

Electric Fund Summary

Revenue

Charges for Services: Revenues are forecasted based upon our 2021 Rate Study data provided by our rate consultant and further adjusted for noted changes in consumption patterns. In total, our forecasted 2022 Charges for Services decreased by \$6,002,040 from Charges for Services budgeted for FY 2021. The projection for gross revenue from customers in FY 2022 is \$124,195,850.

Expenditures

Administration Services: Decrease of \$91,240 primarily due to decrease in Management Consulting Services.

Engineering: Decrease of \$25,630 due to a decrease in salaries expense.

Distribution: Decrease of \$173,040 due to a decrease in contractors' expense.

Meters: Increase of \$8,550 due to an increase in wages as well as equipment and small tools.

Substations: Increase of \$244,200 due to an increase in contractors' expense.

Generators: Decrease of \$243,720 for equipment maintenance and repairs as well as contractors.

Utility Administrative Services: Decrease of \$14,720 for in travel and training expenses.

Support Services: Decrease of \$17,430 due to decrease in materials and supplies.

Debt Service: \$202,230 increase represents debt service for general obligation bonds

Source of Supply: Purchased Power costs are projected to decrease \$5,648,550.

Capital Expenses:

Regular Capital

- Purchase of Transformers: \$780,000
- Existing capital leases: \$238,870
- Purchase of electric meters and sockets: \$132,920

Projects

- Substation Upgrades: \$6,000,000
- Line Rebuilds/25kV Conversion: \$551,240
- AEP Fourth Delivery Point – West Fork Substation: \$1,000,000
- Ballou Substation: \$1,000,000

Adopted Budget - FY 2022

Electric

Calculation of Contribution to(from) Fund Balance/General Fund

	Adopted Budget FY 2021	Adopted Budget FY 2022
Estimated Revenue		
Rev-Use Money/Property	1,564,180	1,393,940
Charges for Services	128,343,950	122,341,910
Miscellaneous Revenue	130,000	455,000
Recovered Cost	5,970	5,000
Non-Revenue Receipts	0	0
Total Estimated Revenue	130,044,100	124,195,850
Operating Expenses		
Administration Services	6,338,960	6,535,880
Utility Administrative Services	1,296,970	1,362,920
Support Services	338,100	320,670
Engineering	1,044,490	1,018,860
Distribution	109,613,840	104,127,340
Meters	383,580	392,130
Transmissions	175,000	191,000
Substations	1,336,680	1,584,300
Hydro-Electric Plant	978,580	0
Generators	368,720	125,000
Customer Services	0	0
Capital Expenses	3,306,680	3,638,070
Capital Projects	0	551,240
Total Operating Expenses	125,181,600	119,847,410
Net Operating Income (Loss)	4,862,500	4,348,440
Add:		
Depreciation	8,871,610	8,980,360
Deduct:		
Debt Service Principal	3,152,550	3,354,780
Capital Expenditures from Current Operating Funds	0	0
Contribution to City's General Fund	10,429,610	10,572,610
Contribution To(From) Retained Earnings	151,950	(598,590)

ELECTRIC FUND
ADOPTED - CAPITAL & SPECIAL PROJECTS - FY 2022-2026

Detail Page No.	Project/Source	PL#	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	5 Yr Total
	Distribution							
3-70	Line Rebuilds/25 kV Conversion	60654	\$ 551,240	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 6,551,240
	Distribution Total		\$ 551,240	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 6,551,240
	Substations							
	Ballou Substation		\$ 1,000,000	\$ 1,000,000	\$ -	\$ -	\$ -	\$ 2,000,000
3-71	Substation Upgrades	61029	6,000,000	3,000,000	3,000,000	3,000,000	-	15,000,000
	Substations Total		\$ 7,000,000	\$ 4,000,000	\$ 3,000,000	\$ 3,000,000	\$ -	\$ 17,000,000
	Transmission							
3-72	AEP Fourth Delivery Point - West Fork	61251	\$ 1,000,000	\$ 1,000,000	\$ -	\$ -	\$ -	\$ 2,000,000
	Transmission Total		\$ 1,000,000	\$ 1,000,000	\$ -	\$ -	\$ -	\$ 2,000,000
	Fund Total		\$ 8,551,240	\$ 6,500,000	\$ 4,500,000	\$ 4,500,000	\$ 1,500,000	\$ 25,551,240
	Funding Source:							
	Utility Fund Revenues		\$ 551,240	\$ -	\$ -	\$ -	\$ -	\$ 551,240
	Bonds		\$ -	\$ 6,500,000	\$ 4,500,000	\$ 4,500,000	\$ 1,500,000	17,000,000
	Reprogrammed Funds		8,000,000	-	-	-	-	8,000,000
	Total Funding		\$ 8,551,240	\$ 6,500,000	\$ 4,500,000	\$ 4,500,000	\$ 1,500,000	\$ 25,551,240

