Price Regulation and Ratemaking: Perspectives from Colorado

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Overview

- Electric Utility Rate Regulation in Colorado
- Ratemaking Principles
- The Rate Case





Rate Regulation in Colorado

Colorado Utility Regulation

- Administrative regulation of prices, entry, and other aspects of utility behavior used to deal with real or imagined problems of a monopoly utility
- Rate regulation
 - Balance between efficient pricing (P = MC) and electric utility's viability (revenues < total cost)
 - Break even prices" established by regulator in absence of government subsidies
- Entry regulation
 - Exclusive rights to serve (franchise)





Rate Regulated Electric Utilities





- 1.2 million customers
- Denver Metro Area including Boulder, Grand Junction, certain mountain areas
- 6,650 MW Peak
- 34,200 GWh Annual Sales
- Provides natural gas service



Black Hills/Colorado Electric Utility Company

- 90,000 customers
- Pueblo, Canon City, Rocky Ford
- 380 MW Peak
- 2,000 GWh Annual Sales
- Provides natural gas service





Authority and Obligation

- Authority from Article XXV of the Colorado Constitution and Title 40 of Colorado Revised Statutes
- Paramount consideration to the public interest, balancing:
 - Needs of customers for safe and reliable utility services at reasonable rates
 - Needs of utilities to earn a reasonable profit and to sustain reliable infrastructure
- Rate cases are quasi-judicial: litigated proceedings under formal administrative law process; conducted "on the record" where representation by an attorney is often necessary





Public Interest Ratemaking

- The public interest considers the "just and reasonableness" of the rates
- The Commission takes into account:
 - Affordability of service
 - Access to service (rural areas)
 - Public finance needs through rate revenues
 - Price discrimination where one group of customers subsidizes another group





Ratemaking Principles

Colorado Rate Mechanisms

Base rates recover:

- Expenses such as operations, maintenance, administrative, general expenses, taxes, and depreciation
- Returns on rate base (RoR)
- Not fuel expenses and not purchased energy expenses

Adjustment clauses recover:

- Fuel (coal and natural gas)
- Purchased energy (from IPPs through long-term Purchased Power Agreements or PPAs) and from others through short-term market purchases
- Purchased capacity (from IPPs through long-term PPAs)
- Energy efficiency
- Renewables (incremental costs only)





Rates Set Forth in Tariffs

- A tariff is the contract between the utility and the consumer
- Establishes prices
 - Charges are fixed and nonnegotiable until next rate case
 - Customers must be served at these prices
- Sets forth terms and conditions for service
 - Defines obligations on both sides of the meter
- Changes require regulatory approval

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P.C. Box 840 Deriver, CC 80 201-0840	Sub. Fifth Revised	Cancela 30 Sheet No. 30
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SCHEDUL	E R	
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MONTHLY RATE Service and Facility Charge: .		\$ 6.25
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MUNITALY MINIMUM		\$ 6.25
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PAIMENT AND LATE PAYMENT CHARGE Bills for electric service fifteen (15) days from date of h have the option of selecting a mod hate") for paying their bill. The to a maximum of fourteen (14) busis due date. Customers selecting a on the selected due date for a p (12) consecutive months. A maximum per month shall be applied to Commission jurisdictional charges billing date shown on the next bil	ill. Residential custo iffied due date ("Custom due date can be extende less days from the sched Custom Due Date will re- eriod not less than tw late payment charge of all billed balances that are not paid by	mers i Due d up hled main elve 1.0% for the
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Bonbright Principles

- Rates should be:
 - Simple, understandable, and acceptable
 - Uncontroversial as to interpretation
 - Likely to yield the revenue requirement
 - Revenue stability for utility
 - Rate stability for customers
 - Fair across customer classes
 - Not unduly discriminatory
 - Economically efficient
- Difficult to optimize—mutually exclusive objectives
- The regulator balances the objectives





Hope and Bluefield

- Hope Decision: Regulated prices must be set at levels that give the regulated utility a reasonable opportunity to recover the costs of investments
 - Returns on equity should be commensurate with the returns on investments for other firms with similar risks
 - Returns on investment should assure the financial integrity of the utility to maintain credit and to attract capital

(Federal Power Commission v. Hope Natural Gas Co., 320 US 591, 602(1944))

 Bluefield Decision: Rates that are too low are unjust, unreasonable and confiscatory, and their enforcement deprives a utility of Constitutional property rights

(Bluefield Water Works v. Public Service Commission, 262 U.S. 679, 690 (1923))





