

Basic Types of Regulatory Regime

- **Rate of return regulation**
 - typically used in US
 - rates usually set annually
- **Incentive based regulation**
 - performance based regulation / ‘RPI - X’ regulation
 - rates / revenue set for a fixed number of years
 - incentive to make expenditure efficiency savings
- **In both cases:**
Total Revenue = Operating Costs + Depreciation + Return

Regulatory Finance Financial Foundations Of Rate Of Return Regulation

Carl Pechman



Regulatory Finance Financial Foundations Of Rate Of Return Regulation:

Regulatory Finance Howard E. Thompson, 2012-12-06 This monograph is concerned with the determination of the allowed rate of return in rate cases which in part determines the rates of charge to customers of public utilities Rate of return determination has been a central topic in utility regulation for a century Recent changes in the traditionally regulated markets electricity gas and telephone have shoved discussion of rate of return determination into the background replacing it by technology changes competition downsizing deregulation and regulatory incentive systems These new issues have made the regulatory sector which had the reputation of being stodgy and uninteresting an exciting field of study But rate of return is not dead It will play a key role in whatever the new structure of the regulated sector Separating generation from transmission and distribution will not eliminate the need for rate of return analysis in the electric utility industry Rather it may well increase the number of companies for which the rate of return needs to be determined It will play a fundamental role in the new regulatory environment Incentive systems in the regulated sector may be the wave of the future but they will use the required rate of return as a benchmark Rate case will persist Most rate cases include opposing testimony as to the fair rate of return or even the cost of capital for a public utility whose rates are at issue

Regulatory Risk and the Cost of Capital Burkhard Pedell, 2006-04-20 Austrian Controller Award 2005 This book develops a comprehensive concept of regulatory risk integrating existing theoretical and empirical research The focus is on explaining how the design of the regulatory system influences the risk of a rate regulated firm as well as on elaborating appropriate methods for the determination of the regulatory rate base and the allowed rate of return Regarding the regulatory rate base the question of whether market value of capital or book value of assets should be employed and the choice of the depreciation scheme are at the center of the discussion Specific methodical issues concerning cost of capital assessment for rate regulated firms are analyzed i.e. the circularity of rate regulation the sharing of risks between capital owners and rate payers the length of the regulatory review period the regulation of the capital structure as well as the conversion of a post tax to pre tax weighted average cost of capital

Regulating Power: The Economics of Electricity in the Information Age Carl Pechman, 2012-12-06 Modern industrial society functions with the expectation that electricity will be available when required By law electric utilities have the obligation to provide electricity to customers in a safe and adequate manner In exchange for this obligation utilities are granted a monopoly right to provide electricity to customers within well defined service territories However utilities are not unfettered in their monopoly power public utility commissions regulate the relationship between a utility and its customers and limit profits to a fair rate of return on invested capital From its inception through the late 1970s the electric utility industry's operational paradigm was to continue marketing electricity to customers and to build power plants to meet customer needs This growth was facilitated by a U.S. energy policy predicated upon the assumption that sustained electric growth was causally linked to social welfare Lovins 1977 The electric utility industry is now in transition from a vertically