ELECTRIC FUND
ADOPTED BUDGET - CAPITAL & SPECIAL PROJECTS - FY 2022
FUNDING SOURCES

	Current Revenues	Reprogrammed Funds	Debt Financing	Grants/CIA	Other	Project Total
<u>Distribution</u>						
Line Rebuilds/25kV Conversion	\$ 551,240					\$ 551,240
Total Distribution	\$ 551,240	\$ -	\$ -	\$ -	\$ -	\$ 551,240
<u>Substations</u>						
Ballou Substation		\$ 1,000,000				\$ 1,000,000
Substation Upgrades		6,000,000				6,000,000
Total Substations	\$ -	\$ 7,000,000	\$ -	\$ -	\$ -	\$ 7,000,000
<u>Transmissions</u>						
AEP Fourth Delivery Point-West Fork		\$ 1,000,000				\$ 1,000,000
	\$ -	\$ 1,000,000	\$ -	\$ -	\$ -	\$ 1,000,000
Total Projects:	\$ 551,240	\$ 8,000,000	\$ -	\$ -	\$ -	\$ 8,551,240

Revenue categories for this fund are as follows:

REVENUE – USE OF MONEY/PROPERTY: This revenue category includes:

Interest on Investments – The City's funds are invested in secured accounts in an attempt to earn the highest possible return. Investments earnings are a function of the money marketplace and swings in the revenues reflect higher or lower interest rates.

Rental Income that is offset by vehicle and equipment charges to the divisions for daily and monthly usage and a warehouse administration fee charged to each utility division.

Sale-Salvage and Surplus Property - This revenue represents the sale of surplus vehicles and equipment and funds received from the sale of scrap metal. Also included are income for the lease of real property and pole attachment fees charged to other utility companies for permitting attachment of their utility lines to poles owned and maintained by the City of Danville.

CHARGES FOR SERVICES: This revenue category include consumer fees and is the major revenue source for the Electric Fund. The residential category is the largest part of that revenue stream, representing 37,117 customers. The commercial base represent 4,701 customers and the industrial base has 31 customers. Lighting revenue represents off-street and security lighting sales as well as municipal street lighting. The municipal class represents electricity sold to the City for its municipal facilities. Other revenues in this category include penalties for non-payment and reconnection fees and charges. In FY20, power costs are projected to be lower than in FY19 due to the improved production at Prairie State. This generation asset accounts for approximately 40% of Danville's power supply. Also, PJM capacity costs were lower in FY20 than FY19 due to new generation being built in the PJM territory. This was also be the case in FY21 before returning to average capacity costs in FY22.

MISCELLANEOUS REVENUE: Miscellaneous revenue includes charges to customers who request alternation or expansion of their existing services and for amounts billed to third parties for damages to equipment and infrastructure.

RECOVERED COST: This revenue includes insurance reimbursements and restitution from third parties.

	FY 2019 Actual	FY 2020 Actual	FY 2021 Adopted	FY 2022 Adopted	Increase/ (Decrease)
Revenues:					
Revenue-Use Money & Property	\$ 2,012,606	\$ 1,822,015	\$ 1,564,180	\$ 1,393,940	\$ (170,240)
Charges for Services	117,994,168	116,984,952	128,343,950	122,341,910	(6,002,040)
Miscellaneous Rev	195,986	868,683	130,000	455,000	325,000
Loan Proceeds	189,762	1,482	5,970	5,000	(970)
Totals	\$ 120,392,522	\$ 119,677,132	\$ 130,044,100	\$ 124,195,850	\$ (5,848,250)

Description

The mission of the Electric Fund is to provide reliable and affordable electric service to its customers. The Electric Fund includes the Division of Power and Light and functions as the cost allocation center for the Utilities Department's Administration, Customer Service, and Support Services Divisions that serve the Electric, Gas, Water, Wastewater, and Telecommunications Funds.

