded Project with the budget of 131,100 (in thousands). The percentage of work completed is 90%.

Bhorletar 33 kV Transmission Line and Substation Project

The scope of the project is to construct 33kV line from Damauli Grid Substation, Tanahun to Bhorletar Substation, Lamjung and 33/11kV 6/8 MVA Substation at Bhorletar, Lamjung to develop reliable grid source for electrification of Western Region of Lamjung and connection point for IPPs' Midim and Madi Khola . It is a Government Funded Project with the budget of 204,200 (in thousands) and inception date of 2070/71. The percentage of work completed is 70% with the amount of budget expended 90,311(in thousands). Its completion date is FY 2076/77.

Righa Kharwang 33 kV Transmission Line and Substation Project

The scope of the project is to construct 33kV line from Galkot Substation to Kharwang Substation, and 33/11kV 6/8 MVA Substation at Kharwang, Baglung to develop reliable grid source for electrification of Western Region of Baglung District and connection point for IPPs' Daram and Badigadh Khola. It is a Government Funded Project with the budget of 168,000 (in thousands) and inception date of FY 2070/071. Its completion date is FY 2080/81.

Khairenitar 33 kV Transmission Line and Substation Project

The scope of the project is to construct 33kV line from Damauli Grid Substation to Khairenitar 33/11KV substation to improve voltage regulation and line

reliability of Khairenitar area and southern Tanahun. It is a Government Funded Project with the budget of 281,000 (in thousands) and inception date of 2070/2071. The percentage of work completed is 90% with the amount of budget expended 30,089(in thousands). Its completion date is FY 2076/77.

Gorkha Siranchaur 33 kV Transmission Line and Substation Project

The scope of the project is to construct 33kV line from Palungtar Substation to Chipleti Substation and 33/11kV 6/8 MVA Substation at Siranchaur Gorkha to develop reliable grid source for electrification of Northern Region of Gorkha District and connection point for IPPs' of nearby river basin Daraudi and Chepe. It is a Government Funded Project with the budget of 209,200 (in thousands) and inception date of 2074/75. Its completion date is FY 2080/81.

Tatopani Small Hydropower Rehabilitation Project

The scope of the project is rehabilitation of Tatopani 2MW powerhouse in Gharap, Myagdi. It is a Government Funded Project with the budget of 15,000 (in thousands) and inception date of 2070/71.



Tatopani Small Hydropower Rehabilitation/Maintenance work (Tatopani DC)

Its completion date is FY 2076/77. The percentage of work completed is 50% with the amount of budget expended 5,704 (in thousands).

Lekhnath Distribution System Rehabilitation Project

The scope of the project is rehabilitation and improvement of 11kV distribution line in Lekhnath Area. It is a Government Funded Project with the budget of 43,200 (in thousands) and inception date of 2070/71. The percentage of work completed is 90% with the amount of budget expended 22,058(in

thousands). Its completion date is FY 2075/76.

Gharap-Chusang 33kV Line and Substation Project

The scope of the project is to construct 33kV line from Gharap, Myagdi to Chusang Substation, Mustang and 33/11kV 6/8 MVA Substation at Chusang, Mustang to develop reliable grid source for electrification of Upper Mustang Area. It is a Government Funded Project with the budget of 265,000 (in thousands) and inception date of 2076/77. Its completion date is FY 2080/81.

Substation Status

S.N.	Distribution Center	Substation Name/ Location	Capacity (MVA)	Total Capacity (MVA)	Voltage level	Existing	Proposed	Planned	Underconstruction	Remarks
1	Pokhara	Hemja Substation (Pokahara-25)	6/8	8.00	33/11 kV	V				
		Sindabesi Substation (Mungri Dada)	6/8	8.00	33/11	V				
2	Lekhnath	Khaireni Substation (Khairenitar)	6/8	8.00	33/11				$\sqrt{}$	
		Ghiring Substation (Ghiring)	6/8	8.00	33/11		V			
		Dumre substation (Dumre)	8	8.00	33/11	\checkmark				
3	Tanahun	Aabukhaireni substation (Aanbu Khaireni)	7	7.00	33/11	\checkmark				
		gorkha s/s (Gorkha)	6	8.00	33/11	$\sqrt{}$				
		palungtar s/s (palungtar)	6	8.00	33/11	V				
4	Gorkha	Ghyampesal s/s (Ghyampesal)	3	4.50	33/11				V	
		chipleti, jaubari (Siranchowk)	6/8	8.00			V			
5	5 Syangja	Badkhola Substation, Putalibazar-3 Badkhola Syangja	6/8	8.00	33/11	V				
		Mirmi Substation, Kaligandaki-7 Mirmi	1.5 + 1.55	3.00	33/11	V				
	Parbat	Kushma Substation (kushma)	6/8	8.00	33/11	V				
6	i arbat	Lunkhu Substation (baglung)	3	3.00	33/11	V				
		Baglung Substation, Lampata, baglung	3+3	6.00	33/11	V				
7	Baglung	Galkot Substation, Harichaur	3	3.00	33/11	V				
		Kharwang Substation, Kharwang	6/8 MVA	8.00	33/11		V			
		Milanchowk Substation , Milanchowk Parbat	6/8 MVA	8.00	33/10	V				
8	Myagdi	Dana Substation		3.00	33/11	$\sqrt{}$				
		Darwang Substation, Darwang	6/8 MVA	8.00	33/11				V	
9	Tatopani	Kowang, mustang	5	5.00	33/11	√				
10	Lamjung	Udipur	6/8	8.00	33/11	√				
		Pokhara Regional Office		102.00		16				

33 kV Feeder Status

S.N.	Name of Distribution Center	Name of 33 kV Feeder	Length of Feeder, km	Conductor Name/ Size (sq.inch)	Maximum Average Load (A)
1	Pokhara	Hemja to Modi P/H	14	Dog [0.1 sq mm]	
2	Lekhnath	No			
3	Tanahun	Damauli to Dumre	33.49	Dog [0.1 sq mm]	210
4	Gorkha	Gorkha	18.63	Dog	
5	Syangja	Keware	56.36	Rabbit + Weasel (50 & 30 Sqinch)	Reading Not Available
		Baglung	13.56	Dog(100mm²)ACSR	140
6	Parbat	Lunkhu	57.27	Dog(100mm²)ACSR	50
0		Bhuka	12.29	Weasel(30mm²)	6
		Community Area	12.82	Dog(100mm²)ACSR	
		Kushma-Baglung	18	Dog	
_	Baglung DC	Modibeni tapping	15	Dog	18.6/6.5
7		Falebas tapping	6	Rabbit	7.4/2.59
		Kurgha tapping	21	Rabbit	8.1/2.83
8	Myagdi Distribution Center	Gharap	45	Dog	145
9	Arughat	No			
10	Tatopani	Mustang (kowang) feeder	42	Dog	16.04
		Gharap feeder	26	Dog	
	Lamina	Dumre Udipur	27.5	Dog [0.1 sq mm]	125
11	Lamjung	Udipur Manang	59	Dog [0.1 sq mm]	

11 kV Feeder Status

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder, km	Conductor Name Size (sq.inch)	Maximum/ Average Load(A)
		Aarba	15.99	Dog(8.57), Rabbit (8.4), Weasel (0.95), XLPE(0.08)	158/105
		Airport	15.08	Dog(6.76), Rabbit (5.48), Weasel (2.48), XLPE(0.32), 95 mm cover (0.24)	149/99
		Baidam	15.09	Dog(6.96), Rabbit (5.98), Weasel (2.48), XLPE(0.32), 50 mm ² cover(0.82)	291
		City	9.38	Dog(7.7), Rabbit (0.49), Weasel (0.95), XLPE(0.24)	185
		Fewa	61.54	Dog(16.4), Rabbit (35.68), Weasel (10.1), XLPE(0.35)	244/140
		Fewa Incommer	12.42	Dog(4.52), Rabbit (0.31), Weasel (7.46), XLPE(0.13)	49
	Pokhara	Hemja	40.22	Dog(7.43), Rabbit (15.27), Weasel (17.08), XLPE(0.44)	58/38.5
1		Kaskikot	23.45	Dog(11.87), Rabbit (11.04), Weasel (0.39), 100 mm cover (0.22)	13/8
1		Lumle	41.53	Dog(10.01), Rabbit (20.4), Weasel (11.12), 100 mm cover (0.22)	20/13
		New Road	8.34	Dog(8.65), Rabbit (0.2),XLPE (0.15), 95 mm cover (0.75)	215/144
		PID	0.52	Weasel (0.42),XLPE (0.07), 95 mm cover (0.03)	160/107
		Rambazar	37.84	Rabbit (34.19), Weasel (3.05), XLPE(0.56), 95 mm cover (0.34)	279/186
		Sahid Chowk	11.6	Dog(7.05), Rabbit (2.62), Weasel (1.95), XLPE(0.15), 95 mm cover(0.22)	197/131
		Sarangkot	17.58	Dog(5.52), Rabbit (11.3), Weasel (1.61), XLPE(0.15)	227/152
		Seti Incommer	3.88	Rabbit (3.82), XLPE(0.06)	76
		Tatopani	107.11	Dog(41.33), Rabbit (38.87), Weasel (23.04), 180 ABC (3.81), 95 mm ² cover (0.57)	250/100
2	Arughat	Arughat	60.44	Rabbit [0.05 sq mm]	25

		Khaireni	258	Dog/Rabbit/Weasel	310/235
	Lekhnath DCS	Begnas	120	Dog/Rabbit/Weasel	166/115
3		Kalika	74	Dog/Rabbit/Weasel	43/22
		Budibazaar	40	Dog/Rabbit/Weasel	202/147
		Damauli	75	100 , 50, 30 ACSR	140
		Tanahusur	37	100 , 50, 30 ACSR	33
		Soti	69.36	30 ACSR	52
		Tharpu	62.04	100, 50, 30 ACSR	62
	m 1	Dumre	18.4	30 ACSR	25
4	Tanahun	Pokharichhap	82.68	30 ACSR	51
		Bandipur	35.4	30 ACSR	21
		Mugling	25.16	50, 30 ACSR	70
		Aabukhaireni	13.14	50, 30 ACSR	50
		Satrasay	28.34	30 ACSR	70
		Arjunchaupari	65.58	Rabbit + Weasel (50 & 30)	
		Biruwa Manakamana	49.58	Rabbit + Weasel (50 & 30)	
		Syangja	6.44	Dog + Rabbit (100 & 50)	
		Pragatinagar	14.91	Rabbit + Weasel (50 & 30)	49
_	Syangja	Thuladihi	51.58	Rabbit + Weasel (50 & 30)	31
5		Setidobhan	95.25	Rabbit + Weasel (50 & 30)	77
		Panchamul	5.35	Rabbit + Weasel (50 & 30)	0
		Pidikhola	27.86	Weasel (30)	41
		Birgha	44.25	Weasel (30)	30
		Kaligandaki	12.04	Rabbit + Weasel (50 & 30)	Reading Not Available
		Besishahar	199	Rabbit and Weasel	110
	T	Bhotewodar	110	Rabbit and Weasel	90
6	Lamjung	Okhari	109	Rabbit and Weasel	70
		Nayagaun	78	Rabbit and Weasel	45
	Totoponi	Beni feeder	26	Dog	
7	Tatopani	jomsom feeder	100	wiesel	
		Kushma bazar	14	Dog(100mm²)ACSR	32
		Armadi	32.18	Dog(100mm²)ACSR	27
		Badgaun	5	Weasel(30mm²)	17
		Painyu	32.52	Rabbit(50mm²)	23
		Bhoksing	21	Rabbit(50mm²)	9
8	Parbat	Bajung	13.94	Weasel(30mm ²)	8
		DeupurDeurali	14.4	Weasel(30mm ²)	10
		Tilahar Ramja	19.15	Weasel(30mm ²)	7
		Parbat	22.88	Weasel(30mm ²)	25
		Karkineta	5	Weasel(30mm ²)	6
		Ratnechaur	13.11	Weasel(30mm ²)	7

				I	
	Myagdi	Beni	85	Dog,Rabbit ,Weasel	106
9		Ratnechaur	10	Dog,Rabbit	25
		Dana	90	Dog,Rabbit ,Weasel	62
	Cardela a	Mahendrajyoti	114.9	Dog,Rabbit ,Weasel	70
	Gorkha DC,gorkha s/s	khoplang	90.65	Dog,Rabbit ,Weasel	95
	DC,gorkiia s/s	Nayabajar	9.48	Dog,Rabbit ,Weasel	42
	Gorkha DC,		10.60	Dabbit Manael	
	palungtar s/s	Pokharichhap	13.68	Rabbit,Weasel	
	Tanahun		0= 0=	Dallit Managel	
10	DC,dumre s/s	Gorkha	85.95	Rabbit,Weasel	
	dhaging DC,			Dallit Maranal	
	gajuri s/s	Gajuri to gorkha	21.23	Rabbit,Weasel	
		Aabu muglin	74.66	Dabbit Wassal	
	Tanahun DC	kuringhat	74.66	Rabbit,Weasel	
	,khaireni s/s	daritar	8.4	Rabbit,Weasel	
		satrasaye	9.3	Rabbit,Weasel	
		Bazar feeder	117	Dog/Rabbit/Weasel	118/41.3
11	Baglung DC	Galkot feeder	128	Dog/Rabbit/Weasel	128/44.8
		Maldhunga feeder	5	Rabbit	22/7.7

Electrification Status

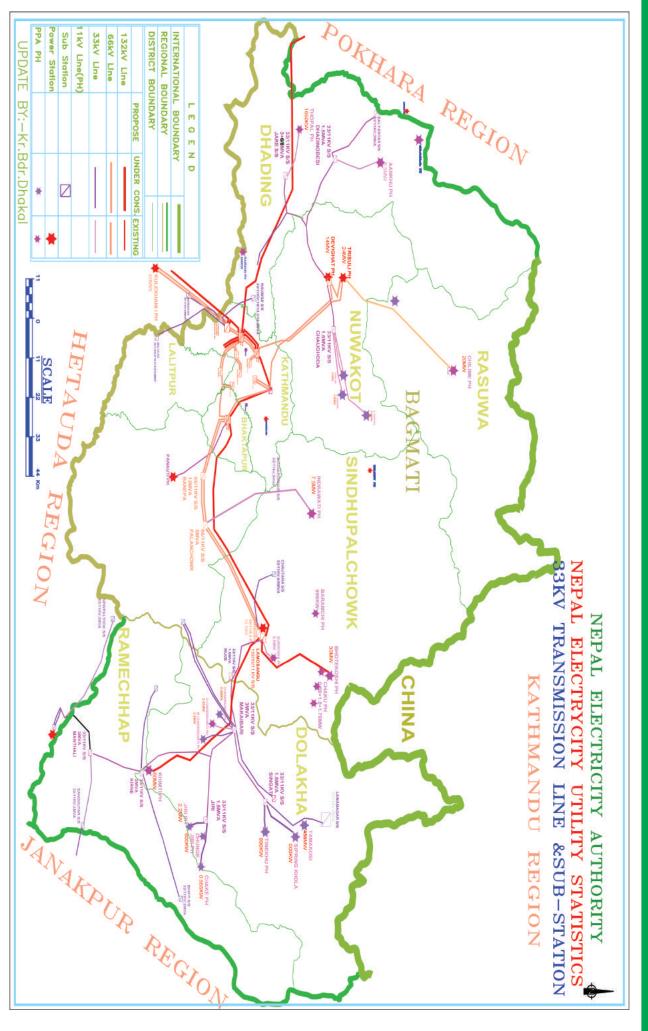
S. No.	District	Municipalities Rural Municipalities	Total Electrification % of municipalities (Grid Connected)	Populations	No of Households	Total 11 kV (HT) Circuit Kilometer (KM) required to fully electrified the Municipalities or rural municipalities	Total 0.4 kV (LT) Circuit Kilometer (KM) required to fully electrified the Municipalities or rural municipalities	No of Transformer Required
		1.Gorkha Municipality	100.00	45387	12092			20
		2.Palungtar Municipality	100.00	35162	9140			10
		3.Sulikot	41.60	23386	5369	40	60	16
		4.Siranchok	100.00	21763	5430			10
		5.Ajirkot	22.94	14370	3333	35	45	15
1	Gorkha	6.Aarughat	71.42	21999	5172	55	90	21
1	GOIKIIa	7.Gandaki	100.00	21418	4840			10
		8.Chumanubri	0.00	6377	1795	200	95	15
		9.Dharche	0.00	12184	2880	70	60	12
		10.Bhimsen	100.00	20294	5008			10
		11.Shahid Lakhan	100.00	25380	6153			10
		Total District : Gorkha	80.63	247720	61212	400	350	149
		1.Besishahar Municipality	100.00	40245	10658			10
		2.Madhya Nepal Municipality	94.39	23913	6020		5	10
		3.Rainas Municipality	100.00	18945	4857			
		4.Sundarbazar Municipality	100.00	27470	7363			
2	Lamjung	5.Khola Sothar	80.08	10260	2507	20	30	10
		6.Dhudh Pokhari	62.10	11222	2649	25	50	16
		7.Dordi	94.86	18664	4435	3	8	12
		8.Marsyangdi	97.30	19182	4511	3	4	11
		Total District : Lamjung	94.91	169901	43000	51	97	69
		1.Bhanu Municipality	96.39	48713	12867	2	10	10
		2.Bhimad Minucipality	98.27	33362	7966	3	10	11
		3.Byas Minucipality	98.29	74823	19510	3	12	10
		4.Sukla Gandaki Municipality	100.00	51548	12963			10
		5.Aanbu Khaireni	89.32	22091	5225	34	84	20
3	Tanahu	6.Rishing	71.48	27521	5547	30	54	10
		7.Ghiring	19.62	20550	4401	3	23	11
		8.Devghat	41.74	17160	3654	40	80	25
		9.Myagde	100.00	23937	5987	0	0	10
		10.Bandipur	97.17	21290	5163	4	15	15
		Total District : Tanahu	89.33	340995	83283	119	288	132

		1.Galyang Municipality	100.00	33466	7324			10
		2.Chapakot Municipality	100.00	23018	5252		2	10
		3.Putalibazar Municipality	100.00	39721	10516			10
		4.Bhirkot Municipality	100.00	22644	5385			10
		5.Waling Municipality	100.00	45355	10782			10
		6.Arjun Chaupari	100.00	14319	3486			5
4	Syangja	7.Aandhi Khola	100.00	14683	3650			5
		8.Kali Gandaki	100.00	19222	4400			5
		9.Phedi Khola	100.00	10922	2880			5
		10.Biruwa	100.00	25179	3593			5
		11.Harinas	68.22	15350	3458	4	12	2
		Total District : Syangja	98.19	263879	60726	4	14	77
		1.Pokhara Lekhnath						
		Metropolitan	97.51	471505	123588	30	50	100
		2.Annapurna	65.31	27398	7054	50	60	21
5	Kaski	3.Machhapuchhre	90.63	25584	6448	20	36	12
		4.Madi	82.02	21240	5274	4	12	4
		5.Rupa	100.00	16987	4424			15
		Total District : Kaski	95.18	562714	146788	104	158	152
		1.Chame	69.37	1097	271	70	70	10
		2.Nar Phu	0.00	522	118	70	75	5
6	Manang	3.Nashong	22.95	1883	440	20	70	5
		4.Nesyang	50.00	2157	576	10	55	5
		Total District : Manang	41.07	5659	1405	170	270	25
		1.Gharpajhong	95.40	2642	763	10	20	5
		2.Thasang	93.65	2540	672	10	15	5
7	Mustang	3.Dalome	26.18	1241	352	30	55	7
/	Mustans	4.Lomanthang	0.00	1656	464	50	75	9
		5.Barha Gaun Muktichhetra	92.70	2033	633	24	40	15
		Total District : Mustang	70.60	10112	2884	124	205	41
		1.Beni Municipality	94.50	32808	8476	2	20	10
		2.Annapurna	76.03	13040	3625	20	30	16
		3.Dhawalagiri	6.80	13813	3162	170	160	18
8	Myagdi	4.Mangala	81.13	15951	3746	30	75	13
		5.Malika	43.59	18728	4136	50	90	17
		6.Raghu Ganga	61.07	15429	4014	120	150	12
		Total District : Myagdi	67.29	109769	27159	392	525	86

POKHARA REGIONAL OFFICE

		1.Kushma Municipality	99.77	40068	10433	1	2	19
		- '						
		2.Phalebas Municipality	99.67	24979	5952	1	2	21
		3.Jaljala	100.00	21707	5627	1	5	10
0	Parbat	4.Painyoo	97.05	15563	3333	1	5	10
9	Tarbat	5.Maha Shila	99.57	9974	2256	2	5	15
		6.Modi	99.57	21535	5544		5	8
		7.Bihadi	100.00	13561	2977		5	10
		Total District : Parbat	99.51	147387	36122	6	29	93
		1.Baglung Municipality	100.00	60725	15945		3	10
		2.Galkot Municipality	74.02	34759	8098	30	60	17
		3.Jaimini Municipality	79.34	33654	7853	25	50	10
		4.Dhorpatan Municipality	84.48	27531	5994	55	118	22
		5.Bareng	87.93	15219	3403	10	25	6
10	Baglung	6.Kathe Khola	100.00	27392	6435			10
		7.Taman Khola	65.24	11195	2543	38	80	16
		8.Tara Khola	82.54	12611	2620	40	75	15
		9.Nisi Khola	75.44	24469	5139	35	75	17
		10.Badi Gad	84.13	32458	6542	48	104	19
		Total District : Baglung	86.51	280013	64572	281	590	142

KATHMANDU REGIONAL OFFICE



KATHMANDU REGIONAL AND DISTRIBUTION CENTRE CHIEFS



Anirudra Prasad Yadav Kathmandu Regional Office Chief



Thir Kumar Khatri Ratnapark DC



Sashi Bhushan Shah Maharajgunj DC



Manoj Kumar Yadav Transformer Workshop



Nuwakot DC



Santosh Kumar Jaiswal Birendra Kumar Singh Lagankhel DC



Baburam Subedi Baneshwor DC



Prajwal Man Shrestha Bhaktapur DC



Partha Shrestha Thimi DC



Ranjan Raj Gurung Kavre DC



Madhav Paudel Kirtipur DC



Narendra Bir Shrestha Pulchowk DC



Roshan Khadka Kuleshwor DC



Sano Babu Thapa Sindhupalshowk DC



Dhruba Karki **Dhading DC**



Amrit Babu Adhikari Dolakha DC



Rajendra Kumar Chaudhary Jorpati DC



Krishna Hari Dahal Dhunche DC



Suraj Regmi Balaju DC



Binod Adhikari Ramechhap DC



Khagendra Bhandari Melamchi DC



Bharat Pokharel Meter Testing Lab

Introduction

The Kathmandu Regional Office (KRO) is one among the eight Regional Offices of Distribution and Consumer Services Directorate (DCSD) and is responsible for overall management of electricity distribution services, operation and maintenance of electrical networks of all the districts of Bagmati Zone and Ramechhap and Dolakha district of Janakpur Zone. The major activities of this regional office include operation, maintenance and rehabilitation of the electricity distribution networks up to 33 kV voltage Level and 33/11 kV Substations as well as consumer services activities such as new consumer connections, meter reading, billing, and revenue collection.

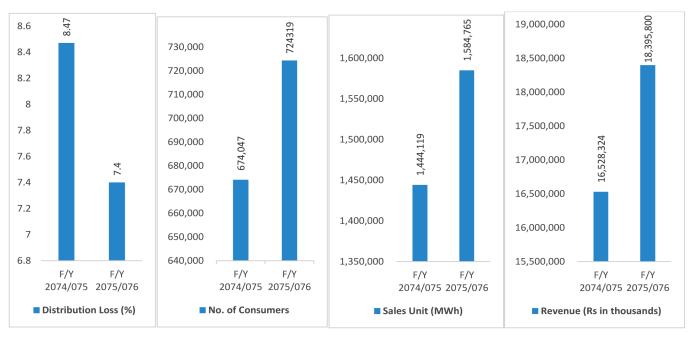
material management departments. The source of fund is Government of Nepal and NEA itself. There are 33 kV transmission line, substation project and rural electrification project funded by Government of Nepal under this regional office.

Key Objectives

- Supply reliable electricity to the consumers within the region at statutory levels of voltage.
- Provide new connections to prospective consumers.
- Ensure rational development of the electricity distribution system within the region.
- Co-ordinate with the distribution centers of the region to cope with the organizational and consumer related challenges of the regions.

Operational Structure

The comparative salient features of this regional office are as follows:

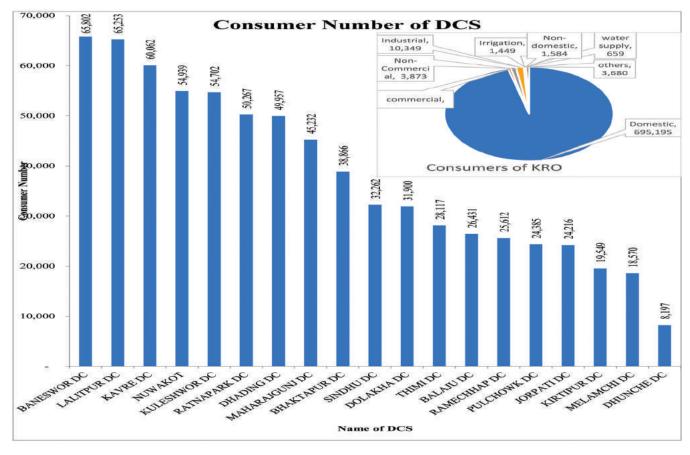


There are 19 Distribution Centers and one Transformer workshop within the regional office. Technical division of the RO looks after all the technical matters like projects, planning & development work and coordination of rural electrification activities within the region. There is a finance and revenue section to look after the financial and budgetary functions of the region. The regional office also comprises administration and

Highlights of the Year

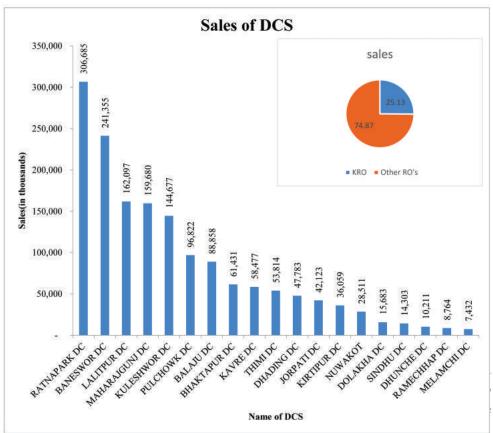
Consumer Number

KRO recorded 724,319 consumer accounts by the end of the fiscal year 2075/076 which is an increase of 7.45% from last year. The majority of consumer accounts were in the domestic category while the second most were from the Industrial category.