Decision-Making Dynamics

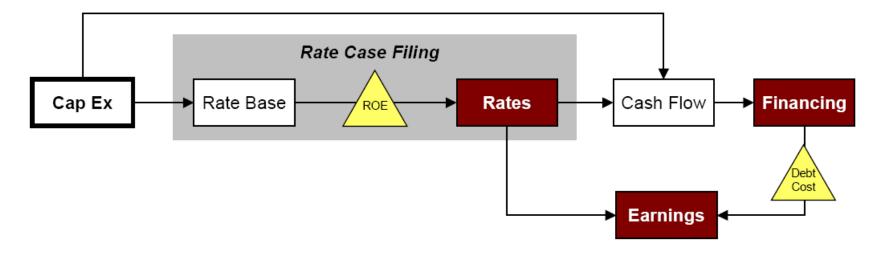
- No regulatory agency completely independent of political influences
- Public interest regulation conveys costs and benefits on groups as compared to alternatives
- Regulatory results often a function of:
 - Sophistication of utility's regulatory strategy
 - Stakeholder groups' ability to organize
 - Available resources to participate effectively in:
 - Governmental institutions' decision making (legislative, executive, judicial)
 - o Regulatory proceedings
 - o Settlement negotiations





The Rate Case

The General Rate Case



Source: CRA International





Rate Cases in Two Phases

- A Phase I rate case is where a utility requests permission from the CPUC to increase rates to meet an overall earnings short fall
 - A "revenue requirements" proceeding
- Once an earnings short fall is identified, the determination of which customers will have their rates raised to cover the earnings short fall is the subject of Phase II
 - The "spread of the rates"
 - Rate design





Rate Case Filing Process

- Utility files an "Advice Letter"
 - Letter includes copies of tariffs with new rates
 - Commission rules require form and context
 - Generally filed more than 30 days in advance of the date when the new rates go into effect
 - Written testimony often accompanies the advice letter (Direct Testimony)



P.O. Bux 840 Danver, Colerade 80201-0340

May 1, 2009

Advice No. 1335 - Electric

Public Ottlilles Commission of the State of Colorado 1560 Broadway, Boito 250 Tenver, Colorado 80202

The accompanying tariff sheets issued by Public Service Company of Orienade are sent to you for filling in adordance with the recommendance in the Annie Clubic Clubics Town.

CONORADO P.O.C. NO. \underline{A} - ENECTRIC

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Second Revised	26	Maintenance Charges for Sub. First Revisor	26
		Street Tighting Service	
Second Revised	25A	Maintenance Charges for Sub. Pfirst Revised	25A
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		Street Lighting Service	
Second Revised	260	Maintenance Charges for Sub. First Revised	260
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Commission Options

- Approve the rates
- Allow the rates to take effect without explicit approval (i.e., rates go into effect by operation of law)
- Suspend the rates (i.e., not allow them to go into effect for several months) and set the matter for hearing
 - Initiates a rate proceeding
 - Often the response to a protest from someone opposed to the rate increase





Rate Proceedings

- Interested parties respond to the Advice Letter and Direct Testimony (Answer Testimony)
- The utility responds to the Answer Testimony with written Rebuttal Testimony
- At a hearing, the written testimony is submitted into the official record
- Attorneys present witnesses and offer them for cross-examination
- Commissioners and their advisors ask the witnesses questions at the hearing
- Commission makes decision based upon record





Example Procedural Schedule

Docket No. AL09-299E

Phase I		Phase II	
Advice Letter Filed	May 1, 2009	Advice Letter Filed	May 1, 2009
Direct Testimony	May 1, 2009	Direct Testimony	May 1, 2009
Answer Testimony	September 4, 2009	Answer Testimony	October 2, 2009
Cross Answer / Rebuttal	October 13, 2009	Cross Answer / Rebuttal	November 25, 2009
Hearings (Revenue Requirements)	October 26 - November 3, 2009	Surrebuttal Testimony	December 18, 2009
Hearings	November 12-	Hearings	January 11 -
(Fuel Clause)	November 13, 2009	J	January 21, 2009
Commission Decision	On or Before December 24, 2009	Commission Decision	ASAP
New Rates Go Into Eff	fect January 1, 2010	New Rates Go Into Eff	Fect Spring 2010





Information Gathering Powers

- Reporting requirements
 - Annual financial reports (SEC 10-Ks, FERC Form 1s)
 - Production reports (system supply)
 - Service quality reports (outages, complaints, metering)
 - Miscellaneous reports (RESA budget, street lighting)
- Audit and inspection
 - Books, records, assets
 - Verification and litigation
- Subpoenas
 - Enforceable by courts
- Voluntary
 - Just ask!





Rate Proceeding Discovery

- Parties pose questions and request data from the utility through their attorneys
 - Information needed to respond to the utility's requested change in rates through Answer Testimony
- Utility obligated to respond to questions and data requests within a specified amount of time as long as the requests are relevant and reasonable
- Utility may object to requests
- Disputes concerning discovery settled by the Commissioners or by an Administrative Law Judge