Expenditures

The majority of the increase in Cost Allocation represents the Electric Funds reimbursement to the General Fund for Customer Services costs. This division of the Electric Fund has been transferred to the Finance Department, Customer Accounting Division in the amount of \$1,370,590. The balance of the increase reflects the actual increase in other Cost Allocations.

Cost of the Pay Study and Pay-for-Performance are posted to this account to be distributed to operations after final approval of the budget.

	FY 2019 Actual	FY 2020 Actual	FY 2021 Adopted	FY 2022 Adopted	Increase/ (Decrease)
Expenditures					
Personnel Services	\$ 112,140	\$ 162,286	\$ 309,160	\$ 175,420	\$ (133,740)
Employee Benefits	(5,056)	(119,741)	177,970	179,940	1,970
Purchased Services	395,973	402,353	395,310	417,810	22,500
Internal Service	88,567	85,003	59,860	75,590	15,730
Other Operating Exp	979,801	925,913	831,660	916,770	85,110
Cost Allocation	1,404,797	2,758,562	2,636,340	2,705,390	69,050
Depreciation	197,346	205,918	177,810	251,470	73,660
Debt Service	1,618,832	1,577,720	1,580,830	1,470,020	(110,810)
Transfer Out	10,021,610	10,429,610	10,429,610	10,697,610	268,000
Totals	\$ 14,814,010	\$ 16,427,624	\$ 16,598,550	\$ 16,890,020	\$ 291,470

Personnel

Position Title	FY 2019 FTEs	FY 2020 FTEs	FY 2021 FTEs	FY 2022 FTEs
DIVISION DIR OF POWER & LIGHT	1.000	1.000	1.000	1.000
Total	1.000	1.000	1.000	1.000

Description

Electric engineering is responsible for engineering capital and maintenance projects, distribution upgrades, commercial and residential installations and any form of customer service request. The division also assists electric line crews with power restoration.

Expenditures

	FY 2019 Actual	FY 2020 Actual	FY 2021 Adopted	FY 2022 Adopted	Increase/ (Decrease)
Expenditures					
Personnel Services	\$ 438,260	\$ 474,887	\$ 662,010	\$ 636,440	\$ (25,570)
Employee Benefits	64,849	58,162	76,230	83,780	7,550
Purchased Services	106,240	135,769	134,420	134,420	-
Internal Service	43,183	40,949	490	490	-
Other Operating Exp	75,850	82,315	171,340	163,730	(7,610)
Capital Outlay	1,044	1,614	-	-	-
Totals	\$ 729,426	\$ 793,696	\$ 1,044,490	\$ 1,018,860	\$ (25,630)

Personnel

Position Title	FY 2019 FTEs	FY 2020 FTEs	FY 2021 FTEs	FY 2022 FTEs
SENIOR SECRETARY	0.500	0.500	0.500	0.500
SR ELEC GIS/CAD TECHNICIAN	1.000	-	-	-
ELECTRIC ENGINEERING TECH	3.000	3.000	3.000	3.000
ELECTRIC SR ENGINEERING TECH	2.000	2.000	2.000	1.000
ELEC ENG TECH/ COMPLIANCE COOR	1.000	1.000	1.000	1.000
ELECTRIC ENGINEERING TECH MGR	1.000	1.000	1.000	1.000
SENIOR ELECTRIC ENGINEER	-	-	1.000	1.000
ELECTRIC ENGINEER	2.000	2.000	1.000	2.000
ELCTRC DRAFTING/GIS TECH	1.000	1.000	1.000	1.000
Total	11.500	10.500	10.500	10.500

Description

The Electric Distribution Department installs and repairs streetlights and outdoor customer lights, repairs and replaces overhead and underground primary, repairs and replaces poles, conductors, switches and fuses and responds to customer outages twenty four hours per day. The Electric Distribution Department is also responsible for right of way clearing.

The electric distribution system covers approximately 500 square miles including the City and portions of three adjacent counties. Service is provided to approximately 42,000 customer locations through 1,400 miles of 12,470/7,200 volt distribution lines.