integrated monopoly to a more competitive market Of the three primary components generation transmission and distribution of the traditional vertically integrated monopoly generation is leading this transformation The desired outcome is a more efficient market for the provision of electric service ultimately resulting in lower costs to customers This book focuses on impediments to this transformation In partiCular it argues that information control is a form of market power that inhibits the evolution of the market The analysis is presented within the context of the transformation of the U S Incentive Regulation and the Regulation of Incentives Glenn Blackmon,2012-12-06 The class is theory of price regulation assumed that the regulator knows the firm s costs the key piece of information that enables regulators to pressure fmns to choose appropriate behaviors The regulatory problem was reduced to a mere pricing problem the regulator s goal was to align price with marginal cost subject to the constraint that revenues must cover costs Elegant and important insights ensued The most important was that regulation was inevitably a struggle to achieve second best outcomes Ramsey pricing was a splendid example Reality proved harsh to regulatory theory The firm s costs are by no means known to the regulator At best the regulator may know how much is currently spent to provide services but hardly what costs would be if the firm vigorously pursued efficiency Even if the current cost curve were known to the regulator technologies change so swiftly that today s costs are a very poor indicator of tomorrow s and those are the costs that will determine the firm s future decisions With the burgeoning attention to information considerations and game theory in economics the regulator s problem of eliciting host information about cost has received considerable attention In most cases however it has been in context that are both static and stylized such analyses rarely capture many of the essential elements of real world regulatory issues This volume represents a fresh approach It reflects Glenn Blackmon s twin strengths a keen analytic mind and important experience in the regulatory arena *Regulation and Economic Analysis* R.L. Gordon,2013-03-09 *Regulation and Economic Analysis A Critique Over Two Centuries* argues that long experience with the practice of regulation creates a broad anti intervention consensus among economists This consensus is based on comparison of real intervention to real markets rather than an ideological preconception It is shown that economic theory can support all possible positions on intervention Much theory is too abstract to support any policy position many arguments about how intervention might help contain qualifications expressing doubts about whether the potential can be realized many theories illustrate the drawbacks of intervention The vast literature on these issues concentrates either on specific cases or polemics that exaggerate both sides of the argument *Regulation and Economic Analysis* seeks to show the depth of the discontent develop interpretations of economic theory that follow from skepticism about statism and provide selected illustrations The discussion begins with examination of general equilibrium theory and proceeds to discuss market failure with stress on monopoly and particularly what is deemed excessive concern with predatory behavior International trade issues transaction costs property rights economic theories of government the role of special institutions such as contracts the defects of macroeconomic and equity arguments for

regulating individual markets environmental economics and the defects of public land management policies are examined

Regulation and Macroeconomic Performance Brian L. Goff, 2012-12-06 This project grew out of a recognition that I could find no aggregate measure of the amount of regulation beyond crude proxies such as the number of pages in the Federal Register As I began to address this specific issue I became much more aware of two things the enormity of regulation in the U.S. economy and the relative absence of economic research into the macroeconomic consequences of those regulations While I would have readily granted the idea that many economists knew more about regulation than I did I would have thought my knowledge of regulation to be at least up to the average economist's My graduate training in the early to mid 1980s included special attention to the field of public choice and related topics all of which occasionally explored regulatory topics Moreover I had at least a passing knowledge of the debates concerning deregulation in the late 1970s and early 1980s Because of this my own ignorance of regulation's actual expanse and its aggregate consequences startled me and heightened my interest in expanding empirical research into regulation as a macroeconomic influence The more I thought about graduate macroeconomics classes and texts the more that I realized the exclusion of regulation as a macroeconomic topic in spite of its massive scale and far reaching tentacles

The Economics of the Antitrust Process M.B. Coate, A. Kleit, 2012-12-06 This book focuses on the antitrust process and how that process affects the efficiency of antitrust law enforcement The contributors share a wide range of experiences in the antitrust process including academia the legal environment and both private and public sectors The book deals first with merger activities followed by non merger enforcement initiatives and concludes with an examination of the future role of antitrust

Pricing and Regulatory Innovations Under Increasing Competition Michael A. Crew, 2012-12-06 This volume focuses on incentive regulation and competition While much of the regulatory action is taking place in telecommunications the impact of competition and the resultant regulatory change is being felt in other traditional public utilities including electricity The book reviews topics including price caps incentive regulation market structure and new regulatory technologies

X-Efficiency: Theory, Evidence and Applications Roger S. Frantz, 2012-12-06 My interest in X Efficiency XE dates back to 1978 At the time I was writing the dissertation for my Ph.D. at Washington State University My dissertation was concerned with the role of attitudes in the school to work transition among young men I was advised by Professor Millard Hastay a member of my committee to look at Leibenstein's new book Beyond Economic Man One of the things that caught my attention was his behavioral description of selective rationality It seemed that Leibenstein's behavioral description of a selectively rational individual was very similar to what psychologists such as Abraham Maslow were reporting as being the product of a particular motivational system In other words I was impressed with the idea that what Leibenstein was referring to as X inefficiency was being discussed by psychologists as the way it often is So from the beginning I always considered the concept of X inefficiency to be a valuable one for understanding human behavior I have since come to believe that this is particularly true when considering behavior in non market

environments i.e. within the firm. Work on this book however can most realistically said to have started with work which I began in 1982 while I was a Visiting Scholar at Harvard University. Professor Leibenstein suggested that I consider how some empirical evidence which was being cited as evidence for the role of property rights might also be consistent with XE theory. The consistency in both directions is considerable. *Deregulation of Electric Utilities* Georges Zaccour, 2012-12-06