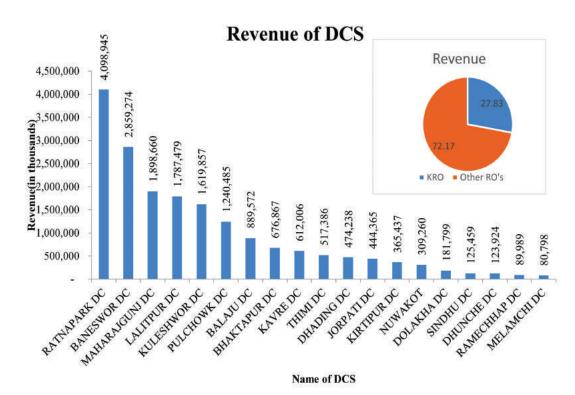
Sales

KRO reported 25.13 % of electricity sales within its DCs. In the fiscal year 2075/76, 1,584,765 MWh of electricity was sold in the Region which is a 9.74% increase over previous year's sales. Ratnapark distribution Centers accounts for 19.35% of total sales in the region.



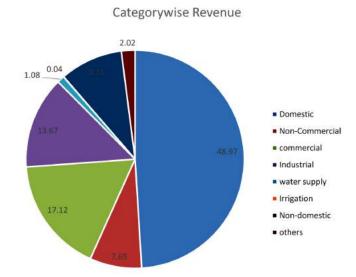
Revenue

The revenue from electricity sales during the year was Rs. 18,395.8 million which is 11.30% increase in the revenue from last year's. reasons for increase of revenue are the growth of energy sales, recovery of old dues from consumers. **KRO** accounts for 27.83% of the total revenue of DCSD.



The majority of revenue in KRO is recorded from domestic tariff category which is approximately 48.97% of the total revenue of the region.

Ratnapark distribution Center accounts for 22.28%, Baneshwor accounts for 15.54%, Maharajgunj accounts for 10.32%, Lalitpur accounts for 9.71% and Kuleshwor accounts for 8.8% of the total revenue in the Region.



Distribution Infrastructure

33 kV Distribution Lines	360.278km
11 kV Distribution Lines	5978.18 km
33/11 kV primary Substations	11
LV Distribution Lines	22343.24 km
LV Distribution transformers	6,579Nos
Distribution Transformers Total installed capacity	629.48MVA

Performance Highlights

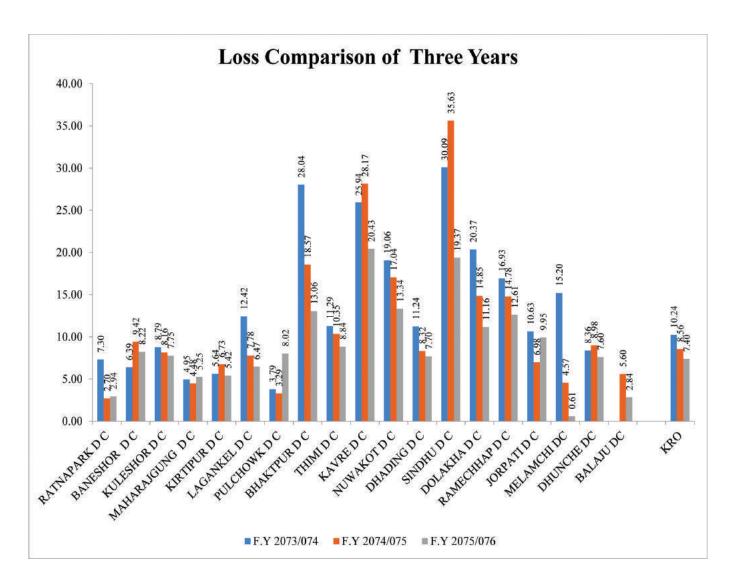
Consumer per Staff	480
LT 0.4/0.24KV Line Length per Staff (km/staff)	14.81
Sales per Consumer per year (kWh/Consumer)	2,184
Revenue per Consumer per year (Rs./Consumer)	25,392
Consumer per Distribution Transformers	81

Customer Care

Special efforts were taken to improve the service at the customer interface points. The staff attached to 19 Distribution Centers and Transformer workshop took special efforts to serve our valued customers better during the year. Nepal Electricity Authority has made arrangements to submit electricity bill easily through payment has ended, thus saving time of the consumer. Consumers can pay their bills via 8 service providers (eSewa, PayPoint, CFS Remit, City Express, Prabhu Bank,Nepal Investment Bank, Himalayan Bank and Mahalaxmi Bikash Bank). NEA has introduced one door system to facilitate the consumers and to provide the service as quickly as possible. This system saves the time of the consumer as they are not obligated to go to all the departments of the office for the service they need.

Loss Reduction Program/Loss Reduction Activities

The distribution networks comprise of technical and non-technical losses, in which proportion of nontechnical losses is quite high. During the year under review, various measures taken in the preceding years were continued to reduce the non-technical losses. Massive awareness campaigns as workshops and review meetings were implemented in various distribution centers. Strict measures for electricity theft control such as confiscation of electric equipment and taking legal action against culprits were also conducted in various distribution centers with the help of local administration and security agencies. The amount of revenue collected from line disconnection was 181.21 million in the fiscal year 2075/076. NEA management made various decisions as 'Immediate Action Plans' to improve its functioning. This plan included regular inspection of Time-of-Day (TOD) meters, data download and analysis to curb any connection fault or manipulation.



Future Plans/Programs

As high system loss is a major challenge for NEA, KRO is trying to make every effort to bring down the distribution system loss. It is also planning to improve the quality of the services through the use of new technologies and capacity building to meet the challenges of new environment in utility business. Consumer complaints shall be addressed without delay and the procedure for new connection related works shall be made as simple and as friendlier as possible.

To reduce Non –technical and Technical loss, these future plans shall be implemented with the joint efforts of KRO and DCS.

For Non-Technical losses:

- Identification of electricity theft prone areas in different Distribution Centers.
- Public Awareness Program.
- Mobilization of Police and Staffs to remove hooking.
- Changing of Defective meters i.e. burnt, damage, stopped meters.



Electricity Theft control (Baneshwor DC)



Electricity Theft control (Kavre DC)

- Re-sealing of meters.
- Additional billing of HT/LT Consumers after analyzing TOD meter data download report as per the NEA, Electricity Distribution rules 2069.
- Upgrading of electricity meters to meet standard accuracy must be conducted to support reduction of non-technical losses through statistical analysis.

For Technical losses:

- Conversion of single-phase lines to three phase lines by the addition of two wires.
- Balancing of phase loads.
- Optimization of distribution system.
- Improve power factor and reducing the harmonic distortion by installing suitable size of Capacitor Banks at substation as well as installation of LV Capacitors on LV lines.
- Demand management measures.
- Re-location of distribution transformers at load center.
- Upgradation of distribution transformers and substation power transformers.
- Changing of broken insulators like Disc insulator, pin Insulator and shackle insulator.





Distribution system maintenance work (Rantnapark DC)

Safety Measures/ Safety day

Safety measures have become necessary as there are occurrences of electric accidents of employees, people and domestic animals every year due to leakage of electricity and non-safety working habit. Initiative will be taken to raise the awareness of the working staff regarding safety hazards. Use of safety tools will be made mandatory for all the working staffs.



Safety Awareness program (Kuleshwor DC)

Challenges within Regional Office

The various challenges faced by the regional office to provide reliable service to the consumers are as follows:

- Devighat-Dhading 33 kV line has frequent tripping problems due to 33 k V tapping from many places.
 New substation should be constructed near Ratmate to solve this problem.
- 132/33 kV, Singati S/S should be constructed in Dolakha district to seggregate 33kV lines in the district and power evacuation from hydropower.
- Right of way problem for pole shifting in road extension along Ringroad of Kathmandu.

- Undergrounding of conductor in areas of Ratnapark and Maharajgunj DC is also a challenge due to social issues.
- Due to the adverse topography of the DCs in hilly regions within the regional office, it is very difficult to mobilize the resources and to provide quick service to the consumers.
- Major technical challenge within the region is distribution system reliability which needs to be sorted out by system upgradation like conductor upgrading, feeder separation, substation rehabilitation, etc.
- Segregation of Technical and non-Technical losses within the region.





11/0.4 kV Transformer 11 kV line damaged by Flood (Pulchowk DC)

Projects within the Regional Office

Nuwakot District Rural Electrification/ Dist. System Reinforcement Project

The scope of the project is rural electrificaton/ district system reinforcement works at Buddhasing, Dangsing, Gorsyang, Khadgabhanjyang, Fikuri, Kaule, Bhalche. It is a Government Funded Project with the budget of 20,000 (in thousands) and inception date of 075/76. The percentage of work completed is 100% with the amount of budget expended 20,984.23(in thousands).

Nuwakot District Rural Electrification/ Dist. System Reinforcement Project

The scope of the project is rural electrification/ district system reinforcement works. It is a Government Funded Project with the budget of 10,000 (in thousands) and inception date of 076/77.

Dolakha Khaire Marbu Project

The scope of the project is HT/LT Line construction. It is a Government Funded Project with the budget of 40,000 (in thousands) and inception date of

1/17/2076. The percentage of work completed is 30%.

Sindhupalchok Electricity Expansion & Distribution Line Re-enforcement Project (SEEDLRP)

The scope of the project is supply, delivery, installation/erection/commissioning & testing of 11kV conductor upgrading for various feeders & 0.4/0.23kV ABC conductor distribution lines in various feeders Load Centers. It is a Government Funded Project with the budget of 100,000,000 (in thousands) and inception date of 6/29/2073. The percentage of work completed is 90% with the amount of budget expended 67,054,697 (in thousands). Its completion date is FY 2076/77.

Construction of Electrical Structure in road expansion

The scope of the project is to reconstruct electrical structure in road. It is a Government Funded Project with the budget of 700,000,000 (in thousands) and inception date of FY 2074/075. Its completion date is FY 2076/77.

Substation Status

S.N.	Distribution Center	Name of Substation	Capacity (MVA)	Total Capacity (MVA)	Voltage level (kV)	Existing	Proposed	Planned	Under- construction	Remarks
1	Nuwakot	Chaugada	3	3	33/11	\checkmark				
2	Ramechaap	Manthali Substation	3	3	33/11	√		\checkmark		6/8 MVA
3	Kavre	Makaibari	3	3	33/11					
4	Dolkha	Jiri	3	3	33/11	\checkmark				
5	Dolkha	Kirne	1.5	1.5	33/11	\checkmark				
6	Dolkha	Sigati	1.5	1.5	33/11	\checkmark				
7	Bhaktapur	Bhaktapur / dudhpati	1.5	1.5	132/11	$\sqrt{}$				
8	Dhading	Dhadingbesi S/S	6/8	8	33/11					
9	Dhading	Salyantar S/S	3	3	33/11			\checkmark		6/8 MVA
10	Dhading	Jahare S/S	16	16.6	33/11	√				
11	Dhading	Naubise S/S	2x6/8	16	33/11	√				
12	Kavre	Majhifeda Substation	6/8		33/11				\checkmark	
13	Kavre	Mahabharat Substation	6/8		33/11				\checkmark	
14	Bhaktapur	Katunjebesi substation	6/8		33/11				\checkmark	
	To	tal Existing		60.1		11				

33 kV Feeder Status

S.N.	Name of Distribution	Name of 33 kV Feeder	Length of	Conductor	Maximum
5.11.	Center	Name of 33 KV Feeder	Feeder (km)	er (km) Size (sq.inch) Average Load 3.79	Average Load (A)
1	Nuwakot DC	Devighat-Chaugada	13.79	0.01	30.2
	Ramechhap DC	Kirne- Manthali	27	0.01	
2	Kameciniap DC	Sindhuli/Manthali	40	0.01	
		Makaibari Lamosaghu	26.768	0.1	240/200
		Makabari-tamakosi- Kirne-Jiri	46.675	0.1/0.05	65/50
3	Dolakha DCS	Makaibari-Sigati-Gongar	42.933	0.1	136/100
3	Dolaklia DCS	Makaibari-Charnawati IPP	6.396	0.1	61/50
		Jiri - Garjyang IPP	11.134	0.1	49/30
		Jiri- Bojini IPP	6.482	0.1	44/30
		Devigaht PH to Tarukaghat	14	Dog/o.1	
		Tarukaghat to Galchi	8.6	Dog/o.1	
		Galchi to Jahare	10.5	Dog/o.1	
		Galchi to Naubise S/S	26	Dog/o.1	
4	DhadingDC	Dharke-Naubise	2	Dog/o.1	
		Tarukaghat to Dhadingbesi	17	Dog/o.1	
		Dhading Besi to Salyantar	21	Dog/0.1	
		Jare to Thoppal PH	10	Dog/0.1	
		Dhadingbesi to Akhu	12	Dog/0.1	
5	Kavre DC	Bhaktapur-Khopasi	18		

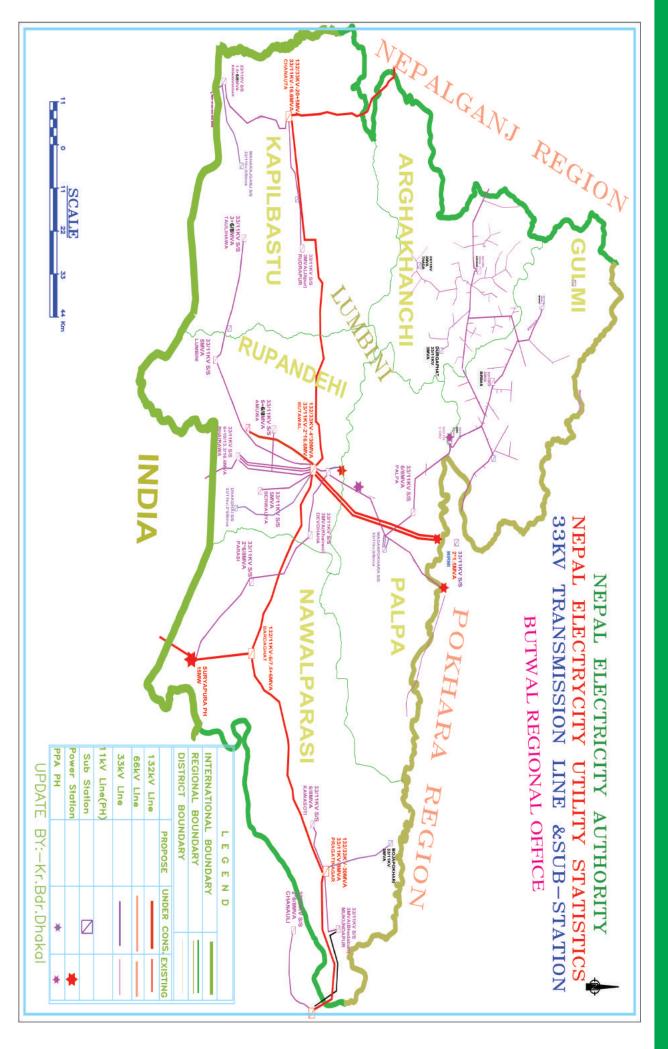
Electrification Status

S. No.	District	Municipalities / Rural Municipalities	Total Electrification % of municipalities (Grid Connected)	Populations	No of Households	Total 11 kV (HT) Circuit Kilometer (KM) required to fully electrified the Municipalities or rural municipalities	Total 0.4 kV (LT) Circuit Kilometer (KM) required to fully electrified the Municipalities or rural municipalities	No of Transformer Required
		1. Manthali Municipality	96.58	43825	10376	3	8	2
		2. Ramechhap Municipality	81.91	29395	6295	5	20	2
		3. Umakunda	24.24	18084	3976	25	50	8
		4. KhandaDevi	67.20	26467	5520	20	40	5
1	Ramechhap	5.Gokul Ganga	100.00	20607	4568			
		6.Doramba	89.82	23362	5129	2	5	1
		7.Likhu	79.27	23742	5064	10	40	4
		8.Sunapati	87.55	18624	4161	1	6	1
		Total District : Ramechhap	81.36	204106	45089	66	169	23
		1.Jiri Municipality	100.00	15565	3867			
		2.Bhimeshwor Muncipality	100.00	32590	8667			
		3.Kalinchok	98.00	23028	5476	2	5	
		4.Gauri Shankar	72.53	17117	4079	66	80	4
2	Dolakha	5.Tamakoshi	98.00	18910	4360	2	5	1
_		6.Melung	100.00	20274	4858			
		7.Bigu	58.31	18509	4433	5	25	5
		8.Baiteshwor	99.26	28865	7740	3	5	2
		9.Shailung	100.00	19761	4974			
		Total District : Dolakha	93.35	194619	48454	78	120	12
		1.Chautara Sangachokgadhi	86.87	47466	11132	10	25	5
		2.Barhabise Municipality	85.34	27088	6354	15	27	6
		3.Melamchi Municipality	97.14	46286	10308	20	35	8
		4.Indrawati	92.75	29109	6342	10	15	5
		5.Jugal	66.32	19631	4023	20	30	8
		6.PanchaPokhari	86.32	21295	5110	15	20	5
3	Sindhupalchowk	7.Balephi	90.00	19303	4522	5	5	2
		8.Bhotekoshi	80.00	16978	4270	10	25	5
		9.Lishankhu Pakhar	80.00	15447	3757	15	35	7
		10.Sunkoshi	90.00	17604	4449	10	15	3
		11.Helambu	95.03	18039	4292	15	25	14
		12.TripuraSundari	90.00	13471	3465	10	15	5
		Total District:	0-0		(0			
		Sindhupalchowk	87.85	291717	68024	155	272	73

		1.Dhulikhel Municipality	94.70	22717	7402	30	50	10
		2.Banepa Municipality		33717 58316	12691			20
		3. Panauti Municipality	95.10			15	30	
		- · ·	88.72	48846	10688	15	50	15
		4.Panchkhal Municipality 5.Namobuddha	91.38	39832	8955	15	40	12
			01.46	00045	6000	00	00	10
		Municipality	91.46	30945	6903	20	30	13
		6.Mandan Deupur	79.64	34235	7682	15	40	15
4	Kavrepalanchowk	7.Khanikhola	0.00	15093	2486	15	30	15
		8.Chaunri Deurali	80.14	21836	4890	15	30	12
		9.Temal	76.90	23809	5112	16	40	15
		10.Bethanchok	78.75	17589	3776	13	20	10
		11.Bhumlu	84.58	19830	4733	20	30	15
		12.Mahabharat	0.00	19165	3050	15	30	10
		13.Roshi	66.76	28127	5801	30	45	20
		Total District :						
		Kavrepalanchowk	80.64	391340	84169	234	465	182
		1. Lalitpur Metropolitan	99.85	341851	84295	15	70	40
		2.Godawari Municipality	98.74	93946	21311	35	95	45
	Lalitpur	3.MahaLaxmi Municipality	99.61	74594	17914	20	60	25
5		4.Konjyosom	83.59	11649	2401	3	10	3
		5.Bagmati	79.50	15656	3136	5	15	9
		6.Mahankal	80.09	11343	2330	4	11	7
		Total District : Lalitpur	98.50	549039	131387	82	261	129
	Bhaktapur	1.Changunarayan						
		Municipality	99.24	65973	14484	60	230	75
		2.Bhaktapur Municipality	99.38	84191	17860	35	140	60
6		3.Madhyapur Municipality	100.00	98829	24164	0	0	0
		4.Surya Binayak						
		Municipality	90.46	93419	21954	85	185	60
		Total District : Bhaktapur	97.05	342412	78462	180	555	195
		1.Kathmandu Metropolitan	100.00	1222048	318577			200
		2.Kageswori-Manohara						
		Municipality	98.82	75466	17950	5	10	30
		3.Kirtipur Municipality	97.82	82186	24354	5	10	20
		4.Gokarneshwor Municipality	98.66	134490	33959	5	10	11
		5.Chandragiri Municipality	96.08	106733	25722	10	20	20
		6.Tokha Municipality	97.35	124068	32023	10	15	18
7	Kathmandu	7.Tarkeshwor Municiplaity	98.86	102032	25255	4	15	16
		8.Daxinkali Municipality	96.93	30440	6876	5	15	20
		9.Nagarjun Municipality	100.00	84464	20979	5	20	18
		10.Budhanialkantha						
		Municipality	97.61	135200	33180	10	15	18
		11.Sankharapur						
		Municipality	93.23	31745	6773	10	20	35
		Total District : Kathmandu	99.12	2128872	545648	69	150	406

		1.Bidur Municipality	97.46	56124	12913	2	3	5
		2.Belkot Gadhi Municipality	96.53	42026	8363	2	2	6
		3.Kakani	96.48	27120	5352	2	3	5
		4.Kispang	96.90	15346	3450	2	3	5
		5.Tadi	92.28	18517	3699			
		6.Tarkeshwor	96.25	16230	3625	5 3	4	5
8	Nuwakot	7.Dupcheshwor	71.63	22827	4595	28	3 16	5 8
O	Nuwakot	8.PanchaKanya	95.36	16465		20	2	
		9.Likhu	95.83		3430 3748	2		5
		10.Meghang		17402			3	5
		11.Shivpuri	95.67	13918	3500	4	4	5
		12.Surya Gadhi	95.96	21447	4828	3	3	5
		Total District : Nuwakot	96.22 94.38	17349 284771	3624 61127	2	2	5 64
		1.Uttar Gaya	70.13	8555	1914	57 12	48	5
	Rasuwa	2.Kalika	90.32	9765	2165			
		3.GosaiKunda				4	12	3
9		4.NauKunda	87.49	7403	2092	10	15	4
7		5.ParbatiKunda	92.13	12255	2573	0	20	10
		(Aamaxodingmo)	94.22	5690	1353	3	24	2
		Total District : Rasuwa	86.89	43668	10097	3 7	91	24
		1.Dhunibesi Municipality	82.05	32531	7086	20	27	5
		2.Nilkantha Municipality	98.27	61346	14660	6	25	4
		3.Khaniyabas	60.37	13366	2779	10	20	8
		4.Gajuri	68.36	28395	5871	10	15	10
		5.Galchhi	90.13	26896	5671	10	15	4
		6.Ganga Jamuna	50.61	22839	5099	10	25	9
		7.Jwalamukhi	82.12	25125	6007	11	14	6
10	Dhading	8.Thakre	16.39	34507	7264	40	90	25
		9.Netrawati	100.00	13494	3272	12	20	5
		10.Benighat Rorang	67.43	32999	6468	7	10	17
		11.Rubi Valley	0.00	10025	2236	60	150	20
		12.Sidda Lekh	100.00	24876	5386	6	8	6
		13.Tripura Sundari	90.66	24072	5614	3	5	3
		Total District : Dhading	74.71	350471	77413	205	424	122
			/ 1 /	JU- 1/-	// 10	- 0		

BUTWAL REGIONAL OFFICE



BUTWAL REGIONAL AND DISTRIBUTION CENTRE CHIEFS



Nabaraj Subedi Butwal Regional Office Chief



Umesh Kumar Jha Bhairahawa DC



Suraj Gautam Parasi DC



Sanjay Kumar Mishra Butwal DC



Rajib Kumar Sharma Kawasoti DC



Ramu Shrestha Palpa DC



Narayan Aryal Gulmi DC



Jaya Kumar Yadav Taulihawa DC



Kamar Alam Khan Nayamil DC



Birman Raskoti Arghakhanchi DC



Laxmi Aaganja Krishnanagar DC

Introduction

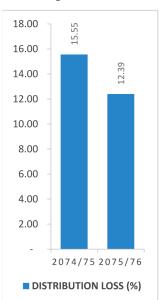
Butwal Regional Office (BuRO) is one of the eight Regional Offices under the Distribution and Consumer Services Directorate and is responsible for overall management of electricity distribution services, operation and maintenance of electrical networks of Lumbini Zone. There are 10 (Ten) Distribution Centers (DCs) in this Regional Office. Area of operation of this regional office covers Nawalpur, Parasi, Rupandehi, Kapilbastu, Palpa, Gulmi, and Arghakhanchi districts. The major activities of this regional office include operation, maintenance and rehabilitation of the electricity distribution networks up to 33 kV voltage Level and 33/11 kV substations as well as consumer services activities such as new consumer connections, meter reading, billing, and revenue collection

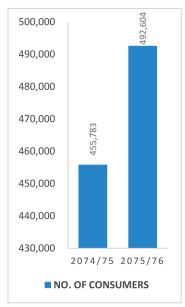
region are coordinated by the technical division. The finance and revenue functions are carried out by the Joint Director of the region. The Regional Office is provided with a separate administrative officer to attend human resource function. The source of fund is Government of Nepal and NEA itself. There are nine 33 kV transmission line, substation project and a rural electrification project funded by Government of Nepal under this regional office.

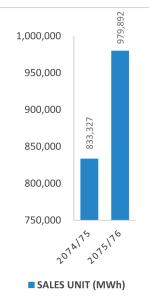
Key Objectives

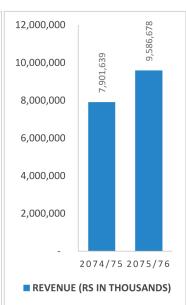
- To provide good quality electricity to domestic and industrial consumers.
- To supply reliable electricity to new industrial consumers.
- Provide new connections to prospective consumers.