Expenditures

	FY 2019 Actual	FY 2020 Actual	FY 2021 Adopted	FY 2022 Adopted	Increase/ (Decrease)
Expenditures					
Personnel Services	\$ 1,362,850	\$ 1,477,725	\$ 1,254,430	\$ 1,349,090	\$ 94,660
Employee Benefits	178,193	168,858	144,470	172,210	27,740
Purchased Services	2,366,774	2,640,984	2,534,720	2,239,520	(295,200)
Internal Service	199,003	143,547	24,500	24,700	200
Other Operating Exp	420,413	430,575	472,260	471,820	(440)
Source of Supply	92,238,654	89,954,446	96,489,660	90,841,110	(5,648,550)
Capital Outlay	5,683	5,180	-	-	-
Depreciation	7,930,890	8,080,257	8,693,800	8,728,890	35,090
Totals	\$ 104,702,460	\$ 102,901,572	\$ 109,613,840	\$ 103,827,340	\$ (5,786,500)

Personnel

Position Title	FY 2019 FTEs	FY 2020 FTEs	FY 2021 FTEs	FY 2022 FTEs
DISPATCHER	1.000	1.000	1.000	1.000
CREW SUPERVISOR	1.000	-	-	-
ELECTRIC GROUNDWORKER	-	0.420	0.420	-
ELECT LINE OH/UG EQUIP OPER	1.400	0.840	0.570	0.840
ELECTRIC LINE TECHNICIAN I	2.520	0.420	2.100	2.520
ELECTRIC LINE TECHNICIAN II	3.360	4.210	2.940	1.260
ELECTRIC LINE TECHNICIAN III	3.360	3.780	3.780	5.460
ELECTRIC LINE CREW SUPERVISOR	2.100	2.100	2.100	2.100
ELECTRIC VEGETATION ROW SUPER	-	0.420	0.420	-
ELECTRC DSTRBTN SUPERINTENDENT	1.000	1.000	1.000	1.000
ELECTRIC RIGHT OF WAY TRIMMER	3.000	1.170	1.260	1.260
INSPECTOR-CONTRACTOR MANAGER	1.000	1.000	2.000	2.000
Total	19.740	16.360	17.590	17.440

Description

Electric substations budgets and accounts for the maintenance, operation, and repair of seventeen substations, twenty one regulator sites and the electronic systems and devices associated with them. Substations' responsibilities also include the systems and software that monitor the electric system and dispatch personnel for maintenance and restoration services within the electric distribution territory. Additionally, electric substations tests and inspects substations and related facilities.

Expenditures

	FY 2019 Actual	FY 2020 Actual	FY 2021 Adopted	FY 2022 Adopted	Increase/ (Decrease)
Expenditures					
Personnel Services	\$ 694,325	\$ 755,434	\$ 742,250	\$ 772,550	\$ 30,300
Employee Benefits	88,461	83,404	87,710	100,010	12,300
Purchased Services	260,076	320,214	521,990	509,970	(12,020)
Internal Service	147,948	115,672	125,830	105,460	(20,370)
Other Operating Expenses	207,862	130,710	227,620	221,310	(6,310)
Capital Outlay	611	1,263	-	-	-
Totals	\$ 1,399,283	\$ 1,406,697	\$ 1,705,400	\$ 1,709,300	\$ 3,900

Personnel

Position Title	FY 2019 FTEs	FY 2020 FTEs	FY 2021 FTEs	FY 2022 FTEs
IT SCADA SYSTEMS ANALYST	-	1.000	1.000	1.000
ELECTRIC GROUNDWORKER	-	0.010	0.010	-
ELECT LINE OH/UG EQUIP OPER	-	0.020	0.020	0.020
ELECTRIC LINE TECHNICIAN I	0.060	0.010	0.050	0.060
ELECTRIC LINE TECHNICIAN II	0.080	0.100	0.070	0.030
ELECTRIC LINE TECHNICIAN III	0.080	0.090	0.090	0.130
ELECTRIC LINE CREW SUPERVISOR	0.050	0.050	0.050	0.050
ELECTRIC VEGETATION ROW SUPER	-	0.010	0.010	-
ELECTRIC SUBSTATION TECHNICIAN	4.000	3.000	3.000	4.000
UTILITY OPERATOR SUPERVISOR	-	-	-	0.600
UTILITY OPERATOR	4.800	4.800	5.400	4.200
ELCTRC SUBSTN SUPERVISOR	-	1.000	1.000	1.000
ELCTRC SUBSTN SUPERINTENDENT	1.000	1.000	-	-
IT SCADA SYSTEMS ANALYST	1.000	-	-	-
ELECTRIC RIGHT OF WAY TRIMMER	-	0.030	0.030	0.030
Total	11.070	11.120	10.730	11.120

Description

The electric metering division is responsible for the maintenance and operation of the automated meter reading information and the physical meters. The team tests, calibrates and removes or installs any meter assigned within the 500 square miles of the system. Additionally, the group is responsible for meter disconnects and reconnects and investigations for meter tampering.

