

Town of Ashland NH Electric Rate Study Preliminary Findings

Ashland Municipal Electric Department
August 3, 2026

Introduction – Principles of Cost of Service and Rate Design

- A. Objectives of rate design
- B. Cost allocation
- C. Rate design process

A. Objectives of Rate Design

- ◆ Adequacy
- ◆ Fairness
- ◆ Competitiveness
- ◆ Stability
- ◆ Clarity

Objectives of Rate Design

Adequacy

Rate (and other) revenues should cover the utility's operating expenses and fund the renewal and expansion of the plant to provide reliable service

Measure: overall rate of return within the statutory guidelines of 5% to 8%

Objectives of Rate Design

Fairness

The rate paid by each type (class) of customer should reflect as accurately as possible the cost of providing service to that class of customer

Measure: customer class rate of return

Objectives of Rate Design

Competitiveness

The cost of energy to each customer should be competitive with the cost of energy paid by comparable customers to other energy providers in the immediate vicinity

Measure: typical bill comparisons

Objectives of Rate Design

Stability

The average cost of energy paid by any customer should not fluctuate excessively from month to month or year to year

Measure:

- Monthly fluctuations caused by changes in PCA (not an issue for WED)
- Year-to-year fluctuations caused by base rate changes

Objectives of Rate Design

Clarity

The rate and its individual components should be easily understood by the customer and the amount of the bill should be verifiable with a minimum of effort

Measure: you know it when you see it

B. Cost Allocation

- ◆ Assigns the utility's revenue requirements to each customer class
- ◆ Plant and expenses allocated on the basis of three factors:
 - Customer
 - Demand
 - Energy

Allocation Factors

Customer

Costs which are related to the number of customers rather than the amount of energy consumed

Examples: metering and billing expenses, customer accounts, services

Allocation Factors

Demand - Distribution

Costs which are related to the maximum rate at which the customer uses energy, reflecting the size of facilities required to serve the customer

Examples: transformers, lines

Allocation Factors

Demand – Capacity and Transmission

Costs which are related to the customer's contribution to the system demand during the hour of the monthly or annual billing period

Examples: Forward Capacity and network transmission costs

Allocation Factors

Energy

Costs which are related solely to the amount of energy consumed by the customer

Examples: purchased energy charges

C. Rate Design Process

- ◆ Historic test year cost of service study
- ◆ Proforma test year cost of service study
- ◆ Develop rate designs

Historic Test Year Cost of Service Study

- ◆ Uses full historic year's data
- ◆ Allocates costs to each rate class (Residential, Commercial, etc.)
- ◆ Compares actual revenues from each class to allocated costs to determine rate of return.

Rate of Return by Customer Class 2025

DESCRIPTION	Units	2025 Test Year Total	Residential	GS 3-Phase	Space Heat	General Service	Industrial Primary	Lighting Municipal Street
			<i>Rate 3</i>	<i>Rate 4</i>	<i>Rate 5</i>	<i>Rate 2&7</i>	<i>Rate 1&8</i>	

TEST PERIOD

TOTAL ANNUAL REVENUES (2)	\$	3,884,223	1,640,748	879,027	671,515	475,146	205,554	12,233
TOTAL ANNUAL EXPENSES (1)	\$	<u>3,979,653</u>	<u>2,027,661</u>	<u>781,589</u>	<u>592,121</u>	<u>379,962</u>	<u>183,579</u>	<u>14,498</u>
RETURN (NET INCOME) (2)	\$	(95,430)	(386,913)	97,438	79,395	95,185	21,975	(2,265)
TOTAL GROSS PLANT, DEC 31 (2)	\$	5,388,444	3,063,364	720,371	773,747	433,841	147,124	248,872
RATE OF RETURN	%	-1.8	-12.6	13.5	10.3	21.9	14.9	-0.9

Summary:

Rate of Return by Customer Class

- ◆ Total revenues minus total expenses equals net income, or return on rate base
- ◆ The calculated rate of return on gross (undepreciated) plant is negative 1.8%
 - Net income was negative \$95 thousand
- ◆ Individual class rates of return vary from minus 12.6% for Residential to 21.9% for General Service
 - These rates of return are toward the wide end of the normal range for municipal electric utility rates
 - Residential rates are ordinarily designed to break even (0% return)

Develop Rate Designs

- ◆ Produce adequate revenue to cover operating expenses plus fund capital improvements
- ◆ Send clear and correct price signals to customers

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Adequacy of Present Rates (\$000)

	2024 Actual	2025 Actual
Revenue	\$2,999	\$3,884
Expense	3,095	3,979
Net Income	(\$97)	(\$95)

Rates have not covered expenses for the last two years despite a significant increase in February, 2025. Power costs are the chief driver of expenses and are not expected to decrease in the future.

Town of Ashland

Assessment of Present Rates

- ◆ **Adequacy:** Present rates are not adequate to fund current and forecast levels of expenses
- ◆ **Fairness:** Present rates subsidize residential customers more than is standard in municipal utility practice
- ◆ **Competitiveness:** Present rates are competitive with rates of neighboring utilities, although increases could erode this
- ◆ **Stability:** Ashland rates need to be adjusted to meet forecast revenue requirements, should be stable thereafter
- ◆ **Clarity:** Present rate schedules should be simplified – eliminating the electric heat rate and eliminating block rates

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Rate Design Objectives

- ◆ Increase net income to approximately \$215 thousand
- ◆ Simplify rate structure
 - Eliminate block rates that provide an incentive for increased usage
 - Eliminate Rate 5 Electric Heat and move existing customers to Rate 3 Residential
 - Create a rate for large Municipal customers, specifically the Water and Sewer department
- ◆ Reduce the amount of the subsidy to residential customers