The comparative salient features of this regional office are as follows:









Operational Structure

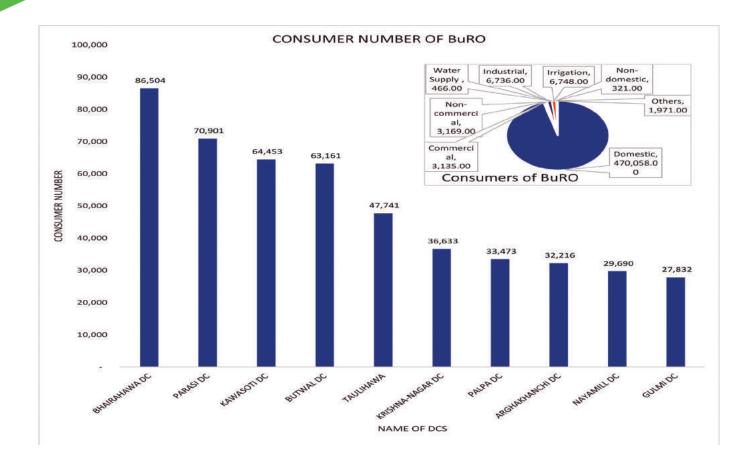
There are 10 Distribution Centers within this Regional Office for effective administration. Naya mill DC is the new dc established in the fiscal year to facilitate the consumers. In addition to above, there is technical division represented by a Manager who looks after all the technical matters, projects, planning & development and corporate work of the region. Rural Electrification activities within the

 Ensure rational development of the electricity distribution system within the Region.

Highlights of the Year

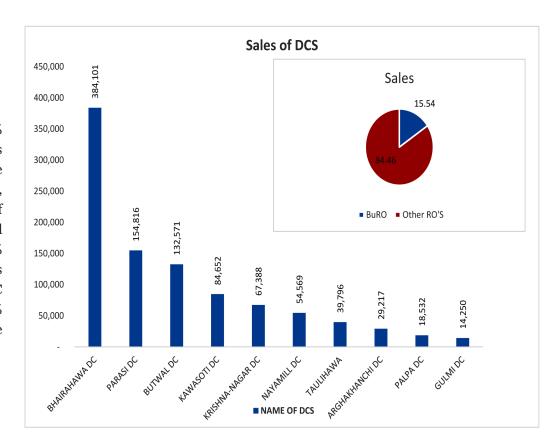
Consumer Number

BuRO recorded 492,604 consumer accounts by the end of the fiscal year 2075/76. The majority of consumer accounts were in the domestic category (470,058) while the second most were from the irrigation category (6,748).



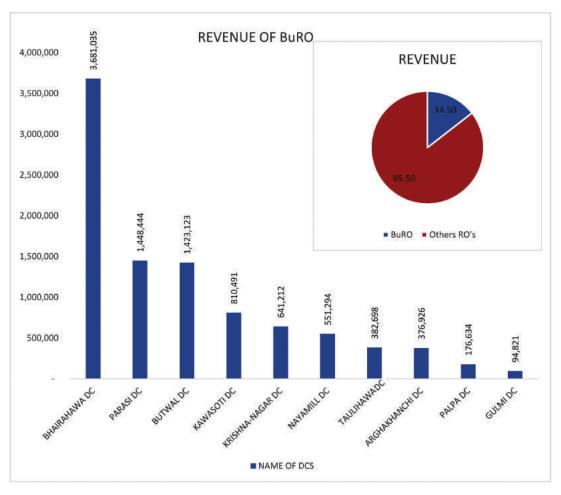
Sales

BuRO reported 15.54% of electricity sales within DCs. In the fiscal year 2075/76, 979,892 MWh of electricity was sold in the region, a 17.6% increase over previous year. Bhairahawa DC accounts for 39.20% of total sales in the region.





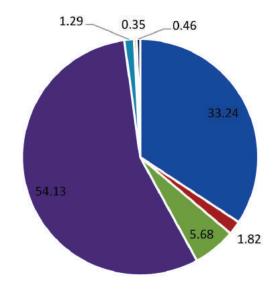
The revenue from electricity sales during the year was Rs. 9,586.7 million which is 21.32% increase from last vear. The reasons for increase of revenue are the growth energy of sales, recovery of old dues from consumers. BuRO accounts for 14.50% of the total revenue of the DCs.

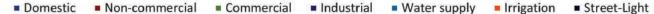


The majority of revenue in BuRO recorded from industrial tariff category which is approximately 54.13% of the total revenue of the region. The higher sales was due to increased consumption from industries established within the territory of BuRO.

Bhairahawa DCs accounts for 38.40%, Parasi DCs accounts for 15.11%, Butwal DCs accounts for 14.84%, Kawasoti DCs accounts for 8.45%, Krishna-Nagar DCs accounts for 6.69% and Nayamill DCs accounts for 5.75% of the total revenue in the region.

Categorywise consumption





Distribution Infrastructure

33 kV Distribution Lines	937.85 km
11 kV Distribution Lines	3896.88 km
33/11 kV primary Substations	18
LV Distribution Lines	13,131.89 km
LV Distribution transformers	4,078 Nos.
Distribution Transformers Total	240.24 MVA
installed capacity	

Performance Highlights

Consumer per Staff	775.75
LT 0.4/0.24 kV Line Length per Staff (km/staff)	20.68
Sales per Consumer per year (kWh/Consumer)	1992
Revenue per Consumer per year (Rs./Consumer)	19,464
Consumer per Distribution Transformers	121

Customer Care

The staff attached to 10 Distribution Centers took special efforts to serve our valued customers better during the year. The low voltage problems were addressed by installing distribution transfomers in potential locations. Nepal Electricity Authority has made arrangements to submit electricity bill easily through the online systems. This system has given the service of paying the bill online and also updates about the bill payment for the consumers and the obligation for consumers to come to counters for bill payment has ended, thus saving time of the consumer. Consumers can pay their bills via 8 service providers (eSewa, PayPoint, CFS Remit, City Express, Prabhu Bank, Nepal Investment Bank, Himalayan Bank and



Implementation of One door service (Bhairahawa DC)

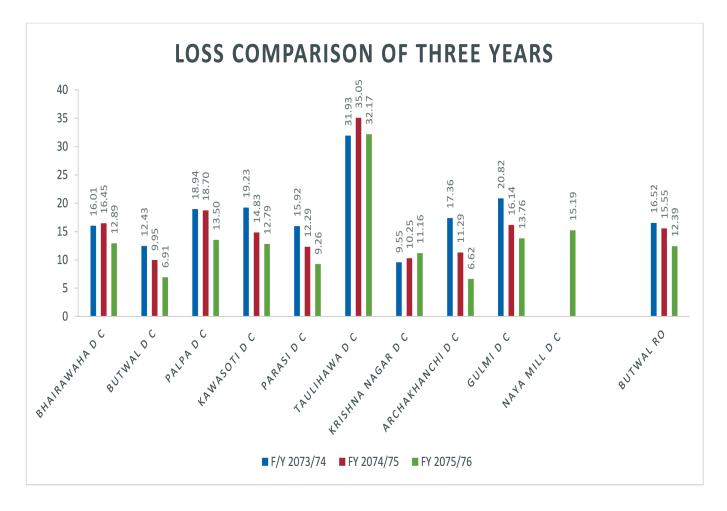
Mahalaxmi Bikash Bank). NEA has introduced one door system to facilitate the consumers and to provide the service as quickly as possible. This system saves the time of the consumer. Round the clock no-light services have been implemented in most of the urban no-light centers.

NEA regular works for addition of new transformers, shifting of distribution transformer at load centers, addition of two wires and upgradation of substation have key roles in voltage improvement providing quality supply.

Loss Reduction Program/Loss Reduction Activities

The distribution networks comprise of technical and non-technical losses, in which proportion

of non-technical losses is quite high. During the year under review, various measures taken in the preceding years were continued to reduce the non-technical losses. Massive awareness campaigns as workshops and review meetings were implemented in various distribution centers. Strict measures for electricity theft control such as confiscation of electric equipments and taking legal action against culprits were also conducted in various distribution centers with the help of local administration and security agencies. NEA management made various decisions as 'Immediate Action Plans' to improve its functioning. This plan included regular inspection of Time-of-Day (TOD) meters, data download and analysis to curb any connection fault or manipulation.



Future Plans/Programs

As high system loss is a major challenge for NEA, BuRO is trying to make every effort to bring down the distribution system loss. It is also planning to improve the quality of the services through the use of new technologies and capacity building to meet the challenges of new environment in utility business. Consumer complaints shall be addressed without delay and the procedure for new connection related works shall be made simple and user friendly.

To reduce Non-technical and Technical loss, these future plans shall be implemented with the joint efforts of BuRO and DCs.

For Non-Technical losses:

- Identification of electricity theft prone areas in different Distribution Centers.
- Public Awareness Program.



- Mobilization of Police and Staffs to remove hooking.
- Changing of Defective meters i.e. burnt, damage, stopped meters.
- Re-sealing of meters.
- Additional billing of HT/LT Consumers after analyzing TOD meter data download report as per the NEA, Electricity Distribution rules 2069.
- Upgrading of electricity meters to meet standard accuracy must be conducted to support reduction of non-technical losses through statistical analysis.

For Technical losses:

Conversion of single-phase lines to three phase lines by the addition of two wires.

- Balancing of phase loads.
- Optimization of distribution system.
- Improve power factor and reducing the harmonic

विद्युत चुहावट रोक्न निःशुल्क मिटर बितरण

कपिलवस्तु, २७ चैत-कपिलवस्तु नगरपालिका वडा नम्बर १२ सौरहाका ७६ वर्षिय तमेश्वर क्लॉर औथी खुसी देखिए।

पैसाको जोहो नहुँदा छिमेकी गरको फिलोपिली बनी रेखें जिल बुफाउने उनले घर बनेको ३० वर्ष सम्म दुकी र चाईनिज लाईटको भरमा घर ालाए। तर घर छेउमै आएर निःशुल्क विद्यत मिटर जडान होला भनेर कल्पना समेत नगरेका उनले एकाएक निःशुल्क मिटर जडान हुने भए पछि खुसी नहुने कुरै थिएन। "२/४ वर्ष बाँकी रहेको जिन्दगी परमा बिजुली नबालेर सिककएला कि भन्ने लागेको धियो। तर अब घरमा बत्ती आउने भवो। उनले खुसी हुदै भने। उनी जस्तै सोही वडाका सावित्री लोहार र चन्द्रावती मल्लाह समेत गाउँमै आएर निःशुल्क विद्युत मिटर जडान हुने भएपछि खसी

गर्मीयाम शुरु भई विद्युतको माग वृद्धि हुँदै बिद्युत नियन्त्रणका लागि निःश्लक विद्यत गरिएपछि उनीहरूमा खसीको आगमन भएको हो। नेपाल चिद्युत प्राधिकरण तीलिहवा वितरण केन्द्रको आयोजनामा कपिलवस्त नगरपालिका १२ सीरहाका ८३ गरिब, दलित र बिपन्न परिवारलाई बिद्युत मिटर बितरण गरिएको हो। प्रतिनिधीसभाका सांसद बजेश कमार गुप्ता, प्रदेश सदस्य धर्म बहादुरलाल थीवास्तव, प्राधिकरण क्षेत्रिय प्रमुख भानुभक्त भद्रराई, बितरण केन्द्र प्रमुख जय कमार यादव र चडा अध्यक्ष ओम प्रकाश पाण्डेयले ८३ परिवारका घरमुलीलाई बिद्युत मिटर हस्तान्तरण गरेका हन । वर्षीदेखि मिटर नपाएकाले



विद्युत चोरी गर्दा सम्काउनै गाहो पर्ने गरेको अनुभव सुनाउँदै अब भने विद्युत बुहावट निक्काणमा सहयोग पुने बडा अध्यक्ष औम प्रकाश गण्डेयले बताए। "विमतना विद्युत मिटरका लागी आवेदन दिएए महिनी बुर्नु पर्ने बानी परेका बडावासी परमे निन्शुल्क मिटर पाउँदो खुसी छन," बडा अध्यक्ष पाण्डेयले भने ।

प्राधिकरणको केन्द्रिय निती नुसार चुहावट बढि हुने स्थानमा निःशुल्क बिद्युत मिटर बितरण गरि जडान समेत गर्ने थालिएको वितरण केन्द्र प्रमुख जब कुमार यादवले जानकारी दिए। "हामीले बढि विद्युत चुहावट हुने ठाउँमा चुहावट नियन्त्रणमा स्थानियको सरोकार बद्धि गर्नका लागी नि:शुल्क बिद्युत मिटर बितरण गरेका हौ । आशा छ, चुहावट नियन्त्रणको विषय महैको मगेकारको विषय बले छ।" वितरण केन्द्र प्रमख यादवले भने । सरकार र प्राधिकरणको उज्याली नेपाल अभियानलाई साकार पार्न चुहावट नियन्त्रण मुख्य मुद्दा भएकाले

अधियानलाई प्राथमिकता दिएको नेपाल विद्यत प्राधिकरण बुटबलका क्षेत्रिय प्रमुख भानुभक्त भद्रराईले बताए। निःशस्क बिद्युत जितरणको कार्यले बिद्युत चोरी र चहावट नियन्त्रणमा सहयोग प्रने प्रदेशसभा सदस्य धर्मबहादुर लाल श्रीवास्तवको भनाइ थियो। नेपालको परिकल्पना गर्न उर्जाको सिंह सद्देपयोग गर्ने कार्यका लागि प्राधिकरणको अभियानले सहयोग पुर्वाउने प्रतिनिधीसभाका सदस्य वृजेश कुमार गुप्ताले बताए। प्राधिकरणको तीलहवा वितरण केन्द्रले चेकजॉच सगै पछिल्लो समय टोल टोलमें पंगी मिटर वितरण गर्ने कार्य अगाडी बढाउँदा बिद्युत चुहावटको दर ३८ प्रतिशतबाट घटेर २३ प्रतिशतमा 1.05 तौलिहवा वितरण केन्द्रले चुहावट नियन्त्रण अभियान र कार्यक्षेत्रका ६ वटा स्थानीय तहमा बुहावट नियन्त्रण समिति समेत गठन

Electricity Theft control (Taulihawa DC)

distortion by installing suitable size of Capacitor Banks at substation as well as installation of LV Capacitors on LV lines.

- Demand management measures.
- Re-location of distribution transformers at load center.
- Upgradation of distribution transformers and substation power transformers.
- Changing of Broken insulators like Disc insulator, pin Insulator and shackle insulator.

Safety Measures/ Safety day

Safety measures have become necessary as there are occurence of electric accidents of employees, people and domestic animals every year due to leakage of electricity and non-safety working habit. Initiative will be taken to raise the awareness of the working staff regarding safety hazards. Use of safety tools will be made mandatory for all the working staffs.



Electrical safety day activities

Challenges within Regional Office

The various Challenges faced by the Regional office to provide reliable service to the consumers are as follows:

Bhairahawa DC

33 kV, feeders, New 2 (350 Ampere), Old (380

- Ampere), Lumbini (370 Ampere) and Bharaulia (390 Amperes) are overloaded and has an excessive problems of tripping.
- 11 kV feeders from Bhirahawa S/S (Feeder No. 7, 3 and 4) needs to be upgraded and rehabed to provide quality supply to consumers.
- Voltage drop in 33kV feeder of Bhairahawa DC is high. During Baishak and Jestha supply in 33kV voltage is reduced to 26 kV.

NayaMill DC

- 11kV Naya mill east and Naya mill west feeders are overloaded and feeder segregation and upgradation is necessary.
- Major technical challenge within the region is distribution system reliability which needs to be sorted out by system upgradation like conductor upgrading, feeder separation, substation rehabilitation, etc.

Kawasoti DC

- Kawasoti and Mukundapur S/S are overloaded and are under upgradation under the project of PTSD. 11kV kawasoti and Arunkhola feeder needs to be upgraded, segregated for reliable and stable supply.132/33kV substation should be constructed in nearyby area to solve the problem.
- Social and political challenges are also vibrant within the Region.

Taulihawa DC

- 33 kV feeder are long and overloaded and needs to be upgraded.
- 30 MVA transformer of Chanduta grid is over loaded since it is connected to two substations of Taulihawa dc and it is connected to industrial feeder too.
- Taulihawa substation (6/8 + 3 MVA) is overloaded and 3 MVA transformer needs to be upgraded to 8MVA to meet the demands of consumers.
- Conductor 11kV Lumbini and Krishnanagar feeder should be upgraded.

Krishnanagar DC

- 33/11 kV,3 MVA transformer of Chanduta grid is overload and it needs to be upgraded to 6/8 MVA.
- Maharajgunj feeder from Krishnanagar S/S is very long so substation should be constructed in Krishnanagar promptly.

Palpa DC

- 33kV feeder from Butwal grid to Palpa S/S is very long and has excessive tripping problems.
- 11kV Pacchim and Purba feeder from Palpa S/S is long and overloaded.
- There are many NEA 33/0.4kV transformers in trunk lines and those loadcenters should be shifted to 11/0.4kV.

Gulmi DC

- 33 kV feeder are long and overloaded and needs to be upgraded
- There are many NEA 33/0.4kV transformers in trunk lines and those loadcenters should be shifted to 11/0.4kV.
- 33/11 kV Bastu substation is charged without any protection system and 11kV breakers and other protection should be incorporated in the S/S.

Argakhachi DC

- 33 kV feeder are long and overloaded and needs to be upgraded
- There are many NEA 33/0.4kV transformers in trunk lines and those loadcenters should be shifted to 11/0.4kV.
- 3MVA substation in Argakhachi needs to be upgraded and protected system and 11kV lines needs to be rehabed.

Argakhachi DC

- 33 kV feeder are long and overloaded and needs to be upgraded
- There are many NEA 33/0.4kV transformers in trunk lines and those loadcenters should be shifted

to 11/0.4kV.

 3MVA substation in Argakhachi needs to be upgraded and protected system and 11kV lines needs to be rehabed.

Parasi DC

- 33 kV and 11kV feeders are long and overloaded and needs to be upgraded.
- 33/11 kV, 2*6/8MVA Parasi substation is overload and needs to be upgraded and rehabilitated.

Butwal DC

- 33 kV Jogokuti-Chauraha feeder overloaded and to solve this problem 3km 33kV line extension is in progress.
- Saljhandi feeder is long and overloaded (380 Amperes) and to slove this problem Saljhandi 33/11kV, 16.6 MVA substation is under construction.
- 3.3/33KV, 1 MVA substation (from Tinau Power house) at Chauraha, Butwal is overloaded and needs to be upgraded.

Projects within the Regional Office

Jitpur-Thada 33 kV Transmission line and Substation Project

This project funded by Government of Nepal, started on 2072/02/05 and the work is in progess. This project is targeted to complete in next six months.

Bhairahawa-Taulihawa Distribution System Reinforcement Project

This project is funded by Government of Nepal, started on 2072/01/06 and it is targeted to complete in next six months.

Ridi 33 kV Transmission line and Substation Project

The scope of this project is to construct 11 kV line from Ridi to Birbas and 33/0.4 kV transformers replacement with 11/0.4 kV transformers at Ridi,

Gulmi. This project is also funded by Government of Nepal and the budget spent in this project is Rs. 27,953,383. This project is targeted to complete in next one year.

33 kV Double Circuit Yogikuti-Shitalnagar Line Construction

This project is funded by Government of Nepal and the budget allocation for this project is Rs. 25,000,000.

33kVDoubleCircuitDhakdhai-SejBhairahawa and Breaker installation at Dhakdhai

This project is funded by Government of and it started on 2074/03/18. The scope of this project includes the

installation of Bay and Breaker at Dhakdhai, and the construction of 33 kV Double Circuit Dhakdhai-Sej, Bhairahawa. This project is targeted to complete in next 12 months.

33 kV Double Circuit Yogikuti-Chauraha project

This project started on 2072/02/04 and is funded by NEA. This project is targeted to complete in next three months.

33/11 kV 3 MVA Substation at Siluwa, Palpa

The inception date of this project is 2071/06/26 and is targeted to complete in next one and half years.

Substation Status

S.N.	Distribution Centre	Substation Name/ Location	Capacity (MVA)	Total Capacity (MVA)	Voltage level (kV)	Existing	Proposed	Planned	Underconstruction	Remarks
		Bharauliya/ Tillottama-16		(MVA)						
1	Nayamill DC	Bharauliya	6/8	8	33/11	\checkmark				
		Taulihawa	11		33/11	√				
	2 Taulihawa DC	Jeetpur	11		33/11	√				
2		Labani	6/8	38	33/11				√	
		Ghanchaura	6/8		33/11				√	
		Krishnanagar Substation	2*6/8		33/11	√				
		Maharajgunj Substation	1*6/8		33/11	√				
			1*30		132/33	√				
3	Krishnanagar DC	Chandrauta Substation	1*12.5	72.5	132/33	√				
		(Butwal Grid)				√ √				
		(2411141 0114)	1*6/8	-	33/11	v √				
		Birbas S/S Gulmi	1*3		33/11					
		Ridi S/S Gulmi	6/8		33/11 33/11					
		Bistu S/S Gulmi	3		33/11					
4	Gulmi DC	Kisantari S/S Gulmi	3	13	33/11	V			√	
4	Guilli DC	Santipur S/S Gulmi		13	33/11				V √	
		Paudiamarai S/S Gulmi			33/11		√		V	
		Unayachaur S/S Gulmi								
		Argha	3		33/11	√	V			
		Hansapur	6/8	-	33/11	<u> </u>			√	
5	Arghakhachi DC	Fudwang		57	132/33					
J		Durgafaant	30 6/8	. J/	33/11					
		Thada	6/8		33/11				V √	
		Batasedanda SS, Batase	0/0		33/11				V	
		Tansen Palpa	6/8		33/11	√				
		Rupse SS, Mathagadi Rupse			33/11				√	
6	Palpa DC	Siluwa SS, Purbakhola Siluwa	3	20	33/11				V √	
		Jhumsha SS, Tinau Jhumsha	3	-	33/11			√	V	
		Amlabas SS, Rainadevi Chhahara	3		33/11			√ √		
		Kawasoti Sbstation	6/8		33/11	√		, , , , , , , , , , , , , , , , , , ,		To Upgrade
7	Kawasoti DC	Mukundapur Substation	6/7.5	15.5	33/11	√ ·				To Upgrade
8	Parasi DC	Parasi Substaion, Parasi	2*6/8	16	33/11	√				6/8*2 MVA Substation is required to upgrade upto capacity 16*2 MVA
		Bhairahwa	33.2		33/11	√				
		Lumbini	8		33/11	√				
9	Bhairahawa DC	Amuwa	13	54.2	33/11	√				
		Dhakdhai	8		33/11	√				
		Mainahiya	-		132/33/11				√	
			2*6/8		33/11	√				
10	Butwal DC	Chauraha/ Butwal	1	25	3.3/11	√				
		Sitalnagar / Sitalnagar	6/8		33/11	√ ·				
			tal Existing	273.20	00/					

33 kV Feeder Status

33 KV Feeder Status									
S.N. Name of DC		Name of 33KV Feeder	of 33KV Feeder Length of Feeder Size (sq.inch)		Maximum/ Average Load (A)				
1	Nayamill	Ground Water	11.6	Dog ACSR	380/340				
		Krishnanagar	44	0.1, 0.05. 0.03	90				
		Lumbini	72	0.1, 0.05. 0.03	100				
		Mahita	40	0.1	50				
	Taulihawa DC	Market	10	0.1	100				
2		Dohani	50	0.1, 0.05. 0.03	90				
		Gajeda	85	0.1, 0.05. 0.03	250				
		Pipra	20	0.1	350				
		Kopwa	43	0.1, 0.05	150				
		Pipra	17	0.1, 0.05	100				
		Krishnanagar Feeder	20.04	, ,					
		Industrial Feeder	19						
3	Krishnanagar	New Feeder	5.9	Dog					
		Maharajgunj Feeder	0.7	- 0	Not completed yet				
		Ridi to Birbas	25	Dog					
		Birbas to Tamghas	20	Rabbit					
		Tamghas to Bastu	21	Rabbit					
		Gwadi	15	Rabbit					
4	Gulmi	Digaam	9	Rabbit					
		Baletaksar to Khureni	13	Rabbit					
		Charpala	10	Rabbit					
		Simichaur	13	Rabbit					
		Lamahi grid to Subhashri							
		Agni Cement	35	0.05					
		Gulmi to Rahatle (Incoming							
		feeder 1)	48.6	0.05	65				
		Gulmi to Mareng	14.3	0.03					
_	A 1 11 1:	Rahatle to Hanspur	23.8	0.03					
5	Arghakhachi	Maulipokhara to Pali Maidan	48.6	0.03					
		Maulipokhara to							
		Thulapokhara	12.4	0.03					
		Rahatle to Thada	75.8	0.03					
		Khilji to Argha Substation							
		(Incoming feeder 2)	27.7	0.05	65				
6	Palpa	Khanepani 33 KV	11.8	Rabbit/ 0.05	4.2/3.8				
-	Kawasoti	Kawasoti 33kV Feeder	7 Km	DOG (0.1 Sq.inch)	132				
7		Mukundapur 33kV Feeder	15 Km	DOG (o.1 Sq.inch)	142				
0	Parasi	Parasi- gandak 33 kV	45	Dog, 0.1	300				
8		Parasi- Butwal 33 kV	30	Dog, 0.1	120				
		New 1	17.73	Dog	400				
		New 2	32.38	Dog	360				
		Old 33	28.18	Dog	400				
9	Bhairahawa	Lumbini	34.47	Dog	360				
		Ground Water Bharwaliya	34.34	Dog	340				
		Dhakdhai East	22.00	Dog					
		Dhakdhai West	22.00	Dog	0.4				
		BID BID	3.08	0.1 Sq Inch	94 80				
10	Butwal	Butwal Palpa	3.4	0.1 Sq Inch					
10	Dutwai	Chaurawa Sitalnagar		0.1 Sq Inch	390				
		Chaurawa Shaillagai	22.33	0.1 Sq IIICII	320				