Expenditures

	FY 2019 Actual	FY 2020 Actual	FY 2021 Adopted	FY 2022 Adopted	Increase/ (Decrease)
Expenditures					
Personnel Services	\$ 191,709	\$ 232,843	\$ 265,860	\$ 268,500	\$ 2,640
Employee Benefits	26,218	28,396	32,350	36,260	3,910
Purchased Services	8,915	8,720	12,390	12,390	-
Internal Service	26,853	28,260	30,000	30,000	-
Other Operating Expenses	34,240	27,508	42,980	44,980	2,000
Capital Outlay	2,825	6,420	-	-	-
Totals	\$ 290,760	\$ 332,147	\$ 383,580	\$ 392,130	\$ 8,550

Personnel

Position Title	FY 2019 FTEs	FY 2020 FTEs	FY 2021 FTEs	FY 2022 FTEs
AMI SUPPORT TECHNICIAN	-	1.000	1.000	1.000
ELECTRIC METER TECHNICIAN I	-	-	-	1.000
ELECTRIC METER TECHNICIAN II	2.000	1.000	1.000	1.000
ELECTRIC METER TECHNICIAN III	1.000	2.000	1.000	1.000
ELECTRIC METER SUPERVISOR	1.000	1.000	1.000	1.000
Total	4.000	5.000	4.000	5.000

Description

Electric Hydro section provides 10 MW of peaking power to the City of Danville power distribution grid .This is accomplished by operating hydro-electric generators and related equipment, and inspecting and maintaining facilities, dams, pipeline and reservoirs. Hydro Electric follows the guidelines, policies and regulations set by the Federal Energy Regulatory Commission. The Hydro facility was sold in FY 21 to Northbrook Energy. Operational costs will not continue in future budgets however, purchased power costs will increase due to the need to purchase power from Northbrook Energy.

Expenditures

	FY 2019 Actual	FY 2020 Actual	FY 2021 Adopted	FY 2022 Adopted	Increase/ (Decrease)
Expenditures					
Personnel Services	\$ 349,053	\$ 318,165	\$ 382,160	\$ -	\$ (382,160)
Employee Benefits	45,728	35,556	45,300	-	(45,300)
Purchased Services	192,234	232,790	419,010	-	(419,010)
Internal Service	20,640	20,030	20,540	-	(20,540)
Other Operating Expenses	60,248	60,255	111,570	-	(111,570)
Capital Outlay	278	-	-	-	-
Totals	\$ 668,181	\$ 666,796	\$ 978,580	\$ -	\$ (978,580)

Personnel

Position Title	FY 2019 FTEs	FY 2020 FTEs	FY 2021 FTEs	FY 2022 FTEs
HYDRO-ELECTRIC ATTENDENT	1.000	1.000	1.000	-
HYDRO-ELECTRIC OPERATOR	4.000	4.000	4.000	-
HYDRO-ELECTRIC MAINTENANCE TEC	1.000	1.000	1.000	-
HYDRO-ELECTRIC SUPERINTENDENT	1.000	1.000	1.000	-
Total	7.000	7.000	7.000	-

Description

Electric transmission budgets and accounts for maintenance of the transmission line from the Pinnacles Hydro generation facility to the Westfork substation. Taxes on electric infrastructure and facilities located outside of the City of Danville are also included in electric transmission.

Expenditures

	FY 2019 Actual	FY 2020 Actual	FY 2021 Adopted	FY 2022 Adopted	Increase/ (Decrease)
Expenditures					
Purchased Services	\$ 62,962	\$ 12,118	\$ 75,000	\$ 75,000	\$ -
Other Operating Expenses	97,075	116,451	100,000	116,000	16,000
Totals	\$ 160,037	\$ 128,569	\$ 175,000	\$ 191,000	\$ 16,000

Personnel

There are no employees specifically assigned to electric transmission. Hourly employees may charge a portion of their time to electric transmission through the work order system.

Description

Electric debt service budgets and accounts for the retirement of principal for general obligation bonds for the treatment division of the Electric fund.

Expenditures

	FY 2019 Actual	FY 2020 Actual	FY 2021 Adopted	FY 2022 Adopted	Increase/ (Decrease)
Expenditures					
Debt Service	\$ 2,686,608	\$ 3,041,336	\$ 3,152,550	\$ 3,354,780	\$ 202,230
Totals	\$ 2,686,608	\$ 3,041,336	\$ 3,152,550	\$ 3,354,780	\$ 202,230

Description

The purpose of the Capital Improvement Program is to ensure the orderly expansion or modification to the electric system for improved customer reliability, to allow future growth, and improve operational efficiency. This is accomplished by construction and/ or modifications to the distribution system, transmission system, and substations and implementation of computer applications.

