



OVER 125 YEARS OF SERVICE

BUDGET

2021

12/3/2020

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MGED
Budget 2021 - Cash Flow and Projected Balances

	A	B	C	D	E = A:D	
	Operating Cash	Pension Cash	Depreciation Cash	ReserveTrust Cash	Total Cash	Net Income
January 1, 2021 Cash balances	\$27,000,000	\$8,000,000	\$5,200,000	\$6,900,000	\$47,100,000	
Income Before-Deprec & Pension	3,877,000	100,000	100,000	100,000	4,177,000	\$4,177,000
(Use) Source of cash: OPEB-GASB 45 Catch Up Change in working capital	<u>(500,000)</u>				<u>(500,000)</u>	0
Operating Cash Flow	3,377,000	100,000	100,000	100,000	3,677,000	
Fund Depreciation Cash at Town @ 5% Capital expenditures (Note-A below)	(4,270,000)		4,270,000 <u>(7,274,000)</u>		<u>(7,274,000)</u>	(4,270,000)
2021 Cash flow, net	(893,000)	100,000	(2,904,000)	100,000	(3,597,000)	
Net income before rate stabilization adjstmnt 4% rate stabilization adjustment (RSA) 2020 Net income @ 4% - ROR						(93,000) <u>1,900,000</u> <u>\$1,807,000</u>
December 31, 2021 Cash balances	\$26,107,000	\$8,100,000	\$2,296,000	\$7,000,000	\$43,503,000	

4% Rate Stabilization Balances:	Projected 2020	2021 Inc (Dec)	Balance 2021
Electric RSA	3,077,000	(1,800,000)	1,277,000
Gas RSA	2,675,000	(100,000)	2,575,000
Total RSA	<u>\$5,752,000</u>	<u>(\$1,900,000)</u>	<u>\$3,852,000</u>

Capital Work:	Note-A
Electric	5,183,000
Gas	1,761,000
Office	330,000
Total Capital Exp	<u>\$7,274,000</u>

MIDDLEBOROUGH GAS AND ELECTRIC
BUDGETED STATEMENT OF OPERATIONS

COMBINED (ELECTRIC & GAS)

	FYE 12/31/2021	Cash Basis	4% Rate Stabilization Adjustment	After 4% RSA
Operating Revenue		\$ 47,706,000		\$ 47,706,000
Forfeited Customer Discounts		400,000		400,000
<hr/>				
Total Operating Revenue		48,106,000		48,106,000
Gas and Power Supply Costs		29,606,000	(1,900,000)	27,706,000
<hr/>				
Profit Margin		18,500,000	1,900,000	20,400,000
Less:				
Depreciation Expense @	5%	4,270,000		4,270,000
O&M Expense		7,025,000		7,025,000
G&A Expense		7,050,000		7,050,000
<hr/>				
Total Expense		18,345,000		18,345,000
Net Other Income		521,000		521,000
<hr/>				
Operating Income		676,000	1,900,000	2,576,000
In Lieu of Tax Payment		765,000		765,000
<hr/>				
Combined Net Income		(\$89,000)	\$1,900,000	\$1,811,000
<hr/>				
Projected Gross plant				96,248,000
% of Oper Income / Gross Plant				2.7%

4% Rate Stabilization History:	Inc (Dec)	Y/E Balance
2019 Actual		5,002,000
2020 Forecast	750,000	5,752,000
2021 Budget	(1,900,000)	3,852,000

MIDDLEBOROUGH GAS AND ELECTRIC
BUDGETED STATEMENT OF OPERATIONS

ELECTRIC DIVISION

FYE 12/31/2021

	Cash Basis	4% Rate Stabilization Adjustment	After 4% RSA
Operating Revenue	\$ 38,169,000		\$38,169,000
Forfeited Customer Discounts	300,000		300,000
<hr/>			
Total Operating Revenue	38,469,000		38,469,000
Power Supply Costs	24,420,000	(1,800,000)	22,620,000
<hr/>			
Profit Margin	14,049,000	1,800,000	15,849,000
Margin in cents/kwh	5.1		5.8
 Less:			
Depreciation Expense @ 5%	3,352,000		3,352,000
O&M Expense	4,928,000		4,928,000
G&A Expense (80%)	5,707,000		5,707,000
<hr/>			
Total Expense	13,987,000		13,987,000
Net Other Income	251,000		251,000
<hr/>			
Operating Income	313,000	1,800,000	2,113,000
In Lieu of Tax Payment	612,000		612,000
<hr/>			
Electric Net Income	(\$299,000)	\$1,800,000	\$1,501,000
<hr/>			
Projected Gross plant	76,034,000		76,034,000
% of Oper Income / Gross Plant	0.4%		2.8%

4% Rate Stabilization History:	Inc (Dec)	Y/E Balance
2019 Actual		3,427,000
2020 Forecast	(350,000)	3,077,000
2021 Budget	(1,800,000)	1,277,000

MIDDLEBOROUGH GAS AND ELECTRIC
BUDGETED STATEMENT OF OPERATIONS

GAS DIVISION

FYE 12/31/2021

	Cash Basis	4% Rate Stabilization Adjustment	After 4% RSA
Operating Revenue	\$9,537,000		\$9,537,000
Forfeited Customer Discounts	100,000		100,000
<hr/>			
Total Operating Revenue	9,637,000		9,637,000
Gas Supply Costs	5,186,000	(100,000)	5,086,000
<hr/>			
Profit Margin	4,451,000	100,000	4,551,000
Margin in cents/ccf	65.4		66.8
 Less:			
Depreciation Expense @ 5%	918,000		918,000
O&M Expense	2,097,000		2,097,000
G&A Expense (20%)	1,343,000		1,343,000
<hr/>			
Total Expense	4,358,000		4,358,000
Net Other Income	270,000		270,000
<hr/>			
Operating Income	363,000	100,000	463,000
Less: In Lieu of Tax Payment	153,000		153,000
<hr/>			
Gas Net Income	\$210,000	\$100,000	\$310,000
<hr/>			
Projected Gross plant	20,214,000		20,214,000
% of Oper Income / Gross Plant	1.8%		2.3%

4% Rate Stabilization History and Projection:	Inc (Dec)	Y/E Balance
2019 Actual		1,575,000
2020 Forecast	1,100,000	2,675,000
2021 Budget	(100,000)	2,575,000

BUDGETED STATEMENT OF OPERATIONS

COMPARATIVE STATEMENT

FYE 12/31/2021

<u>COMBINED</u>	BUDGET 2020		FORECAST 2020	BUDGET 2021 Before Plant (RSA)		B-2021 VS. B-2020
Gross Revenues	\$48,231,000		\$47,575,000	\$48,106,000		0%
Gas & Power Supply Costs	30,031,000		29,068,000	29,606,000		-1%
Profit Margin	18,200,000		18,507,000	18,500,000		2%
O&M Expenses	6,208,000		6,252,000	7,025,000		13%
G&A Expenses	6,805,000		6,095,000	7,050,000		4%
Depreciation	3,958,000		3,953,000	4,270,000		8%
Total Delivery Expense	16,971,000		16,300,000	18,345,000		8%
Other Income	521,000		620,000	521,000		0%
In Lieu of Tax Payment	750,000		700,000	765,000		2%
Net Income	1,000,000		2,127,000	-89,000		
<u>ELECTRIC</u>						
Sales # kwh	275,000,000		275,000,000	273,000,000		
		¢/kWh			¢/kWh	
Gross Revenues	\$38,750,000	0.141	\$38,537,000	\$38,469,000	0.141	-1%
Power Supply Costs	25,061,000	0.091	24,939,000	24,420,000	0.089	-3%
Profit Margin	13,689,000	0.050	13,598,000	14,049,000	0.051	3%
O&M Expense	4,299,000		4,491,000	4,928,000		15%
G&A Expense (80%)	5,501,000		4,583,000	5,707,000		4%
Depreciation	3,077,000		3,071,000	3,352,000		9%
Total Delivery Expense	12,877,000		12,145,000	13,987,000		9%
Operating income	812,000		1,453,000	62,000		
Other Income	251,000		350,000	251,000		0%
In Lieu of Tax Payment	600,000		525,000	612,000		2%
Net Income	463,000		1,278,000	-299,000		-165%
<u>GAS</u>						
Sales # ccf Firm	6,700,000		6,611,000	6,810,000		
		\$/ccf			\$/ccf	
Gross Revenues - Firm	\$9,481,000	1.415	\$9,038,000	\$9,637,000	1.415	2%
Gas Supply Costs - Firm	4,970,000	0.742	4,129,000	5,186,000	0.762	4%
Profit Margin	4,511,000	0.673	4,909,000	4,451,000	0.654	-1%
O&M Expense	1,909,000		1,761,000	2,097,000		10%
G&A Expense (20%)	1,304,000		1,512,000	1,343,000		3%
Depreciation	881,000		882,000	918,000		4%
Total Delivery Expense	4,094,000		4,155,000	4,358,000		6%
Operating income	417,000		754,000	93,000		
Other Income & IT	270,000		270,000	270,000		0%
In Lieu of Tax Payment	150,000		175,000	153,000		2%
Net Income	\$537,000		\$849,000	\$210,000		-61%

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

2021 DEPARTMENT BUDGET

<u>ELECTRIC:</u>	2020 BUDGET	2021 BUDGET	% CHANGE	2020 FORECAST
Budgeted Revenues	\$38,750,000	\$38,469,000	-0.7%	\$38,537,000
Budgeted kWh Sales	275,000,000	273,000,000	-0.7%	275,000,000
Budgeted Revenue Cents/kWh	14.09	14.09	0.0%	14.01

Note A: In January 2020, PPA decreased from .02 to .015 cents/kwh
 In August 2018, PPA increased from .01 to .02 cents/kwh
 In January 2018, PPA increased from 0 to .01 cents/kwh
 In Nov 2014 revised rate structure implemented, PPA decreased to zero from 7.03 cents/kwh

<u>GAS:</u>	2020 BUDGET	2021 BUDGET	% CHANGE	2020 FORECAST
Firm Budgeted Revenues	\$9,481,000	\$9,637,000	1.6%	\$9,038,000
Firm-Sales in CCF	6,700,000	6,810,000	1.6%	6,611,000
Budgeted Revenues/CCF	\$1.415	\$1.415	0.0%	\$1.37

Note A: In Feb 2019 the PGA was increased by .1500 to .5526 from .4026 cents.
 In Nov 2016 the PGA was decreased by .1500 to .4026 from .5526 cents.
 In Nov 2015 the PGA was decreased by .1000 to .5526 from .6526 cents.

	base	ppc	Total
kwh#	\$0.0419	\$0.09900	\$0.1409
273,000,000	\$11,438,700	\$27,027,000	\$38,469,000

El (Post PPA ↓)	Jan-Dec
Firm	\$38,468,200
kwh	273,000,000
average	0.1409
PPC	0.0990
base	0.0419

	ccf	Base Price	PGA	Total
Base	6,810,000	\$0.862	\$0.55260	\$1.41500
Growth	0	0	0	0
Total	6,810,000	\$5,872,944	\$3,763,206	\$9,637,000
				1.42

Gas	Budget
Firm	\$9,636,650
ccf	6,810,000
average	1.4150
pga	0.5526
base	0.8624

PROJECTED RATE OF RETURN:		Before 4% ROR	After 4% ROR
COMBINED:	Operating income *	\$ 676,000	\$ 2,576,000
	Plant, at cost	\$ 96,248,000	\$ 96,248,000
	% Return	0.7%	2.7%
ELECTRIC:	Operating income *	\$ 313,000	\$ 2,113,000
	Plant, at cost	\$ 76,034,000	\$ 76,034,000
	% Return	0.4%	2.8%
GAS:	Operating income *	\$ 363,000	\$ 463,000
	Plant, at cost	\$ 20,214,000	\$ 20,214,000
	% Return	1.8%	2.3%

Operating income * is before reduction for Payment in Lieu of Tax and after 4% plant adjustment of \$765,000
 \$1,900,000

2021 Power Supply Budget

	2020 Budget					2021 Budget				
	Capacity	Energy	Capacity	Total Cost	Average	Capacity	Energy	Capacity	Total Cost	Average
	(MW)	(MWh)	(%)	(\$)	(%/MWh)	(MW)	(MWh)	(%)	(\$)	(%/MWh)
<u>Base Load</u>										
NYPA	2.2	14,587	75.7%	\$180,000	\$12.34	2.2	14,587	75.7%	\$180,000	\$12.34
Seabrook	6.27	49,622	90.3%	1,490,000	\$30.03	6.27	49,500	90.1%	1,401,000	\$28.30
Millstone 3	1.30	10,150	89.1%	384,000	\$37.83	1.30	11,100	97.5%	422,000	\$38.02
Next Era Load Following		193,842		9,791,000	\$50.51		131,579		7,278,000	\$55.31
Subtotal	9.77	268,201		\$11,845,000	\$44.16	9.77	206,766		9,281,000	\$44.89
<u>Intermediate</u>										
ISO Interchange		(11,089)		(\$626,000)	\$56.45		25,500		\$531,000	\$20.82
Stony Brook Combined Cycle	7.00	4,415	7.2%	858,000	\$194.34	7.00	4,303	7.0%	603,000	\$140.13
Saddleback Ridge	2.24	6,964	35.5%	578,000	\$83.00	2.24	6,964	35.5%	571,000	\$81.99
Solar	10.30	13,566	15.0%	981,000	\$72.31	10.30	13,676	15.2%	1,056,000	\$77.22
FirstLight Hydro	1.00	4,840	55.3%	244,000	\$50.41	6.19	28,099	51.8%	1,444,000	\$51.39
Wyman 4										
Subtotal	20.54	18,696		\$2,035,000	\$108.85	25.73	78,542		4,205,000	\$53.54
<u>Peaking</u>										
Stony Brook Peaking	7.89	103	0.1%	210,000	\$2,038.83	7.89	692	1.0%	\$283,000	\$408.96
Forward Capacity	70.42			5,430,000		67.05			4,767,000	\$5.92
Subtotal	78.31	103		\$5,640,000		74.94	692		5,050,000	
<u>Transmission</u>				\$5,154,000					\$5,497,000	
<u>Other Supply Expenses</u>				\$387,000					\$387,000	
<u>Total Power Supply</u>	108.62	287,000	30.2%	\$25,061,000	\$87.32	110.44	286,000	29.6%	\$24,420,000	\$85.38

MIDDLEBOROUGH GAS AND ELECTRIC
BUDGETED POWER SUPPLY - ELECTRIC

FYE. 12/31/2021

ACCOUNT NUMBER	UNIT	2020 BUDGET	2020 FORECAST	2021 BUDGET	BUDGET 21 to BUDGET 20 % CHANGE	BUDGET 21 to FORECAST % CHANGE
555105	Stonybrook Intermediate	\$ 858,000	\$ 325,000	\$ 603,000	-30%	86%
555106	Stonybrook Peaking	210,000	185,000	283,000	35%	53%
555107	Wyman #4	0	0	0	-	-
555108	ISO/NextEra/Capacity	14,595,000	15,588,000	12,576,000	-14%	-19%
555109	Vermont Yankee	-	-	-		
555115	Solar RBB/PPA, Wind, Genset	1,803,000	1,965,000	3,071,000	70%	56%
555117	NYPA (PASNY)	180,000	187,000	180,000	0%	-4%
555118	Nuclear Project 3-Millstone 3	250,000	294,000	271,000	8%	-8%
555119	Nuclear Mix 1-Mill 3/Seabrook	143,000	162,000	164,000	15%	1%
555124	Nuclear Project 4-Seabrook	1,029,000	1,002,000	964,000	-6%	-4%
555125	Nuclear Project 5-Seabrook	46,000	44,000	43,000	-7%	-2%
555126	Nuclear Project 6-Seabrook	406,000	394,000	381,000	-6%	-3%
	Total 555	19,520,000	20,146,000	18,536,000	-5%	-8%
556100	Stranded Cost Provision	-	-	-	0%	0%
557100	Other Power Expense	387,000	320,000	387,000	0%	21%
558100	Decommissioning Expense	-	-	-		
	Total 556/557/558	387,000	320,000	387,000	0%	21%
565100	Transmission By Others	5,154,000	4,473,000	5,497,000	7%	23%
	Total Power Costs	\$ 25,061,000	\$ 24,939,000	\$ 24,420,000	-3%	-2%
	kWh Sold	275,000,000	275,000,000	273,000,000	-1%	-1%
	Cost/kWh Sold	0.091	0.091	0.089	-2%	-1%
	kWh Bot	287,000,000	287,000,000	286,000,000	0%	0%
	Cost/kWh Bot	0.087	0.087	0.085	-2%	-2%

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

POWER SUPPLY EXPENSE

FYE. 12/31/2021

DIVISION:	Electric	G/L ACCOUNT #:	555105
ACCOUNT TITLE:	Purchased Power Expense - Stonybrook Intermediate		

ACCOUNT HISTORY

2020 BUDGET	2020 FORECAST	2021 BUDGET
\$ 858,000	\$ 325,000	\$ 603,000

ACCOUNT
DESCRIPTION:

Purchased power expense for the above
unit for the period January - December 2021

EXPLANATION OF 2021
BUDGET PROJECTION

StonyCC Gas Capacity	\$ 203,000
StonyCC Oil Capacity	97,000
StonyCC Gas Energy	103,000
StonyCC Oil Energy	<u>200,000</u>
Total	<u><u>603,000</u></u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

POWER SUPPLY EXPENSE

FYE. 12/31/2021

DIVISION:	Electric	G/L ACCOUNT #:	555106
ACCOUNT TITLE:	Purchased Power Expense - Stonybrook Peaking		

