### Village of Haskins Electric Rate Study Results

Mike Johnson Manager Utility Financial Solutions 616-393-9722



### Objectives

- Review Electric Department
  - Financial Projections & Targets
    - Debt Coverage Ratios
    - Minimum Cash Reserves
    - Target Operating Income
- Review Cost of service results
  - Cost to service each class of customers
  - Monthly Customer Charges

### Assumptions

- Purchase Power
  - 2019 0.1% decrease
  - 2020 0.4% decrease
  - 2021 2.4% decrease
  - 2022 3% increase
- Annual Inflation 2.5%
- Annual Growth 1.3%
- Plant \$1250/customer
- Meters A \$150, B \$500, C
   \$1000
- Depreciated Plant (60%)

- Capital Plan
  - 10% of plant



### Projection without Rate Change

	Projected						Adjusted		Target					
Fiscal	Rate	Debt Coverage	Pr	ojected		Projected	Operating	O	perating	Pro	jected Cash	Reco	mmended	
Year	Adjustments	Ratio	E	xpenses	Revenues		Income		ncome	Balances		me Balances Minir		mum Cash
2018	0.0%	(3.77)	\$	722,391	\$	649,283	\$(73,108)	\$	16,331	\$	289,648	\$	177,139	
2019	0.0%	(4.10)		734,213		657,724	(76,489)		18,398		183,444		180,396	
2020	0.0%	(4.22)		745,841		666,274	(79,567)		20,460		76,246		183,469	
2021	0.0%	(3.09)		747,545		674,936	(72,609)		22,523		(21,916)		185,318	
2022	0.0%	(5.55)		772,815		678,311	(94,504)		24,593		(139,739)		190,072	



# Projection with Recommended Rate Change

	Projected				Adjusted	Target		
Fiscal	Rate	Debt Coverage	Projected	Projected	Operating	Operating	Projected Cash	Recommended
Year	Adjustments	Ratio	Expenses	Revenues	Income	Income	Balances	Minimum Cash
2018	3.5%	(1.15)	\$ 722,391	\$ 670,324	\$(52,067)	\$ 16,331	\$ 310,689	\$ 177,139
2019	3.5%	1.54	734,213	702,805	(31,408)	18,398	249,671	180,396
2020	3.5%	4.63	745,841	736,859	(8,982)	20,460	213,389	183,469
2021	3.5%	9.18	747,545	772,564	25,019	22,523	213,541	185,318
2022	3.5%	10.23	772,815	803,602	30,787	24,593	222,077	190,072



### Target One Debt Coverage Ratio (No Change)

Description	Proj	ected 2018	Pr	rojected 2019	Pro	jected 2020	Pro	ojected 2021	Pro	jected 2022
Debt Coverage Ratio										
Net Income	\$	(73,016)	\$	(76,786)	\$	(80,264)	\$	(73,708)	\$	(95,846)
Add Depreciation/Amortization Expense		39,914		41,222		43,837		46,452		49,067
Add Interest Expense		2,874		2,746		2,614		2,479		2,341
Cash Available for Debt Service	\$	(30,227)	\$	(32,819)	\$	(33,813)	\$	(24,776)	\$	(44,438)
Debt Principal and Interest	\$	8,010	\$	8,010	\$	8,010	\$	8,010	\$	8,010
Projected Debt Coverage Ratio (Covenants)	ĝ	(3.77)		(4.10)		(4.22)		(3.09)		(5.55)
Minimum Debt Coverage Ratio		1.4		1.4		1.4		1.4		1.4



### Target Two Minimum Cash Reserve

Description	Proje	ected 2018	Pr	ojected 2019	Pro	jected 2020	Р	rojected 2021	Pro	ojected 2022
Minimum Cash Reserve Allocation										
Operation & Maintenance Less Depreciation Expense		12.3%		12.3%		12.3%		12.3%		12.3%
Purchase Power Expense		12.3%		12.3%		12.3%		12.3%		12.3%
Historical Rate Base		3%		3%		3%		3%		3%
Current Portion of Debt Service Payment		100%		100%		100%		100%		100%
Five Year Capital Improvements - Net of bond proceeds		20%		20%		20%		20%		20%
Calculated Minimum Cash Level										
Operation & Maintenance Less Depreciation Expense	\$	22,431	\$	22,992	\$	23,567	\$	24,156	\$	24,760
Purchase Power Expense		61,710		62,445		62,981		62,280		64,469
Historical Rate Base		19,613		21,574		23,535		25,496		27,458
Current Portion of Debt Service Reserve		8,010		8,010		8,010		8,010		8,010
Next Years Capital Improvements - Net of bond proceeds		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~								
Five Year Capital Improvements - Net of bond proceeds		65,375		65,375		65,375		65,375		65,375
Minimum Cash Reserve Levels	\$	177,139	\$	180,396	\$	183,469	\$	\$ 185,318	\$	190,072
Projected Cash Reserves	\$	289,648	\$	183,444	\$	76,246	\$	\$ (21,916)	\$	(139,739)



# Target Three Target Operating Income

Description	Proj	ected 2018	Pro	jected 2019	Pro	ojected 2020	Pro	jected 2021	Pro	jected 2022
Target Operating Income Determinants										
Net Book Value/Working Capital	\$	326,875	\$	351,028	\$	372,567	\$	391,490	\$	407,798
Outstanding Principal on Debt		109,840		104,575		99,179		93,649		87,979
System Equity	\$	217,035	\$	246,453	\$	273,387	\$	297,841	\$	319,819
Target Operating Income Allocation										
Interest on Debt		2.62%		2.63%		2.64%		2.65%		2.66%
System Equity		6.20%		6.35%		6.53%		6.73%		6.96%
Target Operating Income										
Interest on Debt	\$	2,874	\$	2,746	\$	2,614	\$	2,479	\$	2,341
System Equity	\$	13,456	\$	15,652	\$	17,846	\$	20,044	\$	22,252
Target Operating Income	\$	16,331	\$	18,398	\$	20,460	\$	22,523	\$	24,593
Projected Operating Income	\$	(73,108)	\$	(76,489)	\$	(79,567)	\$	(72,609)	\$	(94,504)
Rate of Return in %		5.0%		5.2%		5.5%		5.8%		6.0%



#### **Electric Cost of Service Results**

			Р	rojected		
Customer Class	Cost of Service			evenues	% Change	
Schedule A	\$	560,964	\$	468,882	19.6%	
Schedule B		85,574		86,809	-1.4%	
Schedule C		44,073		45,482	-3.1%	
Total	\$	690,611	\$	601,173	14.9%	



### Monthly Charge

	COS	Customer	Current Average				
Customer Class		harge		mer Charge			
Schedule A	\$	12.00	\$	5.50			
Schedule B		26.22		25.00			
Schedule C		96.36		100.00			



#### Summary of Recommendations

#### Electric Department

- 3.5% Rate increase in 2018-2020 annually
- Increase Residential Customer Charge annually by \$2
- Continue to move toward Cost of Service



### Questions?