Expenditures

	FY 2019 Actual	FY 2020 Actual	FY 2021 Adopted	FY 2022 Adopted	Increase/ (Decrease)
Expenditures					
Personnel Services	\$ 570,812	\$ 797,960	\$ 1,161,530	\$ 1,105,360	\$ (56,170)
Employee Benefits	76,668	93,329	141,100	151,920	10,820
Purchased Services	7,833,386	7,058,083	40,000	790,000	750,000
Internal Service	118,565	132,008	1,000	-	(1,000)
Other Operating Exp	4,444,557	5,549,361	1,593,520	1,347,920	(245,600)
Capital Outlay	148,135	124,668	223,000	4,000	(219,000)
Capital Projects	-	-	-	551,240	551,240
Debt Service	7,329	146,086	146,530	238,870	92,340
Totals	\$ 13,199,452	\$ 13,901,495	\$ 3,306,680	\$ 4,189,310	\$ 882,630

Personnel

While there are no employees exclusively or specifically assigned to capital projects, hourly power and light employees are accounted for within capital projects through our work order system. Full-time Equivalents as budgeted are listed below.

Position Title	FY 2019 FTEs	FY 2020 FTEs	FY 2021 FTEs	FY 2022 FTEs
ELECTRIC GROUNDWORKER	-	0.570	0.570	-
ELECT LINE OH/UG EQUIP OPER	0.600	1.140	1.140	1.140
ELECTRIC LINE TECHNICIAN I	3.420	0.570	2.850	3.420
ELECTRIC LINE TECHNICIAN II	4.560	5.700	3.990	1.710
ELECTRIC LINE TECHNICIAN III	4.560	5.130	5.130	7.410
ELECTRIC LINE CREW SUPERVISOR	2.850	2.850	2.850	2.850
ELECTRIC VEGETATION ROW SUPER	-	0.570	0.570	-
ELECTRIC RIGHT OF WAY TRIMMER	-	1.710	1.710	1.710
Total	15.990	18.240	18.810	18.240

Description

Electric Non-Capital accounts for Home\$ave, Danville Utilities' residential energy efficiency rebate program and Custom\$ave, Danville Utilities' commercial and industrial energy efficiency rebate program. In addition, to rebates, advertising, promotion and contractor expenses are accounted for within Electric Non-Capital. In Fiscal 2019, funding for the program was sourced from unexpended balances of closed capital projects.

Expenditures

	FY 2019 Actual	FY 2020 Actual	FY 2021 Adopted	FY 2022 Adopted	Increase/ (Decrease)
Expenditures					
Purchased Services	\$ 262,590	\$ 186,809	\$ -	\$ -	\$ -
Other Operating Exp	421	287	-	-	
Debt Service	203,563	182,556	-	-	-
Totals	\$ 466,574	\$ 369,652	\$ -	\$ -	\$ -

Personnel

There are no employees accounted for within "Electric Non Capital" however the Key Accounts Manager administers Home\$ave and Custom\$ave, our energy efficiency programs.

Description

Utilities administration is responsible managing and providing leadership to all five utilities. Additional responsibilities include leveraging opportunities to make improvements to the City's water, wastewater treatment, natural gas, electric and telecommunication systems to benefit all ratepayers.

Expenditures

	FY 2019 Actual	FY 2020 Actual	FY 2021 Adopted	FY 2022 Adopted	Increase/ (Decrease)
Expenditures					
Personnel Services	\$ 801,222	\$ 840,860	\$ 820,160	\$ 914,230	\$ 94,070
Employee Benefits	117,801	105,540	104,950	158,730	53,780
Purchased Services	487,182	357,104	794,080	752,550	(41,530)
Internal Service	38,047	60,487	42,070	40,480	(1,590)
Other Operating Expenses	129,222	94,061	146,900	122,320	(24,580)
Cost Allocation	(272,533)	(307,490)	(280,000)	(297,000)	(17,000)
Capital Outlay	3,668	471	930	2,250	1,320
Debt Service	-	-	126,000	158,500	32,500
Reimbursement	50,000	50,000	50,000	50,000	-
Totals	\$1,354,609	\$ 1,201,033	\$ 1,805,090	\$ 1,902,060	\$ 96,970