ACCOUNT HISTORY

	2020 BUDGET	2020 FORECAST	2021 BUDGET
	\$ 210,000	\$ 185,000	\$ 283,000

ACCOUNT
DESCRIPTION:

Purchased power expense for the above
unit for the period January - December 2021

EXPLANATION OF 2021
BUDGET PROJECTION

Capacity	\$ 187,000
Energy	<u>96,000</u>
Total	<u><u>283,000</u></u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

POWER SUPPLY EXPENSE

FYE. 12/31/2021

DIVISION: Electric	G/L ACCOUNT #:	555107
ACCOUNT TITLE:	Purchased Power Expense - Wyman #4	

ACCOUNT HISTORY

2020 BUDGET	2020 FORECAST	2021 BUDGET
\$ -	\$ -	\$ -

ACCOUNT

DESCRIPTION:

Purchased power expense for the above unit for the period January - December 2021

EXPLANATION OF 2021

BUDGET PROJECTION

Contract terminated July 2019

Capacity	\$ -
Energy	-
Total	<u>0</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

POWER SUPPLY EXPENSE

FYE. 12/31/2021

DIVISION:	Electric	G/L ACCOUNT #:	555108
ACCOUNT TITLE:	Purchased Power Expense - ISO/Open Market Interchange (Nepex)		

ACCOUNT HISTORY

2020 BUDGET	2020 FORECAST	2021 BUDGET
\$ 14,595,000	\$ 15,588,000	\$ 12,576,000

ACCOUNT DESCRIPTION: Purchased power expense for the above unit for the period January - December 2021

EXPLANATION OF 2021 BUDGET PROJECTION

ISO Interchange	531,000
Next Era Load Following	7,278,000
PSE&G Capacity Hedge	0
Forward Capacity Mkt (FCM)	<u>4,767,000</u>
Total	<u><u>12,576,000</u></u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

POWER SUPPLY EXPENSE

FYE. 12/31/2021

DIVISION:	Electric	G/L ACCOUNT #:	555109
ACCOUNT TITLE:	Purchased Power Expense - Vermont Yankee		

ACCOUNT HISTORY

2020 BUDGET	2020 FORECAST	2021 BUDGET
\$ -	\$ -	\$ -

ACCOUNT DESCRIPTION: Contract expired in 2002

EXPLANATION OF 2021
BUDGET PROJECTION

Capacity	\$ -
Energy	-
Total	<u>\$ -</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

POWER SUPPLY EXPENSE

FYE. 12/31/2021

DIVISION:	Electric	G/L ACCOUNT #:	555115
ACCOUNT TITLE:	Purchased Power Expenses - Solar Arrays/Wind/GenSet/Hydro		

ACCOUNT HISTORY

2020 BUDGET	2020 FORECAST	2021 BUDGET
<u>\$ 1,803,000</u>	<u>\$ 1,965,000</u>	<u>\$ 3,071,000</u>

ACCOUNT DESCRIPTION: Purchased power expenses for the resources listed were included with 555108 in 2016

EXPLANATION OF 2021 BUDGET PROJECTION		MW
Solar	MGED Solar	2009 0.02
Solar	RBB Xmas Tree Shops	2013 0.90
Solar	RBB Lakeville CC	2014 0.15
Solar	Renewable Generation LLC	2015 2.90
Wind	Saddleback Ridge	2015 2.48
Gen	MGED Nat Gas Generator	2016 2.00
Solar	IGS Mass Tank	2016 0.46
Solar	EarthCleanSyn I II III	2016 1.68
Solar	GWE Cranberry	2016 1.04
Solar	Everett St. Storage	2018 0.26
Solar	Crosslor Solar	2018 2.70
Hydro	FirstLight	2019 6.19
Solar	MHS	2020 0.18
	Total	20.96
		<u>3,071,000</u>
		<u>\$ 3,071,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

POWER SUPPLY EXPENSE

FYE. 12/31/2021

DIVISION:	Electric	G/L ACCOUNT #:	555117
ACCOUNT TITLE:	Purchased Power Expense - NYPA Peaking		

ACCOUNT HISTORY

2020 BUDGET	2020 FORECAST	2021 BUDGET
<u>\$ 180,000</u>	<u>\$ 187,000</u>	<u>\$ 180,000</u>

ACCOUNT
DESCRIPTION:

EXPLANATION OF 2021
BUDGET PROJECTION

Capacity	\$ 108,000
Energy	<u>72,000</u>
	<u>\$ 180,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

POWER SUPPLY EXPENSE

FYE. 12/31/2021

DIVISION:	Electric	G/L ACCOUNT #:	555118
ACCOUNT TITLE:	Purchased Power Expense - Nuclear Project 3 - Millstone 3		

ACCOUNT HISTORY

<u>2020</u>	<u>2020</u>	<u>2021</u>
<u>BUDGET</u>	<u>FORECAST</u>	<u>BUDGET</u>
<u>\$ 250,000</u>	<u>\$ 294,000</u>	<u>\$ 271,000</u>

ACCOUNT
DESCRIPTION:

EXPLANATION OF 2021
BUDGET PROJECTION

Capacity	\$ 222,000
Energy	<u>49,000</u>
	<u>\$ 271,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

POWER SUPPLY EXPENSE

FYE. 12/31/2021

DIVISION:	Electric	G/L ACCOUNT #:	555119
ACCOUNT TITLE:	Purchased Power Expense - Nuclear Mix 1 - Millstone 3 and Seabrook		

ACCOUNT HISTORY

2020 BUDGET	2020 FORECAST	2021 BUDGET
\$ 143,000	\$ 162,000	\$ 164,000

ACCOUNT
DESCRIPTION:

EXPLANATION OF 2021
BUDGET PROJECTION

Capacity	\$ 138,000
Energy	<u>26,000</u>
Total	<u>\$ 164,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

POWER SUPPLY EXPENSE

FYE. 12/31/2021

DIVISION:	Electric	G/L ACCOUNT #:	555124
ACCOUNT TITLE:	Purchased Power Expense - Nuclear Project 4 - Seabrook		

ACCOUNT HISTORY

2020 BUDGET	2020 FORECAST	2021 BUDGET
<u>\$ 1,029,000</u>	<u>\$ 1,002,000</u>	<u>\$ 964,000</u>

ACCOUNT
DESCRIPTION:

EXPLANATION OF 2021
BUDGET PROJECTION

Capacity	\$ 783,000
Energy	<u>181,000</u>
Total	<u>\$ 964,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

POWER SUPPLY EXPENSE

FYE. 12/31/2021

DIVISION:	Electric	G/L ACCOUNT #:	555125
ACCOUNT TITLE:	Purchased Power Expense - Nuclear Project 5 - Seabrook		

ACCOUNT HISTORY

2020 BUDGET	2020 FORECAST	2021 BUDGET
\$ 46,000	\$ 44,000	\$ 43,000

ACCOUNT
DESCRIPTION:

EXPLANATION OF 2021
BUDGET PROJECTION

Capacity	\$ 35,000
Energy	8,000
	<u>\$ 43,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

POWER SUPPLY EXPENSE

FYE. 12/31/2021

DIVISION:	Electric	G/L ACCOUNT #:	555126
ACCOUNT TITLE:	Purchased Power Expense - Nuclear Project 6 - Seabrook		

ACCOUNT HISTORY

2020 BUDGET	2020 FORECAST	2021 BUDGET
\$ 406,000	\$ 394,000	\$ 381,000

ACCOUNT
DESCRIPTION:

EXPLANATION OF 2021
BUDGET PROJECTION

Capacity	\$310,000
Energy	<u>71,000</u>
	<u>\$ 381,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

POWER SUPPLY EXPENSE

FYE. 12/31/2021

DIVISION:	Electric	G/L ACCOUNT #:	556100
ACCOUNT TITLE:	Purchased Power Expense - Stranded Cost Provision		

ACCOUNT HISTORY

2020 BUDGET	2020 FORECAST	2021 BUDGET
\$ -	\$ -	\$ -

ACCOUNT
DESCRIPTION:

EXPLANATION OF 2021
BUDGET PROJECTION

Reinvest interest only

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

POWER SUPPLY EXPENSE

FYE. 12/31/2021

DIVISION:	Electric	G/L ACCOUNT #:	557100
ACCOUNT TITLE:	Purchased Power Expense - Other Supply Expense		

ACCOUNT HISTORY

2020 BUDGET	2020 FORECAST	2021 BUDGET
<u>\$ 387,000</u>	<u>\$ 320,000</u>	<u>\$ 387,000</u>

ACCOUNT
DESCRIPTION:

EXPLANATION OF 2021
BUDGET PROJECTION

GM/Energy Analyst salary (25%)	\$ 48,000
Asst.General Manager (40%)	\$ 64,000
Power supply & regulatory consult	<u>275,000</u>
Total	<u>\$ 387,000</u>

GM/Energy Analyst Salary(30% Adm /25% Gas /25% Elect /20% Trns)
Asst.General Manager Salary(30% Adm /10% Gas /40% Elect /20% Trns)

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

POWER SUPPLY EXPENSE

FYE. 12/31/2021

DIVISION:	Electric	G/L ACCOUNT #:	558100
ACCOUNT TITLE:	Decommissioning Expense		

ACCOUNT HISTORY

<u>2020</u>	<u>2020</u>	<u>2021</u>
<u>BUDGET</u>	<u>FORECAST</u>	<u>BUDGET</u>
<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>

ACCOUNT
DESCRIPTION:

EXPLANATION OF 2021
BUDGET PROJECTION

Future decommissioning costs included
in monthly project-related billing

\$ -
\$ -

Total

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

POWER SUPPLY EXPENSE

FYE. 12/31/2021

DIVISION:	Electric	G/L ACCOUNT #:	565100
ACCOUNT TITLE:	Transmission of Electricity by Others		

ACCOUNT HISTORY

2020 BUDGET	2020 FORECAST	2021 BUDGET
<u>\$ 5,154,000</u>	<u>\$ 4,473,000</u>	<u>\$ 5,497,000</u>

ACCOUNT DESCRIPTION:

Transmission costs related to ISO Tariff and socialized costs for maintaining Northeast regional transmission resources allocated on share of monthly peak.

EXPLANATION OF 2021 BUDGET PROJECTION

Note: Reflects Regional Transmission charges through ISO-NE OATT and National Grid.

	<u>\$ 5,497,000</u>
Total	<u><u>\$ 5,497,000</u></u>

MIDDLEBOROUGH GAS AND ELECTRIC DEPARTMENT

BUDGETED GAS SUPPLY EXPENSE

FYE 12/31/2021

ACCOUNT NUMBER	UNIT	2020 BUDGET	2020 FORECAST	2021 BUDGET	BUDGET 21 to BUDGET 20 % CHANGE	BUDGET 21 to FORECAST % CHANGE
804120	Columbia/Baystate Note - A	\$ 145,000	\$ 111,000	\$ 145,000	0%	31%
804520	Engie/Distrigas Note - B	1,943,000	1,838,000	1,985,000	2%	8%
804620	Mercuria/JPMorgan Note - C	2,822,000	2,132,000	2,985,000	6%	40%
804720	Mercuria/JPMorgan Interruptible	1,600,000	1,402,000	1,600,000	0%	14%
807200	Misc Purchased Gas	60,000	48,000	71,000	18%	48%
	Firm and Interruptible Supply	<u>\$ 6,570,000</u>	<u>\$ 5,531,000</u>	<u>\$ 6,786,000</u>	3%	23%
	Firm Gas Supply Costs	<u>\$ 4,970,000</u>	<u>\$ 4,129,000</u>	<u>\$ 5,186,000</u>	4%	26%
	Total ccf Sold	9,800,000	9,799,000	9,800,000	0%	0%
	Firm ccf Sold	6,700,000	6,611,000	6,810,000	2%	3%
	Cost per CCF Sold	0.74	0.56	0.69	-7%	23%
	Cost/firm CCF Sold	0.98	0.62	0.76	-22%	22%

Notes:

A - Columbia Gas of MA peaking contract terminated after April 2014;

Take or Pay transport costs are levelized throughout the season and reflect new contract 11/1/2014.

B - Engie/GDF/Suez/Distrigas contract renegotiated to supply peak months only with vapor/liquid option primary point deliveries to MG&E. Trangas LNG trucking costs added to Engie/GDF/Suez/Distrigas.

C - In the Past MGED has not budgeted Interruptible Gas Purchases or Sales but is starting with FY17 Forecast and FY18 Budget.

D - Interstate Pipeline Costs, Peaking Service Charges and other Firm costs are not Used/Recovered with Interruptible Service

MIDDLEBOROUGH GAS AND ELECTRIC DEPARTMENT

GAS SUPPLY EXPENSE

FYE 12/31/2021

DIVISION:	Gas	G/L ACCOUNT #:	804120
ACCOUNT TITLE:	Natural Gas Purchases - Baystate-CMA-Eversource		

ACCOUNT HISTORY

<u>2020</u>	<u>2020</u>	<u>2021</u>
<u>BUDGET</u>	<u>FORECAST</u>	<u>BUDGET</u>
\$ 145,000	\$ 111,000	\$ 145,000

ACCOUNT DESCRIPTION:

New transport contract commencing 11/1/2014 sets monthly demand at \$6k, Usage charge at \$0.40/MMBtu.

EXPLANATION OF 2021 BUDGET PROJECTION

Peaker	\$ -
Transport	<u>145,000</u>
Total	<u><u>145,000</u></u>

MIDDLEBOROUGH GAS AND ELECTRIC DEPARTMENT

GAS SUPPLY EXPENSE

FYE 12/31/2021

DIVISION:	Gas	G/L ACCOUNT #:	804520
ACCOUNT TITLE:	Natural Gas Purchases - Constellation/Engie/Distrigas & Transgas LNG Trucking		

ACCOUNT HISTORY

<u>2020</u> <u>BUDGET</u>	<u>2020</u> <u>FORECAST</u>	<u>2021</u> <u>BUDGET</u>
<u>\$ 1,943,000</u>	<u>\$ 1,838,000</u>	<u>\$ 1,985,000</u>

ACCOUNT

DESCRIPTION:

Peak Season Vapor/Delivery Contract
 Dec-Jan-Feb 1,900 MMBtu/day
 Option to take 15 trucks of LNG
 4 Yr contract beginning 11/1/18
 Volume increase for 11/1/19 to 3/31/22

EXPLANATION OF 2021

BUDGET PROJECTION

Natural gas purchased from Constellation/Distrigas/Engie

Distrigas	Demand	Peak months	1,379,000
	Commodity	Peak months	513,000
	Commodity	LNG Supply	58,000
Trangas	Trucking	LNG Transport	<u>35,000</u>
		Total	<u>\$ 1,985,000</u>

MIDDLEBOROUGH GAS AND ELECTRIC DEPARTMENT

GAS SUPPLY EXPENSE

FYE 12/31/2021

DIVISION:	Gas	G/L ACCOUNT #:	804620
ACCOUNT TITLE:	Natural Gas Purchase - Mercuria/JP Morgan		

ACCOUNT HISTORY

2020 BUDGET	2020 FORECAST	2021 BUDGET
\$ 2,822,000	\$ 2,132,000	\$ 2,985,000

ACCOUNT DESCRIPTION: Purchases of gas from gas pipeline suppliers

EXPLANATION OF 2021 BUDGET PROJECTION: Natural gas purchases from Mercuria/JP Morgan, successor to Sempra. Asset management and full requirements supply. Legal Outside Counsel inc Tetco/AGT Rate Cases Pipeline Capacity Demand Charges Enbridge Spectra Enbridge Spectra AIM Project Capacity Costs 11/1/2016

Enbridge Spectra (Tetco/AGT) Demand	\$ 798,000
McCarter English & Thompson Coburn	24,000
Mercuria/JP Morgan Firm	1,938,000
Mercuria/JP Morgan Citygate Purchase	<u>225,000</u>
Total	<u>\$ 2,985,000</u>

MIDDLEBOROUGH GAS AND ELECTRIC DEPARTMENT

GAS SUPPLY EXPENSE

FYE 12/31/2021

DIVISION:	Gas	G/L ACCOUNT #:	804720
ACCOUNT TITLE:	Natural Gas Purchase - Mercuria/JP Morgan (Interruptible)		

ACCOUNT HISTORY

2020 BUDGET	2020 FORECAST	2021 BUDGET
\$ 1,600,000	\$ 1,402,000	\$ 1,600,000

ACCOUNT DESCRIPTION: Purchases of gas from gas pipeline suppliers

EXPLANATION OF 2021 BUDGET PROJECTION: Natural gas purchases from Mercuria/JP Morgan, successor to Sempra. Citygate Purchases

Mercuria/JP Morgan Citygate Purchase	<u>\$ 1,600,000</u>
Total	<u><u>\$ 1,600,000</u></u>

MIDDLEBOROUGH GAS AND ELECTRIC DEPARTMENT

GAS SUPPLY EXPENSE

FYE 12/31/2021

DIVISION:	Gas	G/L ACCOUNT #:	807200
ACCOUNT TITLE:	Purchased Gas Expenses		

ACCOUNT HISTORY

2020 BUDGET	2020 FORECAST	2021 BUDGET
\$ 60,000	\$ 48,000	\$ 71,000

ACCOUNT DESCRIPTION: Purchased Gas Expenses

EXPLANATION OF 2021 BUDGET PROJECTION

Miscellaneous expenses associated with the purchase of gas.
Reduced Gas Supply Consulting expenses/publications.