11 kV Feeder Information

G NI	V CDG	N. C. IIII	Length of	Conductor Name	Maximum/	
S.N.	Name of DC	Name of 11KV Feeder	Feeder	Size (sq.inch)	Average Load (A)	
		Nayamill West	24	Dog, Rabbit and Weasel ACSR	295/240	
		Nayamill East	28	Dog, Rabbit and Weasel ACSR	315/270	
	Nayamill	6 Number	12	Dog, Rabbit and Weasel ACSR	125/90	
1		Nayamill	47	Dog, Rabbit and Weasel ACSR	112/85	
		Dhakdhai	13	Dog, Rabbit and Weasel ACSR	172/160	
		Bharauliya	24	Dog, Rabbit and Weasel ACSR	95/80	
		Tikuligadh	46	Dog, Rabbit and Weasel ACSR	215/185	
		Bahadurgunj Feeder	21			
		Shivpur Feeder	42			
		Pipara Feeder	75			
2	Krishnanagar	Maharajgunj Feeder	119			
		Premnagar Feeder	80			
		Bahadurgunj Feeder	75			
		Krishnanagar Feeder	7			
		Bhotka	2.5	Rabbit		
		Ridi	1.2	Rabbit		
		Balethum	44	Rabbit	20/8	
		Majuwa	32	Rabbit	23/10	
	Gulmi DCS	Huga	35	Rabbit	25/11	
3		Bastu	46	Rabbit		
		Isma	49	Rabbit		
		Jaisithok	41	Rabbit		
		Kaligandaki Jayakhani	35	Rabbit		
		Kaligandaki Harchikot	29	Rabbit		
	Arghakhachi DCS	Bazar feeder	19.4	0.05	50	
		Dharampani feeder	48.7	0.05	17	
		Nuwakot feeder	61.8	0.05	16	
4		Dhikura feeder	56.9	0.05	12.5	
		Bangla feeder	15.8	0.05	12	
		Dang Arghakhachi feeder	5.7	0.05		
		Palpa Arghakhachi feeder	24.5	0.05		
	Kawasoti Distribution Center	Dumkibas Feeder	32 Km	DOG (o.1 Sq.inch)	215 A	
		Kawasoti Feeder	51 Km	DOG (0.1 Sq.inch)	110 A	
		Arunkhola Feeder	69Km	DOG (0.1 Sq.inch)	225 A	
5		Pragatinagar Feeder	37 Km	DOG (0.1 Sq.inch)	210 A	
Э		Rajhar Feeder	42 Km	DOG (0.1 Sq.inch)	235A	
		Industrial Feeder	10 Km	DOG (0.1 Sq.inch)	120 A	
		Mukundapur Feeder	5 Km	DOG (0.1 Sq.inch)	86 A	
		Gaidakot Feeder	29 Km	DOG (0.1 Sq.inch)	290 A	

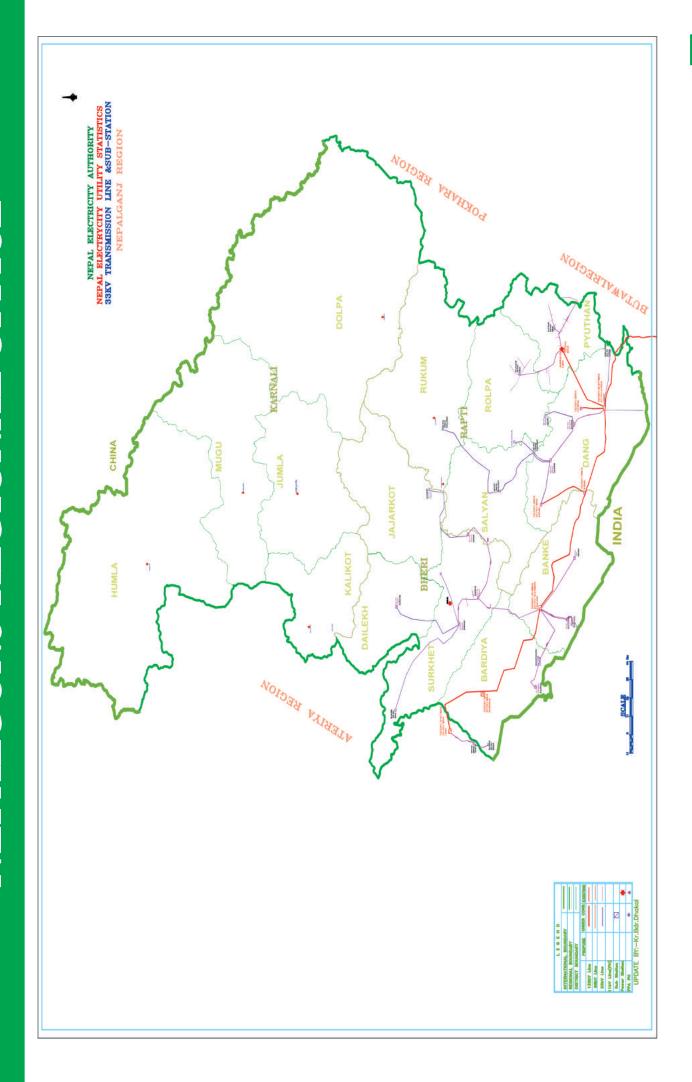
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		Triveni Feeder	35	, 0.3	150
		Local Feeder	40	, 0.5	100
	Parasi Dc	South feeder	30	, 0.3	120
		West Feeder	20	, 0.3	80
		Dumkibas Feeder	18	Dog, 0.1	150
		Pratappur Feeder	50	, 0.5	90
		Bardaghat Sunwal Feeder	55	Dog, 0.1	130
6		Bardaghat Feeder	40	Dog, 0.1	130
		Industrial Feeeder	16	Dog, 0.1	200
		Sunwal Feeder	25	, 0.5	85
		Rakshaha Feeder			
			10	Dog, 0.1	75
		Parasi Feeder	10	Dog, 0.1	110
		Maheshpur Feeder	35	Dog, 0.1	75
		Industrial Feeeder	10	Dog, 0.1	80
		Devdah Feeder	16	, 0.5	75
		East	134	Dog, Rabbit, Weasel	70/30
7	Palpa	West	158	Dog, Rabbit, Weasel	58/22
		Bajar	44	Dog, Rabbit, Weasel	102/60
		1 Number	16.74	Dog, Rabbit	235.00
		2 Number	25.10	Dog, Rabbit	223.00
		3 Number	39.94	Dog, Rabbit, Weasel	152.00
		4 Number	111.08	Dog, Rabbit, Weasel	200.00
		5 Number	9.57	Dog, Rabbit	100.00
		6 Number	16.91	Dog, Rabbit	175.00
		7 Number	15.75	Dog, Rabbit, Weasel	152.00
		Suryapura	58.56	Rabbit, Weasel	100.00
		Chhapiya	12.07	Rabbit, Weasel	25.00
8	Bhairahawa	Farsatikar Old	46.66	Rabbit, Weasel	75.00
		Farsatikar New	21.75	Dog, Rabbit, Weasel	85.00
		Kamhariya	46.33	Dog, Rabbit, Weasel	80.00
		Tikuligadh		Rabbit, Weasel	155.00
		1 Number	71.25	Rabbit, Weasel	100.00
		2 Number	26.72	Rabbit, Weasel	90.00
		3 Number	54.52	Rabbit, Weasel	80.00
		4 Number	66.49	Rabbit, Weasel	140.00
		Dhakdhai	67.61	Rabbit, Weasel	210.00
		Nayamill	29.90	Dog, Weasel	60.00
		Bihuli	23.75	Rabbit, Weasel	70.00
	Butwal Dcs	East	25.9	0.1 Sq Inch	300
		West Shaljandi	45.8	0.1 Sq Inch 0.1 Sq Inch	350
		Devinagar	179 19.6	0.1 Sq Inch	390
0		Charange	21.1	0.1 Sq Inch	320 200
9		Chaurawa East	3.5	0.1 Sq Inch	130
		Devdaha	3·5 28	0.1 Sq Inch	180
		Bhaluhai	23.27	o.1 Sq Inch	90
		Sarantadi	4.64	0.05 Sq Inch	30

Electrification Status

S.N.	District	Municipalities / Rural Municipalities	Total Electrification % of municipalities (Grid Connected)	Population	No of Households	Total 11 kV (HT) Circuit Kilometer (KM) required to fully electrified the Municipalities or rural municipalities	Total o.4 kV (LT) Circuit Kilometer (KM) required to fully electrified the Municipalities or rural municipalities	No of Transformer Required
		1.Kawasoti Municipality	87.09	69750	15759	25	75	35
		2.Gaindakot Municipality	83.72	65749	15221	30	85	20
		3.Devchuli Municipality	79.02	47604	10341	35	85	20
1	Nawalpur	4.Madhya Bindu Municipality	70.48	60496	13346	25	45	40
		5.Bungdi Kali	0.00	17582	3350	100	235	50
		6.Bulingtar	0.00	21366	3897	80	225	70
		8.Hupsekot	31.70	28008	5127	100	115	40
		Total District : Nawalpur	66.11	310555	67041	395	865	275
		1.Bardaghat	83.60	68692	14989	239	413	86
		2.Ramgram Municipality	85.29	63520	11491	243	435	151
		3.Sunwal Municipality	84.45	62342	13430	153	262	68
	Parasi	4.Triveni Susta	80.58	40104	6962	102	183	53
2		5.Palhi Nandan	87.60	39589	6572	111	223	64
		6.Pratappur	86.56	50553	8253	129	250	101
		7.Sarawal	89.23	41812	7412	105	168	55
		Total District: Parasi	85.08	366612	69109	1082	1934	578
		1.Musikot Municipality	42.51	30335	6544	45	130	50
		2.Resunga Municipality	97.98	30099	7723		50	15
		3.Isma	72.08	19386	4361	15	55	20
		4.Kali Gandaki	95.00	17456	3789	2	5	10
		5.Gulmi Durbar	86.69	20379	4870	5	15	10
	Gulmi	6.Satyawati	90.00	22015	5109	2	5	8
3		7.Chandrakot	90.00	27304	6753	5	8	8
		8.Ruru	89.32	17181	4350	3	5	8
		9.Chhatrakot	85.50	19864	4914	8	15	8
		10.Dhurkot	71.32	20764	4908	15	60	20
		11.Madane	70.00	20252	4491	20	85	15
		12.Malika	60.00	20092	4208	30	95	20
		Total District: Gulmi	79.40	265127	62020	150	528	192

		1 Dampur Municipality	0= 10	00060	==0o			
4		1.Rampur Municipality	87.18	33863	7780			
		2.Tansen Municipality	96.52	48224	13056	20	50	20
		3.Nisdi	0.00	21634	3723	20	200	30
		4.Purba Khola	78.09	18741	3908	25	100	15
	D 1	5.Rambha	95.25	19316	4425	10	50	10
	Palpa	6.Matha Gadhi	56.08	23936	4847	40	400	40
		7.Tinau	66.74	18258	3721	30	200	15
		8.Bagnaskali	95.45	20435	5044	10	100	10
		9.Ribdikot	83.00	17957	4446	15	100	10
		10.Raina Devi Chhahara	86.05	25323	5750	30	200	20
		Total District: Palpa	79.90	247687	56700	200	1400	170
		1.Butwal Sub-	99.06	165155	40587	4	10	20
		Metropolitan						
		2.Devdaha Municipality	98.56	63713	13584	3	3	16
		3.Lumbini Sanskritik	86.69	86296	11840	12	22	25
		Municipality						
		4.Siddharthanagar	100.00	75567	14878			10
		Municipality		/5500/	140/0			10
		5.Saina Maina	98.91	66448	14751	3	5	8
		Municipality	90.91	00440	14/31	3	3	
		6.Tilottama Municipality	76.04	119213	26137	50	300	60
5	Rupendehi	7.Gaidahawa	78.81	56619	8672	18	24	15
		8.Kanchan	87.43	39368	8432	5	12	10
		9.Kotahi Mai	62.00	48811	6657	4	6	10
		10.Marchawari	50.00	46158	6264	20	60	20
		11.Mayadevi	97.44	56134	8108	5	8	5
		12.Om Satiya	50.00	40700	6888	20	50	20
		13.Rohini	100.00	44252	6734			10
		14.Sammari Mai	50.00	45597	6096	20	50	20
		15.Siyari	96.13	45789	8085	12	20	13
		16.Suddodhana	96.13	41232	7316	16	28	14
		Total District : Rupendehi	87.47	1041052	195029	192	598	276
		1.Kapilbastu Municipality	73.46	87998	13931	10	30	40
		2.Buddabhumi						
		Municipality	87.92	74815	13269	11	22	15
		3.Shivaraj Municipality	97.27	76924	12957	12	16	9
		4.Maharajganj Municipality	97.50	63124	9189	3	5	8
,	Vor ill.	5.Krishna Nagar Municipality	97.57	71833	9816	4	6	7
6	Kapilbastu	6.Banganga Municipality	71.02	86670	18390	7	35	50
		7.Mayadevi	58.77	55543	7496	12	30	15
		8.Yashodhara	60.14	44869	6235	12	30	18
		9.Suddodhana	65.25	52066	7310	10	25	10
		10.Bijay Nagar	95.72	42547	6532	5	8	6
		Total district: Kapilbastu	81.12	656389	105125	86	207	178
		1.Sandhikharka Municipality	99.48	41995	10817	10		15
		2.Shit Ganga Municipality	63.20	44341	9406	20	50	15
		3.Bhumikasthan Municipality	98.98	33369	7899		10	2
7		4.Chhatra Dev	98.24	25900	6482	15	10	10
,		5.Panini	99.14	27013	6289		10	10
		6.Malarani	90.93	28670	6976		5	4
		Total District : Arghakhachi	90.81	201288	47869	45	85	56
		6			1//	10		U -

NEPALGUNJ REGIONAL OFFICE



NEPALGUNJ REGIONAL AND DISTRIBUTION CENTRE CHIEFS



Manoj Kumar Singh Nepalgunj Regional Office Chief



Paritosh Kumar Chaudhary Gularia DC



Ram Dular Yadav Nepalgunj DC



Madhusudan Yadav Ghorahi DC



Suraj Bhandari Surkhet DC



Deepak Jung Chaudhary Tulsipur DC



Jagannath Lamichhane Kohalpur DC



Dhirendra Bajgain Dailekh DC



Jayanand Bogati Pyuthan DC



Shyam Kumar Sharma Rolpa DC



Shankar Singh Thakuri Dolpa DC



Lal Bahadur Lamsal Heldung DC



Shiva Prasad Pandey Gamgad DC



Arjun Pokhrel Salyan DC DC



Shamvu Prasad Mandal Kalikot DC



Lok Bahadur Khadka Jajarkot DC



Trilochan Bhattarai Rukum (West) DC

Introduction

Nepaljung Regional Office (NRO) is one of the eight Regional Offices under the Distribution and Consumer Services Directorate (DCSD) and is responsible for overall management of electricity distribution services, operation and maintenance of electrical networks of Bheri, Karnali and Rapti Zone. Area of operation of this regional office covers Banke, Bardia, Dang, Salyan, Dailekh, Rolpa, Surkhet, Dolpa, Kalikot, Humla, Mugu, Rukum and Jajarkot districts. There are 16 (Sixteen) Distribution Centers (DCs) in this Regional Office. The major activities of this regional office include operation, maintenance and rehabilitation of the electricity distribution networks up to 33 kV voltage level and 33/11 kV substations as well as consumer services activities such as new consumer connections, meter reading, billing, and revenue collection.



Meeting with DCS Chiefs at Regional office

projects, planning & development and corporate work of the region.

Rural Electrification activities within the Region are coordinated by the technical division. The finance and revenue functions are carried out by the Joint Director of the region. The regional office is provided with a separate administrative officer to attend human resource function. The source of fund is Government

The comparative salient features of this regional office are as follows:



Operational Structure

There are 16 Distribution Centers within this Regional Office for effective administration. In addition to above, there is technical division represented by a Manager who looks after all the technical matters, of Nepal and NEA itself. There are 33 kV transmission line, substation project and a rural electrification project funded by Government of Nepal under this regional office.

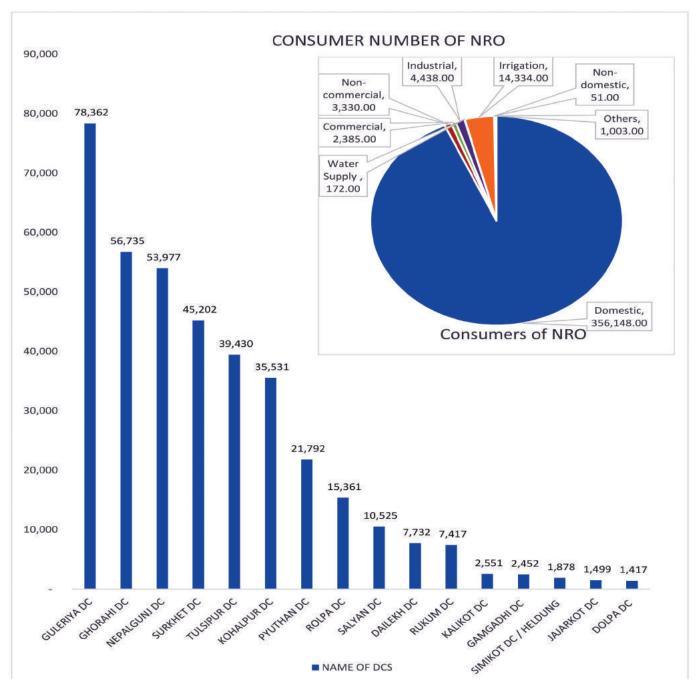
Key Objectives

- To provide electricity to consumers at remote parts of the region.
- To increase industrial electricity consumption by providing electricity to new industries in the region.
- To reduce electricity theft and distribution losses.
- Ensure rational development of the electricity distribution system within the Region.

Highlights of the Year

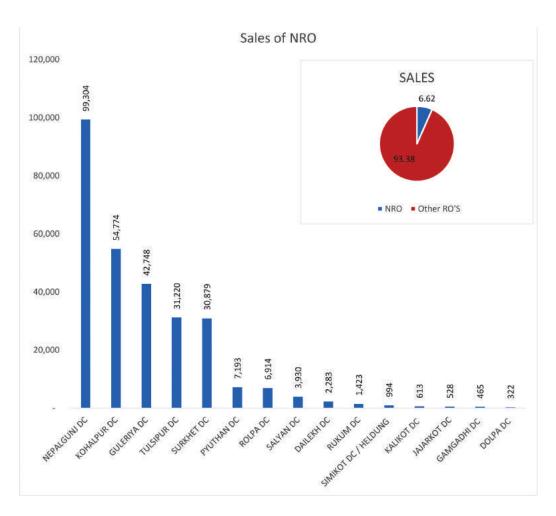
Consumer Number

NRO recorded 381,861 consumer accounts by the end of the fiscal year 2075/76. The majority of consumer accounts were in the domestic category (356,148) while the second most were from the irrigation category (14,334).



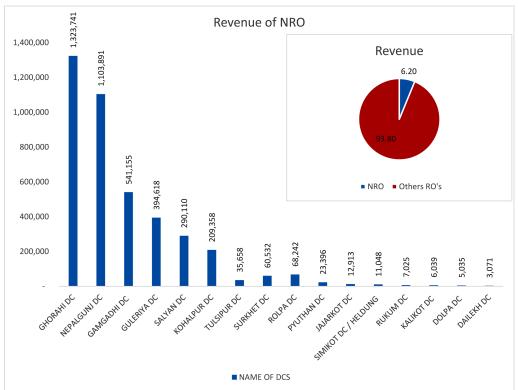
Sales

NRO reported 6.62% of electricity sales within DCS. In the fiscal year 2075/76, MWh of 417,313 electricity was sold in the region, a 19.48% increase over previous year. Ghorahi DC accounts for 32.04% of total sales in the region followed by Nepalgunj DC and Kohalpur DC.



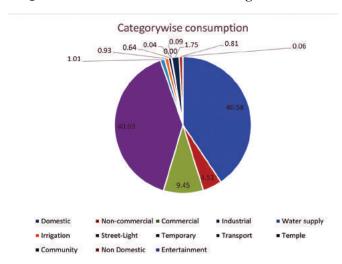
Revenue

The revenue from electricity sales during the year was Rs. 4,095.8 million which is 20.54% increase from last year. The reasons for increase of revenue are the growth of energy sales, recovery of old dues from consumers. NRO accounts for 6.20% of the total revenue of the DCS.



The majority of revenue in NRO recorded from domestic tariff category which is approximately

Ghorahi DCS accounts for 32.32%, Nepalgunj DCS accounts for 26.95%, Kohalpur DCS accounts for 13.21%, Guleriya DCS accounts for 9.63%, Surkhet DCS accounts for 7.08% and Tulsipur DCS accounts for 5.11% of the total revenue in the Region.



Distribution Infrastructure

33 kV Distribution Lines	927.92 km
11 kV Distribution Lines	3267.31 km
33/11 kV primary Substations	15
LV Distribution Lines	2494 km
LV Distribution transformers	3,204 Nos.
Distribution Transformers Total installed capacity	218 MVA

Performance Highlights

Consumer per Staff	695.56
LT 0.4/0.24 kV Line Length per Staff (km/staff)	4.54
Sales per Consumer per year (kWh/Consumer)	1092
Revenue per Consumer per year (Rs./Consumer)	10728
Consumer per Distribution Transformers	134

Customer Care

Special efforts were taken to improve the service at the customer interface points. The staff attached to 16 Distribution Centers took special efforts to serve our valued customers better during the year. Nepal Electricity Authority has made arrangements to submit electricity bill easily through the online



Free Meter distribution for under privileged consumers (Kohalpur DC)

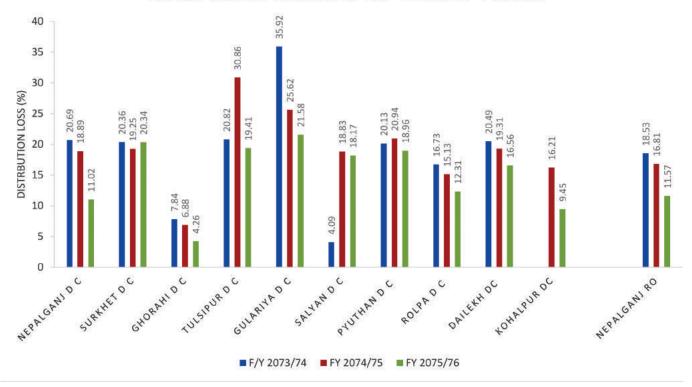
saving time of the consumer. Consumers can pay their bills via 8 service providers (eSewa, PayPoint, CFS Remit, City Express, Prabhu Bank, Nepal Investment Bank, Himalayan Bank and Mahalaxmi Bikash Bank). NEA has introduced one door system to facilitate the consumers and to provide the service as quickly as possible. This system saves the time of the consumer.

Round the clock no-light services have been implemented in most of the urban no-light centers. Help desk and quick service is maintained in no light and consumer services for instant service to the costumer.

Loss Reduction Program/Loss Reduction Activities

The distribution networks comprise of technical and non-technical losses, in which proportion of non-technical losses is quite high. During the year under review, various measures taken in the preceding years were continued to reduce the non-technical losses. Massive awareness campaigns as workshops and review meetings were implemented in various distribution centers. Strict measures for electricity theft control such as confiscation of electric equipments and taking legal action against culprits were also conducted in various distribution centers with the help of local administration and security agencies. NEA management made various decisions as 'Immediate Action Plans' to improve its functioning. .

LOSS COMPARISON OF THREE YEARS



This plan included regular inspection of Time-of-Day (TOD) meters, data download and analysis to curb any connection fault or manipulation.

Future Plans/Programs

As high system loss is a major challenge for NEA, NRO is trying to make every effort to bring down the distribution system loss. It is also planning to improve the quality of the services through the use of new technologies and capacity building to meet the challenges of new environment in utility business. Consumer complaints shall be addressed without delay and the procedure for new connection related works shall be made simple and user friendly.

To reduce Non-technical and Technical loss, these future plans shall be implemented with the joint efforts of NRO and DCS.

For Non-Technical losses:

- Identification of electricity theft prone areas in different Distribution Centers.
- Public Awareness Program.

- Mobilization of Police and Staffs to remove hooking.
- Changing of Defective meters i.e. burnt, damage, stopped meters.
- Re-sealing of meters.
- Additional billing of HT/LT Consumers after analyzing TOD meter data download report as per the NEA, Electricity Distribution rules 2069.
- Upgrading of electricity meters to meet standard accuracy must be conducted to support reduction of non technical losses through statistical analysis.

For Technical losses:

- Conversion of single-phase lines to three phase lines by the addition of two wires.
- Balancing of phase loads.
- Optimization of distribution system.
- Improve power factor and reducing the harmonic distortion by installing suitable size of Capacitor

Banks at substation as well as installation of LV Capacitors on LV lines.

- Demand management measures.
- Re-location of distribution transformers at load center.
- Upgradation of distribution transformers and substation power transformers.
- Changing of broken insulators like Disc insulator, pin Insulator and shackle insulator.

Safety Measures/ Safety day

Safety measures have become necessary as there are occurrences of electric accidents of employees, people



Safety day programs in Heldung DC

and domestic animals every year due to leakage of electricity and non-safety working habit. Initiative will be taken to raise the awareness of the working staff regarding safety hazards. Use of safety tools will be made mandatory for all the working staffs.

Challenges within Regional Office

The various Challenges faced by the regional office to provide reliable service to the consumers are as follows:

• The 33 kV line of Kohalpur-Surkhet passes

through Banke and Bardiya national park which makes it very difficult for maintenance. For the solution of this problem, Kohalpur-Surkhet 132 kV transmission line should be completed.

- The 33 kV distribution system around Ramghat area of Surkhet needs to be replaced by 11 kV feeder in order to increase reliability and decrease the operation and maintenance cost of the feeder.
- Due to the adverse topography in Jajarkot, it is very difficult to construct new lines. The 33 kV line length from Ramghat to Jajarkot is very long.
- In Rolpa and Pyuthan there is no centralized grid supply and the distribution is provided by Jhimruk Hydropower.Similarly, Humla, Dolpa, Jumla, Kalikot and Mugu are electrified by microhydros. Dullu-Kalikot 33 kV line and 6/8 MVA substation at kalikot should be constructed to connect these districts to national grid. Ongoing construction of Dullu-Kalikot 33 kV line is facing transportation issues due to a topography.
- Banke and Bardiya, is supplied from India which
 has weak infrastructure and long line length
 resulting in high system loss. Nepalgung region
 itself should be connected with 20MVA power
 from national gird to overcome such problems.
- Segregation of technical and non-technical losses,
 Social and political issues are other challenges within the region

Projects within the Regional Office

Shitalpati 33/11 kV, 6/8 MVA Substation Project

This project did its test operation on 2075/10/29 and was inaugurated by Honorable Minister of Energy, Water Resource and Irrigation Barsaman Pun on 2075/11/10. This substation is now serving 9000 consumers of Salyan district and 3000 consumers of Rukum district.