Personnel

Position Title	FY 2019 FTEs	FY 2020 FTEs	FY 2021 FTEs	FY 2022 FTEs
PUBLIC INFORMATION OFFICER	1.000	1.000	1.000	1.000
ASSISTANT CITY ATTORNEY I	-	-	-	0.500
APPLICATIONS SPECIALIST IV	1.000	1.500	1.000	1.000
APPLICATIONS SPECIALIST I	-	-	-	0.500
ENERGY AUDITOR	-	-	-	1.000
SENIOR SECRETARY	1.000	1.000	1.000	1.000
KEY ACCOUNTS MANAGER	1.000	1.000	1.000	1.000
DIRECTOR OF UTILITIES	1.000	1.000	1.000	1.000
SENIOR ACCOUNT CLERK	2.000	2.000	2.000	2.000
ACCOUNTANT II	1.000	1.000	1.000	1.000
TRAINING & SAFETY MANAGER	1.000	1.000	1.000	1.000
WAREHOUSE STOCK CLERK	3.000	3.000	3.000	3.000
UTILITIES WAREHOUSE MANAGER	1.000	1.000	1.000	1.000
DIVISN DIR OF SUPPORT SERVICES	1.000	1.000	1.000	1.000
FACILITY & FLEET MGR	-	-	1.000	-
SYSTEM ANALYST	-	-	0.500	-
Total	14.000	14.500	14.000	16.000

Description

This activity has been reassigned to the Finance Department, Customer Accounting Division in the General Fund. The Electric Fund reimburses the General Fund for the cost of this activity. See Electric Administration, Cost Allocation.

Expenditures

	FY 2019 Actual	FY 2020 Actual	FY 2021 Adopted	FY 2022 Adopted	Increase/ (Decrease)
Expenditures					
Personnel Services	\$ 532,908		\$ -	\$ -	\$ -
Employee Benefits	173,353		-	-	-
Purchased Services	179,365		-	-	-
Internal Service	18,034		-	-	-
Other Operating Expenses	601,828		-	-	-
Capital Outlay	5,309		-	-	-
Debt Service	15,106		-	-	-
Totals	\$ 1,525,903	\$ -	\$ -	\$ -	\$ -

Personnel

Effective FY 2020 Personnel have been reassigned to the Finance Department, Customer Accounts Division.

Position Title	FY 2019 FTEs	FY 2020 FTEs	FY 2021 FTEs	FY 2022 FTEs
DIVISN DIR OF CUSTOMER SERVICE	1.000	-	-	-
CUSTOMER SERVICE REPRESENTATIV	8.000	-	-	-
SR CUS SERVICE/TRAINING REP	1.000	-	-	-
UTILITY BILLING CLERK	3.000	-	-	-
UTILITY SPECIAL BILLING CLERK	2.000	-	-	-
SENIOR UTILITY BILLING CLERK	1.000	-	-	-
AMI SUPPORT TECHNICIAN	1.000	-	-	-
TOTAL	17.000	-	-	-

FY 2022 FIVE-YEAR CAPITAL & SPECIAL PROJECTS PLAN
PROJECT DESCRIPTION

Project Title: Line Rebuilds/25 kV Conversion
Project No: 60613

Department: Utilities
Division: Power & Light
Section: Distribution

Description:

Rebuilds and Reconductoring or three phasing of various line sections will allow Danville Utilities to remediate loading and/or service problems, allow for areas to be alternately fed, and support future growth. The work for 25kV voltage conversion will reinsulate various line sections for operation at 25 kV. The project will help address the utility's low load density service territory to the east, west and north. The lines in these areas have small conductors with four to nine mile tap lines and high customer counts. The traditional means of reconductoring multi-phasing lines to address growth and quality of service are not cost effective at \$170,000 per mile. Reinsulating these areas to operate at 25kV/14.4 V is forecasted at \$10 - \$12 thousand per mile.

Justification:

Line rebuilds and reconductoring will provide electrical capacity for alternate feeds and to support future growth. The 25kV reconductoring work will improve the voltage profile and decrease load and losses on the circuit.