GM/Energy Analyst salary (25%)	\$ 47,000
Asst.General Manager (10%)	16,000
Gas supply consulting	<u>8,000</u>
Total	<u>\$ 71,000</u>

GM/Energy Analyst Salary
(30% Adm /25% Gas /25% Elect /20% Trns)
Asst.General Manager Salary
(30% Adm /10% Gas /40% Elect /20% Trns)

MIDDLEBOROUGH GAS AND ELECTRIC DEPARTMENT
BUDGETED OPERATIONS AND MAINTENANCE EXPENSES

ELECTRIC DIVISION

<u>ACCOUNT</u>	<u>ACCOUNT TITLE</u>	FYE 12/31/2021			BUDGET 21	BUDGET 21
		2020 BUDGET	2020 FORECAST	2021 BUDGET	to BUDGET 20 % CHANGE	to FORECAST % CHANGE
OTHER POWER GENERATION - OPERATIONS						
546100	Generation Operation Supervision & Engineering	\$ 27,000	\$ 26,000	\$ 28,000	4%	8%
547100	Generation Operation - Fuel	50,000	24,000	40,000	-20%	67%
548100	Generation Operation Expense	15,000	-	15,000	0%	-
Total Other Power Generation-Operations Expense:		\$ 92,000	\$ 50,000	\$ 83,000	-10%	66%
GENERATION, OTHER POWER - MAINTENANCE						
553100	Maint. Of Generating & Electric Equipment	\$ 74,000	\$ 63,000	\$ 76,000	3%	21%
Total Other Power Generation - Maintenance:		\$ 74,000	\$ 63,000	\$ 76,000	3%	21%
TRANSMISSION - OPERATIONS						
560100	Transmission Operation Supervision & Engineering	\$ 206,000	\$ 174,000	\$ 246,000	19%	41%
562100	Transmission Station Expense	110,000	91,000	112,000	2%	23%
569100	Maintenance of Transmission Structures	30,000	76,000	30,000	0%	-
571100	Maintenance of Overhead Transmission Lines	34,000	39,000	34,000	0%	-13%
Total Transmission-Operations Expense:		380,000	380,000	422,000	11%	11%
DISTRIBUTION - OPERATIONS						
580100	Operations - Supervision & Engineering	177,000	116,000	176,000	-1%	52%
582100	Distribution Station Expense	267,000	363,000	275,000	3%	-24%
586100	Meters Operations Expense	90,000	107,000	95,000	6%	-11%
588100	Miscellaneous distribution - Operations Expense	389,000	458,000	473,000	22%	3%
Total Distribution - Operations Expense:		923,000	1,044,000	1,019,000	10%	-2%
DISTRIBUTION - MAINTENANCE						
590100	Maintenance - Supervision & Engineering	172,000	116,000	171,000	-1%	47%
592100	Maintenance of Station Equipment	70,000	3,000	70,000	0%	2233%
593100	Maintenance of Overhead Lines	2,401,000	2,524,000	2,889,000	20%	14%
594100	Maintenance of Underground Lines	20,000	32,000	30,000	50%	-6%
595100	Maintenance of Line Transformers	44,000	17,000	44,000	0%	159%
596100	Maintenance of Street Lights	30,000	15,000	31,000	3%	107%
597100	Maintenance of Meters	2,000	55,000	2,000	0%	-96%
599100	Maintenance of Vehicles	91,000	192,000	91,000	0%	-53%
Total Distribution - Maintenance:		2,830,000	2,954,000	3,328,000	18%	13%
SUMMARY OF EXPENSES:						
* Total Other Power Generation-Operations Expense:		92,000	50,000	83,000	-10%	66%
* Total Other Power Generation - Maintenance:		74,000	63,000	76,000	3%	21%
Total Transmission-Operations Expense:		380,000	380,000	422,000	11%	11%
Total Distribution - Operations Expense:		923,000	1,044,000	1,019,000	10%	-2%
Total Distribution - Maintenance:		2,830,000	2,954,000	3,328,000	18%	13%
Total		\$ 4,299,000	\$ 4,491,000	\$ 4,928,000	15%	10%

* New Accounts to the 2016 Budget - Generator related

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

OPERATIONS AND MAINTENANCE EXPENSES

FYE 12/31/2021

DIVISION:	ELECTRIC	G/L ACCOUNT NO:	546100
ACCOUNT TITLE:	Generation Operation Supervision & Engineering		

ACCOUNT HISTORY

<u>2020</u>	<u>2020</u>	<u>2021</u>
<u>BUDGET</u>	<u>FORECAST</u>	<u>BUDGET</u>
<u>\$ 27,000</u>	<u>\$ 26,000</u>	<u>\$ 28,000</u>

ACCOUNT DESCRIPTION: Generation Operation Supervision & Engineering

EXPLANATION OF 2021 BUDGET PROJECTION

1 Electric Engineer (20%)	\$ 28,000
	<hr/>
	<u>\$ 28,000</u>

Balance of Electric Engineer in 560100 (20%),
580100 (30%), and 590100 (30%)

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

OPERATIONS AND MAINTENANCE EXPENSES

FYE 12/31/2021

DIVISION:	ELECTRIC	G/L ACCOUNT NO:	547100
ACCOUNT TITLE:	Generation Operation - Fuel		

ACCOUNT HISTORY

<u>2020</u>	<u>2020</u>	<u>2021</u>
<u>BUDGET</u>	<u>FORECAST</u>	<u>BUDGET</u>
\$ 50,000	\$ 24,000	\$ 40,000

ACCOUNT DESCRIPTION: Generation Operation - Fuel Usage

EXPLANATION OF 2021 BUDGET PROJECTION

1 Gas Usage	\$ 40,000
	<hr/>
	<u>\$ 40,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

OPERATIONS AND MAINTENANCE EXPENSES

FYE 12/31/2021

DIVISION:	ELECTRIC	G/L ACCOUNT NO:	548100
ACCOUNT TITLE:	Generation Operation Expense		

ACCOUNT HISTORY

	<u>2020</u>	<u>2020</u>	<u>2021</u>
	<u>BUDGET</u>	<u>FORECAST</u>	<u>BUDGET</u>
	\$ 15,000	\$ -	\$ 15,000

ACCOUNT DESCRIPTION: Generation Operation Expense

EXPLANATION OF 2021 BUDGET PROJECTION

1 Dispatch Consulting	\$ 5,000
2 Environmental Consulting	\$ 10,000

\$ 15,000

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

OPERATIONS AND MAINTENANCE EXPENSES

FYE 12/31/2021

DIVISION:	ELECTRIC	G/L ACCOUNT NO:	560100
ACCOUNT TITLE:	Transmission Operation Supervision & Engineering		

ACCOUNT HISTORY

	<u>2020</u>	<u>2020</u>	<u>2021</u>
	<u>BUDGET</u>	<u>FORECAST</u>	<u>BUDGET</u>
	\$ 206,000	\$ 174,000	\$ 246,000

ACCOUNT DESCRIPTION: Transmission Operation Supervision & Engineering

EXPLANATION OF 2021 BUDGET PROJECTION

1 Electric Division Manager (20%)	\$ 36,050
2 Electric Engineer (20%)	27,815
3 General Manager (20%)	38,760
4 Accounting Manager (20%)	26,780
5 Accounting Supervisor (20%)	16,995
6 Asst. Manager Electric Division (20%)	27,600
7 Asst.General Manager (20%)	32,000
8 PLM	20,000
9 Utility Services	20,000
	<u>\$ 246,000</u>

- 1 Balance of Electric Division Manager in 580100 (40%) and 590100 (40%)
- 2 Balance of Electric Engineer in 546100 (20%), 580100 (30%), and 590100 (30%)
- 3 Balance of General Manager in 557100 (25%), 807200 (25%), and 920100 (30%)
- 4 Balance of Accounting Manager, Accounting Supervisor, in 920100 (80%)
- 6 Balance of Asst. Manager Electric (40%) 580100 and (40%) 590100
- 7 Balance of Asst.General Manager Salary 920100 (30%), 807200 (10%), and 557100 (40%)

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

OPERATIONS AND MAINTENANCE EXPENSES

FYE 12/31/2021

DIVISION:	ELECTRIC	G/L ACCOUNT NO:	562100
ACCOUNT TITLE:	Transmission Station Expense		

ACCOUNT HISTORY

<u>2020</u>	<u>2020</u>	<u>2021</u>
<u>BUDGET</u>	<u>FORECAST</u>	<u>BUDGET</u>
<u>\$ 110,000</u>	<u>\$ 91,000</u>	<u>\$ 112,000</u>

ACCOUNT
DESCRIPTION:

Transmission Station Expense

EXPLANATION OF 2021
BUDGET PROJECTION

1 Station Operators (20%)	\$ 63,500
2 Monthly expenses of Middleborough's share of Bridgewater substation.	<u>48,500</u>
	<u>\$ 112,000</u>

Balance of Station Operators in 582100 (80%)
Includes Substation Tech 562100 (8%), 582100 (32%),
and 553100 (60%)

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

OPERATIONS AND MAINTENANCE EXPENSES

FYE 12/31/2021

DIVISION:	ELECTRIC	G/L ACCOUNT NO:	569100
ACCOUNT TITLE:	Maintenance of Transmission Structures		

ACCOUNT HISTORY

<u>2020</u>	<u>2020</u>	<u>2021</u>
<u>BUDGET</u>	<u>FORECAST</u>	<u>BUDGET</u>
<u>\$ 30,000</u>	<u>\$ 76,000</u>	<u>\$ 30,000</u>

ACCOUNT DESCRIPTION: Expenses associated with maintaining transmission line structures.

EXPLANATION OF 2021 BUDGET PROJECTION		
1 Labor & Materials		<u>\$30,000</u>
Total		<u><u>\$30,000</u></u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

OPERATIONS AND MAINTENANCE EXPENSES

FYE 12/31/2021

DIVISION:	ELECTRIC	G/L ACCOUNT NO:	571100
ACCOUNT TITLE:	Maintenance of Overhead Transmission Lines		

ACCOUNT HISTORY

<u>2020</u>	<u>2020</u>	<u>2021</u>
<u>BUDGET</u>	<u>FORECAST</u>	<u>BUDGET</u>
<u>\$ 34,000</u>	<u>\$ 39,000</u>	<u>\$ 34,000</u>

ACCOUNT
DESCRIPTION:

Maintenance of 115 KV transmission lines.

EXPLANATION OF 2021
BUDGET PROJECTION

1 Regular Maintenance	\$ 1,600
2 Conrail Crossing Fee	400
3 Maintenance Mowing	<u>32,000</u>
Total	<u>\$ 34,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

OPERATIONS AND MAINTENANCE EXPENSES

FYE 12/31/2021

DIVISION:	ELECTRIC	G/L ACCOUNT NO:	580100
ACCOUNT TITLE:	Operations Supervision and Engineering		

ACCOUNT HISTORY

<u>2020</u>	<u>2020</u>	<u>2021</u>
<u>BUDGET</u>	<u>FORECAST</u>	<u>BUDGET</u>
<u>\$ 177,000</u>	<u>\$ 116,000</u>	<u>\$ 176,000</u>

ACCOUNT
DESCRIPTION:

Payroll Expenses for management
personnel in Electric Division.

EXPLANATION OF 2021
BUDGET PROJECTION

Management Salaries:

1 Electric Division Manager (40%)	\$ 74,675
2 Electric Engineer (30%)	40,170
3 Asst. Manager Electric Division (40%)	55,200
4 Safety Shoes	600
5 Training Workshops	5,355
Total	<u>\$ 176,000</u>

NOTE:

- Balance of Electric Division Manager in 560100 (20%) and 590100 (40%)
- Balance of Electric Engineer in 546100 (20%), 560100 (20%), and 590100 (30%)
- Balance of Asst. Manager Electric (20%) 560100 and (40%) 590100

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

OPERATIONS AND MAINTENANCE EXPENSES

FYE 12/31/2021

DIVISION:	ELECTRIC	G/L ACCOUNT NO:	582100
ACCOUNT TITLE:	Distribution Station Expense		

ACCOUNT HISTORY

<u>2020</u>	<u>2020</u>	<u>2021</u>
<u>BUDGET</u>	<u>FORECAST</u>	<u>BUDGET</u>
<u>\$ 267,000</u>	<u>\$ 363,000</u>	<u>\$ 275,000</u>

ACCOUNT
DESCRIPTION:

Expenses associated with operating
the distribution substation.

EXPLANATION OF 2021
BUDGET PROJECTION

1 Station Operators (80%)	\$ 252,865
2 Electric Maintenance Worker (25%)	19,827
3 Safety Shoes	1,100
4 Misc. Substation Expenses	<u>1,208</u>
Total	<u>\$ 275,000</u>

Balance of Electric Maintenance Worker is in 588100 (75%)
Balance of Station Operators Salary in 562100 (20%)
Station Operator Salaries includes Substation
Technician (32%), balance in 553100 (60%) and
562100 (8%)

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

OPERATIONS AND MAINTENANCE EXPENSES

FYE 12/31/2021

DIVISION:	ELECTRIC	G/L ACCOUNT NO:	586100
ACCOUNT TITLE:	Meter Operations Expense		

ACCOUNT HISTORY

<u>2020</u>	<u>2020</u>	<u>2021</u>
<u>BUDGET</u>	<u>FORECAST</u>	<u>BUDGET</u>
<u>\$ 90,000</u>	<u>\$ 107,000</u>	<u>\$ 95,000</u>

ACCOUNT
DESCRIPTION:

Payroll and materials expense of
meter operations.

EXPLANATION OF 2021
BUDGET PROJECTION

1 Electrical Meterman Foremen	\$ 90,000
2 Materials	1,000
3 Safety Shoes	300
4 Test Board Calibration	<u>3,700</u>
Total	<u>\$ 95,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

OPERATIONS AND MAINTENANCE EXPENSES

FYE 12/31/2021

DIVISION:	ELECTRIC	G/L ACCOUNT NO:	588100
ACCOUNT TITLE:	Miscellaneous Distribution - Operations Expense		

ACCOUNT HISTORY

	2020	2020	2021
	<u>BUDGET</u>	<u>FORECAST</u>	<u>BUDGET</u>
	\$ 389,000	\$ 458,000	\$ 473,000

ACCOUNT DESCRIPTION

Miscellaneous expenses of distribution operations.

EXPLANATION OF 2021 BUDGET PROJECTION

1 Assistant Manager of Operations	\$ 85,000
2 Map & Records Technician	66,023
3 Records Clerk	50,500
4 Stockman	76,500
5 Facility worker	75,500
6 Electrical Maintenance worker (75%)	67,000
7 Part Time help	-
8 Uniforms, Safety Shoes	6,000
9 Office Equipment Maint.	4,000
10 Maintenance Expenses	6,000
11 First Aid Supplies	1,500
12 Misc. Expenses	6,500
13 Cleaning Supplies	2,977
14 Radio Repairs	10,000
15 Town Water	1,000
16 Training (CPR, RTK, etc.)	5,000
17 Grounds Maintenance	6,000
18 Weather Services 50%	3,500
Total	<u>\$ 473,000</u>

Balance of Electrical Maintenance Worker in 582100 (25%)

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

OPERATIONS AND MAINTENANCE EXPENSES

FYE 12/31/2021

DIVISION:	ELECTRIC	G/L ACCOUNT NO:	590100
ACCOUNT TITLE:	Maintenance - Supervision and Engineering		

ACCOUNT HISTORY

<u>2020</u>	<u>2020</u>	<u>2021</u>
<u>BUDGET</u>	<u>FORECAST</u>	<u>BUDGET</u>
<u>\$ 172,000</u>	<u>\$ 116,000</u>	<u>\$ 171,000</u>

ACCOUNT
DESCRIPTION

Payroll expenses for management personnel.

EXPLANATION OF 2021
BUDGET PROJECTION

Management Salaries:

1 Electric Division Manager (40%)	\$	75,630
2 Electric Engineer (30%)		40,170
3 Asst. Manager Electric Division (40%)		<u>55,200</u>
Total	\$	<u>171,000</u>

- 1 Balance of Electric Division Manager in 580100 (40%) and 560100 (20%)
- 2 Balance of Electric Engineer in 546100 (20%), 560100 (20%), and 580100 (30%)
- 3 Balance of Asst. Manager Electric (20%) 560100 and (40%) 580100

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

OPERATIONS AND MAINTENANCE EXPENSES

FYE 12/31/2021

DIVISION:	ELECTRIC	G/L ACCOUNT NO:	592100
ACCOUNT TITLE:	Maintenance of Station Equipment		

ACCOUNT HISTORY

<u>2020</u>	<u>2020</u>	<u>2021</u>
<u>BUDGET</u>	<u>FORECAST</u>	<u>BUDGET</u>
<u>\$ 70,000</u>	<u>\$ 3,000</u>	<u>\$ 70,000</u>

ACCOUNT
DESCRIPTION

Maintenance of substation equipment every other year.

EXPLANATION OF 2021
BUDGET PROJECTION

1 General Maintenance, testing and calibration of substation equipment	
UPG maintenance	<u>\$ 70,000</u>
Total	<u>\$ 70,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

OPERATIONS AND MAINTENANCE EXPENSES

FYE 12/31/2021

DIVISION:	ELECTRIC	G/L ACCOUNT NO:	593100
ACCOUNT TITLE:	Maintenance of Overhead Lines		

ACCOUNT HISTORY

<u>2020</u>	<u>2020</u>	<u>2021</u>
<u>BUDGET</u>	<u>FORECAST</u>	<u>BUDGET</u>

<u>\$ 2,401,000</u>	<u>\$ 2,524,000</u>	<u>\$ 2,889,000</u>
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ACCOUNT
DESCRIPTION

Expenses associated with maintenance
and operation of the overhead
distribution system.