Inauguration of the Substation by Honorable Minister of Energy, Water Resource and Irrigation Barsaman Pun

Hapure-Tulsipur-Dudhraksha 33 kV Transmission Line and 33/11 kV, 6/8 MVA Tulsipur Substation Project

The length of Hapure-Tulsipur Double Circuit 33 kV Transmission line is 23 km and Tulsipur new substation to Dudhrakha (Sonapur cement) is 34 km. Both the lines were charged on 2076/02/03 and are



Conductor stringing of the Project

in operation. Approximately 22,000 consumers are benifitted from that project. 60% works of 33/11 kV 6/8 MVA Tulsipur substation has been completed until Asadh 2076.

Ghorahi-Holerai 33 kV Transmission Line and 33/11, 0.75 MVA Holeri Substation Project



Substation switchyard of the Project

The works of Holerai substation has come into operation since 2075/12/20.

Chinchu-Rakam-Jajarkot 33 kV Transmission Line, 11 kV Distribution Line and 33/11 kV 3 MVA Kudu Substation Project

The substation of the project is completed and is in operation since 2075/03/24. Consumers of Jajarkot district and Rukum district are benifitted from this substation. The construction of 11 kV distribution line is in progress.

Pyuthan 33 kV Transmission line, 11 kV Distribution line and 33 kV, 3 MVA Damti Substation Project

This project was completed on 2075/03/27.

Rajapur 33 kV Transmission line and 6/8 Substation

This project came into operation since 2076/02/08.

33/11 kV, 6/8 MVA Koilachaur Substation Project

This project has come into operation since 2076/02/14 and has solved the low voltage problem of west parts of Rolpa and east parts of Salyan.

Surkhet-Bijaura 33 kV Transmission line and Substation Project

All the works of the substation is completed and substation equipments testing was completed on 2076/02/26. IEE Report of 33 kV transmission line has been approved and the works of line route clearing is in progress.

Substation Status

S.N.	District	Substation Name/Location	Capacity (MVA)	Total Capacity (MVA)	Voltage level (kV)	Existing	Proposed	Planned	Underconstruction	Remarks
1.	Banke	Nepalgunj Old	6/8 + 6/8	16	33/11	√				
		Nepalgunj New	16 + 6/8	24	33/11	√				
		Dhampur	6/8	8	33/11	√				
2.	Bardiya	Gulariya	6/8 + 3+ 1.5	12.5	33/11	\checkmark				
		Rajapur	6/8	8	33/11	√				
		Mainapokhar	7.5	7.5	33/11	√				
3.	Surkhet	Budbude	6/8 + 3	11	33/11	√				
		Rakam	1.5	1.5	33/11	√				
		Matela	3	3	33/11	√				
		Ramghat	6/8	8	33/11	√				
		Babiyachaur	3	3	33/11	√				
4.	Dang	Tulsipur Old	6/8 + 8	16	33/11	√				
		Ghorahi	6/8 + 3	11	33/11	\checkmark				
		Tulsipur New	6/8	8	33/11				√	
		Bhaluwang	3	3	33/11			√		
5.	Salyan	Sitalpati	6/8	8	33/11	√				
		Tharmare	3	3	33/11			√		
		Kapurkot	6/8	8	33/11			√		
6.	Rolpa	Holeri	0.75	0.75	33/11	√				
		Koilachaur	6/8	8	33/11	√				
7.	Pyuthan	Damti	3	3	33/11	√				
		Rajwada	3	3	33/11			√		
		Khawang	3	3	33/11			√		
8.	Dailekh	Dailekh	3	3	33/11	√				
		Dullu	3	3	33/11	√				
9.	Jajarkot	Kudu	3	3	33/11	√				
		Chokhaba Bajar	3	3	33/11			√		
10.	Jumla	Khalanga	3	3	33/11			√		
11,	Mugu	Gamgad	3	3	33/11			√		
12,	Dolpa	Dolpa	3	3	33/11			√		
13.	Rukum Purba	Rukumkot	3	3	33/11			√		
	,	Total Existing		201.25		23				

33 kV Feeder Status

S.N.	Name of Distribution Center	Name of 33 kV Feeder	Length of Feeder(km)	Conductor Name/ Size (sq.inch)
		Kohalpur-Nepalgunj line 1	21.59	
1	Nepalgunj	Kohalpur-Nepalgunj line 2	21.59	
		Nainpara (India)-Nepalgunj	26.07	
2	Ghorahi	Lamahi-Ghorahi	23	
3	Guleriya	Kohalpur-Guleriya	49.67	
4	Tulsipur	Tulsipur	25	
		Kohalpur-Surkhet	54	
5	Surkhet	Surkhet-Jajarkot	29	
6	Pyuthan	Ghimruk-Pyuthan	151	
7	Salyan	Tulsipur-Sitalpati	46	
8	Dolna	Jhimruk-Rolpa	135	
0	Rolpa	Kapurkot-Rolpa	30	
9	Dailekh	Surkhet-Dailekh	44	
10	Jajarkot	Rakam-Kudu	34	

11 kV Feeder Status

S.N.	Name of Distribution Center	Name of 11 kV Feeder	Length of Feeder (km)	Conductor Name Size (sq.inch)
		Bageshwori	16.23	Dog/Rabbit/Weasel
		Fultekra	11.38	Dog/Rabbit/Weasel
		Rural	46.12	Dog/Rabbit/Weasel
		Khajura	85.70	Dog/Rabbit/Weasel
		Airport	23.93	Dog/Rabbit/Weasel
		Buspark	16.84	Dog/Rabbit/Weasel
1	Nepalgunj	Hawai	6.88	Dog/Rabbit/Weasel
		Sadarline	3.75	Dog/Rabbit/Weasel
		Citi	7.15	Dog/Rabbit/Weasel
		Border	13.45	Dog/Rabbit/Weasel
		Eastern	20.44	Dog/Rabbit/Weasel
		Paraspur	74.25	Dog/Rabbit/Weasel
		Industrial	1.76	Dog/Rabbit/Weasel
		Rampur	36.00	Dog/Rabbit/Weasel
		Hospital	0.00	Dog/Rabbit/Weasel
		Narayanpur	55.00	Dog/Rabbit/Weasel
		Bazaar	20.00	Dog/Rabbit/Weasel
		Hapur	52.00	Dog/Rabbit/Weasel
2	Ghorahi	Nawalpur	25.00	Dog/Rabbit/Weasel
		Holeri	16.00	Dog/Rabbit/Weasel
		Gadhwa	115.00	Dog/Rabbit/Weasel
		Lamahi	45.00	Dog/Rabbit/Weasel
		Rihar	85.00	Dog/Rabbit/Weasel
		Bhaluwang	55.00	Dog/Rabbit/Weasel

		Krishnasar	20.00	Dog/Rabbit/Weasel
		Citi	45.00	Dog/Rabbit/Weasel
		Magaragadi	60.00	Dog/Rabbit/Weasel
		Nikunja	32.00	Dog/Rabbit/Weasel
		Mainapokhar 1	30.00	Dog/Rabbit/Weasel
		Badhaiya	5.00	Dog/Rabbit/Weasel
3	Guleriya	Basgadhi	78.00	Dog/Rabbit/Weasel
		Mainapokhar 2	50.00	Dog/Rabbit/Weasel
		Jamuni	45.00	Dog/Rabbit/Weasel
		Bhurigaon	45.00	Dog/Rabbit/Weasel
		Thakurdwara	40.00	Dog/Rabbit/Weasel
		Rajapur		Dog/Rabbit/Weasel
		Bulbule	102.00	Dog/Rabbit/Weasel
		Pipira	45.00	Dog/Rabbit/Weasel
4	Surkhet	Bazaar	24.00	Dog/Rabbit/Weasel
4	Surkiet		19.00	Or r
		Ramghat substation	0.00	Dog/Rabbit/Weasel
		Rakam substation	0.00	Dog/Rabbit/Weasel
_	Colorer	Sitalpati substation, Khalanga	40.00	Dog/Rabbit/Weasel
5	Salyan	Sitalpati substation, Srinagar	165.00	Dog/Rabbit/Weasel
		Tulsipur substation	45.00	Dog/Rabbit/Weasel
6	Rolpa	Ghorahi-Holeri	60.00	Dog/Rabbit/Weasel
		Budhagaon	10.00	Dog/Rabbit/Weasel
7	Dailekh	Bazaar	11.00	Dog/Rabbit/Weasel
		Chupra	56.00	Dog/Rabbit/Weasel
		Kohalpur	70.00	Dog/Rabbit/Weasel
		Chisapani	45.00	Dog/Rabbit/Weasel
		Raajha	36.00	Dog/Rabbit/Weasel
8	Kohalpur	Industrial	14.00	Dog/Rabbit/Weasel
		Samshergunj	67.00	Dog/Rabbit/Weasel
		Sikta	13.00	Dog/Rabbit/Weasel
		Kusum	14.00	Dog/Rabbit/Weasel
9	Dolpa	Dunai-Jufal	46.86	Dog/Rabbit/Weasel
		Manma	61.00	Dog/Rabbit/Weasel
10	Kalikot	Raskot	27.00	Dog/Rabbit/Weasel
		Mumra		Dog/Rabbit/Weasel
11	Gamgadh	Talcha-Gamgadhi	12.50	Dog/Rabbit/Weasel
12	Heldung	Bargaon Thehe Dojaam	28.00	Dog/Rabbit/Weasel
12	Heldulig	Simikot Dadafaya Kharpunath	16.00	Dog/Rabbit/Weasel
10	Rukum	Musikot	30.00	Dog/Rabbit/Weasel
13	Kukuiii	Chaurjahari	145.00	Dog/Rabbit/Weasel
1.4	Jajarkot	Khalanga	28.00	Dog/Rabbit/Weasel
14	Jajarkot	Kudu	26.66	Dog/Rabbit/Weasel

Electrification Status

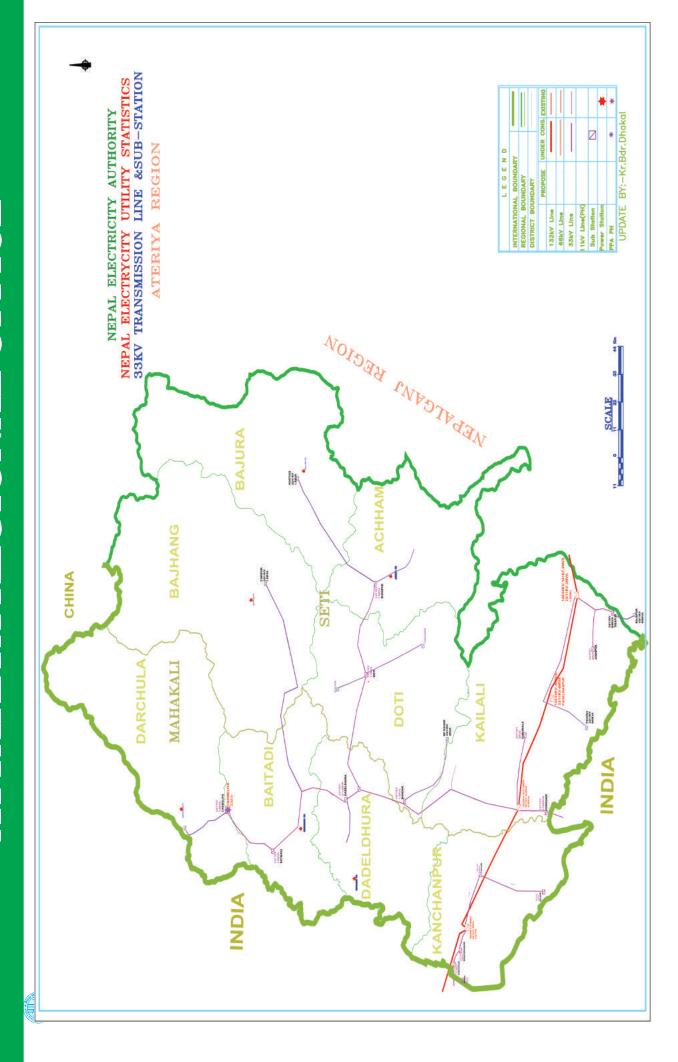
S. N.	District	Municipalities / Rural Municipalities	Total Electrification % of municipalities (Grid Connected)	Populations	No of Households	Total 11 kV (HT) Circuit Kilometer (KM) required to fully electrified the Municipalities or rural municipalities	Total 0.4 kV (LT) Circuit Kilometer (KM) required to fully electrified the Municipalities or rural municipalities	No. of Transformer Required
		1.Musikot Municipality	59.51	35792	7940	35	200	18
		2.Chaurjahari Municipality	31.16	29814	5891	63	342	27
		3.Aathabiskot Municipality	22.46	36512	6976	80	200	18
1	Rukum West	4.Sani Bheri	30.58	24116	4488	50	180	16
		5.Triveni	21.27	21085	3919	48	230	15
		6.Banphikot	69.95	20316	4070	32	105	8
		Total District: Rukum West	39.60	167635	33284	308	1257	102
		1.Sharada Municipality	63.15	37474	8211	20	40	10
		2.Bagchaur Municipality	19.64	37904	6560	55	80	18
		3.Bangad Kupinde Municipality	13.62	40054	7514	80	120	18
		4.Kalimati	0.66	25558	4825	90	120	16
	G-1	5.Triveni	32.39	18469	3830	35	60	12
2	Salyan	6.Kapurkot	29.12	20224	4062	45	100	15
		7.Chhatreshwori	45.00	23833	4897	40	80	13
		8.Dhorchaur	18.00	15103	2672	45	75	14
		9.Kumakha Malika	1.82	27743	5272	75	120	22
		10.Darma	2.00	22183	3844	55	75	16
		Total District: Salyan	24.31	268545	51687	540	870	154
		1.Birendra Nagar Municipality	78.97	117739	27788	20	100	30
		2.Bheri Ganga Municipality	47.16	48530	10342	30	150	25
		3.Gurbhakot Municipality	60.31	51293	11218	35	120	20
		4.Panchapuri Municipality	0.00	37775	7389	50	120	30
3	Surkhet	5.Lek Besi Municipality	62.87	35507	7437	30	50	15
		6.Chaukune	0.00	29580	5401	30	70	20
		7.Baraha Tal	2.63	31412	6385	20	80	20
		8.Chingad	0.00	20247	3426	55	130	25
		9.Simta	8.88	30292	5970	50	80	10
		Total District : Surkhet	45.64	402375	85356	320	900	195

		1.Narayan Municipality	58.84	30361	6503	30	40	8
		2.Dullu Municipality	29.32	46649	9168	40	50	12
		3.Chamunda Bindrasaini	29.32	40049	9100	40	50	12
		Municipality	2.73	29364	5204	60	70	18
		4.Aathabis Municipality	0.00	32821	5911	70	70	16
		5.Bhagawati Mai	3.01	21087	3772	60	60	14
4	Dailekh	6.Gurans	31.81	24742	4601	50	50	12
	4 Dailekh	7.Dungeshwor	53.51	17836	3419	30	35	8
		8.Naumule	6.71	23360	4164	70	60	16
		9.Mahabu	20.52	21648	3990	55	50	10
		10.Bairavi	15.31	23844	4464	60	60	12
		11.Thantikandh	0.00	21218	3737	70	70	14
		Total District : Dailekh	21.36	292930	54933	595	615	140
		1.Bheri Municipality	39.54	38287	7530	69	174	7
		2.Chhedagad Municipality	0.00	40321	7017	104	207	21
		3.Triveni Nalgad						
		Municipality	0.00	29233	5393	70	205	21
5	Jajarkot	4.Kuse	0.00	23557	4101	108	122	19
		5.Junichande	0.00	24827	4311	109	212	13
		6.Barekot	0.00	20658	3532	82	216	12
		7.Shivalaya	2.69	17444	2920	61		
		Total District : Jajarkot	8.78	194327	34804	603	1136	93
			/-	7 10 /	011		0 -	
		1.Thuli Bheri Municipality	40.00	9527	2165	12	30	4
		1.Thuli Bheri Municipality 2.Tripura Sundari	40.00	9527	2165	12	30	4
		1.Thuli Bheri Municipality 2.Tripura Sundari Municipality	40.00	9527 11499	2165 2212	12 25	30	5
		1.Thuli Bheri Municipality 2.Tripura Sundari Municipality 3.Dolpo Buddha	40.00 40.00 0.00	9527 11499 2419	2165 2212 533	12 25 45	30 20 40	5 8
6	Dolpa	1.Thuli Bheri Municipality 2.Tripura Sundari Municipality 3.Dolpo Buddha 4.She-Phoksundo	40.00 40.00 0.00 0.00	9527 11499 2419 3526	2165 2212 533 831	12 25 45 50	30 20 40 40	5 8 9
6	Dolpa	1.Thuli Bheri Municipality 2.Tripura Sundari Municipality 3.Dolpo Buddha 4.She-Phoksundo 5.Jagadulla	40.00 40.00 0.00 0.00	9527 11499 2419 3526 2588	2165 2212 533 831 493	12 25 45 50 45	30 20 40 40 35	5 8 9
6	Dolpa	1.Thuli Bheri Municipality 2.Tripura Sundari Municipality 3.Dolpo Buddha 4.She-Phoksundo 5.Jagadulla 6.Mudke Chula gaun	40.00 40.00 0.00 0.00 0.00	9527 11499 2419 3526 2588 5836	2165 2212 533 831 493 1054	12 25 45 50 45 40	30 20 40 40 35 40	5 8 9
6	Dolpa	1.Thuli Bheri Municipality 2.Tripura Sundari Municipality 3.Dolpo Buddha 4.She-Phoksundo 5.Jagadulla 6.Mudke Chula gaun 7.Kaieke	40.00 40.00 0.00 0.00 0.00 0.00	9527 11499 2419 3526 2588 5836 4070	2165 2212 533 831 493 1054 889	12 25 45 50 45 40 40	30 20 40 40 35 40 30	5 8 9 9
6	Dolpa	1.Thuli Bheri Municipality 2.Tripura Sundari Municipality 3.Dolpo Buddha 4.She-Phoksundo 5.Jagadulla 6.Mudke Chula gaun 7.Kaieke 8.Chharka Tongsong	40.00 40.00 0.00 0.00 0.00 0.00 0.00	9527 11499 2419 3526 2588 5836 4070 1651	2165 2212 533 831 493 1054 889 320	12 25 45 50 45 40 40	30 20 40 40 35 40 30 35	4 5 8 9 9 10
6	Dolpa	1.Thuli Bheri Municipality 2.Tripura Sundari Municipality 3.Dolpo Buddha 4.She-Phoksundo 5.Jagadulla 6.Mudke Chula gaun 7.Kaieke	40.00 40.00 0.00 0.00 0.00 0.00	9527 11499 2419 3526 2588 5836 4070	2165 2212 533 831 493 1054 889	12 25 45 50 45 40 40	30 20 40 40 35 40 30	5 8 9 9
6	Dolpa	1.Thuli Bheri Municipality 2.Tripura Sundari Municipality 3.Dolpo Buddha 4.She-Phoksundo 5.Jagadulla 6.Mudke Chula gaun 7.Kaieke 8.Chharka Tongsong Total District: Dolpa	40.00 40.00 0.00 0.00 0.00 0.00 0.00	9527 11499 2419 3526 2588 5836 4070 1651	2165 2212 533 831 493 1054 889 320	12 25 45 50 45 40 40	30 20 40 40 35 40 30 35	4 5 8 9 9 10
6	Dolpa	1.Thuli Bheri Municipality 2.Tripura Sundari Municipality 3.Dolpo Buddha 4.She-Phoksundo 5.Jagadulla 6.Mudke Chula gaun 7.Kaieke 8.Chharka Tongsong Total District: Dolpa 1.Chandannath	40.00 40.00 0.00 0.00 0.00 0.00 0.00 20.60	9527 11499 2419 3526 2588 5836 4070 1651 41116	2165 2212 533 831 493 1054 889 320 8497	25 45 50 45 40 40 40 29 7	30 20 40 40 35 40 30 35 270	4 5 8 9 9 10 8 53
6	Dolpa	1.Thuli Bheri Municipality 2.Tripura Sundari Municipality 3.Dolpo Buddha 4.She-Phoksundo 5.Jagadulla 6.Mudke Chula gaun 7.Kaieke 8.Chharka Tongsong Total District: Dolpa 1.Chandannath Municipality	40.00 40.00 0.00 0.00 0.00 0.00 0.00 20.60	9527 11499 2419 3526 2588 5836 4070 1651 41116	2165 2212 533 831 493 1054 889 320 8497	12 25 45 50 45 40 40 40 297	30 20 40 40 35 40 30 35 270	4 5 8 9 9 10 8 53
		1.Thuli Bheri Municipality 2.Tripura Sundari Municipality 3.Dolpo Buddha 4.She-Phoksundo 5.Jagadulla 6.Mudke Chula gaun 7.Kaieke 8.Chharka Tongsong Total District: Dolpa 1.Chandannath Municipality 2.Kanaka Sundari	40.00 40.00 0.00 0.00 0.00 0.00 0.00 20.60	9527 11499 2419 3526 2588 5836 4070 1651 41116 21599 14988	2165 2212 533 831 493 1054 889 320 8497 4532 2548	12 25 45 50 45 40 40 40 297 10 30	30 20 40 40 35 40 30 35 270	4 5 8 9 9 10 8 53
7	Dolpa	1.Thuli Bheri Municipality 2.Tripura Sundari Municipality 3.Dolpo Buddha 4.She-Phoksundo 5.Jagadulla 6.Mudke Chula gaun 7.Kaieke 8.Chharka Tongsong Total District: Dolpa 1.Chandannath Municipality 2.Kanaka Sundari 3.Sinja	40.00 40.00 0.00 0.00 0.00 0.00 0.00 20.60 20.00 6.76	9527 11499 2419 3526 2588 5836 4070 1651 41116 21599 14988 13599	2165 2212 533 831 493 1054 889 320 8497 4532 2548 2265	12 25 45 50 45 40 40 40 297 10 30 40	30 20 40 40 35 40 30 35 270 30 40 35	4 5 8 9 9 10 8 53 5 8
		1.Thuli Bheri Municipality 2.Tripura Sundari Municipality 3.Dolpo Buddha 4.She-Phoksundo 5.Jagadulla 6.Mudke Chula gaun 7.Kaieke 8.Chharka Tongsong Total District: Dolpa 1.Chandannath Municipality 2.Kanaka Sundari 3.Sinja 4.Hima	40.00 40.00 0.00 0.00 0.00 0.00 20.60 20.00 6.76 0.82	9527 11499 2419 3526 2588 5836 4070 1651 41116 21599 14988 13599 11967	2165 2212 533 831 493 1054 889 320 8497 4532 2548 2265 1942	12 25 45 50 45 40 40 40 297 10 30 40 45	30 20 40 40 35 40 30 35 270 30 40 35 40	4 5 8 9 9 10 8 53 5 8 10 11
		1.Thuli Bheri Municipality 2.Tripura Sundari Municipality 3.Dolpo Buddha 4.She-Phoksundo 5.Jagadulla 6.Mudke Chula gaun 7.Kaieke 8.Chharka Tongsong Total District : Dolpa 1.Chandannath Municipality 2.Kanaka Sundari 3.Sinja 4.Hima 5.Tila	40.00 40.00 0.00 0.00 0.00 0.00 20.60 20.00 6.76 0.82 2.38	9527 11499 2419 3526 2588 5836 4070 1651 41116 21599 14988 13599 11967 15429	2165 2212 533 831 493 1054 889 320 8497 4532 2548 2265 1942 2550	12 25 45 50 45 40 40 40 297 10 30 40 45 30	30 20 40 40 35 40 30 35 270 30 40 35 40 35	4 5 8 9 9 10 8 53 5 8 10
		1.Thuli Bheri Municipality 2.Tripura Sundari Municipality 3.Dolpo Buddha 4.She-Phoksundo 5.Jagadulla 6.Mudke Chula gaun 7.Kaieke 8.Chharka Tongsong Total District: Dolpa 1.Chandannath Municipality 2.Kanaka Sundari 3.Sinja 4.Hima 5.Tila 6.Guthichaur	40.00 40.00 0.00 0.00 0.00 0.00 20.60 20.00 0.00 6.76 0.82 2.38 3.11	9527 11499 2419 3526 2588 5836 4070 1651 41116 21599 14988 13599 11967 15429 11192	2165 2212 533 831 493 1054 889 320 8497 4532 2548 2265 1942 2550 2096	12 25 45 50 45 40 40 40 297 10 30 40 45 30 45	30 20 40 40 35 40 30 35 270 30 40 35 40 35 40 35 40 35 40	5 8 9 9 10 8 53 5 8 10 11 9

		t Vhandashalma Munisinality	10.01	0.40.50	4000	4=	10	10
		1.Khandachakra Municipality 2.Raskot Municipality	19.21	24352	4333	15 8	18	10
		3. Tila Gupha Municipality	64.00 0.00	19532 18925	3223 3230	30	10 40	3 12
	8 Kalikot	4.Pachal Jharana	0.00	14816	2403	20	34	5
		5.Sanni Triveni	56.00	15418	2525	5	10	3
8		6.Narhari Nath	0.00	25645	4304	20	38	10
		7.Kalika	0.00	16900	2949	30	40	10
		8.Mahawai	0.00	9989	1736	30	40	4
		9.Palata	0.00	18368	2906	25	30	4
		Total District : Kalikot	15.61	163945	27609	183	260	61
		1.Chhaya Nath Rara						
		Municipality	49.44	22922	4156	10	15	4
9	Mugu	2.Mugum akarmarong	0.00	6159	1175	35	36	4
		3.Soru	0.00	13967	2408	38	42	5
		4.Khatyad	0.00	19536	3221	39	50	6
		Total District : Mugu	18.75	62584	10960	122	143	19
		1.Simkot	86.65	13176	2927	35	30	15
		2.Namkha	0.00	4446	380	90	60	20
		3.Kharpu Nath	23.20	6854	1291	30	20	15
10	Humla	4.Sarkegad	0.00	11250	2046	100	40	20
10	Tuma	5.Chankheli	0.00	6290	1099	60	30	25
		6.Adanchuli	0.00	8113	1279	75	25	15
		7.Tanjakot	0.00	6801	1169	70	50	20
		Total District : Humla	27.83	56930	10191	460	255	130
		1.Pyuthan Municipality	99.00	40607	9467	2	10	1
		2.Swargadwari						
		Municipality	90.01	32676	7359	1	8	5
		3.Gaumukhi	39.15	26848	5053	12	56	6
		4.Mandavi	100.00	15903	3240			
7	Pyuthan	5.Sarumarani	96.56	19671	3680			
/	1 yatılalı	6.Mallarani	94.99	18678	4351	2	15	1
		7.Nau Bahini	56.87	31992	6136	19	95	8
		8.Jhimaruk	100.00	29500	6198		90	
		9.Eairabati	100.00	23648	-			
		Total District : Pyuthan			4912	26	40.4	0.4
		•	86.32	239523	50396	36	184	21
		1.Rolpa Municipality	59.01	34502	7515	25	50	6
		2.Triveni	58.42	24179	4782	12	60	4
		3.Dui Kholi	0.00	21884	4233	72	140	24
		4.Madi	21.46	18943	3852	30	90	6
		5.Runti Gadhi	32.07	26371	5339	12	48	10
8	Rolpa	6.Lungri	60.71	24889	4637	12	40	3
		7.Sukidaha	0.00	21074	3638	20	60	10
		8.Sunchhahari	14.42	16888	3177	25	80	12
		9.Subarnawati	81.45	29714	5957	9	40	3
		10.Thawang	0.00	11460	2287	25	70	10
		Total District : Rolpa	39.40	229904	45417	242	678	88
		_ star 2 istrict i itorpu	J7.40		TJT ⁴/		0/3	