Comments:

N/A

Funding		FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Utility Revenues		551,240	-	-	-	-	551,240
Bonds		-	1,500,000	1,500,000	1,500,000	1,500,000	6,000,000
Total Funding Sources		551,240	1,500,000	1,500,000	1,500,000	1,500,000	6,551,240

Goals/Milestones:

FY 2022	Construct System improvements to maintain level of service and reliability standards
FY 2023	Construct System improvements to maintain level of service and reliability standards
FY 2024	Construct System improvements to maintain level of service and reliability standards
FY 2025	Construct System improvements to maintain level of service and reliability standards
FY 2026	Construct System improvements to maintain level of service and reliability standards

FY 2022 FIVE-YEAR CAPITAL & SPECIAL PROJECTS PLAN
PROJECT DESCRIPTION

Project Title: Ballou Substation
Project No: TBD

Department: Utilities
Division: Power & Light
Section: Transmission

Description:

Ballou substation built on repurposed AEP Dan River Substation site. The site will be fed by a existing AEP 69 kV transmission line and metered at the Ballou Substation site.

Justification:

Primary purpose is for increased load demand of casino project but additional feeders will be added to allow switching loads from Schoolfield and Southside if needed for system maintenance or outages.

Comments:

This project will be started Q4 FY22 and finish Q2 FY23 (Dec 2022).

Funding		FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Reprogrammed Funds		1,000,000		-	-	-	1,000,000
Bonds		-	1,000,000	-	-	-	1,000,000
Total Funding Sources		1,000,000	1,000,000	-	-	-	2,000,000

Goals/Milestones:

FY 2022	Purchase new substation transformer and equipment. Complete engineering and design of substation modifications.
FY 2023	Modify substation to new design to be able to serve new casino and hotel.
FY 2024	N/A
FY 2025	N/A
FY 2026	N/A

FY 2022 FIVE-YEAR CAPITAL & SPECIAL PROJECTS PLAN

PROJECT DESCRIPTION

Project Title: Substation Upgrades

Project No: 61029

Department: Utilities

Division: Power & Light

Section: Substations

Description:

This project provides for the evaluation and replacement or rehabilitation of all substation transformers. This project proposes to rebuild substations to open air configuration due to age and equipment failure. Substations will be systematically evaluated and rehabilitated.

Justification:

Most of the substation transformers were installed in the 1970s. Many are approaching or have exceeded their life expectancy of thirty years. This project will initially evaluate the transformers and identify and prioritize potential problems. Additional subprojects will be developed for each replacement or rehabilitation.

Comments:

Reprogrammed funds - proceeds from sale of Hydro Facility
Proposed order of construction is based on age and independent substation evaluation
FY2022 Southside, Westover
FY2023- New Design

Funding		FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Bonds		-	3,000,000	3,000,000	3,000,000	-	9,000,000
Reprogrammed Funds		6,000,000	-	-	-	-	
Total Funding Sources		6,000,000	3,000,000	3,000,000	3,000,000	-	9,000,000

Goals/Milestones:

FY 2022	Systematically replace the aged power transformer infrastructure identified in the study
FY 2023	Systematically replace the aged power transformer infrastructure identified in the study
FY 2024	Systematically replace the aged power transformer infrastructure identified in the study
FY 2025	Systematically replace the aged power transformer infrastructure identified in the study
FY 2026	N/A

FY 2022 FIVE-YEAR CAPITAL & SPECIAL PROJECTS PLAN
PROJECT DESCRIPTION

Project Title: AEP Fourth Delivery Point - West Fork
Project No: TBD

Department: Utilities
Division: Power & Light
Section: Transmission

Description:

System studies have indicated a need for a fourth delivery point on the west side of the City's electric service territory. AEP has completed their system impact study and determined the likely route to serve an interconnection point at West Fork substation. The interconnection would be a 138 kV transmission line that AEP would be responsible for building at their expense. The City would be required to acquire additional land for the interconnection and a new 138kV/69kV transformer.

Justification:

The project would increase reliability and allow for more flexibility when conducting maintenance on the system. During Hurricane Michael, the City lost two out of three interconnection points on AEP system because of faults on their system. This would allow for a fourth interconnection point out of a separate AEP substation 15 miles away from the closest City delivery point.

Comments:

N/A

Funding		FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Reprogrammed Funds		1,000,000	-	-	-	-	1,000,000
Bonds		-	1,000,000	-	-	-	
Total Funding Sources		1,000,000	1,000,000	-	-	-	1,000,000

Goals/Milestones:

FY 2022	Design substation expansion, purchase additional property and order long lead time equipment
FY 2023	Construct new fourth delivery point on west side of electric territory
FY 2024	N/A
FY 2025	N/A
FY 2026	N/A