EXPLANATION OF 2021
BUDGET PROJECTION

1 17 Line workers	\$ 1,477,020
2 Tree Trimming-Barnes	850,000
3 Materials	45,000
4 Uniforms, Safety Shoes	24,000
5 Police Details	210,000
6 Glove Testing	12,000
7 Lineworker Training-NEPPA	24,000
8 GPS	5,000
9 Program	4,000
10 Utility Services (NERC)	11,000
11 Miscellaneous Expenses (license fees, etc.)	1,980
12 Infrared Services	5,000
13 Pole inspection program/Alamon	-
14 Work Place Safety Solutions	20,000
15 Emergency Restorations	200,000
Total	<u>\$ 2,889,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

OPERATIONS AND MAINTENANCE EXPENSES

FYE 12/31/2021

DIVISION:	ELECTRIC	G/L ACCOUNT NO:	594100
ACCOUNT TITLE:	Maintenance of Underground Lines - (Dig Safe 100%)		

ACCOUNT HISTORY

<u>2020</u>	<u>2020</u>	<u>2021</u>
<u>BUDGET</u>	<u>FORECAST</u>	<u>BUDGET</u>

<u>\$ 20,000</u>	<u>\$ 32,000</u>	<u>\$ 30,000</u>
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ACCOUNT
DESCRIPTION

Expenses related to maintenance and
operation of underground distribution lines.

EXPLANATION OF 2021
BUDGET PROJECTION

1 Materials	\$ 1,600
2 Labor - Dig Safe	25,000
3 Dig Safe Membership	<u>3,400</u>
Total	<u>\$ 30,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

OPERATIONS AND MAINTENANCE EXPENSES

FYE 12/31/2021

DIVISION:	ELECTRIC	G/L ACCOUNT NO:	595100
ACCOUNT TITLE:	Maintenance of Line Transformers		

ACCOUNT HISTORY

<u>2020</u>	<u>2020</u>	<u>2021</u>
<u>BUDGET</u>	<u>FORECAST</u>	<u>BUDGET</u>
<u>\$ 44,000</u>	<u>\$ 17,000</u>	<u>\$ 44,000</u>

ACCOUNT DESCRIPTION

Estimated costs of maintaining and retiring transformers in accordance with industry standards and environmental regulations.

EXPLANATION OF 2021 BUDGET PROJECTION

1 Transformer Testing	\$ 2,000
2 Transformer Disposal	27,000
3 Transformer Repairing	5,000
4 Spill Clean-Up	4,000
5 Labor	<u>6,000</u>
Total	<u>\$ 44,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

OPERATIONS AND MAINTENANCE EXPENSES

FYE 12/31/2021

DIVISION:	ELECTRIC	G/L ACCOUNT NO:	596100
ACCOUNT TITLE:	Maintenance of Street Lights		

ACCOUNT HISTORY

<u>2020</u>	<u>2020</u>	<u>2021</u>
<u>BUDGET</u>	<u>FORECAST</u>	<u>BUDGET</u>
<u>\$ 30,000</u>	<u>\$ 15,000</u>	<u>\$ 31,000</u>

ACCOUNT
DESCRIPTION

Expenses associated with street light maintenance.

EXPLANATION OF 2021
BUDGET PROJECTION

1 Materials	\$ 12,000
2 Labor	<u>19,000</u>
Total	<u>\$ 31,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

OPERATIONS AND MAINTENANCE EXPENSES

FYE 12/31/2021

DIVISION:	ELECTRIC	G/L ACCOUNT NO:	597100
ACCOUNT TITLE:	Maintenance of Meters		

ACCOUNT HISTORY

<u>2020</u>	<u>2020</u>	<u>2021</u>
<u>BUDGET</u>	<u>FORECAST</u>	<u>BUDGET</u>
<u>\$ 2,000</u>	<u>\$ 55,000</u>	<u>\$ 2,000</u>

ACCOUNT
DESCRIPTION

Expenses associated with maintenance
of electric meters and equipment.

EXPLANATION OF 2021
BUDGET PROJECTION

1 Meter Supplies (rings, seals, etc.)	<u>\$ 2,000</u>
Total	<u><u>\$ 2,000</u></u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

OPERATIONS AND MAINTENANCE EXPENSES

FYE 12/31/2021

DIVISION:	ELECTRIC	G/L ACCOUNT NO:	599100
ACCOUNT TITLE:	Maintenance of Vehicles		

ACCOUNT HISTORY

<u>2020</u>	<u>2020</u>	<u>2021</u>
<u>BUDGET</u>	<u>FORECAST</u>	<u>BUDGET</u>
<u>\$ 91,000</u>	<u>\$ 192,000</u>	<u>\$ 91,000</u>

ACCOUNT
DESCRIPTION

Expenses associated with maintenance
of Electric Division trucks.

EXPLANATION OF 2021
BUDGET PROJECTION

1 Materials	\$ 4,500
2 Labor	2,600
3 Outside Services/Repairs	30,000
4 Fuel (Gasoline & Diesel)	50,000
5 Central Fuel O&M	300
6 Maintenance of Vehicles (transferred from account 933100/200)	3,600
Total	<u>\$ 91,000</u>

MIDDLEBOROUGH GAS AND ELECTRIC DEPARTMENT
BUDGETED OPERATIONS AND MAINTENANCE EXPENSES

GAS DIVISION

FYE 12/31/2021

<u>ACCOUNT</u>	<u>ACCOUNT TITLE</u>	<u>2020 BUDGET</u>	<u>2020 FORECAST</u>	<u>2021 BUDGET</u>	<u>BUDGET 21 to BUDGET 20 % CHANGE</u>	<u>BUDGET 21 to FORECAST % CHANGE</u>
LOCAL STORAGE EXPENSE:						
	844200 Miscellaneous Production Expense	\$ 59,000	\$ 51,000	\$ 59,000	0%	16%
	Total Local Storage Expense:	59,000	51,000	59,000	0%	16%
DISTRIBUTION EXPENSE						
	870200 Operation Supervision & Engineering	163,000	143,000	211,000	29%	48%
	871200 Distribution Load Dispatching	161,000	128,000	153,000	-5%	20%
	874200 Mains and Services Expense	157,000	115,000	151,000	-4%	31%
	878200 Meters and House Regulator Expense	113,000	94,000	139,000	23%	48%
	879200 Customer Installation Expense	184,000	205,000	224,000	22%	9%
	880200 Other Expense	327,000	260,000	333,000	2%	28%
	881200 Rents Expense	1,000	1,000	1,000	0%	0%
	882200 Digsafe	88,000	125,000	125,000	42%	0%
	Total Distribution Expense:	1,194,000	1,071,000	1,337,000	12%	25%
MAINTENANCE EXPENSE						
	885200 Maintenance Supervision & Engineering	176,000	194,000	239,000	36%	23%
	886200 Maintenance of Structures & Improvements	117,000	180,000	122,000	4%	-32%
	887200 Maintenance of Mains	53,000	11,000	26,000	-51%	136%
	889200 Maintenance of Measuring & Regulating Equip.	68,000	66,000	67,000	-1%	2%
	892200 Maintenance of Services	163,000	115,000	163,000	0%	42%
	894200 Maintenance of Other Equipment	17,000	19,000	20,000	18%	5%
	896200 Maintenance of Power Operated Equipment	62,000	54,000	64,000	3%	19%
	Total Maintenance Expense:	656,000	639,000	701,000	7%	10%
SUMMARY OF EXPENSES:						
	Total Local Storage Expense:	59,000	51,000	59,000	0%	16%
	Total Distribution Expense:	1,194,000	1,071,000	1,337,000	12%	25%
	Total Maintenance Expense:	656,000	639,000	701,000	7%	10%
		<u>\$ 1,909,000</u>	<u>\$ 1,761,000</u>	<u>\$ 2,097,000</u>	<u>9.8%</u>	<u>19.1%</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT
OPERATIONS AND MAINTENANCE EXPENSES

FYE 12/31/2021

DIVISION:	Gas	G/L ACCOUNT NO:	844200
ACCOUNT TITLE:	Miscellaneous Production Expenses		

ACCOUNT HISTORY

2020 BUDGET	2020 FORECAST	2021 BUDGET
\$ 59,000	\$ 51,000	\$ 59,000

ACCOUNT

DESCRIPTION: Cost of labor, material used and expenses incurred in operating and maintaining MGED liquefied natural gas (LNG) facility. As well as yard and equipment maintenance snow removal, mowing lawns, daily inspections, annual calibrations and testing relief valves, etc. associated with the MGED LNG peak shaving facility.

EXPLANATION OF 2021
BUDGET PROJECTION

Plant Maintenance and Safety Equipment

1	Annual transfer hose testing	\$ 1,000
2	Fire protection equipment	2,800
3	Gas detection equipment	1,600
4	US Dept of Transportation User Fee	2,700
5	Miscellaneous equipment & supplies	2,300
6	Security System Repairs	10,000
7	Vegetation Control	1,800
8	Annual control & system calibration & testing	4,000
9	Standby Generator Maint. and Annual Load Test	2,800
10	LNG Consultant (Due to new UVIR's)	3,000
11	LNG Fire Study Review	0
12	Air Compressor Maintenance	2,800
13	Odorization Maintenance & Supplies	4,200
14	Labor	20,000
	Total	\$ 59,000

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

OPERATIONS AND MAINTENANCE EXPENSES

FYE 12/31/2021

DIVISION:	Gas	G/L ACCOUNT NO:	870200
ACCOUNT TITLE: Operations Supervision and Engineering			

ACCOUNT HISTORY

2020 BUDGET	2020 FORECAST	2021 BUDGET
\$ 163,000	\$ 143,000	\$ 211,000

ACCOUNT DESCRIPTION: Cost of labor and expenses incurred in general supervision and direction of distribution system operations.

EXPLANATION OF 2021 BUDGET PROJECTION

1 Gas Division Manager of Engineering (20%)	\$ 30,200
2 Gas Divison Manager of Operations (35%)	\$ 52,000
3 Gas Divison Operations Supervisor (35%)	\$ 39,000

Training Schools:

4 Northeast Gas Association Operations School	5,500
5 Northeast Gas Assoc.Operator Qualification Fee & Testing	8,000
6 US Dept of Transportation Safety Seminar	2,000
7 Northeast Gas Assoc. LNG Fire Fighting Training	10,000
8 First Aid / CPR	1,300
9 Leak Investigation/First Responder Training	3,400
10 Right-to-Know and Hazwoper Training	3,000
11 Customer Contact Training	2,000
12 Misc. Training	4,000
13 Cathodic Protection	2,200
14 Labor	48,400
Total	<u>\$ 211,000</u>

NOTE:

Balance of Manager of Engineering salary located in accounts 880200 (30%) & 885200 (50%)

Balance of Manager of Operations salary is located in accounts 882200 (30%) and 885200 (35%)

Balance of Gas Division Operations Supervisor salary is located in accounts 882200 (30%) and 885200 (35%)

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

OPERATIONS AND MAINTENANCE EXPENSES

FYE 12/31/2021

DIVISION:	Gas	G/L ACCOUNT NO:	871200
ACCOUNT TITLE:	Distribution Load Dispatching		

ACCOUNT HISTORY

<u>2020</u>	<u>2020</u>	<u>2021</u>
<u>BUDGET</u>	<u>FORECAST</u>	<u>BUDGET</u>
<u>\$ 161,000</u>	<u>\$ 128,000</u>	<u>\$ 153,000</u>

ACCOUNT

DESCRIPTION:

Labor cost and expenses incurred in dispatching, monitoring and controlling the distribution system pressures. Operating MGED's LNG peak shaving facility and interconnects with Columbia Gas of MA.

EXPLANATION OF 2021

BUDGET PROJECTION

1 Weather Service (50% gas 50% Elec. Account)	\$ 4,500
2 Misc. repairs to the departments Supervisory Control and Data Acquisition (SCADA)	8,300
3 Labor	<u>140,200</u>
Total	<u>\$ 153,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT
 OPERATIONS AND MAINTENANCE EXPENSES
 FYE 12/31/2021

DIVISION:	Gas	G/L ACCOUNT NO:	874200
ACCOUNT TITLE:	Mains & Services Expenses		

ACCOUNT HISTORY

<u>2020</u> <u>BUDGET</u>	<u>2020</u> <u>FORECAST</u>	<u>2021</u> <u>BUDGET</u>
\$ 157,000	\$ 115,000	\$ 151,000

ACCOUNT

Description: Material and labor cost associated with conducting distribution leak, odorant, corrosion and valve surveys. Inspection of pressure recording charts and district regulation station inspections.

EXPLANATION OF 2021
BUDGET PROJECTION

1	Uniforms for construction dept	\$	6,000
2	Safety shoes		4,000
3	Replacement tools		1,600
4	Water & Sewer		1,200
5	New England CP annual cathodic protection inspections		2,800
6	NE Gas Association PE Pipe Joining Re-Qualification		3,200
7	License renewals & meals allowances		2,000
8	Welding Re-Qualifications		-
9	Right of Way Clearing		3,200
10	Oxygen, Acetylene, Nitrogen, Etc.		3,000
11	Surveys & Analysis - Leak Survey Contractors		14,000
12	Misc Supplies: (safety equipment, welding supplies, batteries, repair clamps, fittings, nuts, bolts, screws, pressure recording charts & gauges, lawn equip, etc.)		5,000
13	Calibration, testing and repair of dept. equipment (Gas Detectors, Pipe Locators, CO detectors, Pyrometers, etc.)		10,000
14	Labor		95,000
	Total		<u>\$ 151,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT
 OPERATIONS AND MAINTENANCE EXPENSES
 FYE 12/31/2021

DIVISION:	Gas	G/L ACCOUNT NO:	878200
ACCOUNT TITLE:	Meter & House Regulator Expenses		

ACCOUNT HISTORY

<u>2020</u> <u>BUDGET</u>	<u>2020</u> <u>FORECAST</u>	<u>2021</u> <u>BUDGET</u>
\$ 113,000	\$ 94,000	\$ 139,000

ACCOUNT DESCRIPTION: Cost of labor, materials used and expenses incurred in connection with removing, changing and testing residential and commercial meters and regulators.

EXPLANATION OF 2021 BUDGET PROJECTION

1 Labor cost for state meter change and calibration requirements, transporting and exchanging meters on existing service risers. Gas service connects and shut-offs. Recording meter records and calibrations for commercial and residential meters. Cleaning, rebuilding, painting and installation of Automatic Meter Reader (AMR) transponders.	\$ 97,700
2 Mass DPU Inspector - meter inspections and state seals.	14,000
3 Snap Prover Service & Certification (every 3 years) and Snap MMX Prover Upgrade Kit - Level 3.	19,000
4 Misc. supply for above: (Meter parts, paint & supplies, meter index lens, dials, seals, batteries, etc.)	<u>8,300</u>
Total	<u>\$ 139,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT
 OPERATIONS AND MAINTENANCE EXPENSES
 FYE 12/31/2021

DIVISION:	Gas	G/L ACCOUNT NO:	879200
ACCOUNT TITLE:	Customer Installation Expenses		

ACCOUNT HISTORY

<u>2020</u>	<u>2020</u>	<u>2021</u>
<u>BUDGET</u>	<u>FORECAST</u>	<u>BUDGET</u>
\$ 184,000	\$ 205,000	\$ 224,000

ACCOUNT
DESCRIPTION

Cost of labor, materials and expenses incurred in work on customer premises such as:

- * Investigating odor calls on customers premises
- * Carbon Monoxide (CO) and fire dept calls involving gas appliances etc.
- * Researching abnormally high bills/gas consumption
- * Turning on and shutting-off gas meters and read and leave request
- * After hour calls (nights, weekends and holidays) for emergencies, emergency dig safe requests, odor calls etc.

NOTE: MGED has discontinued appliance service as of April 28, 2018. Emergency calls regarding public safety such as Odor, CO and fire calls as well as MGED work, (for example: turn ons and shut-offs, read leaves and high bill investigations) are not charged.

EXPLANATION OF 2021
BUDGET PROJECTION

1 Cost of materials and supplies required to make odor calls & CO calls.		\$ 9,000
2 Uniforms for the service dept employees		4,000
3 Labor:		
Service Foreman 10% pay	16,200	
Service Tech. 45% pay	49,100	
Service Tech. 25% pay	30,200	
Station Operator 40% pay	40,000	
On-call standby pay	45,000	
Overtime pay call-outs	30,500	
Total labor cost		<u>211,000</u>
Total		<u><u>\$ 224,000</u></u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT
 OPERATIONS AND MAINTENANCE EXPENSES
 FYE 12/31/2021

DIVISION:	Gas	G/L ACCOUNT NO:	880200
ACCOUNT TITLE:	Other Expenses		

ACCOUNT HISTORY

2020 BUDGET	2020 FORECAST	2021 BUDGET
\$ 327,000	\$ 260,000	\$ 333,000

ACCOUNT
DESCRIPTION

Cost associated with maintaining MGED's distribution maps and records.
 Office supplies and expenses and any other cost and expense incurred on the
 distribution system not provide for elsewhere.