		1.Bhume	0.00	20200	4167	78	31	15
9	_ ,	2.Putha Uttar Ganga	0.00	19487	4196	96	33	25
	9 Rukum East	3.Sisne	33.57	17927	3811	51	12	10
		Total District : Rukum East	10.51	57614	12174	225	76	50
		1.Tulsipur Sub- Metropolitan	82.40	163599	36114	120	800	25
		2.Ghorahi Sub- Metropolitan	84.27	180517	40942	108	201	59
		3.Lamahi Municipality	95.00	55088	10904	15	26	12
		4.Banglachuli	49.26	28027	5469	119	212	31
10	Dang	5.Dangi Sharan	84.53	24834	5151	80	320	17
	8	6.Gadhawa	71.71	44610	8401	48	40	20
		7.Rajpur	70.06	28942	5170	30	36	18
		8.Rapti	75.66	47123	9312	35	30	17
		9.Shanti Nagar	70.29	29134	6159	150	650	14
		10.Babai	68.73	31753	6872	250	1200	17
		Total District : Dang	79.86	633627	134494	955	3515	230
	Bardiya	1.Gulariya Municipality	97.92	74158	14529	5	15	2
		2.Maduvan Municipality	94.73	51646	10642	8	20	2
		3.Rajapur Taratal Municipality	90.00	66233	12139	10	20	4
11		4.Thakura Baba Municipality	95.00	49286	9624	10	20	3
		5.Bansgadhi Municipality	88.94	62142	12467	25	25	5
		6.Bar Bardiya Municipality	99.59	69002	13615	5	15	3
		7.Badhaiya Tal	95.00	48169	11493	5	15	3
		8.Geruwa	92.00	38782	6823	5	20	3
		Total District : Bardai	94.40	459418	91332	73	150	25
		1.Nepalgunj Sub- Metropolitan	90.00	168278	33777	55	200	60
		2.Kohalpur Municipality	79.22	85558	18752	50	300	40
		3.Narainapur	0.00	42318	7154	60	500	54
	D 1	4.Raptisonari	87.16	72597	13009	15	60	10
12	Banke	5.Baijanath	83.26	65903	13401	40	400	50
		6.Khajura	70.00	61717	12460	80	150	30
		7.Duduwa	70.00	45366	7980	100	125	35
		8.Janaki	80.00	45824	8143	80	125	35
		Total District : Banke	77.24	587561	114676	480	1860	314

ATTARIYA REGIONAL OFFICE



ATTARIYA REGIONAL AND DISTRIBUTION CENTRE CHIEFS



Satish Kumar Karn Attaria Regional Office Chief



Jung Bahadur Chand Mahendranagar DC



Dhirendra Kumar Yadav Dhangadhi DC



Himansu Kumar Yadav Tikapur DC



Sunil Kumar Shah Belauri DC



Buddinath Jha Doti DC



Mohan Dev Joshi Baitadi DC



Dayaram Shah Darchula DC



Bijaya Raj Regmi Achham DC



Pratish Dhakal Bhajani DC



Ishwor Kumar Shrestha Dadeldhura DC



Anjani Kumar Yadav Bajura DC



Rakesh Prasad Bhatta Bajhang DC

Introduction

The Attariya Regional office (ARO) responsibilities lies within the Far Westren Region, Seti and Mahakali Zone, Nine Districts. There are 11 (Eleven) distribution centers in seven districts (two in Kailali district). Area of operation of this regional office covers Kailali, Kanchanpur, Dadeldhura, Doti, Achham, Baitadi, Darchula and Bajhang districts .There are 7 Small hydro power plants in this region, namely Dumri S.H.P-300 K.W.(Darchula DC), Surnaygad S.H.P -200 K.W.(Baitadi DC), Kailah Khola S.H.P -400 K.W.(Achham DC), Rupalgad S.H.P -100 K.W.(Dadeldhura DC), Samohagad S.H.P -200 K.W.(Doti DC), Surmadevi S.H.P-200 K.W.(Bajhang) and Bajura S.H.P-200 K.W. (Bajura). Among them Surmadevi and Bajura S.H.P is running in lease while others are under the respective distribution Center. Surnayagad S.H.P is the only one connected to the grid of NEA.

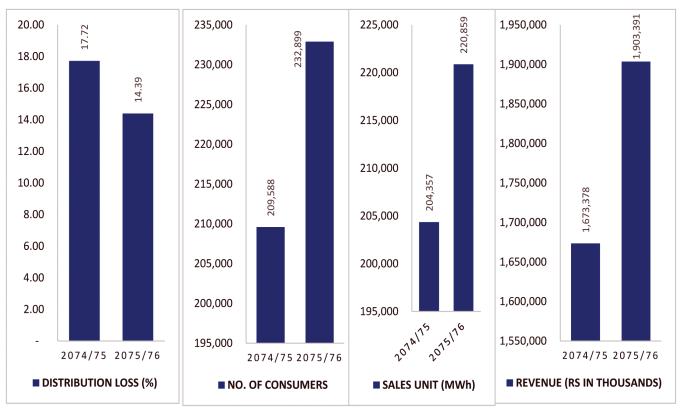
Operational Structure

There are 11 Distribution Centers within this Regional Office for effective administration. During the year under consideration three new Distribution Center namely Belauri, Bhajang and Bajhani was established for the convenience of the consumers. The source of fund is Government of Nepal and NEA itself. There are nine 33 kV transmission line, substation project and a rural electrification project funded by Government of Nepal under this regional office

Key Objectives

- To monitor the loss reduction activities.
- To achieve and reduce the loss target set.
- To monitor the progress of rural electrification work of all the distribution centre.
- Connecting the non-grid connected districts to the national grid by construction of 33 kV subtransmission line and 33/11 kV substations.
- To provide reliable and quality electricity supply to the consumer.

The comparative salient features of this regional office are as follows:

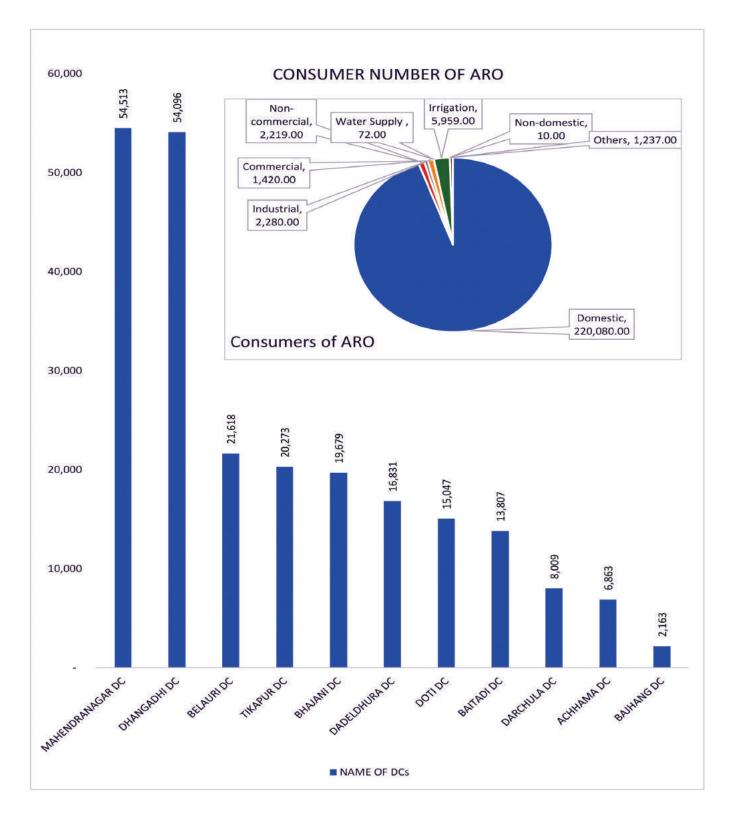


Highlights of the Year

Consumer Number

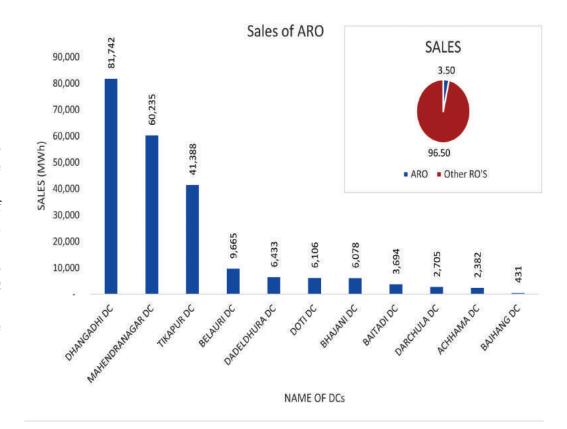
ARO recorded 232,899 consumer accounts by the end

of the fiscal year 2075/76. The majority of consumer accounts were in the domestic category (220,080) while the second most were from the irrigation category (5,959).



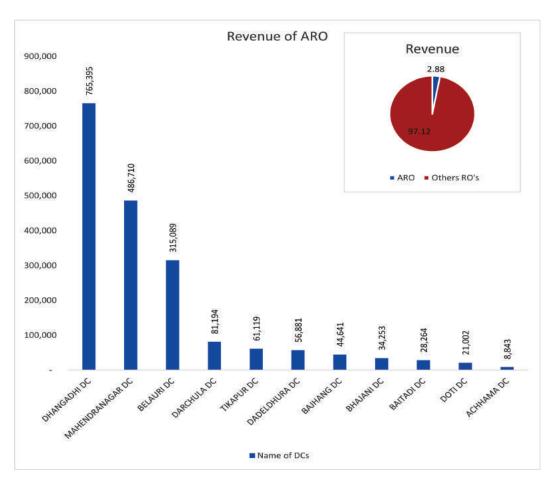
Sales

ARO reported 3.50% of electricity sales within DC'S. In the fiscal year 2075/76, 220,859 MWh of electricity was sold in the region, an 8.08% increase over previous year. Dhangadhi DC accounts for 40.21% of total sales in the region.

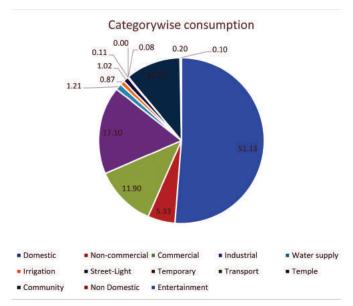


Revenue

The revenue from electricity sales during the year was Rs. 1,903.4 million which is 14.74% increase from last year. The reasons for increase of revenue are the growth of energy sales, recovery of old dues from consumers. ARO accounts for 2.88% of the total revenue of the DCs.



The majority of revenue in ARO recorded from domestic tariff category which is approximately 51.13% of the total revenue of the region. The higher sales was due to higher consumption of domestic consumers within the territory of ARO.



Dhangadhi DC accounts for 40.21%, Mahendranagar DC accounts for 25.57%, Tikapur DC accounts for 16.55%, Belauri DC accounts for 4.27%, Dadeldhura DC accounts for 3.21% and Doti DC accounts for 2.99% of the total revenue in the Region.

Distribution Infrastructure

33 kV Distribution Lines	588.23 km
11 kV Distribution Lines	3865.68 km
33/11 kV primary Substations	19
LV Distribution Lines	12,653.37 km
LV Distribution transformers	2,494 Nos.
Distribution Transformers Total installed capacity	158.43 MVA

Performance Highlights

Consumer per Staff	557.17
LT 0.4/0.24 kV Line Length per Staff (km/staff)	30.27
Sales per Consumer per year (kWh/Consumer)	948
Revenue per Consumer per year (Rs./Consumer)	8,172
Consumer per Distribution Transformers	93

Customer Care

Special efforts were taken to improve the service at the customer interface points. The staff attached to 11 Distribution Centers took special efforts to serve our valued customers better during the year. Nepal Electricity Authority has made arrangements to submit electricity bill easily through the online systems. This system has given the service of paying the bill online and also updates about the bill payment for the consumers and the obligation for consumers to come to counters for bill payment has ended, thus saving time of the consumer. Consumers can pay their bills via 8 service providers (eSewa, PayPoint, CFS Remit, City Express, Prabhu Bank, Nepal Investment Bank, Himalayan Bank and Mahalaxmi Bikash Bank). NEA has introduced one door system to facilitate the consumers and to provide the service as quickly as possible. This system saves the time of the consumer. Round the clock no-light services have been implemented in most of the urban nolight centers. NEA regular works for addition of new transformers, shifting of distribution transformer at load centers, addition of two wires and upgradation of Substation have key roles in voltage improvement providing quality supply.



Free meter distribution to unprivileged consumers (Doti DC)

Loss Reduction Program/ Loss Reduction Activities

The distribution networks comprise of technical and non-technical losses, in which proportion of non-technical losses is quite high. During the year under review, various measures taken in the preceding years were continued to reduce the non-technical losses. Massive awareness campaigns as workshops and review meetings were implemented



in various distribution centers. Strict measures for electricity theft control such as confiscation of electric equipments and taking legal action against culprits were also conducted in various distribution centers with the help of local administration and security agencies. NEA management made various decisions as 'Immediate Action Plans' to improve its functioning. This plan included regular inspection of Time-of-Day (TOD) meters, data download and analysis to curb any connection fault or manipulation.

Future Plans/Programs

Electrification

The electrification work under Nepal government & NEA budget shall be carried out at all the non-electrified VDCS/Muncipality of this region. Especially, the remote areas of Dadeldhura, Baitadi, Achham, Doti, Bajura, Bajhang and Darchula will be taken care with more responsibility. The work schedule of electrification work shall be monitored strictly in order to complete the work in time.

Up gradation/Rehabilitation

The 33/11 kV substation and transmission/distribution line which are functioning under overload condition will be identified and the budget allocation for the upgradation of these infrastructures shall be requested to the respective division.

Construction of 33/11kV substation and 33 KV Transmission line

The Nepal government budget given to the distribution and consumer services directorate for construction of 33 kV transmission line and substation will floored in this fiscal year and the one which are under construction shall be monitored strictly so as the work is completed in the given time period. The main goal of this projects will be to connect the districts like Bajhang, Bajura and Headquarter of Darchula with national grid supply.

Loss reduction Activities:

The activites under loss reduction like meter resealing,

changing the Faulty meter, transformer/distribution line upgradation, and energy theft control e.t.c will be carried out with more efficiency and dedication.

Safety Measures/ Safety day

Safety measures have become necessary as there are occurrences of electric accidents of employees, people and domestic animals every year due to leakage of electricity and non-safety working habit. Initiative will be taken to raise the awareness of the working staff regarding safety hazards. Use of safety tools will be made mandatory for all the working staffs.

Challenges within Regional Office

The various Challenges faced by the Regional office to provide reliable service to the consumers are as follows:

- Remote rural areas of Dadeldhura, Baitadi, Achham, Doti, Bajura, Bajhang and Darchula districts are yet to be electrified .To connect those areas to National Grid construction of 33 kV lines, 33/11 kV Substations and distribution lines is a major challenge.
- Due to the adverse topography of the DCs in hilly regions within the regional office, it is very difficult to provide quick service to the consumers.
- Technical challenge within the region is distribution system reliability which needs to be sorted out by system upgradation like conductor upgrading, feeder separation, substation rehabilitation, undergrounding of conductor in city areas, etc.
- Segregation of technical and non-Technical losses within the region and action to reduce technical loss is necessary.
- Social and political challenges are also vibrant within the region.

Projects within the Regional Office

Budar-Jogbuda, Bagarkot (Dadeldhura) 33 kV Transmission Line and Substation Project

The scope of this project includes construction of 33/11

kV substation at Bagarkot of Dadeldhura District, 33 kV lines, 11 kV lines & 0.4 kV lines. This project is funded by Government of Nepal and the overall budget of this project is Rs. 271,000,000. This project is expected to complete in this fiscal year.

Khodpe (Baitadi)-Chainpur (Bajhang) 33 kV Transmission line and Substation Project

The scope of this project includes construction of 33/11 kV substation at Bagthala & Bhainpur of Bajhang District, 33 kV lines From Baitadi Khodpe to Bajhang,



DO fuse fitting at khodpe chaipur line 33 kV line

11kV lines & 0.4 kV lines. This project is also funded by Government of Nepal and 77.25% of the project has been completed so far.

Sangebagar-Chamara-Chautara 33 kV Transmission Line and Substation Project

The scope of this project includes construction of 33/11 kV substation at Tikhattar (Doti), 33 kV lines From Rajpur to Tikhattar, 11kV lines & 0.4 kV lines.

Balanch (Gokuleshwor)-Khalnga (Darchula) 33 kV Transmission Line and Substation Project

The scope of this project includes construction of 33/11 kV Sub-station at Thaligad of Darchula, 33 kV lines from Gokule to Thaligad, 11 kV lines & 0.4 kV lines. This project is expected to complete in this fiscal year and 86.91% of the works has been completed so far.



Under construction Thaligad Substation at Darchula

Sanfe-Manma-Jumla 33 kV Transmission Line & Substation Project

The scope of this project includes construction of 33/11 kV substation at Achham (Kamalbazar), Kalikot & Manma (Jumla), 33 kV lines and 11kV lines & 0.4 kV lines. Only 39.65% of this project has been completed till date due to various issues.

Mahendranagar Distribution System Rehabilitation Project

The scope of this project includes construction of 11 kV Industrial Feeder, upgrading of conductors and transformers, 11 kV lines and route change work of 400/230 V in Mahendranagar area. Only 42.84% of this project has been completed till date and the project is expected to be completed in 2 years.

Dhangadhi-Attariya Distribution System Rehabilitation Project

The scope of this project includes the construction of 11 kV Industrial Feeder, upgrading of conductors and transformers, 11 kV lines and route change work of 400/230 V in Dhangadhi and Attariya. So far 51.14% of the project has been completed.

Attariya-Punarbas 33 kV Transmission Line and Substation Project

The scope of this project includes construction of 33/11 kV substation at Punarbas of Kanchanpur District, 33 kV transmission line,11 kV lines and 400/230 V lines.

Substation Status

			Total						
stribution Center	Name of Substation	Capacity (MVA)	Capacity (MVA)	Voltage level(kV)	Existing	Proposed	Planned	Underconstruction	Remarks
	Dhangadi	2*8/12	24	33/11 kV	\checkmark			20/24 MVA	Upgrading
	Chaumala	2*1.5	3	33/11 kV	√			8 MVA	Upgrading
	Hasuliya	8	8	33/11 kV	\checkmark				
	Attariya Substation (@								
	Premises at attariya Grid)	16.6	16.6	33/11 kV	\checkmark				
Dhangadi	Pahalmanpur Substation(@ Premises at Pahalmanpur Grid)	8	8	33/11 kV	√				
	Mahendranagar	8	8	33/11 kV	\checkmark			20/24 MVA	Upgrading
ır	Kaluwapur	3	3	33/11 kV	√			20/24 MVA	Upgrading
naga	Gaddachauki	8	8	33/11 kV	\checkmark				
dra	Chadani	5	5	33/11 kV	√				
Mahendranagar	Lalpur Substation(@								
Ma	Premises at lalpur Grid)	7.5	7.5	33/11 kV					
1 .	Belauri	(4+3)	7	33/11 kV	\checkmark			20/24 MVA	Upgrading
lauri	Punarbas	8	8	33/11 kV				\checkmark	
	Tikapur	6/8	8	33/11 kV	\checkmark				
kapur	Lamki Subsation (@ Premisses of Lamki Grid)	16.6	16.6	33/11 kV	V				
	Sugarkhal	1.5	1.5	33/11 kV		\checkmark			
ıajani	Joshipur	3	3	33/11 kV	\checkmark			8 MVA	Upgrading
	Dadeldhura	1.5+1.5	3	33/11 kV	\checkmark			8 MVA	Upgrading
	Budar	3	3	33/11 kV	$\sqrt{}$			8 MVA	Upgrading
Dadeldhura	Syaule Substation (@ Premises at Syule Grid)	8	8	33/11 kV	$\sqrt{}$				
adel	Bagarkot	3	3	33/11 kV				√	
De	Sakayal	3	3	33/11 kV					
	Baitadi	3	3	33/11 kV	√			8 MVA	Upgrading
itadi	Patan	8	8	33/11 kV					
	Melauli	8	8	33/11 kV		√			
	Musya	8	8	33/11 kV	,	√			
	Pipalla	(3+1.5)	4.5	33/11 kV	√			8 MVA	Upgrading
oti	Mauwa	3	3	33/11 kV				√ ,	
	Tikhatar	3	3	33/11 kV				V	
	BP Nagar	3	3	33/11 kV					
hham	Jhakale, Sanfe Bagar	3	3	33/11 kV				√	
	Kamalbazar	3	3	33/11 kV				√	
	Balanch Substation (@	3	3	33/11 kV	,				
ırchula	premises of Chameliya HP)				√				
		3			/			V	
jhang	-								
					٧	/			
jura						V	-/		
				33/11 KV			V		
	g	Martadi Kolti	Bagthala 3 Chainpur 3 Martadi 8	Bagthala 3 3 Chainpur 3 3 Martadi 8 8 Kolti 5 5	Bagthala 3 3 33/11 kV Chainpur 3 3 33/11 kV Martadi 8 8 33/11 kV Kolti 5 5 33/11 kV	Bagthala 3 3 33/11 kV √ Chainpur 3 3 33/11 kV √ Martadi 8 8 33/11 kV Kolti 5 5 33/11 kV	Bagthala 3 3 33/11 kV √ Chainpur 3 3 33/11 kV √ Martadi 8 8 33/11 kV √ Kolti 5 5 33/11 kV	g Bagthala 3 3 33/11 kV √ Chainpur 3 3 33/11 kV √ Martadi 8 8 33/11 kV √ Kolti 5 5 33/11 kV √	Bagthala 3 3 33/11 kV √ Chainpur 3 3 33/11 kV √ Martadi 8 8 8 33/11 kV √ Kolti 5 5 33/11 kV √

33 kV Feeder Status

S.N.	Name of Distribution Center	Name of 33 kV Feeder	Length of Feeder (km)	Conductor Name/Size (sq.inch)
		Attariya-Dhangadhi 33 KV Line	13 Km	0.01 Sq inch(DOG)
1	1 Dhangadhi	Attariya-Budar 33 KV Line	39 Km	0.01 Sq inch(DOG)
1	Dilangadin	Attariya-Chaumala 33 KV Line	20 Km	0.01 Sq inch(DOG)
		Pahalmanpur-Chaumala 33 KV Line	13 Km	o.o1 Sq inch(DOG)
2		LALPUR-MAHENDRANAGAR	7.5 Km	o.o1 Sq inch(DOG)
	Mahendranagar	MAHENDRANAGAR- GADDACHAUKI	4.5 Km	0.01 Sq inch(DOG)
		GADDACHAUKI- DODHARA	8 Km	0.05 Sq inch(Rabbit)
		LALPUR-KALAWAPUR	15 Km	o.o1 Sq inch(DOG)
3	Tikapur DC	Lamki-Tikapur-Joshipur 33 KV line	22KM	0.01 Sq inch(DOG)
4	Bhajani	Joshipur Feeder	10.4 KM	0.01 Sq inch(DOG)
_	Dadeldhura	Syaule- Dadeldhura 33KV line	3.5 Km	0.01 Sq inch(DOG)
5	Dadeldilura	Syaule- buder 33 KV Line	33.5 Km	0.01 Sq inch(DOG)
6	Baitadi	Dadeldhura-Baitadi 33KV Line	65 Km	0.05 Sq inch(DOG)
0	Daitaui	Balanch - Baitadi 33 KV Line	32 Km	o.o1 Sq inch(DOG)
7	DOTI	Syaule- Doti (Pipla)33 KV Line	37KM	woolf
8	Darchula	Gokule-Khalanga 33 KV Line	25KM	0.01 Sq inch(DOG)
9	Achham Feeder	Doti (Pipla)-Achham 33 KV Line	65 km	0.1 Sq inch(DOG)
10	Belauri	Lalpure-Belauri 33 KV Line	22 Km	0.05 Sq inch(Rabbit)

11 kV Feeder Status

S.N.	Name of Distribution Center	Name of 11kV Feeder	Length of Feeder, km	Conductor Name Size (sq.inch)
		Attariya Feeder	65 km	0.05 Sq inch (Rabbit)
		Krishnapur Feeder	38 km	0.05 Sq inch (Rabbit)
		Chaumala Feeder	20 km	0.05 Sq inch (Rabbit)
		Geta Feeder	32 Km	0.05 Sq inch (Rabbit)
	_, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Sukhad Feeder	34 Km	o.o3 Sq inch (Weasel)
		Masuriya Feeder	29 Km	o.o3 Sq inch (Weasel)
		Chaumala Feeder	20 km	o.o3 Sq inch (Weasel)
1	Dhangadhi	Banbehada Feeder	40 Km	0.03 Sq inch (Weasel)
		Masuriya Feeder	15 Km	0.03 Sq inch (Weasel)
		Bhansar Feeder	6 Km	0.05 Sq inch (Rabbit)
		RAJPUR FEEDER	12 Km	0.05 Sq inch (Rabbit)/Weasel
		Hasanpur Feeder	16 Km	0.05 Sq inch (Rabbit)
		Bela Feeder	40 Km	0.05 Sq inch (Rabbit)/Weasel
		Manera Feeder	25 Km	0.05 Sq inch (Rabbit)
		Hasuliya Feeder	90 Km	0.05 Sq inch (Rabbit)/Weasel