EXPLANATION OF 2021
BUDGET PROJECTION

1 Gas Division Manager of Engineering (30%)	\$	45,300
2 Gas Division Engineer (50%)		56,800
3 Gas Division Map & Records Technician (100%)		70,000
4 Greenhouse Gas reporting & verification consultant		6,000
5 Consulting work mPower		11,900
6 Two Summer interships & Cadet Program Participant		24,000
7 Miscellaneous office supplies, maps, copy machine maintenance and material and expenses incurred in distribution system operation not provided for elsewhere.		12,000
8 Misc. Consulting Training and operating procedure updates		25,000
5 yr review Dist. Integrity Management Plan (DIMP)		12,000
9 Consultant as DPU Oversight		15,000
10 Relief Valve Calculations/update		10,000
11 Consultant Professional Engineer		25,000
12 Comply with RP API 1173		20,000
Total	\$	333,000

NOTE:

Balance of Gas Division Manager of Engineering salary is in accounts 870200 (20%)
 & 885200 (50%)
 Balance of Gas Division Engineer's salary is in account 885200 (50%)

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT
 OPERATIONS AND MAINTENANCE EXPENSES

FYE 12/31/2021

DIVISION:	Gas	G/L ACCOUNT NO:	881200
ACCOUNT TITLE:	Rents		

ACCOUNT HISTORY

<u>2020</u>	<u>2020</u>	<u>2021</u>
<u>BUDGET</u>	<u>FORECAST</u>	<u>BUDGET</u>
<u>\$ 1,000</u>	<u>\$ 1,000</u>	<u>\$ 1,000</u>

ACCOUNT
DESCRIPTION

Rent for property of others
Railroad Crossing

EXPLANATION OF 2021
BUDGET PROJECTION

1 Con Rail Lease for the eight-inch gas main located under the railroad tracks on Center Avenue near the gas division office.	<u>\$ 1,000</u>
Total	<u>\$ 1,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT
 OPERATIONS AND MAINTENANCE EXPENSES

FYE 12/31/2021

DIVISION:	Gas	G/L ACCOUNT NO:	882200
ACCOUNT TITLE:	Dig Safe		

ACCOUNT HISTORY

<u>2020</u>	<u>2020</u>	<u>2021</u>
<u>BUDGET</u>	<u>FORECAST</u>	<u>BUDGET</u>
<u>\$ 88,000</u>	<u>\$ 125,000</u>	<u>\$ 125,000</u>

ACCOUNT
DESCRIPTION

Expenses associated with gas main and service line locating
MGED's underground facilities. 811- Dig Safe request.

EXPLANATION OF 2021
BUDGET PROJECTION

1 Gas Division Manager of Operations (30%)	\$ 44,500
2 Gas Divison Operations Supervisor (30%)	\$ 33,400
3 Materials - Paint and flags used to mark out gas mains and service lines for dig safe request	3,400
4 Digsafe Membership Dues (50%)	6,000
5 Labor cost for this account	<u>37,700</u>
Total	<u>\$ 125,000</u>

Note:

The balance of the Digsafe membership dues is
in Electric account 594100

Balance of Manager of Operations salary
is in accounts 870200 (35%) and 885200 (35%)
Balance of Gas Division Operations Supervisor salary
is in accounts 870200 (35%) and 885200 (35%)

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT
 OPERATIONS AND MAINTENANCE EXPENSES
 FYE 12/31/2021

DIVISION:	Gas	G/L ACCOUNT NO:	885200
ACCOUNT TITLE:	Maintenance, Supervision & Engineering		

ACCOUNT HISTORY

2020 BUDGET	2020 FORECAST	2021 BUDGET
\$ 176,000	\$ 194,000	\$ 239,000

ACCOUNT
DESCRIPTION

Cost of labor and expenses incurred in the general supervision and direction of maintenance of distribution system facilities.

EXPLANATION OF 2021
BUDGET PROJECTION

1 Gas Division Manager of Engineering (50%)	\$ 75,500
2 Gas Division Manager of Operations (35%)	52,000
3 Gas Division Operations Supervisor (35%)	39,000
4 Gas Division Engineer (50%)	56,800
5 Manager On-Call (\$300/Week)	15,700
Total	\$ 239,000

NOTE:

Balance of Gas Division Manager of Engineering salary is in accounts 870200 (20%) & 880200 (30%)
 Balance of Gas Division Manager of Operations salary is in accounts 870200 (35%) and 882200 (30%)
 Balance of Gas Division Operations Supervisor salary is in accounts 870200 (35%) and 882200 (30%)
 Balance of Gas Division Engineer's salary is in account 880200 (50%)

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT
 OPERATIONS AND MAINTENANCE EXPENSES
 FYE 12/31/2021

DIVISION:	Gas	G/L ACCOUNT NO:	886200
ACCOUNT TITLE:	Maintenance of Structures & Improvements		

ACCOUNT HISTORY

<u>2020</u> <u>BUDGET</u>	<u>2020</u> <u>FORECAST</u>	<u>2021</u> <u>BUDGET</u>
<u>\$ 117,000</u>	<u>\$ 180,000</u>	<u>\$ 122,000</u>

ACCOUNT
DESCRIPTION

Cost of labor, materials used, and expenses incurred
in the maintenance of the Gas Division's buildings and structures.

EXPLANATION OF 2021
BUDGET PROJECTION

1 Building and grounds maintenance: painting, yard work - mowing lawns, janitorial supplies, heating and air conditioning, etc.		\$ 30,000
2 Monitoring services for the security systems located at the operations office on Vine St and the South Middleborough Gate Station.		3,900
3 Heating and A/C mini-split unit for gas division Training room		10,200
4 Gas Plant clean up project (oil gasification)		24,600
Comm of MA DEP annual compliance fee		1,000
5 Labor		<u>52,300</u>
Total		<u><u>\$ 122,000</u></u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT
 OPERATIONS AND MAINTENANCE EXPENSES
 FYE 12/31/2021

DIVISION:	Gas	G/L ACCOUNT NO:	887200
ACCOUNT TITLE:	Maintenance of Mains		

ACCOUNT HISTORY

<u>2020</u> <u>BUDGET</u>	<u>2020</u> <u>FORECAST</u>	<u>2021</u> <u>BUDGET</u>
<u>\$ 53,000</u>	<u>\$ 11,000</u>	<u>\$ 26,000</u>

ACCOUNT DESCRIPTION

Cost of labor, materials used and expenses incurred in the maintenance of distribution mains.

EXPLANATION OF 2021 BUDGET PROJECTION

1 Leak repairs, valve repairs and general system maintenance operations	\$	7,000
2 Paint Main Casing on Wood St Bridge over Railroad Track		5,000
3 Police Details		4,000
4 Labor		10,000
Total	<u>\$</u>	<u>26,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT
 OPERATIONS AND MAINTENANCE EXPENSES
 FYE 12/31/2021

DIVISION:	Gas	G/L ACCOUNT NO:	889200
ACCOUNT TITLE:	Maintenance of Measuring & Regulating Station Equipment - General		

ACCOUNT HISTORY

<u>2020</u>	<u>2020</u>	<u>2021</u>
<u>BUDGET</u>	<u>FORECAST</u>	<u>BUDGET</u>
<u>\$ 68,000</u>	<u>\$ 66,000</u>	<u>\$ 67,000</u>

ACCOUNT DESCRIPTION

Cost of labor, materials used and expenses incurred in the maintenance and operation of measuring and regulator station equipment.

EXPLANATION OF 2021 BUDGET PROJECTION

Regulator station and large volume metering stations painting and maintenance work. Calibration of pressure recording charts, conducting pressure surveys, maintenance of district regulator stations regulators and relief valves.

1 Vegetation control	\$	1,700
2 Odorant deliveries		4,000
3 Preventative Maintenance contract for the NJEX odorizer		5,500
4 Preventative Maintenance supplies for the heater at the So. Middleborough gate station meter and regulators.		1,000
5 Masking agents for odorant, parts for recording charts, boots and misc. parts for annual preventative maintenance of over pressure protection devices and pressure regulators, misc supplies for pressure and temperature transmitters.		13,000
6 Annual calibration of chart recorders and transmitters		17,000
7 Labor		24,800
Total	\$	<u>67,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT
 OPERATIONS AND MAINTENANCE EXPENSES
 FYE 12/31/2021

DIVISION:	Gas	G/L ACCOUNT NO:	892200
ACCOUNT TITLE:	Maintenance of Services		

ACCOUNT HISTORY

<u>2020</u>	<u>2020</u>	<u>2021</u>
<u>BUDGET</u>	<u>FORECAST</u>	<u>BUDGET</u>
<u>\$ 163,000</u>	<u>\$ 115,000</u>	<u>\$ 163,000</u>

ACCOUNT
DESCRIPTION

This account includes the cost of labor, materials and expenses incurred in the maintenance of services line replacements due to age and condition. ie: fittings, valves, black top, loam seed and restoration of property.

EXPLANATION OF 2021
BUDGET PROJECTION

1 Labor cost for this account is also used for the gas divisions employees: Sick Time Vacation Time Personal Time Holiday Pay Funeral Leave	\$140,000
2 Material - Pipe, valves, fittings, black top, gravel, loam seed for the restoration of property.	21,000
3 Police Details	2,000
Total	<u><u>\$163,000</u></u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT
 OPERATIONS AND MAINTENANCE EXPENSES
 FYE 12/31/2021

DIVISION:	Gas	G/L ACCOUNT NO:	894200
ACCOUNT TITLE:	Maintenance of Other Equipment		

ACCOUNT HISTORY

<u>2020</u>	<u>2020</u>	<u>2021</u>
<u>BUDGET</u>	<u>FORECAST</u>	<u>BUDGET</u>
<u>\$ 17,000</u>	<u>\$ 19,000</u>	<u>\$ 20,000</u>

ACCOUNT
DESCRIPTION:

Cost of labor, materials used and expenses incurred in the maintenance of all other distribution system equipment not provided for elsewhere.

EXPLANATION OF 2021
BUDGET PROJECTION

1 Repair of power equipment, heat fusion equipment, drilling & tapping equipment, lawn equipment, two way radios, etc.	\$ 17,000
2 Labor	3,000
Total	<u>\$ 20,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

OPERATIONS AND MAINTENANCE EXPENSES

FYE 12/31/2021

DIVISION:	Gas	G/L ACCOUNT NO:	896200
ACCOUNT TITLE:	Maintenance of Power Operated Equipment		

ACCOUNT HISTORY

<u>2020</u>	<u>2020</u>	<u>2021</u>
<u>BUDGET</u>	<u>FORECAST</u>	<u>BUDGET</u>
<u>\$ 62,000</u>	<u>\$ 54,000</u>	<u>\$ 64,000</u>

ACCOUNT DESCRIPTION:

Cost of labor, materials used and expenses incurred in the maintenance of power operated equipment.

EXPLANATION OF 2021 BUDGET PROJECTION

1 Maintenance of compressors, trenchers, backhoes, vehicles and other power operated equipment.	\$ 28,000
2 Diesel	9,000
3 Gasoline	20,000
4 CNG (No more CNG Vehicles in the fleet)	-
5 Labor	7,000
Total	<u>\$ 64,000</u>

MIDDLEBOROUGH GAS and ELECTRIC

BUDGETED GENERAL and ADMINISTRATIVE EXPENSES

FYE 12/31/2021

ACCOUNT NUMBER	ACCOUNT TITLE	2020 BUDGET	2020 FORECAST	2021 BUDGET	BUD-21 to BUD-20 % CHANGE	BUD-21 to FCST-20 % CHANGE
902100/200	Meter Reading Expense	\$156,000	\$134,000	\$160,000	3%	19%
903100/200	Customer Records/Customer Service	770,000	700,000	703,000	-9%	0%
903110/120	Bank Fee Expense	255,000	240,000	256,000	0%	7%
903310/320	Customer Records - Computer Costs	220,000	180,000	223,000	1%	24%
903410/420	Collection Agency Fees	18,000	1,000	18,000	0%	1700%
904100/200	Provision for Uncollectable Accounts	320,000	300,000	320,000	0%	7%
909100/200	Energy Audit Program - Residential	275,000	221,000	300,000	9%	36%
909110/120	Energy Audit Program - C & I	85,000	57,000	107,000	26%	88%
909210/220	Economic Development	25,000	19,000	25,000	0%	32%
913100/200	Marketing Expense	55,000	48,000	65,000	18%	35%
913110/120	Communications Expense	85,000	75,000	85,000	0%	13%
920100/200	Administrative & General Salaries	597,000	450,000	681,000	14%	51%
921100/200	Business Supplies & Expenses	200,000	135,000	230,000	15%	70%
923100/200	Outside Services	123,000	75,000	123,000	0%	64%
924100/200	Insurance - Property & Liability	410,000	470,000	412,000	0%	-12%
925100/200	Insurance Exp. - Workman's Comp.	100,000	70,000	100,000	0%	43%
925310/320	Sick Pay Accrual	90,000	80,000	96,000	7%	20%
925510/510	Vacation Pay Accrual	78,000	88,000	78,000	0%	-11%
926100/200	Insurance Exp. - Health & Life	870,000	870,000	890,000	2%	2%
926110/120	Employee Pension Liability	1,500,000	1,440,000	1,600,000	7%	11%
926310/320	Misc. Employee Benefits	80,000	80,000	85,000	6%	6%
926410/410	Other Post-Employment Benefits	200,000	100,000	200,000	0%	100%
930110/120	Advertising Expense - General	10,000	3,000	10,000	0%	233%
930210/220	Bond Administrative Costs	10,000	7,000	10,000	0%	43%
930410/420	Education, Training, and Conferences	60,000	45,000	60,000	0%	33%
930610/620	Membership Expense	52,000	54,000	56,000	8%	4%
930810/820	Misc. General & Admin Expenses	44,000	43,000	38,000	-14%	-12%
931100/200	Reimbursement for Municipal Svcs.	117,000	110,000	119,000	2%	8%
Total General & Administrative		\$6,805,000	\$6,095,000	\$7,050,000	3.6%	15.7%

NOTE: "Grey" shaded accounts listed above, contain funds for energy conservation measures for our customers.

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

GENERAL AND ADMINISTRATIVE EXPENSES

F.Y.E. 12/31/2021

DIVISION:	Business	G/L ACCOUNT NO:	902100/200
ACCOUNT TITLE:	METER READING EXPENSE		

ACCOUNT HISTORY

<u>2019</u> <u>ACTUAL</u>	<u>2020</u> <u>BUDGET</u>	<u>2020</u> <u>FORECAST</u>	<u>2021</u> <u>BUDGET</u>
<u>\$ 129,615</u>	<u>\$ 156,000</u>	<u>\$ 134,000</u>	<u>\$ 160,000</u>

ACCOUNT
DESCRIPTION:

Costs incurred relating to reading meters
for the department

EXPLANATION OF 2021
BUDGET PROJECTION

1 Two (2) Meter Readers	\$ 136,000
2 Safety Shoes	1,000
3 Fill-ins(from line dept.)	23,000
	-
Total	\$ 160,000

Meter Installations in acct. 586100

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

GENERAL AND ADMINISTRATIVE EXPENSES

F.Y.E. 12/31/2021

DIVISION:	Business	G/L ACCOUNT NO:	903100/200
ACCOUNT TITLE:	Customer Records & Collections Expense - Customer Service		

ACCOUNT HISTORY

2019 <u>ACTUAL</u>	2020 <u>BUDGET</u>	2020 <u>FORECAST</u>	2021 <u>BUDGET</u>
<u>\$ 666,533</u>	<u>\$ 770,000</u>	<u>\$ 700,000</u>	<u>\$ 703,000</u>

ACCOUNT
DESCRIPTION:

Costs incurred in connection with work on customer applications, contracts, orders, credit investigations, billing, collections on account, and complaints.

Includes contract increase, plus longevity, & enhanced productivity incentive.

EXPLANATION OF 2021
BUDGET PROJECTION

1 Manager of Operations (60% Adm /40% CSR)	\$ 44,000
2 CSR Supervisor	-
3 CSR Team Leader	74,500
4 Senior Clerks. (3)	206,000
5 Clerk clerical CSRs. (0)	-
6 Part time summer clerks	15,500
7 Part time CSR and Acctng help	25,000
8 After hours turn-ons for shut-offs	12,000
9 Two (2) accounting clerks labor	124,000
10 Telephone - Business Division	40,000
11 Postage - For billings	100,000
12 Bill Printing Service/Lease	62,000
	<hr/>
Total	<u>\$ 703,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

GENERAL AND ADMINISTRATIVE EXPENSES

F.Y.E. 12/31/2021

DIVISION:	Business	G/L ACCOUNT NO:	903110/120
ACCOUNT TITLE:	Bank Fee Expense		

ACCOUNT HISTORY

2019 <u>ACTUAL</u>	2020 <u>BUDGET</u>	2020 <u>FORECAST</u>	2021 <u>BUDGET</u>
<u>\$ 213,835</u>	<u>\$ 255,000</u>	<u>\$ 240,000</u>	<u>\$ 256,000</u>

ACCOUNT
DESCRIPTION:

Bank charges incurred as a result of
processing customer check/charge transactions.

EXPLANATION OF 2021
BUDGET PROJECTION

1 RBS transaction fees	\$ 51,000
2 **Sage/Invoice Cloud fees (For credit card payments)	180,000
3 **Invoice Cloud ACH fees	20,000
4 Online Resources (ACH-pmts)	5,000
	<hr/>
Total	<u>\$ 256,000</u>

**Includes web-payment fees introduced Aug. 2014

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

GENERAL AND ADMINISTRATIVE EXPENSES

F.Y.E. 12/31/2021

DIVISION:	Business	G/L ACCOUNT NO:	903310/320
ACCOUNT TITLE:	Customer Records & Collections Expense - Computer Costs		

ACCOUNT HISTORY

2019 <u>ACTUAL</u>	2020 <u>BUDGET</u>	2020 <u>FORECAST</u>	2021 <u>BUDGET</u>
\$ 153,128	\$ 220,000	\$ 180,000	\$ 223,000

ACCOUNT
DESCRIPTION:

Cost incurred relating to the
computer system used by the department

EXPLANATION OF 2021
BUDGET PROJECTION

1 Software License (Harris)	\$ 70,000
2 IT support services(Miracle)	70,000
3 Hardware Maintenance Costs	10,000
4 Great Plains Support Renewal	15,000
5 AMI/Handheld meter maintenance fees	10,000
6 mPower & GIS Maint.	20,000
7 Email Maintenance - Cloud Based	20,000
8 Firewall Licensing Renewal	3,000
9 Miscellaneous PC hardware/software	5,000
Total	<u>\$ 223,000</u>

Note: Higher incidence of IT support needed for
newly & updated pass access and camera security,
handheld meter reader testing, more field laptops maint,
new Email Maintenance - Cloud base

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

GENERAL AND ADMINISTRATIVE EXPENSES

F.Y.E. 12/31/2021

DIVISION:	Business	G/L ACCOUNT NO:	903410/420
ACCOUNT TITLE:	Collection Agency Fees		

ACCOUNT HISTORY

2019 <u>ACTUAL</u>	2020 <u>BUDGET</u>	2020 <u>FORECAST</u>	2021 <u>BUDGET</u>
\$ 4,459	\$ 18,000	\$ 1,000	\$ 18,000

ACCOUNT DESCRIPTION: Cost incurred relating to the Collection of Customer accounts turned over to Agencies.

EXPLANATION OF 2021 BUDGET PROJECTION		
1 Collection Agency payments	\$	15,000
2 Plymouth County Registry of Deeds		2,000
3 Wareham District Court - Small Claims		1,000
		<hr/>
Total	\$	<u>18,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

GENERAL AND ADMINISTRATIVE EXPENSES

F.Y.E. 12/31/2021

DIVISION:	Business	G/L ACCOUNT NO:	904100/200
ACCOUNT TITLE:	Provision for Uncollectable Accounts Expense		

ACCOUNT HISTORY

<u>2019</u> <u>ACTUAL</u>	<u>2020</u> <u>BUDGET</u>	<u>2020</u> <u>FORECAST</u>	<u>2021</u> <u>BUDGET</u>
<u>\$ 236,695</u>	<u>\$ 320,000</u>	<u>\$ 300,000</u>	<u>\$ 320,000</u>

ACCOUNT
DESCRIPTION:

Costs incurred in "writing off"
customer accounts deemed uncollectable
by the utility.

EXPLANATION OF 2021
BUDGET PROJECTION

1 Represents approx .63% of \$48mm.of revenues	\$ 320,000
Total	<u>\$ 320,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

GENERAL AND ADMINISTRATIVE EXPENSES

F.Y.E. 12/31/2021

DIVISION:	Business	G/L ACCOUNT NO:	909100/200
ACCOUNT TITLE:	Energy Audit Program - Residential		

ACCOUNT HISTORY

<u>2019</u> <u>ACTUAL</u>	<u>2020</u> <u>BUDGET</u>	<u>2020</u> <u>FORECAST</u>	<u>2021</u> <u>BUDGET</u>
<u>\$ 173,191</u>	<u>\$ 275,000</u>	<u>\$ 221,000</u>	<u>\$ 300,000</u>

ACCOUNT
DESCRIPTION:

Costs related to Residential Energy Conservation Services Programs as required by Mass Division of Energy Resources and in support of our strategic planning goals for deregulation and restructuring of the industry.

EXPLANATION OF 2021
BUDGET PROJECTION

1 Residential Conservation Services expenses inclusive of: Home Energy Audits Home Weatherization Rebates Appliance Rebates	\$ 135,000
2 Residential Solar Rebate	75,000
3 RCS Informational expenses	4,000
4 Weatherization Assistance Program	66,000
5 Electric Vehicle Charging Program	<u>20,000</u>
Total	<u><u>\$ 300,000</u></u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

GENERAL AND ADMINISTRATIVE EXPENSES

F.Y.E. 12/31/2021

DIVISION:	Business	G/L ACCOUNT NO:	909110/120
ACCOUNT TITLE:	Energy Services Program - Commercial/Municipal		

ACCOUNT HISTORY

<u>2019</u> <u>ACTUAL</u>	<u>2020</u> <u>BUDGET</u>	<u>2020</u> <u>FORECAST</u>	<u>2021</u> <u>BUDGET</u>
<u>\$ 44,260</u>	<u>\$ 85,000</u>	<u>\$ 57,000</u>	<u>\$ 107,000</u>

ACCOUNT
DESCRIPTION:

Costs related to Commercial and Municipal Energy Conservation and Data services in support of commercial customer and community energy conservation.

EXPLANATION OF 2021
BUDGET PROJECTION

1 *Municipal Energy audits & services working for targeted improvements. Also for commercial & small business energy evaluations to ID potential measures to be supported; Lighting rebates	\$ 97,000
2 **Technical assistance with High School building energy efficiency systems	<u>10,000</u>
Total	<u>\$ 107,000</u>

*NOTE: Potential depending on tech/opportunity

**NOTE: Dependent on economic opportunity

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

GENERAL AND ADMINISTRATIVE EXPENSES

F.Y.E. 12/31/2021

DIVISION:	Business	G/L ACCOUNT NO:	909210/220
ACCOUNT TITLE:	Economic Development		

ACCOUNT HISTORY

<u>2019</u>	<u>2020</u>	<u>2020</u>	<u>2021</u>
<u>ACTUAL</u>	<u>BUDGET</u>	<u>FORECAST</u>	<u>BUDGET</u>
<u>\$ 5,957</u>	<u>\$ 25,000</u>	<u>\$ 19,000</u>	<u>\$ 25,000</u>

ACCOUNT
DESCRIPTION:

Costs associated with the Department's efforts to support the service area's economic development activities.

EXPLANATION OF 2021
BUDGET PROJECTION

1 Advertisement (Chamber Directory)	\$ 700
2 Kramer Park Support	300
3 Joint efforts for community Promotion,	8,000
4 Downtown Upgrades, Lamps, LED	16,000
5 OECD, Chamber, Etc.	
	<hr/>
Total	<u>\$ 25,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

GENERAL AND ADMINISTRATIVE EXPENSES

F.Y.E. 12/31/2021

DIVISION:	Business	G/L ACCOUNT NO:	913100/200
ACCOUNT TITLE:	Marketing Expense		

ACCOUNT HISTORY

<u>2019</u> <u>ACTUAL</u>	<u>2020</u> <u>BUDGET</u>	<u>2020</u> <u>FORECAST</u>	<u>2021</u> <u>BUDGET</u>
<u>\$ 55,721</u>	<u>\$ 55,000</u>	<u>\$ 48,000</u>	<u>\$ 65,000</u>

ACCOUNT
DESCRIPTION:

Costs related to marketing programs developed by the Department as they relate to energy and other services in support of our goals for appropriate energy use and stable low rates for satisfied customers

EXPLANATION OF 2021
BUDGET PROJECTION

1 Department promotional activities, information and promotional materials	\$ 17,000
2 Advertisements-newspapers, media	22,000
3 Training	1,000
4 Professional marketing services	<u>25,000</u>
Total	<u>\$ 65,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

GENERAL AND ADMINISTRATIVE EXPENSES

F.Y.E. 12/31/2021

DIVISION:	Business	G/L ACCOUNT NO:	913110/120
ACCOUNT TITLE:	Communication Expense		

ACCOUNT HISTORY

<u>2019</u> <u>ACTUAL</u>	<u>2020</u> <u>BUDGET</u>	<u>2020</u> <u>FORECAST</u>	<u>2021</u> <u>BUDGET</u>
<u>\$ 67,392</u>	<u>\$ 85,000</u>	<u>\$ 75,000</u>	<u>\$ 85,000</u>

ACCOUNT
DESCRIPTION:

Costs related to Communication Programs for the General Public and customer population in support of customer service, safety and public involvement and awareness of MG&E issues.

EXPLANATION OF 2021
BUDGET PROJECTION

1 Department informational and printed materials	\$ 52,000
2 Advertisements-gazettes, newspapers, media	5,000
3 Professional services	28,000
	<hr/>
Total	<u>\$ 85,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

GENERAL AND ADMINISTRATIVE EXPENSES

F.Y.E. 12/31/2021

DIVISION:	Business	G/L ACCOUNT NO:	920100/200
ACCOUNT TITLE:	Administrative & General Salaries		

ACCOUNT HISTORY

<u>2019</u> <u>ACTUAL</u>	<u>2020</u> <u>BUDGET</u>	<u>2020</u> <u>FORECAST</u>	<u>2021</u> <u>BUDGET</u>
<u>\$ 448,027</u>	<u>\$ 597,000</u>	<u>\$ 450,000</u>	<u>\$ 681,000</u>

ACCOUNT DESCRIPTION: Costs incurred in compensating office administrative and management personnel. Includes longevity bonus and productivity enhancement incentive and salary increase.

EXPLANATION OF 2021 BUDGET PROJECTION

1 General Manager (30% Adm/ 25% Gas/ 25% Elect/ 20% Trans)	\$ 62,500
2 Asst. General Manager (30% Adm/ 10% Gas/ 40% Elect/ 20% Trans)	48,000
3 Accounting Manager (80% Adm /20% Trns)	90,000
4 Manager of Operations (60% Adm /40% CSR)	67,000
5 Marketing/Communications Manager (100% Administrative)	135,000
6 Accounting Supervisor (80% Adm /20% Trns)	69,500
7 Human Resources Supervisor (100% Administrative)	76,500
8 IT/Security Analyst (100% Administrative)	56,500
9 Public Communication Assistant (100% Administrative)	45,000
10 Executive/HR Assistant (50% 920100 / 50% 930810)	31,000
Total	<u>\$ 681,000</u>

Note: Administrative share is allocated @ **80%** Elec. & **20%** Gas

*2021 Budget - added new positions Manager of Operations, Asst.General Manager and Executive/HR Asst

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

GENERAL AND ADMINISTRATIVE EXPENSES

F.Y.E. 12/31/2021

DIVISION:	Business	G/L ACCOUNT NO:	921100/200
ACCOUNT TITLE:	Business Supplies & Expenses		

ACCOUNT HISTORY

<u>2019</u> <u>ACTUAL</u>	<u>2020</u> <u>BUDGET</u>	<u>2020</u> <u>FORECAST</u>	<u>2021</u> <u>BUDGET</u>
<u>\$ 109,869</u>	<u>\$ 200,000</u>	<u>\$ 135,000</u>	<u>\$ 230,000</u>

ACCOUNT
DESCRIPTION:

Costs incurred in connection with the purchase of supplies necessary to facilitate the day to day operation of the Dept. It also includes Administrative facility maintenance & security.

EXPLANATION OF 2021
BUDGET PROJECTION

1 Preparation of business forms	\$ 12,000
2 Administrative facility maintenance*	78,500
3 Landscaping Contractors (Administration Bldg.)	10,500
4 Administrative facility security (Protection1/ICU)	15,000
5 Cybersecurity Audit	30,000
6 Maintenance of business equipment	16,000
7 Business supplies	35,000
8 Business communication (cell phones & long distance calls)	<u>33,000</u>
Total	<u>\$ 230,000</u>

* 2020 New facility cleaning service for Administration & Gas Divisions

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

GENERAL AND ADMINISTRATIVE EXPENSES

F.Y.E. 12/31/2021

DIVISION:	Business	G/L ACCOUNT NO:	923100/200
ACCOUNT TITLE:	Outside Services Employed		

ACCOUNT HISTORY

<u>2019</u> <u>ACTUAL</u>	<u>2020</u> <u>BUDGET</u>	<u>2020</u> <u>FORECAST</u>	<u>2021</u> <u>BUDGET</u>
<u>\$ 62,077</u>	<u>\$ 123,000</u>	<u>\$ 75,000</u>	<u>\$ 123,000</u>

ACCOUNT
DESCRIPTION:

Costs incurred for outside professional services and expertise to support legal, human resource and financial activities of the Dept.

EXPLANATION OF 2021
BUDGET PROJECTION

1 Legal - Town Counsel	\$ 5,000
2 Legal - General counsel/labor/employment	30,000
3 Audit/actuary	60,000
4 Drug Testing Consulting	13,000
5 Misc. Consulting Services	15,000
	<hr/>
Total	<u><u>\$ 123,000</u></u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

GENERAL AND ADMINISTRATIVE EXPENSES

F.Y.E. 12/31/2021

DIVISION:	Business	G/L ACCOUNT NO:	924100/200
ACCOUNT TITLE:	Insurance Expense - Property & Liability		

ACCOUNT HISTORY

<u>2019</u> <u>ACTUAL</u>	<u>2020</u> <u>BUDGET</u>	<u>2020</u> <u>FORECAST</u>	<u>2021</u> <u>BUDGET</u>
<u>\$ 348,285</u>	<u>\$ 410,000</u>	<u>\$ 470,000</u>	<u>\$ 412,000</u>

ACCOUNT
DESCRIPTION:

Insurance costs to help protect
the Dept. against losses and damages
to property, managers and
commissioners.

EXPLANATION OF 2021
BUDGET PROJECTION

Projected Insurance Premiums:

1 Property Boiler & Machinery	\$ 53,000
2 Public Officials Liability & Employment Practices	35,000
3 General Liability	65,000
4 Commercial Auto	65,000
5 Excess/Umbrella Liability	164,000
6 Crime	5,000
7 Cyber Security Insurance	20,000
8 Fiduciary Liability for OPEB	5,000
Total	<u><u>\$ 412,000</u></u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

GENERAL AND ADMINISTRATIVE EXPENSES

F.Y.E. 12/31/2021

DIVISION:	Business	G/L ACCOUNT NO:	925100/200
ACCOUNT TITLE:	Insurance Expense - Workers Compensation		

ACCOUNT HISTORY

<u>2019</u> <u>ACTUAL</u>	<u>2020</u> <u>BUDGET</u>	<u>2020</u> <u>FORECAST</u>	<u>2021</u> <u>BUDGET</u>
<u>\$ 67,137</u>	<u>\$ 100,000</u>	<u>\$ 70,000</u>	<u>\$ 100,000</u>

ACCOUNT
DESCRIPTION:

Costs incurred to insure the utility
against injuries and damage claims of
employees or others.

EXPLANATION OF 2021
BUDGET PROJECTION

1 Worker's Compensation	<u>\$ 100,000</u>
Total	<u>\$ 100,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

GENERAL AND ADMINISTRATIVE EXPENSES

F.Y.E. 12/31/2021

DIVISION:	Business	G/L ACCOUNT NO:	925310/320
ACCOUNT TITLE:	Sick Pay Accrual		

ACCOUNT HISTORY

<u>2019</u> <u>ACTUAL</u>	<u>2020</u> <u>BUDGET</u>	<u>2020</u> <u>FORECAST</u>	<u>2021</u> <u>BUDGET</u>
<u>\$ 71,332</u>	<u>\$ 90,000</u>	<u>\$ 80,000</u>	<u>\$ 96,000</u>

ACCOUNT DESCRIPTION: Sick Pay Accrual

EXPLANATION OF 2021 BUDGET PROJECTION

1 Amount accrued to sick pay for year	<u>\$ 96,000</u>
Total	<u><u>\$ 96,000</u></u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

GENERAL AND ADMINISTRATIVE EXPENSES

F.Y.E. 12/31/2021

DIVISION:	Business	G/L ACCOUNT NO:	925510/EA-GA
ACCOUNT TITLE:	Vacation Pay Accrual		

ACCOUNT HISTORY

<u>2019</u> <u>ACTUAL</u>	<u>2020</u> <u>BUDGET</u>	<u>2020</u> <u>FORECAST</u>	<u>2021</u> <u>BUDGET</u>
<u>\$ 98,449</u>	<u>\$ 78,000</u>	<u>\$ 88,000</u>	<u>\$ 78,000</u>

ACCOUNT DESCRIPTION: Vacation Pay Accrual

EXPLANATION OF 2021 BUDGET PROJECTION

1 Amount accrued to vacation pay for year	<u>\$ 78,000</u>
Total	<u><u>\$ 78,000</u></u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

GENERAL AND ADMINISTRATIVE EXPENSES

F.Y.E. 12/31/2021

DIVISION:	Business	G/L ACCOUNT NO:	926100/200
ACCOUNT TITLE:	Insurance Expense - Health & Life Insurance		

ACCOUNT HISTORY

	2019 <u>ACTUAL</u>	2020 <u>BUDGET</u>	2020 <u>FORECAST</u>	2021 <u>BUDGET</u>
***	\$ 595,119	\$ 870,000	\$ 870,000	\$ 890,000

ACCOUNT
DESCRIPTION:

Costs incurred by the Dept. in providing payments for employee medical benefits.

EXPLANATION OF 2021
BUDGET PROJECTION

Health & Life Insurance premiums charged by the Town.

NOTE: includes \$ 270,000 assessment for Department's retirees & surviving spouses.

1 Regular Health Insurance from Town	<u>\$ 890,000</u>
Total	<u><u>\$ 890,000</u></u>

*** **Note:** 2019 Actual had a credit of \$249,316 related to GASB 45, actual cash disbursement was \$844,435.

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

GENERAL AND ADMINISTRATIVE EXPENSES

F.Y.E. 12/31/2021

DIVISION:	Business	G/L ACCOUNT NO:	926110/120
ACCOUNT TITLE:	Employee Pension Liability		

ACCOUNT HISTORY

<u>2019</u> <u>ACTUAL</u>	<u>2020</u> <u>BUDGET</u>	<u>2020</u> <u>FORECAST</u>	<u>2021</u> <u>BUDGET</u>
<u>\$ 1,381,685</u>	<u>\$ 1,500,000</u>	<u>\$ 1,440,000</u>	<u>\$ 1,600,000</u>

ACCOUNT
DESCRIPTION:

The amount necessary to fund Department's share of the employee pension liability.