		LALPUR	88.5 Km	0.05 Sq inch (Rabbit)/Weasel
		DAIJE	84 Km	0.05 Sq inch (Rabbit)/Weasel
		BAZAR	85.7 Km	0.05 Sq inch (Rabbit)/Weasel
		BHAASI	76.5 Km	o.o5 Sq inch (Rabbit)/Weasel
		AITHPUR	79.2 Km	0.05 Sq inch (Rabbit)/Weasel
		BANGAAU	80.7 Km	o.o5 Sq inch (Rabbit)/Weasel
	Mahandaanaan	KRISHNAPUR	82.5 Km	o.o5 Sq inch (Rabbit)/Weasel
2	Mahendranagar	BANI	75.2 Km	0.05 Sq inch (Rabbit)/Weasel
		JHALARI	85.5 Km	0.05 Sq inch (Rabbit)/Weasel
		PIPLADI	65.7 Km	o.o5 Sq inch (Rabbit)/Weasel
		DODHARA CHADANI	83 Km	o.o5 Sq inch (Rabbit)/Weasel
		BASKHEDA	82.5 Km	o.o5 Sq inch (Rabbit)/Weasel
		BHRAMADEV	85.2 Km	0.05 Sq inch (Rabbit)/Weasel
		Beldandi Feeder		1
	Dalassi		38 Km	0.05 Sq inch (Rabbit)/Weasel
3	Belauri	Belauri Feeder	22 Km	0.05 Sq inch (Rabbit)/Weasel
		Punarbas Feeder	40 Km	o.o5 Sq inch (Rabbit)/Weasel
		Tikapur Feeder	42.5km	o.o5 Sq inch (Rabbit)
		Satti Feeder	55km	0.05 Sq inch (Rabbit)
4	Tikapur DC	Durgauli-munuwa Feeder	23.5km	0.05 Sq inch (Rabbit)
		Baliya Feeder	37km	0.05 Sq inch (Rabbit)
		Chuha Feeder	60km	0.05 Sq inch (Rabbit)
		Jagatpur Feeder	40km	0.05 Sq inch (Rabbit)
		Sukhad Feeder	85.43 Km	0.05 Sq inch (Rabbit)
5	Bhajani	Joshipur Feeder	40.65 Km	0.05 Sq inch (Rabbit)
		Sukkhad Feeder	89.03 Km	0.05 Sq inch (Rabbit)
		Bazzar feeder	47.8 KM	0.05/0.03 Sq inch
		Chamada Feeder	92.3 KM	0.05/0.03 Sq inch
		Sakayal feeder	80.89 KM	0.05/0.03 Sq inch
6	Dadeldhura	Doti ghatal Feeder	15 KM	o.o3 Sq inch (Weasel)
		Bhatkada Feeder	9 KM	o.o3 Sq inch (Weasel)
		Jogbuda Feeder	110 KM	0.10/0.05/0.03 sq. inch
		Buder Feeder		
		Bazar Feeder	172 KM	o.o3 Sq inch (Weasel)
7	Baitadi	Tripura Feeder	79 KM	o.o3 Sq inch (Weasel)
		Julaghat Feeder	12KM	o.o3 Sq inch (Weasel)
		DIPAYAL FEEDER	110.43 KM	0.03, 0.05 Sq inch
		RAJPUR FEEDER	107.77 KM	0.03, 0.05 Sq inch
8	Doti	SIGADI FEEDER	92 KM	0.03,0.05 Sq inch
		JORAIL FEEDER	34.7 KM	o.o3 Sq inch (Weasel)
		ACHHAM FEEDER	75 KM	o.o3 Sq inch (Weasel)
		Joljibi Feeder	38 KM	o.o3 Sq inch (Weasel)
		Khalanga Feeder	21KM	o.o3 Sq inch (Weasel)
9	Darchula	Huti Feeder	10KM	o.o3 Sq inch (Weasel)
		Dungri Feeder	6KM	o.o3 Sq inch (Weasel)
		Gokuleshwor Feeder	13Km	o.o3 Sq inch (Weasel)
10	Achham	Achham	120 km	ACSR Dog-65 km weasel - 55 km
11	Bajhang DC	Bagthala	0.5	o.o3 Sq inch (Weasel)
	3 0	Chainpur	34.5	Weasel/Rabit

Electrification Status

S. N.	District	Municipalities Rural Municipalities	Total Electrification % (Grid Connected)	Populations	No of Households	Total 11 kV (HT) Circuit Kilometer (KM) required to fully electrified the Municipalities or rural municipalities	Total 0.4 kV (LT) Circuit Kilometer (KM) required to fully electrified the Municipalities or rural municipalities	No. of Transformer Required
		1.Badi Malika Municipality	81.09	19122	3919	10	25	10
		2.Triveni Municipality	95.00	20879	3810	25	40	17
		3.Budhi Ganga Municipality	62.00	24645	4861	20	35	15
	Bajura	4.Budhi Nanda Municipality	83.00	21347	3923	35	60	19
1		5.Gaumul	70.00	9680	1773	20	40	15
1	Dajura	6.Jaganath Rural Municipality	83.00	10723	1915	25	45	13
		7.SwamiKartik	60.00	14534	2527	20	40	10
		8.Chhededaha	60.00	21118	3609	25	50	14
		9.Himali	0.00	10476	1957	30	60	17
		Total District : Bajura	69.20	152524	28294	210	395	130
		1.Jaya Prithvi Municipality	72.00	24930	4509	50	200	16
		2.Bungal Municipality	20.00	37323	6156	80	600	30
		3.Talkot	47.00	12984	2248	70	600	22
	Bajhang	4.Masta	56.00	16794	2760	55	400	16
		5.Khaptadchhanna	73.00	17853	3488	45	450	22
		6.Thalara	56.00	20167	3608	65	600	30
2		7.Bitthadchir	40.00	19270	3076	50	500	30
		8.Surma	42.66	10135	1592	65	300	23
		9.Chhabis Pathibhera	37.00	18306	3319	60	500	20
		10.Durgathali	42.00	14572	2749	60	400	20
		11.Kedarsyun	51.00	23935	4028	65	600	26
		12.Kanda	54.00	2452	408	75	400	10
		Total District : Bajhang	48.00	218721	37941	740	5550	265
		1.Mangalsen Municipality	44.20	35942	7303	35	30	10
		2.Sanfebagar Municipality	53.38	37357	7401	50	48	16
		3.Kamalbazar Municiplaity	22.00	26247	4957	32	48	16
		4.Panchdeval Binayak Municiplaity	15.00	30391	5490	30	45	18
		5.Chourpati	34.29	27808	5654	16	40	10
3	Achham	6.Mellekh	41.25	27276	4820	32	36	12
		7.Bannigadhi Jayagadh	55.69	19194	3730	15	25	5
		8.RamaRoshan	52.00	27826	4816	32	39	13
		9.Dhakari	10.00	23840	4197	45	48	15
		10.Turmakhand	15.00	27382	5059	32	64	16
		Total District : Achham	35.15	283263	53427	319	423	131

		. D' 10'l 1'35 ' ' 1'.	- (0				
		1.Dipayal-Silgadi Municipality	96.02	33238	7512	10	15	4
		2.Shikhar Municipality	97.34	32087	6725	6	10	6
		3.Purbi Chouki	68.56	22683	4881	15	20	10
	4 Doti	4.Badikedar	0.00	16870	2744	80	80	15
4		5.Jorayal	61.52	21011	3843	80	80	10
		6.Sayal	40.67	19727	3807	60	80	10
		7.Aadarsha	60.23	24159	4789	60	80	6
		8.K.I. Singh	77.50	21091	4297	30	40	8
		9.Bogtan	14.37	18063	3159	80	80	30
		Total District : Doti	66.30	208929	41757	421	485	99
		1.Dhangadhi Sub-Metropolitan	97.89	177337	34982	5	9	2
		2.Tikapur Muncipality	100.00	91326	18432			
		3.Ghodaghodi Municipality	77.09	90727	15813	30	85	14
		4.Lamki-Chuha Municipality	100.00	90534	17713			
		5.Bhajani Municipality	81.98	62231	10463	12	40	8
		6.Godavari Municipality	90.92	93646	17903	30	10	3
5	Kailali	7.Gauri Ganga Municipality	87.05	66396	12088	5	12	3
0		8.Janaki	87.81	58263	10865	8	11	4
		9.Bardagoriya	88.68	39231	6846	9	11.5	6
		10.Mohanyal	0.00	26471	4764	73	30	13
		11.Kailari	91.34	57599	9364	12	12	5
		12.Joshipur	89.21	43764	7673	8	24	7
		13.Chure	19.86	22714	4035	30	35	15
		Total District : Kailali	87.61	920239	170941	222	279.5	80
		1. Bhimdatta Municipality	91.24	110997	21950	50	200	50
		2. Punarbas Municipality	80.00	56913	10515	10	30	12
		3. Bedkot Municipality	91.47	52506	9782	30	120	30
		4. Mahakali Municipality	91.89	41653	7845	15	150	15
6	Kanchanpur	5. Shuklaphanta Municipality	90.23	49698	9398	45	200	45
		6. Belauri Municipality	86.75	56819	9184	7	25	10
		7. Krishnapur Municipality	89.75	60106	10628	20	100	20
		8. Beldandi	73.61	23291	3991	5	25	8
		9. Laljhadi	93.46	23949	3863	1	10	5
		Total District : Kanchanpur 1.Amargadhi Municipality	88.50	475932	87156	183	860	195
		2.Parashuram Municipality	71.70	23442	5270	10	40	5
			34.70	38599	6610	160	250	28
		3.Aalitaal	57.17	20446	3619	80	120	10
7	Dadeldhura	4.Bhageshwor	59.84	15589	2716	70	110	12
		5.Navadurga	51.62	22019	4559	30	70	7
		6.Ajaymeru	43.49	18831	3653	40	70	8
		7.Ganyapdhura	34.40	16652	3388	20	60	6
		Total District : Dadeldhura	49.89	155578	29815	410	720	76

ATTARIYA REGIONAL OFFICE

		4 Daghanath Chanda Municipalitu	=0.06	001=0	000=	10	16	0
		1.Dasharath Chanda Municipality	79.26	38150	8007	12	16	8
		2.Patan Municipality	59.36	32115	6087	22	30	15
		3.Melauli Municipality	0.77	23791	4166	45	85	55
		4.Purchaundi Municipality	0.00	41339	6744	65	68	48
		5.Surnaiya	25.11	19574	3505	26	50	28
8	Baitadi	6.Sigas	0.00	22699	3941	55	70	45
		7.Shivanath	0.00	18061	2924	35	55	32
		8.Pancheshwor	1.73	19803	3495	27	55	30
		9.Događa Kedar	26.73	25994	4810	24	28	16
		10.Dilasaini	11.56	24191	4337	32	48	26
		Total District : Baitadi	26.49	265717	48016	343	505	303
		1.Mahakali Municipality	79.62	22834	4869	12	01	_
		1.Manakan Municipanty	/9.02	22034	4009	12	21	5
		2.Sailya Shikhar Municipality	38.75	23727	4325	42	104	5 11
		2.Sailya Shikhar Municipality	38.75	23727	4325	42	104	11
	Darahula	2.Sailya Shikhar Municipality 3.Malikarjun	38.75 36.85	23727 16758	4325 3329	42 48	104 145	11
9	Darchula	2.Sailya Shikhar Municipality 3.Malikarjun 4.Api Himal	38.75 36.85 0.00	23727 16758 7291	4325 3329 1167	42 48 75	104 145 210	11 13 20
9	Darchula	2.Sailya Shikhar Municipality 3.Malikarjun 4.Api Himal 5.Duhun	38.75 36.85 0.00 13.84	23727 16758 7291 11634	4325 3329 1167 2132	42 48 75 38	104 145 210 97	11 13 20 15
9	Darchula	2.Sailya Shikhar Municipality 3.Malikarjun 4.Api Himal 5.Duhun 6.Naugad	38.75 36.85 0.00 13.84 0.00	23727 16758 7291 11634 17074	4325 3329 1167 2132 2813	42 48 75 38 76	104 145 210 97 212	11 13 20 15 22
9	Darchula	2.Sailya Shikhar Municipality 3.Malikarjun 4.Api Himal 5.Duhun 6.Naugad 7.Marma	38.75 36.85 0.00 13.84 0.00 7.86	23727 16758 7291 11634 17074 16086	4325 3329 1167 2132 2813 2697	42 48 75 38 76 45	104 145 210 97 212 110	11 13 20 15 22 18

ANNEX I

ANNEX 1

The statistics of employed personnel till the end of the fiscal year is tabulated as:

S. No.	Office Name	Approved Staff	Working Staff	Remarks
1	Distribution and Consumer Services Directorate	24	26	
2	Administration Division	16	11	
3	Finance Division	21	13	
4	Planning and Technical Service Department	128	74	
5	Community and Rural Electrification Department	13	16	
6	Kathmandu Regional Office	1821	1509	
7	Biratnagar Regional Office	1334	1010	
8	Janakpur Regional Office	1038	778	
9	Hetauda Regional Office	850	661	
10	Pokhara Regional Office	778	487	
11	Butwal Regional Office	933	635	
12	Nepalgunj Regional Office	769	549	
13	Attariya Regional Office	580	418	
	Total	8305	6187	

ANNEX 2

The statistics of vehicles in different Department/Regional Offices of the fiscal year is tabulated as:

S. No.	Office Name	SUV Pickup Truck	Crane Truck	Two-wheelers	Remarks
1	Distribution and Consumer Services Directorate	10	0	13	
2	Planning and Technical Service Department	8	0	5	
3	Community and Rural Electrification Department	4	0	2	
4	Kathmandu Regional Office	78	60	17	
5	Biratnagar Regional Office	65	20	6	
6	Janakpur Regional Office	56	7	4	
7	Hetauda Regional Office	50	12	3	
8	Pokhara Regional Office	33	6	2	
9	Butwal Regional Office	38	9	4	
10	Nepalgunj Regional Office	45	7	2	
11	Attariya Regional Office	24	4	7	
	Total	411	125	65	

ANNEX 3

The statistics of accidents occurred regional-wise in the fiscal year is tabulated as:

S. No.	Office Name	Death	Injuries	Death of Animals	Remarks
1	Kathmandu Regional Office	12	9	3	
2	Biratnagar Regional Office	3	2	3	
3	Janakpur Regional Office	10	11	12	
4	Hetauda Regional Office	4	9	3	
5	Pokhara Regional Office	3	3	1	
6	Butwal Regional Office	4	5	1	
7	Nepalgunj Regional Office	12	11	27	
8	Attariya Regional Office	6	8	2	
	Total	54	58	52	

ANNEX 4

The statistics of training provided / inspection carried out / seminar attended in the fiscal year is as follow:

S.No.	Office Name	Nepal	India	China	Bangladesh	Thailand	France	Indonesia	Netherlands	Singapore	Malaysia
1	Distribution and Consumer Services Directorate / GSEEP	-	13	7	-	-	-	1	3	1	-
2	Planning and Technical Services Department	-	14	7	-	-	-	-	-	-	
3	Community and Rural Electrification Department	-	6	1	3	-	-	-	-	-	
4	Kathmandu Regional Office	2	15	9	-	-	-	-	1	-	1
5	Biratnagar Regional Office	3	15	3	-	-	-	-	1	-	1
6	Janakpur Regional Office	-	7	3	-	-	1	1	-	1	1
7	Hetauda Regional Office	13	10	2	1	-	-	-	1	-	1
8	Pokhara Regional Office	-	6	1	-	1	-	-	1	-	1
9	Butwal Regional Office	1	9	4	1	-	-	-	1	-	1
10	Nepalgunj Regional Office	6	20	-	3	-	-	-	1	-	1
11	Attariya Regional Office	-	3	-	6	-	-	-	1	-	1
12	Other office of NEA	-	3	-	-	-	-	-	-	-	-
13	Expert outside of NEA	-	2	-	-	-	-	-	-	-	-
	Total	25	123	3 7	14	1	1	2	10	2	8

ANNEX II

Nepal Electricity Authority Distribution And Consumer Service Directoriate Cumulative Loss Comparision With Target F/Y 2075/076

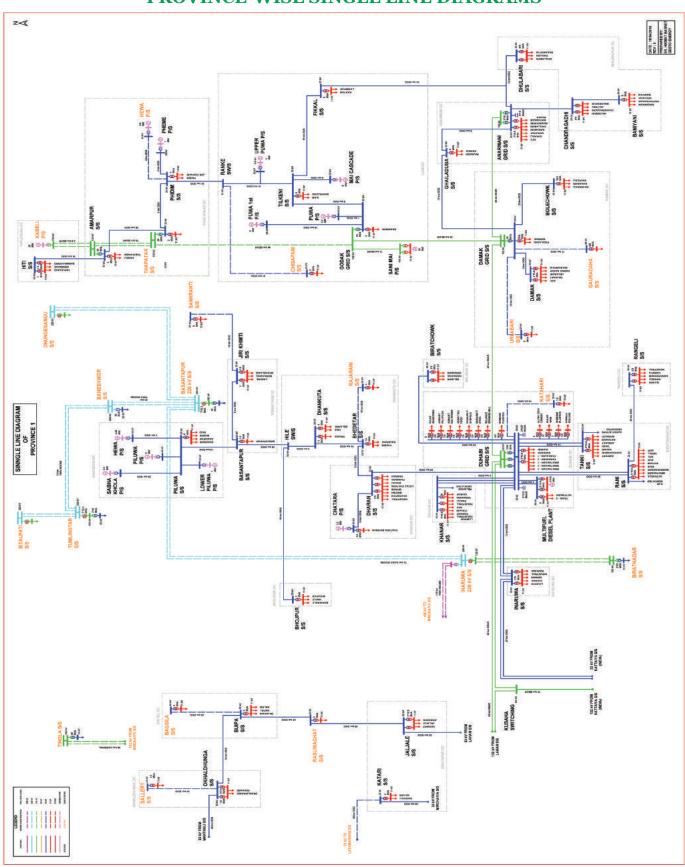
		Cumulative Loss		Cumulative Loss
S.N	Regional With Dc	achieved till Asar for	Loss Target	achieved till Asar
5.11	Regional With De	2074/075	for 2075/76	for 2075/076
A	Total Distribution Loss	14.82	11.00	11.28
1	Kathmandu Regional Office	8.56	7.29	7.40
1	Ratnapark D C	2.70	2.56	2.94
2	Baneshor D C	9.42	8.03	8.22
3	Kuleshor D C	8.16	6.96	7.75
4	Maharajgung D C	4.48	3.82	5.25
5	Kirtipur D C	6.73	5.74	5.42
6	Lagankel D C	7.78	6.55	6.47
7	Pulchowk D C	3.29	2.81	8.02
8	Bhaktapur D C	18.57	15.82	13.06
9	Thimi D C	10.35	8.49	8.84
10	Kavre D C	28.17	24.00	20.43
11	Jorpati D C	6.98		
12	Nuwakot D C	17.04	5.95	9.95
13	Dhading D C	8.32	13.79 7.09	13.34
	Sindhu D C	35.63		7.70
14	Dolakha D C		29.07 12.65	19.37 11.16
15 16	Ramechhap D C	14.85		12.61
	Helambu D C	14.78	12.59	0.61
17	Dhunche Dc	4.57	3.89	
18		8.98	7.66	7.60
19	Balaju Dc	5.60	4.77	2.84
2	Birat Nagar Regional Office	15.08	11.20	12.15
1	Biratnagar D C	12.86	9.55	9.68
2	Itahari D C	10.41	7.73	8.03
3	Damak D C	18.93	14.06	13.31
	Bhadrapur D C	15.38		
4	Belbari D C		11.43 18.88	13.33
5 6	Rangeli D C	25.42 29.82	22.15	21.37
	Dharan D C	<u> </u>	7.69	23.70 12.49
8	Dhankuta D C	10.35		
	Ilam D C	17.39	12.92	12.80
9	Anarmani D C	21.71	16.13	13.52
10	Khandbari Dc	17.83	13.25	12.73
11	Duhabi D C	19.59	14.55	26.27
12		6.71	4.99	4.96
13	Bhojpur D C	12.96	9.63	16.85
14	Terhathum D C	17.30	12.85	16.26
15	Inaruwa D C Urlabari D C	28.07	20.86	24.58
16		16.69	12.40	18.08
17	Talejung Couradab Da	9.07	6.74	8.98
18	Gauradah Dc			19.72

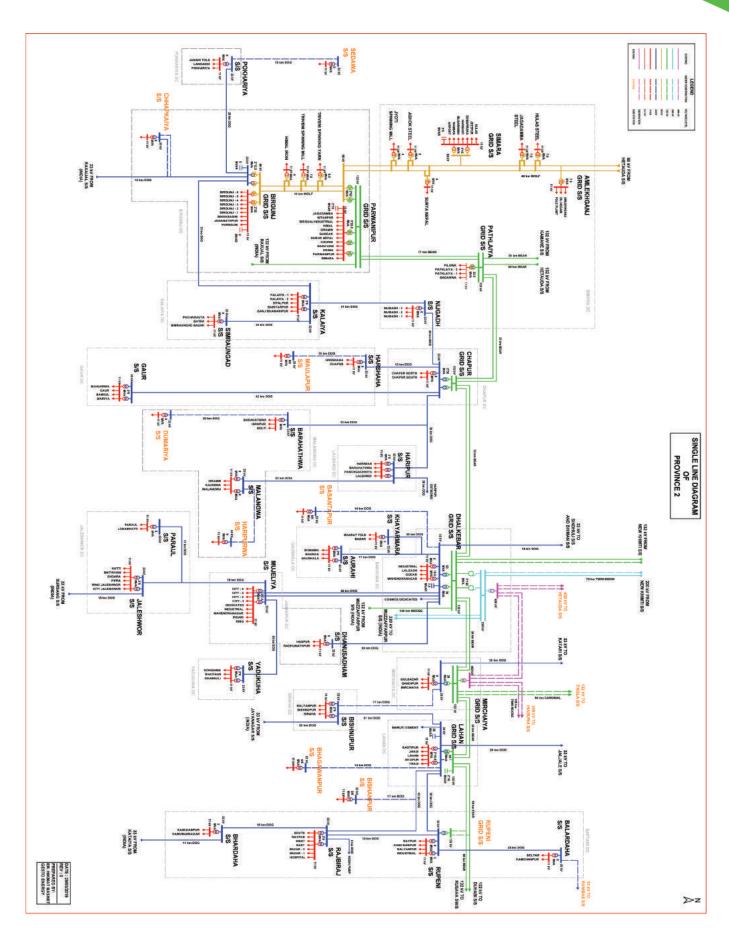
3	Janakpur Regional Office	31.30	22.20	23.36
1	Jaleshor D C	48.31	34.26	32.80
2	Janakpur D C	39.53	28.04	33.85
3	Malangawa D C	34.24	24.29	22.64
4	Rajbiraj DC	50.33	35.69	38.96
5	Lahan DC	34.90	24.76	27.29
6	Siraha DC	34.34	24.36	24.08
7	Udayapur Dc	7.99	5.67	5.07
8	Sindhuli D C	10.59	7.51	8.21
9	Diktel D C	21.86	15.51	10.89
10	Mahendranagar D C	20.06	14.23	18.46
11	Okhaldhunga D C	6.24	4.43	5.12
12	Lalbandi D C	24.95	17.69	17.53
13	Mirchaya D C	9.27	6.57	9.06
14	Gaushala D C	34.96	24.80	18.58
15	Yadukuha Dc			46.23
16	Kanchanpur Dc			27.72
4	Hetauda Regional Office	13.37	9.93	8.39
1	Gaur D C	43.57	32.37	31.28
2	Kalaiya D C	56.06	41.65	40.97
3	Tandi D C	16.98	12.61	15.97
4	Birgunj D C	10.19	7.57	4.96
5	Hetauda DC	8.88	6.60	1.78
6	Bharatpur D C	11,21	8.33	9.23
7	Simara D C	0.58	0.43	(0.13)
8	Palung D C	18.96	14.09	13.92
9	Chadranigapur Dc	44.28	32.89	19.23
10	Pokariya Dc			41.73
5	Butwal Regional Office	15.55	11.55	12.39
1	Bhairawaha D C	4.23	12.22	12.89
2	Butwal D C	9.95	7.39	6.91
3	Palpa D C	18.70	13.89	13.50
4	Kawasoti D C	14.83	11.01	12.79
5	Parasi D C	12.29	9.13	9.26
6	Taulihawa D C	35.05	26.04	32.17
7	Krishna Nagar D C	10.25	7.61	11.16
8	Archakhanchi D C	11.29	8.39	6.62
9	Gulmi D C	16.14	11.99	13.76
10	Naya Mill Dc			15.19