EXPLANATION OF 2021
BUDGET PROJECTION

1 Pension liability assessment charged by the Town and submitted to Plymouth County Retirement Assoc.(PCRA).	\$ 1,600,000
Total	<u>\$ 1,600,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

GENERAL AND ADMINISTRATIVE EXPENSES

F.Y.E. 12/31/2021

DIVISION:	Business	G/L ACCOUNT NO:	926310/320
ACCOUNT TITLE:	Misc. Employees Benefits		

ACCOUNT HISTORY

2019 <u>ACTUAL</u>	2020 <u>BUDGET</u>	2020 <u>FORECAST</u>	2021 <u>BUDGET</u>
<u>\$ 78,010</u>	<u>\$ 80,000</u>	<u>\$ 80,000</u>	<u>\$ 85,000</u>

ACCOUNT
DESCRIPTION:

Costs incurred by the utility in the
administration of the Department's
employee benefit program

EXPLANATION OF 2021
BUDGET PROJECTION

1 Payroll taxes for FICA & Medicare match	<u>\$ 85,000</u>
Total	<u>\$ 85,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

GENERAL AND ADMINISTRATIVE EXPENSES

F.Y.E. 12/31/2021

DIVISION:	Business	G/L ACCOUNT NO:	926410/EA-GA
ACCOUNT TITLE:	Other Post Employment Benefits - GASB 45		

ACCOUNT HISTORY

	2019 <u>ACTUAL</u>	2020 <u>BUDGET</u>	2020 <u>FORECAST</u>	2021 <u>BUDGET</u>
***	\$ (454,985)	\$ 200,000	\$ 100,000	\$ 200,000

ACCOUNT
DESCRIPTION:

The amount necessary to fund Department's share of current and future retirees for the cost of their medical insurance.

EXPLANATION OF 2021
BUDGET PROJECTION

Actuary determined liability for Post Employment Benefits for medical insurance. GASB 45	\$ 200,000
Total	<u>\$ 200,000</u>

*** **Note:** 2019 Actual had a credit of \$454,985 related to GASB 45, actual cash disbursement was \$0.

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

GENERAL AND ADMINISTRATIVE EXPENSES

F.Y.E. 12/31/2021

DIVISION:	Business	G/L ACCOUNT NO:	930110/120
ACCOUNT TITLE:	Advertising Expense-General		

ACCOUNT HISTORY

<u>2019</u> <u>ACTUAL</u>	<u>2020</u> <u>BUDGET</u>	<u>2020</u> <u>FORECAST</u>	<u>2021</u> <u>BUDGET</u>
<u>\$ 2,668</u>	<u>\$ 10,000</u>	<u>\$ 3,000</u>	<u>\$ 10,000</u>

ACCOUNT
DESCRIPTION:

Costs incurred by the Dept.
including labor and materials used in
advertising that is not sales related

EXPLANATION OF 2021
BUDGET PROJECTION

1 Advertising for bids - Electric	\$ 3,500
2 Advertising for bids - Gas	3,500
3 Advertising for bids - Admin	<u>3,000</u>
Total	<u>\$ 10,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

GENERAL AND ADMINISTRATIVE EXPENSES

F.Y.E. 12/31/2021

DIVISION:	Business	G/L ACCOUNT NO:	930210
ACCOUNT TITLE:	Bond Administration Costs		

ACCOUNT HISTORY

<u>2019</u> <u>ACTUAL</u>	<u>2020</u> <u>BUDGET</u>	<u>2020</u> <u>FORECAST</u>	<u>2021</u> <u>BUDGET</u>
<u>\$ 5,000</u>	<u>\$ 10,000</u>	<u>\$ 7,000</u>	<u>\$ 10,000</u>

ACCOUNT
DESCRIPTION:

Maintain **AA-** investment grade
credit rating with S&P Global

EXPLANATION OF 2021
BUDGET PROJECTION

1 Power supply contracts request a credit rating S&P Global's credit rating of MGED.	\$ 10,000
Total	<u>\$ 10,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

GENERAL AND ADMINISTRATIVE EXPENSES

F.Y.E. 12/31/2021

DIVISION:	Business	G/L ACCOUNT NO:	930410/420
ACCOUNT TITLE:	Education, Training, and Conferences		

ACCOUNT HISTORY

<u>2019</u>	<u>2020</u>	<u>2020</u>	<u>2021</u>
<u>ACTUAL</u>	<u>BUDGET</u>	<u>FORECAST</u>	<u>BUDGET</u>
<u>\$ 25,743</u>	<u>\$ 60,000</u>	<u>\$ 45,000</u>	<u>\$ 60,000</u>

ACCOUNT
DESCRIPTION:

Costs incurred by the Dept. in connection with the training and education of management and staff personnel.

EXPLANATION OF 2021
BUDGET PROJECTION

1 Commissioner conferences	\$ 1,000
2 APPA Conferences:	
Mktg./Communications Workshop	3,000
3 Accounting Workshops	3,000
4 DataSys Corp. - GP-Acctg.	2,000
5 APPA Annual Conference	3,000
6 APGA Conferences	3,000
7 NEPPA Annual Conference	3,000
8 Tuition reimbursement program	20,000
9 Employee (CSR's) seminars and training	14,000
10 MEAM conferences	2,000
11 mPower User Conference	6,000
	<hr/>
Total	<u>\$ 60,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

GENERAL AND ADMINISTRATIVE EXPENSES

F.Y.E. 12/31/2021

DIVISION:	Business	G/L ACCOUNT NO:	930610/620
ACCOUNT TITLE:	Membership Expense		

ACCOUNT HISTORY

<u>2019</u> <u>ACTUAL</u>	<u>2020</u> <u>BUDGET</u>	<u>2020</u> <u>FORECAST</u>	<u>2021</u> <u>BUDGET</u>
<u>\$ 50,941</u>	<u>\$ 52,000</u>	<u>\$ 54,000</u>	<u>\$ 56,000</u>

ACCOUNT
DESCRIPTION:

Costs incurred with utility participation
in various association memberships.

EXPLANATION OF 2021
BUDGET PROJECTION

1 Chamber of Commerce	\$ 3,000
2 APPA membership dues	17,000
3 NGA membership dues	7,000
4 APGA membership dues	5,500
5 NEPPA membership dues	17,500
6 MEAM membership + Miscellaneous dues	<u>6,000</u>
Total	<u>\$ 56,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

GENERAL AND ADMINISTRATIVE EXPENSES

F.Y.E. 12/31/2021

DIVISION:	Business	G/L ACCOUNT NO:	930810/820
ACCOUNT TITLE:	Miscellaneous General and Administrative Expenses		

ACCOUNT HISTORY

<u>2019</u> <u>ACTUAL</u>	<u>2020</u> <u>BUDGET</u>	<u>2020</u> <u>FORECAST</u>	<u>2021</u> <u>BUDGET</u>
<u>\$ 40,555</u>	<u>\$ 44,000</u>	<u>\$ 43,000</u>	<u>\$ 38,000</u>

ACCOUNT
DESCRIPTION:

Miscellaneous administrative costs incurred by the utility in connection with it's operation.

EXPLANATION OF 2021
BUDGET PROJECTION

Miscellaneous administrative expenses:

1 Clerk to the Board Salary	\$ 31,000
2 Federal Express Charges	1,000
3 Water Cooler Rental	500
4 Subscriptions	2,000
5 Miscellaneous	<u>3,500</u>
Total	<u>\$ 38,000</u>

MIDDLEBORO GAS AND ELECTRIC DEPARTMENT

GENERAL AND ADMINISTRATIVE EXPENSES

F.Y.E. 12/31/2021

DIVISION:	Business	G/L ACCOUNT NO:	931100/200
ACCOUNT TITLE:	Reimbursement for Municipal Services		

ACCOUNT HISTORY

<u>2019</u> <u>ACTUAL</u>	<u>2020</u> <u>BUDGET</u>	<u>2020</u> <u>FORECAST</u>	<u>2021</u> <u>BUDGET</u>
\$ 108,809	\$ 117,000	\$ 110,000	\$ 119,000

ACCOUNT
DESCRIPTION:

Indirect Costs billed to the Dept. by the Town
for the pass through of the cost of services
provided to the Dept.
ex. Payroll, banking, vendor payments,
weekly wire transfers to various vendors.

EXPLANATION OF 2021
BUDGET PROJECTION

1 Estimate of reimbursement expenses for municipal services provided by the Town	\$ 107,000
2 Our share of the Town's Audit fees	<u>12,000</u>
Total	<u>\$ 119,000</u>

MIDDLEBOROUGH GAS and ELECTRIC

CAPITAL ADDITIONS BUDGET SUMMARY F.Y.E. 12/31/2020

B-2021
VS.
B-2020

ACCOUNT #		Budget 2020	Forecast 2020	Budget 2021	
ELECTRIC DIVISION					
Transmission and Other Production Plant - Generator					
341100	Structures & Improvements-Solar Resources	\$ 300,000	\$ 340,000	\$ 10,000	-
344100	Generators (Peak-Shaving Generator)	360,000	79,000	345,000	-4.2%
352100	Structures & Improvements-Transmission	-	50,000	-	0.0%
353100	Station Equipment	45,000	86,000	125,000	177.8%
	Total Other Production Plant - Generator	705,000	555,000	480,000	
Distribution Plant					
364100	Poles, Towers and Fixtures	217,000	351,000	220,000	1.4%
365100	Overhead Conductors & Devices	1,014,000	797,000	981,000	-3.3%
366100	Underground Conduit	16,000	1,000	17,000	6.3%
367100	Underground Conductors & Devices	232,000	240,000	237,000	2.2%
368100	Line Transformers	323,000	307,000	213,000	-34.1%
369100	Electric Services	102,000	68,000	105,000	2.9%
370100	Electric Meters	3,625,000	6,000	1,625,000	-55.2%
373100	Street Lighting & Signal Systems	19,000	34,000	19,000	0.0%
	Total Distribution Plant	5,548,000	1,804,000	3,417,000	-38.4%
General Plant					
360100	Land and Land Rights	350,000	-	350,000	0.0%
390100	Structures & Improvements	300,000	62,000	300,000	0.0%
391100	Office Furniture & Equipment	100,000	70,000	100,000	0.0%
392100	Transportation Equipment	355,000	315,000	300,000	-15.5%
394100	Tools, Shop & Garage Equipment	34,000	5,000	34,000	0.0%
395100	Laboratory Equipment	2,000	-	2,000	0.0%
396100	Power Operated Equipment	10,000	2,000	10,000	0.0%
397100	Communications Equipment	80,000	35,000	190,000	137.5%
	Total General Plant	1,231,000	489,000	1,286,000	4.5%
	Total Electric Division	\$ 7,484,000	\$ 2,848,000	\$ 5,183,000	-30.7%
GAS DIVISION					
Distribution Plant					
376200	Gas Mains - Distribution	\$ 244,000	\$ 215,000	\$ 117,000	-52.0%
380200	Service Lines	211,000	45,000	246,000	16.6%
381200	Gas Meters	1,058,000	70,000	1,138,000	7.6%
	Total Distribution Plant	1,513,000	330,000	1,501,000	-0.8%
General Plant					
304200	Land and Land Rights	-	-	-	-
390200	Structures & Improvements	91,000	122,000	91,000	0.0%
391200	Office Furniture & Equipment	98,000	120,000	86,000	-12.2%
392200	Transportation Equipment	120,000	25,000	37,000	-69.2%
394200	Tools, Shop & Garage Equipment	18,000	6,000	19,000	5.6%
395200	Laboratory Equipment	10,000	2,000	22,000	120.0%
396200	Power Operated Equipment	5,000	41,000	5,000	-
397200	Communications Equipment	-	-	-	-
398200	Miscellaneous Equipment	-	-	-	-
	Total General Plant	342,000	316,000	260,000	-24.0%
	Total Gas Division	\$ 1,855,000	\$ 646,000	\$ 1,761,000	-5.1%
BUSINESS DIVISION					
General Plant					
390100	Structures & Improvements	\$ 280,000	63,000	\$ 80,000	-71.4%
391100	Office Furniture & Equipment	100,000	70,000	250,000	150.0%
392100	Transportation Equipment	-	-	-	-
	Total Business Division	\$ 380,000	\$ 133,000	\$ 330,000	-13.2%
	TOTAL CAPITAL ADDITIONS	\$ 9,719,000	\$ 3,627,000	\$ 7,274,000	-25.2%

MIDDLEBORO GAS AND ELECTRIC
CAPITAL BUDGET ADDITIONS WORKSHEET

F/Y/E 12/31/2021

DIVISION: ELECTRIC
PREPARED BY: W.E.T.
ACCT. TITLE: Solar Resources

ACCOUNT #: 341100

ITEM AND REASON FOR EXPENDITURE	New - N Replace-R	BUDGET
Solar Resources	N	\$ 10,000
TOTAL EXPENDITURES		\$ 10,000

MIDDLEBORO GAS AND ELECTRIC
CAPITAL BUDGET ADDITIONS WORKSHEET

F/Y/E 12/31/2021

DIVISION: ELECTRIC
 PREPARED BY: W.E.T.
 ACCT. TITLE: Generators

 ACCOUNT #: **344100**

ITEM AND REASON FOR EXPENDITURE	New - N Replace-R	BUDGET
Peak-Shaving Generation - steps & decking around door		\$ 15,000
Security gate & door auto. security access control		10,000
Fence South Middleboro Gate Station		60,000
Fiber Optic cable for SCADA control of generator		260,000
TOTAL EXPENDITURES		<u>\$ 345,000</u>

MIDDLEBORO GAS AND ELECTRIC
CAPITAL BUDGET ADDITIONS WORKSHEET

F/Y/E 12/31/2021

DIVISION: ELECTRIC
PREPARED BY: W.E.T.
ACCT. TITLE: Structures and Improvements

ACCOUNT #: **352100**

ITEM AND REASON FOR EXPENDITURE	New - N Replace-R	BUDGET
TOTAL EXPENDITURES		<u>\$ -</u>

MIDDLEBORO GAS AND ELECTRIC
 CAPITAL BUDGET ADDITIONS WORKSHEET

F/Y/E 12/31/2021

DIVISION: ELECTRIC
 PREPARED BY: W.E.T.
 ACCT. TITLE: Station Equipment

ACCOUNT #: **353100**

ITEM AND REASON FOR EXPENDITURE	New - N Replace-R	BUDGET
Station Equipment - NERC Testing		\$ 45,000
Hot Line swiches substation breakers		80,000
TOTAL EXPENDITURES		<u>\$ 125,000</u>

MIDDLEBORO GAS AND ELECTRIC
 CAPITAL BUDGET ADDITIONS WORKSHEET

F/Y/E 12/31/2021

DIVISION: ELECTRIC
 PREPARED BY: W.E.T.
 ACCT. TITLE: Land and Land Rights

ACCOUNT #: **360100**

ITEM AND REASON FOR EXPENDITURE	New - N Replace-R	BUDGET
New Sub-Station - easement rights and environmental		\$ 350,000
TOTAL EXPENDITURES		<u>\$ 350,000</u>

MIDDLEBORO GAS AND ELECTRIC
CAPITAL BUDGET ADDITIONS WORKSHEET

F/Y/E 12/31/2021

DIVISION:	ELECTRIC
PREPARED BY:	W.E.T.
ACCT. TITLE:	Poles, Towers & Fixtures
ACCOUNT #:	364100

ITEM AND REASON FOR EXPENDITURE	New - N Replace-R	BUDGET
Pole supply for replacement and system expansion	N/R	\$ 91,000
Crossarms used for supporting conductors	N/R	3,000
Hardware of various types for attaching equipment to poles	N/R	31,000
Payroll Labor Costs	R	95,000
 TOTAL EXPENDITURES		 \$ 220,000

MIDDLEBORO GAS AND ELECTRIC
CAPITAL BUDGET ADDITIONS WORKSHEET

F/Y/E 12/31/2021

DIVISION:	ELECTRIC
PREPARED BY:	W.E.T.
ACCT. TITLE:	Overhead Conductors and Devices
ACCOUNT #:	365100

ITEM AND REASON FOR EXPENDITURE	New - N Replace-R	BUDGET
Primary conductor for upgrades, lateral lines & extensions	N/R	\$ 650,000
5000 ft. secondary cable for secondary mains	N/R	12,000
Overhead switchgear	N/R	24,000
Reclosers		60,000
Hardware	N/R	26,000
Scada System Upgrade (75%)	N/R	75,000
Payroll Labor Costs	R	134,000
 TOTAL EXPENDITURES		 <u>\$ 981,000</u>

MIDDLEBORO GAS AND ELECTRIC
CAPITAL BUDGET ADDITIONS WORKSHEET

F/Y/E 12/31/2021

DIVISION:	ELECTRIC
PREPARED BY:	W.E.T.
ACCT. TITLE:	Underground Conduit and Devices
ACCOUNT #:	366100

ITEM AND REASON FOR EXPENDITURE	New - N Replace-R	BUDGET
Condulators used on cable risers	N	\$ 2,000
Payroll Labor Costs		15,000
 TOTAL EXPENDITURES		\$ 17,000

MIDDLEBORO GAS AND ELECTRIC
CAPITAL BUDGET ADDITIONS WORKSHEET

F/Y/E 12/31/2021

DIVISION:	ELECTRIC
PREPARED BY:	W.E.T.
ACCT. TITLE:	Underground Conductors and Devices
ACCOUNT #:	367100

ITEM AND REASON FOR EXPENDITURE	New - N Replace-R	BUDGET
Cable and connectors for residential and commercial projects	N	\$ 101,000
Payroll Labor Costs		136,000
TOTAL EXPENDITURES		\$ 237,000

MIDDLEBORO GAS AND ELECTRIC
CAPITAL BUDGET ADDITIONS WORKSHEET

F/Y/E 12/31/2021

DIVISION: ELECTRIC
PREPARED BY: W.E.T.
ACCT. TITLE: Line Transformers

ACCOUNT #: **368100**

ITEM AND REASON FOR EXPENDITURE	New - N Replace-R	BUDGET
New aerial and padmount transformers for replacement and expansion	N/R	\$ 180,000
Capacitors and controls needed for power factor correction	N/R	7,000
Payroll Labor Costs		<u>26,000</u>
TOTAL EXPENDITURES		<u><u>\$ 213,000</u></u>

MIDDLEBORO GAS AND ELECTRIC
CAPITAL BUDGET ADDITIONS WORKSHEET

F/Y/E 12/31/2021

DIVISION: ELECTRIC
PREPARED BY: W.E.T.
ACCT. TITLE: Electric Services

ACCOUNT #: **369100**

ITEM AND REASON FOR EXPENDITURE	New - N Replace-R	BUDGET
Aluminum service cable in #2 strand, #1/0 and #4/0 sizes for new and replacement installations.	N/R	\$ 21,000
Payroll Labor Costs		<u>84,000</u>
TOTAL EXPENDITURES		<u><u>\$ 105,000</u></u>

MIDDLEBORO GAS AND ELECTRIC
CAPITAL BUDGET ADDITIONS WORKSHEET

F/Y/E 12/31/2021

DIVISION: ELECTRIC
 PREPARED BY: W.E.T.
 ACCT. TITLE: Electric Meters

 ACCOUNT #: **370100**

ITEM AND REASON FOR EXPENDITURE	New - N Replace-R	BUDGET
New single and poly phase kilowatt-hour meters. Required for new installations and replacements	N/R	\$ 20,000
Metering transformers: used in metering large services - CT's	N	5,000
Smarter Meter Conversion & Data collection System carry over	N	1,000,000
Smart Residential Meter Exchange		<u>600,000</u>
TOTAL EXPENDITURES		<u><u>\$ 1,625,000</u></u>

MIDDLEBORO GAS AND ELECTRIC
CAPITAL BUDGET ADDITIONS WORKSHEET

F/Y/E 12/31/2021

DIVISION:	ELECTRIC
PREPARED BY:	W.E.T.
ACCT. TITLE:	Street Lighting and Signal System
ACCOUNT #:	373100

ITEM AND REASON FOR EXPENDITURE	New - N Replace-R	BUDGET
Light fixtures for rental and street lighting. These are LED fixtures in 48 watt 94 watt	N/R	\$ 11,000
Payroll Labor Costs		8,000
 TOTAL EXPENDITURES		 <u>\$ 19,000</u>

MIDDLEBORO GAS AND ELECTRIC
CAPITAL BUDGET ADDITIONS WORKSHEET

F/Y/E 12/31/2021

DIVISION: ELECTRIC
PREPARED BY: W.E.T.
ACCT. TITLE: Structures and Improvements

ACCOUNT #: **390100**

ITEM AND REASON FOR EXPENDITURE	New - N Replace-R	BUDGET
Wareham Street building repair planning	R	\$ 300,000
TOTAL EXPENDITURES		<hr style="width: 100%;"/> <u>\$ 300,000</u>

MIDDLEBORO GAS AND ELECTRIC
CAPITAL BUDGET ADDITIONS WORKSHEET

F/Y/E 12/31/2021

DIVISION:	ELECTRIC
PREPARED BY:	W.E.T.
ACCT. TITLE:	Office Furniture and Equipment
ACCOUNT #:	391100

ITEM AND REASON FOR EXPENDITURE	New - N Replace-R	BUDGET
Miscellaneous office equipment - Toughbook-PCs	N/R	\$ 25,000
Computer software	N/R	5,000
Mapping system / Workorder automation	N/R	50,000
Security cameras upgrade from analog to digital & electric gate auto. security access control.	N/R	<u>20,000</u>
TOTAL EXPENDITURES		<u><u>\$ 100,000</u></u>

MIDDLEBORO GAS AND ELECTRIC
 CAPITAL BUDGET ADDITIONS WORKSHEET

F/Y/E 12/31/2021

DIVISION: ELECTRIC
 PREPARED BY: W.E.T.
 ACCT. TITLE: Transportation Equipment

ACCOUNT #: **392100**

ITEM AND REASON FOR EXPENDITURE	New - N Replace-R	BUDGET
Replace Truck # 4 bucket truck	R	\$ 260,000
4-wheel drive pickup truck	N	40,000
TOTAL EXPENDITURES		<u>\$ 300,000</u>

MIDDLEBORO GAS AND ELECTRIC
CAPITAL BUDGET ADDITIONS WORKSHEET

F/Y/E 12/31/2021

DIVISION:	ELECTRIC
PREPARED BY:	W.E.T.
ACCT. TITLE:	Tools, Shop and Garage Equipment
ACCOUNT #:	394100

ITEM AND REASON FOR EXPENDITURE	New - N Replace-R	BUDGET
Miscellaneous tools and equipment, such as compression tools and fittings, hydraulic tools, etc.	N/R	\$ 34,000
TOTAL EXPENDITURES		\$ 34,000

MIDDLEBORO GAS AND ELECTRIC
CAPITAL BUDGET ADDITIONS WORKSHEET

F/Y/E 12/31/2021

DIVISION: ELECTRIC
PREPARED BY: W.E.T.
ACCT. TITLE: Laboratory Equipment

ACCOUNT #: **395100**

ITEM AND REASON FOR EXPENDITURE	New - N Replace-R	BUDGET
Test meters, instruments and equipment	N/R	\$ 2,000
 TOTAL EXPENDITURES		 <u>\$ 2,000</u>

MIDDLEBORO GAS AND ELECTRIC
 CAPITAL BUDGET ADDITIONS WORKSHEET

F/Y/E 12/31/2021

DIVISION: ELECTRIC
 PREPARED BY: W.E.T.
 ACCT. TITLE: Power Operated Equipment

ACCOUNT #: **396100**

ITEM AND REASON FOR EXPENDITURE	New - N Replace-R	BUDGET
Miscellaneous tools		\$ 10,000
		<hr/>
TOTAL EXPENDITURES		<u>\$ 10,000</u>

MIDDLEBORO GAS AND ELECTRIC
CAPITAL BUDGET ADDITIONS WORKSHEET

F/Y/E 12/31/2021

DIVISION: ELECTRIC
PREPARED BY: W.E.T.
ACCT. TITLE: Communication Equipment

ACCOUNT #: **397100**

ITEM AND REASON FOR EXPENDITURE	New - N Replace-R	BUDGET
Truck radio upgrades		\$ 5,000
Scada system upgrade (25%)		25,000
Communication antenna		110,000
Remote Readings		<u>50,000</u>
TOTAL EXPENDITURES		<u><u>\$ 190,000</u></u>

MIDDLEBORO GAS AND ELECTRIC
CAPITAL BUDGET ADDITIONS WORKSHEET

F/Y/E 12/31/2021

DIVISION:	BUSINESS
PREPARED BY:	K.N.
ACCT. TITLE:	Structures and Improvements
ACCOUNT #:	390100

ITEM AND REASON FOR EXPENDITURE	New - N Replace-R	BUDGET
Facility flooring	R	\$ 10,000
Philander Washburn House - Replace Storm Windows & Main Door	N/R	50,000
Unexpected Facility repairs - (Historical House)	R	20,000
TOTAL EXPENDITURES		\$ 80,000

MIDDLEBORO GAS AND ELECTRIC
CAPITAL BUDGET ADDITIONS WORKSHEET

F/Y/E 12/31/2021

DIVISION: **BUSINESS**
 PREPARED BY: K.N.
 ACCT. TITLE: Office Furniture and Equipment

ACCOUNT #: **391100**

ITEM AND REASON FOR EXPENDITURE	New - N Replace-R	BUDGET
Replace computer workstations Email & Core main Servers	N/R	\$ 35,000
Upgrade software and peripheral hardware Licensing and security software	N/R	35,000
Harris/NorthStar Billing System Upgrade Additional mCare upgrade	N/R	30,000
Meter Data Management(MDM) Program	N	150,000
Total capital expenditures		<u><u>\$ 250,000</u></u>

MIDDLEBORO GAS AND ELECTRIC
CAPITAL BUDGET ADDITIONS WORKSHEET

F/Y/E 12/31/2021

DIVISION: **BUSINESS**
PREPARED BY: K.N.
ACCT. TITLE: Transportation Equipment
ACCOUNT #: **392100**

ITEM AND REASON FOR EXPENDITURE	New - N Replace-R	BUDGET
TOTAL EXPENDITURES		<hr/> <u>\$ -</u>

MIDDLEBOROUGH GAS and ELECTRIC

CAPITAL ADDITIONS BUDGET SUMMARY

F.Y.E. 12/31/2020

GAS DIVISION		Budget 2020	Forecast 2020	Budget 2021	B-2021 VS. B-2020
<u>Distribution Plant</u>					
376200	Gas Mains - Distribution	\$ 244,000	\$ 215,000	\$ 117,000	-52.0%
380200	Service Lines	211,000	45,000	246,000	16.6%
381200	Gas Meters	1,058,000	70,000	1,138,000	7.6%
Total Distribution Plant		1,513,000	330,000	1,501,000	-0.8%
<u>General Plant</u>					
304200	Land and Land Rights	-	-	-	
390200	Structures & Improvements	91,000	122,000	91,000	0.0%
391200	Office Furniture & Equipment	98,000	120,000	86,000	-12.2%
392200	Transportation Equipment	120,000	25,000	37,000	-69.2%
394200	Tools, Shop & Garage Equipment	18,000	6,000	19,000	5.6%
395200	Laboratory Equipment	10,000	2,000	22,000	120.0%
396200	Power Operated Equipment	5,000	41,000	5,000	0.0%
397200	Communications Equipment	-	-	-	
398200	Miscellaneous Equipment	-	-	-	
Total General Plant		342,000	316,000	260,000	-24.0%
Total Gas Division		\$ 1,855,000	\$ 646,000	\$ 1,761,000	-5.1%

MIDDLEBORO GAS AND ELECTRIC
CAPITAL BUDGET ADDITIONS WORKSHEET

F/Y/E 12/31/2021

DIVISION: GAS
PREPARED BY: RCL
ACCT. TITLE: GAS MAINS-DISTRIBUTION

ACCOUNT #: 376200

ITEM AND REASON FOR EXPENDITURE	New - N Replace-R	BUDGET
<u>Material & Supplies for Low-Pressure Cast-Iron and Bare Steel Main Replacement:</u>		
North Main St. - Replace 900 ft of 6" LP cast iron Pipe with 4" IP high density pipe From 219 North Main St to North St	R	10,000
East Main St. - Replace 600 ft of 4" LP cast iron pipe with 2" IP high density pipe Fr. North St to 16 East Main St	R	5,000
Coombs St. - Replace 1000 ft of 4" LP cast iron pipe with 2" IP high density pipe Fr. North St to East Main St	R	7,000
Southwick St. - Replace 620 ft of 4" LP cast iron pipe with 2" IP high density pipe Fr. Oak St to 19 Southwick St	R	5,000
Reland St. - Replace 720 ft of 4" LP cast iron pipe with 2" IP high density pipe Fr. North Main St to School St	R	6,000
<u>Materials & Supplies for New Main Extensions</u>		
2" miscellaneous main extensions	N	9,000
Payroll Labor Cost for gas main replacements & extensions		63,000
Police Details		<u>12,000</u>
TOTAL EXPENDITURES		<u><u>\$ 117,000</u></u>

MIDDLEBORO GAS AND ELECTRIC
CAPITAL BUDGET ADDITIONS WORKSHEET

F/Y/E 12/31/2021

DIVISION: GAS
PREPARED BY: RCL
ACCT. TITLE: SERVICE LINES

ACCOUNT #: **380200**

ITEM AND REASON FOR EXPENDITURE	New - N Replace-R	BUDGET
Material for 83 service line replacements, due to main replacements on:		
Wareham St 9 service lines	R	\$ 7,100
Barden Hill Rd 10 service lines	R	7,600
North Main St 13 service lines	R	10,400
East Main St 3 service lines	R	2,400
Coombs St 18 service lines	R	14,400
Southwick St 13 service lines	R	10,400
School St 5 service lines	R	4,000
Bloomfield Ave 3 service lines	R	2,400
Reland St 9 service lines	R	7,100
Material for the installation of 1 new commercial & industrial service line	N	2,600
Material for the installation of 3 new residential service lines for Thrush Hollow Ln	N	2,600
Material for the installation of 3 new gas service lines in Gateway Estates off Precinct Street	N	3,000
Material for the installation of 2 new gas service lines in Whitetail Estates off Chestnut Street	N	1,800
Material for the installation of 7 new gas service lines for John Perkins Way off Highland Street	N	6,000
Related Payroll Labor Costs		140,000
Police Details		24,200
TOTAL EXPENDITURES		<u>\$ 246,000</u>

MIDDLEBORO GAS AND ELECTRIC
CAPITAL BUDGET ADDITIONS WORKSHEET

F/Y/E 12/31/2021

DIVISION: GAS
PREPARED BY: RCL
ACCT. TITLE: GAS METERS

ACCOUNT #: **381200**

ITEM AND REASON FOR EXPENDITURE	New - N Replace-R	BUDGET
Smarter Meter Conversion & Data collection System	N	\$ 1,000,000
Gas meters and regulators for new commercial and industrial service lines	N	10,000
Gas meters and regulators for 40 new residential service lines for sub-divisions approved prior to moratorium	N	8,000
Residential Gas Meter Replacements for 100 Meters	R	10,000
Related Payroll Labor Costs		110,000
TOTAL EXPENDITURES		<u>\$ 1,138,000</u>

MIDDLEBORO GAS AND ELECTRIC
CAPITAL BUDGET ADDITIONS WORKSHEET

F/Y/E 12/31/2021

DIVISION: GAS
PREPARED BY: RCL
ACCT. TITLE: STRUCTURES & IMPROVEMENTS

ACCOUNT #: **390200**

ITEM AND REASON FOR EXPENDITURE	New - N Replace-R	BUDGET
Replacement of the SCADA Cabinet at Thompson St. Regulator Station (carry over 2020)	R	\$ 11,000
Replace/Update Infrared Fire Detection System in LNG Yard (carry over 2020)	R	25,000
Replace/Update Gas Monitoring System in LNG Yard (50% done in 2018) (carry over 2020)	R	10,000
Replace Shelving for Gas Inventory Fittings (OSHA Compliance)	R	15,000
Overpressure Protection Devices at 3 LP Reg. Stations	N	30,000
 TOTAL EXPENDITURES		 <u>\$ 91,000</u>

MIDDLEBORO GAS AND ELECTRIC
CAPITAL BUDGET ADDITIONS WORKSHEET

F/Y/E 12/31/2021

DIVISION:	GAS
PREPARED BY:	RCL
ACCT. TITLE:	OFFICE FURNITURE & EQUIPMENT
ACCOUNT #:	391200

ITEM AND REASON FOR EXPENDITURE	New - N Replace-R	BUDGET
Miscellaneous software and computer equipment need to document fittings and supplies used in the field for bar codes and Quick Reads. (Carry Over)	N	\$ 12,000
Miscellaneous computer equipment for the departments training facility - Computers, video projector and Toughbook pc's	N	6,000
Mpower Mapping reporting system, workorder automation & Meter Tracking	N	40,000
Replace Station Operator Furniture	R	3,000
Replace DDS SCADA Communication System (carry over 2020)	R	25,000
 TOTAL EXPENDITURES		 \$ 86,000

MIDDLEBORO GAS AND ELECTRIC
 CAPITAL BUDGET ADDITIONS WORKSHEET

F/Y/E 12/31/2021

DIVISION: GAS
 PREPARED BY: RCL
 ACCT. TITLE: TRANSPORTATION EQUIPMENT

ACCOUNT #: **392200**

ITEM AND REASON FOR EXPENDITURE	New - N Replace-R	BUDGET
Replace Trk. 14, 2003 Chevy Silverado 1/2 Ton Pick-up	R	\$ 37,000
TOTAL EXPENDITURES		<u>\$ 37,000</u>

MIDDLEBORO GAS AND ELECTRIC
 CAPITAL BUDGET ADDITIONS WORKSHEET

F/Y/E 12/31/2021

DIVISION: GAS
 PREPARED BY: RCL
 ACCT. TITLE: TOOLS, SHOP & GARAGE EQUIPMENT

ACCOUNT #: **394200**

ITEM AND REASON FOR EXPENDITURE	New - N Replace-R	BUDGET
Miscellaneous new and replacement tools for the construction dept. such as a compactor, electro-fusion machine, generator, etc.	N/R	\$ 6,000
Replace back-up Compressor (carry over 2020)	R	5,000
Replace Hole-Hog Road Boring Tool (carry over 2020)	R	8,000
TOTAL EXPENDITURES		<u>\$ 19,000</u>

MIDDLEBORO GAS AND ELECTRIC
CAPITAL BUDGET ADDITIONS WORKSHEET

F/Y/E 12/31/2021

DIVISION: GAS
PREPARED BY: RCL
ACCT. TITLE: COMMUNICATION EQUIPMENT

ACCOUNT #: **397200**

ITEM AND REASON FOR EXPENDITURE	New - N Replace-R	BUDGET
TOTAL EXPENDITURES		<u>\$ -</u>

MIDDLEBORO GAS AND ELECTRIC
 CAPITAL BUDGET ADDITIONS WORKSHEET

F/Y/E 12/31/2021

DIVISION: GAS
 PREPARED BY: RCL
 ACCT. TITLE: Miscellaneous Equipment

ACCOUNT #: **398200**

ITEM AND REASON FOR EXPENDITURE	New - N Replace-R	BUDGET
		\$ -
		<hr/>
TOTAL EXPENDITURES		<u>\$ -</u>