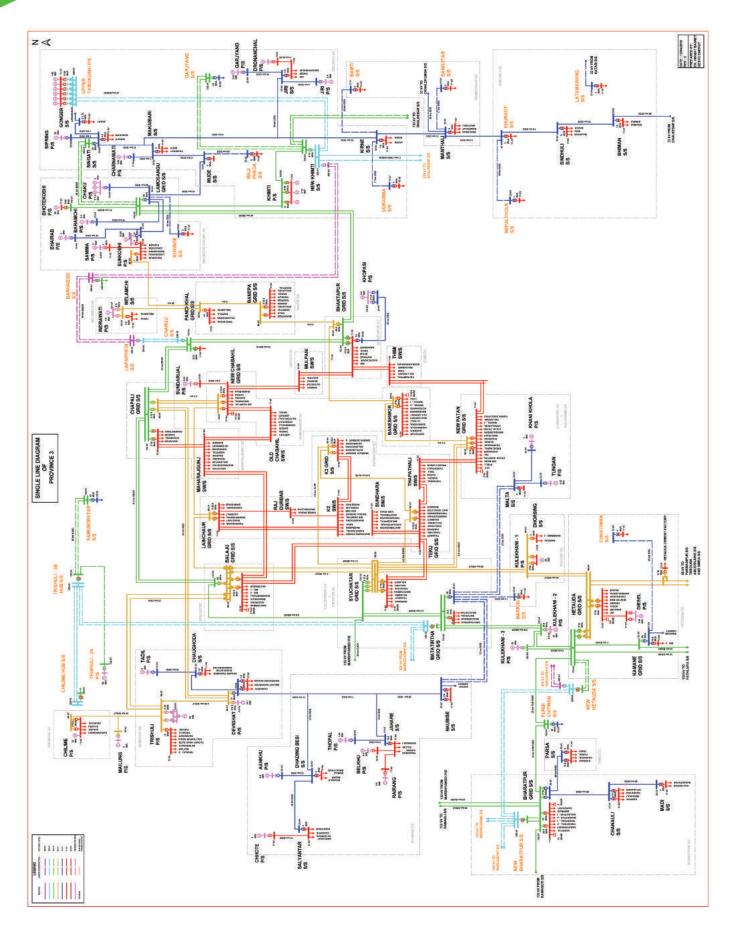
6	Pokhara Regional Office	11.67	8.67	9.79
1	Pokhara D C	8.72	6.48	8.77
2	Lekhnath D C	15.56	11.56	13.56
3	Tanahu D C	16.67	12.38	7.51
4	Lamjung D C	4.07	3.02	1.58
5	Syanga D C	14.24	10.58	13.96
6	Gorkha D C	12.64	9.39	9.85
7	Arughat D C	11.56	8.59	12.63
8	Parbat Dc	17.37	12.90	9.46
9	Balung Dc	16.18	12.02	15.78
10	Myagdi Dc	11.93	8.87	22.07
11	Tatopani Dc			11.02
7	Nepalganj Regional Office	16.81	11.82	11.57
1	Nepalganj D C	18.89	13.28	11.02
2	Surkhet D C	19.25	13.54	20.34
3	Ghorahi D C	6.88	4.83	4.26
4	Tulsipur D C	30.86	21.69	19.41
5	Gulariya D C	25.62	18.01	21.58
6	Salyan D C	18.83	13.24	18.17
7	Pyuthan D C	20.94	14.72	18.96
8	Rolpa D C	15.13	10.64	12.31
9	Dailekh Dc	19.31	13.58	16.56
10	Kohalpur Dc	16.21	11.39	9.45
8	Attariya Regional Office	17.72	11.21	14.39
1	Dhangadhi D C	15.29	9.67	11.78
2	Tikapur D C	12.42	7.85	8.34
3	Mahendranagar Dc	24.09	15.24	18.70
4	Dadeldhura D C	13.56	8.57	22.60
5	Baitadai D C	10.68	6.76	12.30
6	Doti D C	15.38	9.73	9.63
7	Darchula D C	18.24	11.54	(11.94)
8	Achham D C	28.34	17.93	22.24
9	Belauri Dc			29.50
10	Bhajani Dc			19.07
11	Bajhang Dc			11.24

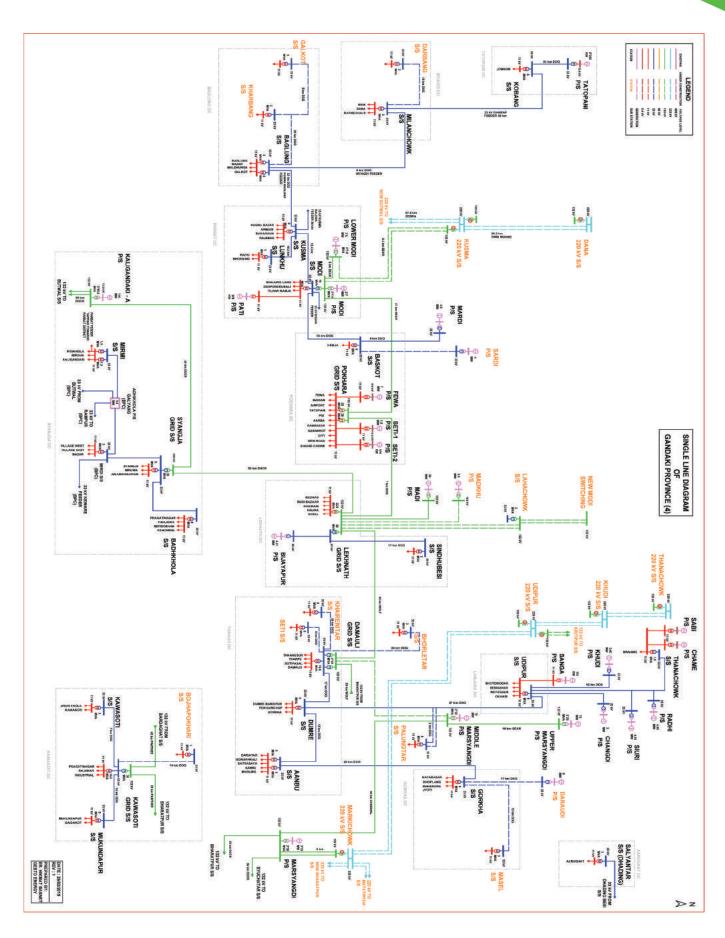
ANNEX III

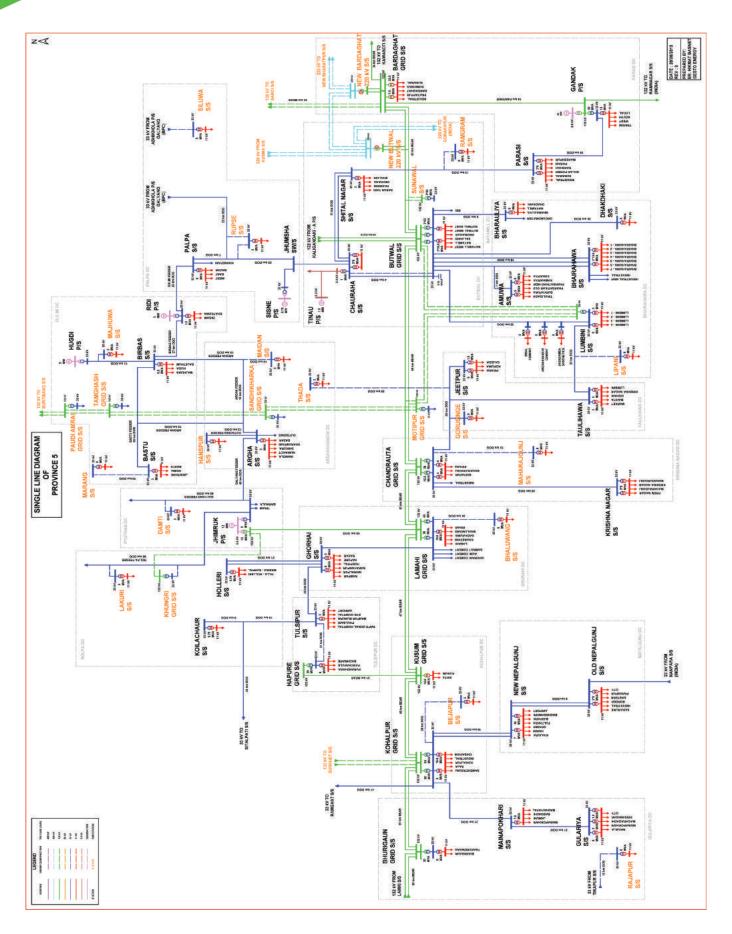
PROVINCE-WISE SINGLE LINE DIAGRAMS

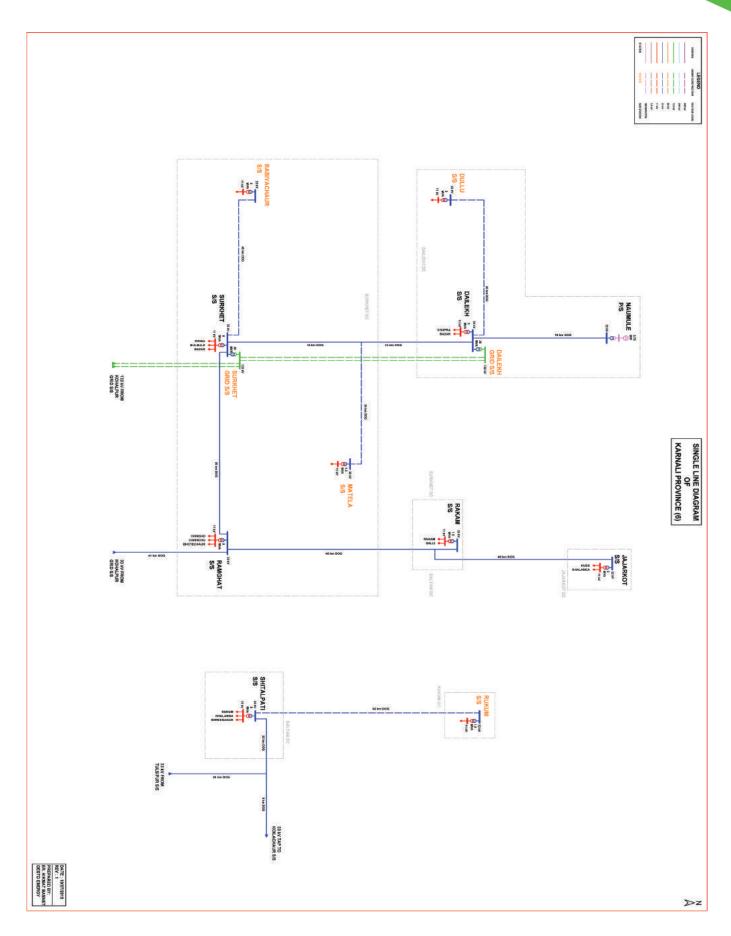


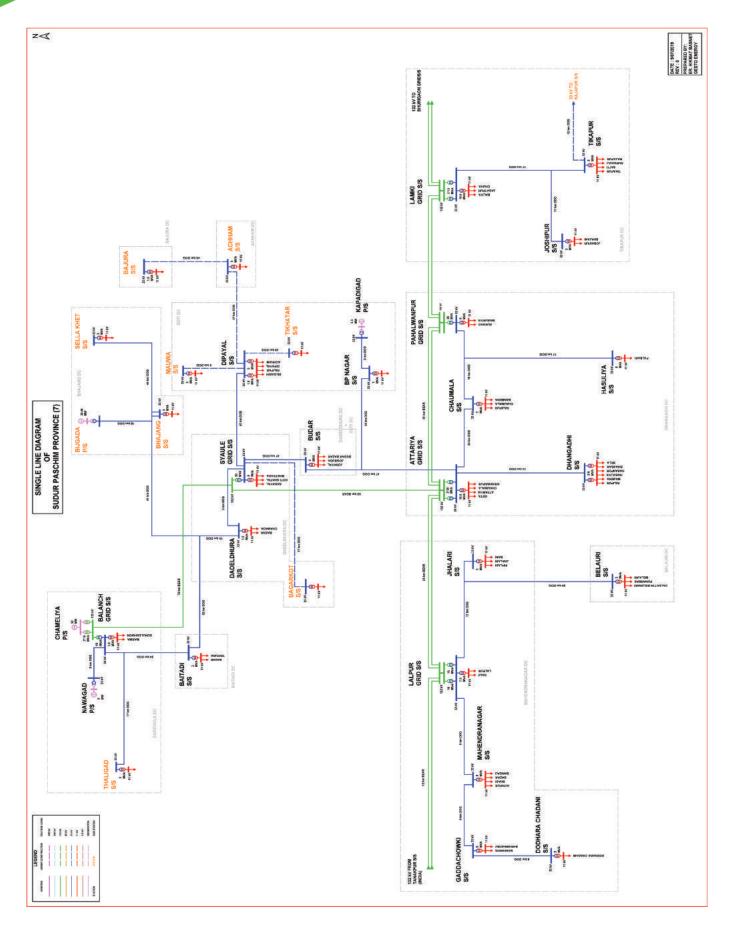












ANNEX IV

NEA TARIFF STRUCTURE

1. Domestic Consumers

(a) Minimum and Energy Charge (Single Phase)

kWh	5 Ampere		15 Am	15 Ampere		30 Ampere		60 Ampere	
(Monthly) Units	Minimum Charge	Energy Charge	Minimum Charge	Energy Charge	Minimum Charge	Energy Charge	Minimum Charge	Energy Charge	
0-20	30.00	3.00	50.00	4.00	75.00	5.00	125.00	6.00	
21-30	50.00	7.00	75.00	7.00	100.00	7.00	150.00	7.00	
31-50	75.00	8.50	100.00	8.50	125.00	8.50	175.00	8.50	
51-150	100.00	10.00	125.00	10.00	150.00	10.00	200.00	10.00	
151-250	125.00	11.00	150.00	11.00	175.00	11.00	225.00	11.00	
251-400	150.00	12.00	175.00	12.00	200.00	12.00	250.00	12.00	
Above 400	175.00	13.00	200.00	13.00	225.00	13.00	275.00	13.00	

(b) Minimum and Energy Charge (Three Phase)

Low Voltage (230/400 V)

		Up to 10 KVA		Above 10 KVA	
	kWh	Minimum Charge	Energy Charge	Minimum Charge	Energy Charge
	Up to 400	1100.00	12.50	1800.00	12.50
	Above 400	1100.00	13.50	1000.00	13.50

(c) Minimum and Energy Charge: Three Phase

Medium Voltage (33/11 KV)

kWh	Up to 10 KVA			
ATT I	Minimum Charge	Energy Charge		
Up to 1000		11.00		
1001-2000	10000.00	12.00		
Above 2001		13.00		

Billing Method (For 5 Ampere)

S.No.	Electricity	Rate	Billing			
	Consume	Rs. Per	Method			
	Block	Unit				
1	Up to 20 units	3.00	Minimum Monthly Service Charge Rs. 30.00 for up to 20 units and Energy Charge Rs. 3.00 per unit			
2	21 to 30 units	7.00				
2	21 to 30 times	7.00	Minimum Monthly Service Charge Rs. 50.00 and Energy Charge per unit Rs. 3.00 for per unit up to 20 units and Rs. 7.00 per unit for 21 units to 30 units			

3	31 to 50 units	8.50	Minimum Monthly Service Charge Rs. 75.00 and Energy Charge per unit Rs. 3.00 for per unit up to 20 units and Rs. 7.00 per unit for 21 units to 30 units and Rs. 8.50 per unit for 31 units to 50 units
4	51 to 150 units	10.00	Minimum Monthly Service Charge Rs. 100.00 and Energy Charge per unit Rs. 3.00 for per unit up to 20 units and Rs. 7.00 per unit for 21 units to 30 units and Rs. 8.50 per unit for 31 units to 50 units and Rs. 10.00 per unit for 51 units to 150 units
5	151 to 250 units	11.00	Minimum Monthly Service Charge Rs. 125.00 and Energy Charge per unit Rs. 3.00 for per unit up to 20 units and Rs. 7.00 per unit for 21 units to 30 units and Rs. 8.50 per unit for 31 units to 50 units and Rs. 10.00 per unit for 51 units to 150 units and Rs. 11.00 per unit for 151 units to 250 units
6	251 to 400 units	12.00	Minimum Monthly Service Charge Rs. 150.00 and Energy Charge per unit Rs. 3.00 for per unit up to 20 units and Rs. 7.00 per unit for 21 units to 30 units and Rs. 8.50 per unit for 31 units to 50 units and Rs. 10.00 per unit for 51 units to 150 units and Rs. 11.00 per unit for 151 units to 250 units and Rs. 12.00 per unit for 251 units to 400 units
7	Above 400	13.00	Minimum Monthly Service Charge Rs. 175.00 minimum charge and Energy Charge per unit Rs. 3.00 for per unit up to 20 units and Rs. 7.00 per unit for 21 units to 30 units and Rs. 8.50 per unit for 31 units to 50 units and Rs. 10.00 per unit for 51 units to 150 units and Rs. 11.00 per unit for 151 units to 250 units and Rs. 12.00 per unit for 251 units to 400 units and Rs. 13.00 per unit for above 400 units

Similarly, billing will be made for 15, 30 and 60 Ampere.

2. Other Consumers

2.1 Low Voltage (230/400 V)

Consumer	Tariff I	Rate
Category	Demand Charge	Energy Charge
	Rs. per KVA/ month	Rs./unit
1. Industrial		
a) Rural and Domestic	60.00	7.80
b) Small Industry	110.00	9.60
2. Commercial	325.00	11.20
3. Non-Commercial	215.00	12.00
4. Irrigation		4.30
5. Water Supply		
a) Community Water Supply	155.00	5.20
b) Other Water Supply	230.00	7.20
6. Temple		6.10
7. Street Light		
a) Metered		7.30
b) Non-Metered	2475.00	
8. Temporary Supply		19.80
9. Non-Domestic	350.00	13.00
10. Entertainment Business	350.00	14.00

2.2 High Voltage

	Tariff Rate			
Consumer Category	Demand Charge	Energy Charge		
	Rs./KVA/month	Rs./unit		
A. High Voltage (66 KV or above)				
1. Industrial	240.00	7.50		

B. Medium Voltage (33 KV)		
1. Industrial	255.00	8.40
2. Commercial	315.00	10.80
3. Non-commercial	240.00	11.40
4. Irrigation	55.00	4.80
5. Water Supply		
a) Community Water Supply	220.00	6.00
b) Other Water Supply	220.00	6.60
6. Transportation		
a) Trolley Bus	230.00	5.60
b) Other Transportation	255.00	8.60
7. Non-Domestic	350.00	12.55
8. Entertainment Business	350.00	13.50
C. Medium Voltage (11 KV)		
1. Industrial	255.00	8.60
2. Commercial	315.00	11.10
3. Non-commercial	240.00	11.50
4. Irrigation	55.00	4.90
5. Water Supply		
a) Community Water Supply	220.00	6.20
b) Other Water Supply	220.00	6.80
6. Transportation		
a) Trolley Bus	230.00	5.60
b) Other Transportation	255.00	8.80
7. Temple	220.00	9.90
8. Temporary Supply	330.00	12.00
9. Non-Domestic	350.00	12.90
10. Entertainment Business	350.00	13.90

Under Non-Domestic: Embassy, Foreign Mission, INGO, Private Campus, Star Hotel, Shopping Mall etc.

Under Entertainment: Cinema Hall, Fun Park, Theater etc.

3. Time of Day (ToD) Tariff Rate

a) Electricity Tariff Rate from Baishakh to Mangsir

		Tariff Rate				
Consumer Category	Demand Charge Rs. per KVA/ month	Peak Time (17.00-23.00)	Off Peak Time (23.00-5.00)	Normal time (5.00-17.00)		
A. High Voltage (66 KV or above)						
1. Industrial	240.00	9.30	4.15	7.50		
B. Medium Voltage (33 KV)						
1. Industrial	250.00	10.20	5.25	8.40		
2. Commercial	315.00	12.30	6.75	10.80		
3. Non-Commercial	240.00	13.20	7.00	12.00		

4. Irrigation	55.00	6.30	3.15	4.70
5. Water Supply				
a) Community Water Supply	220.00	7.30	3.60	5.90
b) Other Water Supply	220.00	10.20	5.25	8.40
6. Transportation				
a) Trolley Bus	230.00	7.00	3.70	5.50
b) Other Transportation	255.00	9.35	3.70	8.40
7. Street Light	80.00	8.40	3.50	4.20
C. Medium Voltage (11 KV)				
1. Industrial	250.00	10.50	5.40	8.55
2. Commercial	315.00	12.60	6.90	11.10
3. Non-commercial	240.00	13.50	7.15	12.25
4. Irrigation	55.00	6.40	3.50	4. 75
5. Water Supply				
a) Community Water Supply	220.00	7.45	4.40	6.10
b) Other Water Supply	220.00	10.50	5.40	8.50
6. Transportation				
a) Trolley Bus	230.00	7.15	4.20	5.60
b) Other Transportation	255.00	9.65	4.20	8.50
7. Street Light	80.00	8.80	3.75	4.40
8. Temple	220.00	11.30	5.15	9.10
9. Temporary Supply	330.00	14.40	6.60	11.75

b) Electricity Tariff Rate from Paush to Chaitra

	Tariff Rate				
Consumer Category	Demand Charge Rs. per KVA/ month	Peak Time (17.00-23.00)	Normal Time (23.00-5.00)		
A. High Voltage (66 KV or above)					
1. Industrial	240.00	9.30	7.50		
B. Medium Voltage (33 KV)					
1. Industrial	250.00	10.20	8.40		
2. Commercial	315.00	12.30	10.80		
3. Non-Commercial	240.00	13.20	12.00		
4. Irrigation	55.00	6.30	4.70		
5. Water Supply					
a) Community Water Supply	220.00	7.30	5.90		
b) Other Water Supply	220.00	10.20	8.40		
6. Transportation					
a) Trolley Bus	230.00	7.00	5.50		
b) Other Transportation	255.00	9.35	8.40		
7. Street Light	80.00	8.40	4.20		
C. Medium Voltage (11 KV)					
1. Industrial	250.00	10.50	8.55		
2. Commercial	315.00	12.60	11.10		
3. Non-commercial	240.00	13.50	12.25		
4. Irrigation	55.00	6.40	4.75		

5. Water Supply			
a) Community Water Supply	220.00	7.45	6.10
b) Other Water Supply	220.00	10.50	8.50
6. Transportation			
a) Trolley Bus	230.00	7.15	5.60
b) Other Transportation	255.00	9.65	8.50
7. Street Light	80.00	8.80	4.40
8. Temple	220.00	11.30	9.10
9. Temporary Supply	330.00	14.40	11.75

4. Community Wholesale Consumer

Voltage Level	Energy Charge (Rs./unit)
a) Medium Voltage (11KV/33KV)	
Upto (N* x 30) units	4.25
Above (N* x 30) units	6.00
b) Lower Voltage Level (230/400 Volt)	
Upto (N* x 30) units	4.25
Above (N* x 30) units	6.25

N*= Total Number of Consumers of a Community Group

Notes

- a) Low Voltage refers to Electricity Supply of 230/400 V, Medium Voltage refers to 11 KV and 33 KV and High Voltage refers to 66 KV or above.
- b) If Demand Meter of any consumer reads kilowatts (kW), then KVA=kW/o.8. Consumers having kW demand meter shall mandatorily install capacitors within the given time. Otherwise their KVA demand shall be calculated as KVA=kW/o7.
- c) 10% rebated in total bill amount will be given to the Government of Nepal approved Industrial Districts, if the bill is paid within 21 days of billing date.
- d) If the Crematory House, Governmental Hospital and Health Centers (except Residential Complex or part thereof) under the Government of Nepal pay the bill within 21 days, 20 percent rebate will be given in total bill amount.
- e) Consumers supplied at High Voltage (66 KV or above) and Medium Voltage (33 KV and 11 KV) should compulsorily install ToD Meter.
- f) If New Additional Consumers applying for 11 KV supply are to be supplied at 33 KV, they will be charged as per 11 KV Tariff Structure.

PUBLICATION COMMITTEE



Ramji Bhandari Director Co-ordinator



Balaram Silwal Joint Director Member



Jagadish Chandra Joshi Deputy Manager Member



Umesh Kumar Bhandari Deputy Director Member



Bijaya Sen Khadka Assistant Manager Member-Secretory



Pramila Chaudhary Engineer Member



Milana Prajapati Engineer Member



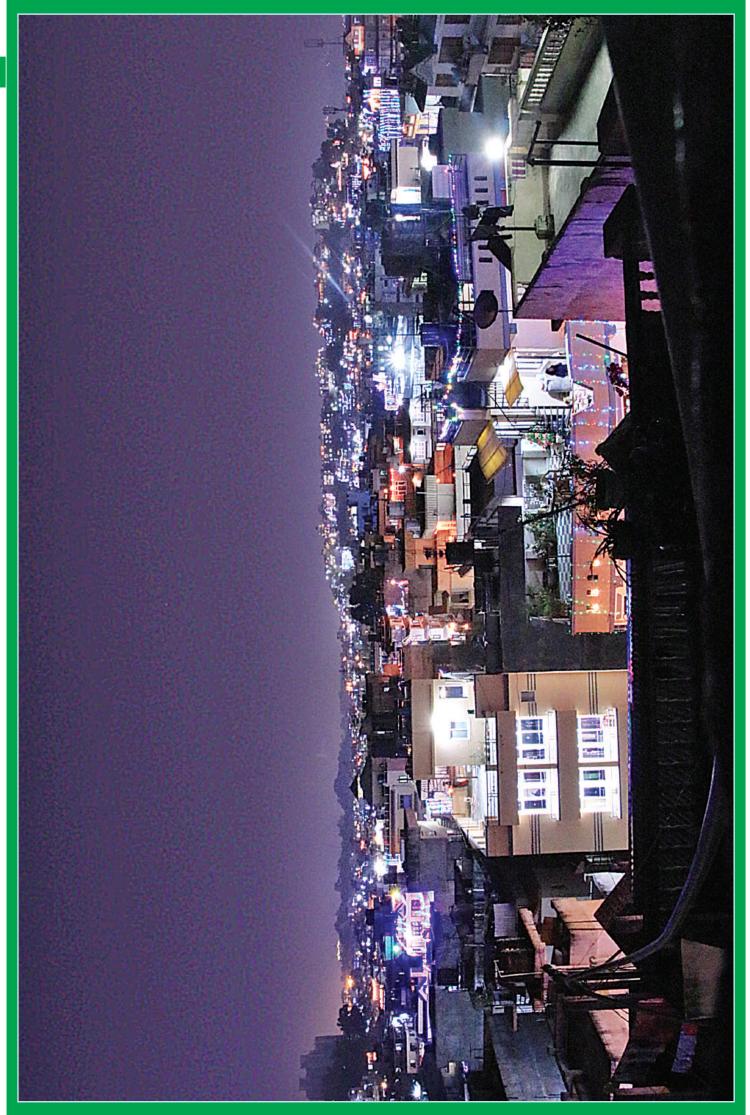
Prabin Dhakal Engineer Member



Suraj Dhungel Engineer Member



Bhola Nath DhunganaAsst. Computer Officer
Member



Night View of Kathmandu Valley on the day of Laxmi Puja