Deregulation of Electric Utilities reviews the main issues relating to the changing environment in the utility industry. Topics covered in depth include compensation for stranded costs, efficiency gains, institutional design, pricing, economics of scale and network externalities. In addition, this book assesses early experiences in electricity deregulation in continental Europe, New Zealand, North America and the United Kingdom. *Economic Innovations in Public Utility Regulation* Michael A. Crew, 2012-12-06

This book is distilled from articles presented at two seminars held at Rutgers The State University of New Jersey on October 25 1991 and May 1 1992 entitled *Economic Innovations in Public Utility Regulations*. These contributions represent the best new research on various topics in public utility regulation including topics in antitrust law, the environmental impact of public utility regulation, incentive regulation, price cap regulation and contractual relationships.

Incentive Regulation for Public Utilities Michael A. Crew, 2012-12-06 This book is based on two seminars held at Rutgers on October 22 1993 and May 6 1994 entitled *Incentive Regulation for Public Utilities*. These contributions by leading scholars and practitioners represent some of the best new research in public utility economics and include topics such as the theory of incentive regulation, dynamic pricing, transfer pricing, issues in law and economics, pricing, priority service and energy utility resource planning. **Health Care Policy and Regulation** Thomas A. Abbott III, 2012-12-06

5 care reforms. Part II Price Regulation. The second part of this volume examines the role of price regulation in controlling health care costs. It contains three chapters. In chapter seven I examine the alternatives for regulating pharmaceutical prices. In chapter eight Jack Hadley examines the impact of various forms of hospital price regulation while in chapter nine

Mark Pauly examines the role of price regulation in controlling physician fees. Chapter seven focuses on the issue of regulating pharmaceutical prices. There are two key issues examined in this paper. First is there a clear need for price regulation and second can price regulation work in this industry. In response to the first question I come to the conclusion that the proponents of price regulation have not really proven their case. Although the financial returns in the pharmaceutical industry have been slightly higher than expected during the 1970s and 1980s there is not overwhelming evidence of price gouging or excessive profits on the part of the industry. In response to the second question the answer is clearly no. The traditional approaches to price regulation will not have the intended affect of eliminating excess profits from the industry while maintaining the incentives for research and development. First rate of return regulation the most natural approach would result in many adverse incentives including excessive investment in research and development in order to

inflate the rate base used to calculate the allowable returns. *The Virtual Utility* Shimon Awerbuch, Alistair Preston, 2012-12-06

In the winter of 1996 after 4 years of planning and research the Symposium on the Virtual Utility was held in Saratoga Springs New York It was sponsored by Niagara Mohawk Power Corporation Co sponsored by CSC Index and the New York State Energy Research and Development Authority and hosted by Rensselaer Polytechnic Institute Troy NY The symposium sought to identify new areas of inquiry by presenting cutting edge academic and practitioner research intended to further our understanding of the strategic technologically driven issues confronting the electricity production and distribution process The program sought to offer new insights into rapid changes in the utility industry in part by examining analogues from manufacturing and telecommunications In addition to identifying new research areas the symposium yielded a number of important findings and conclusions This volume contains the presented papers of the meeting the discussant reports and two special papers prepared by the meeting rapporteurs who performed superbly in analyzing synthesizing explaining and generally bringing a cohesive perspective to the interesting yet complex set of ideas presented at this unique meeting We would like to acknowledge the people and organizations that contributed to this effort We thank Niagara Mohawk Power Corporation and Albert Budney its President Chief Operating Officer for sponsoring this project and Andrew Vesey Vice President I whose vision support and championing made this project possible

Regulation Under Increasing Competition Michael A. Crew, 2012-12-06 Regulation Under Increasing Competition brings together practitioners regulators and economists to examine the important policy and regulatory issues facing the telecommunications and electricity industries This volume reviews such topics as competitive entry stranded costs pricing and market mechanisms It provides a unique perspective on problems in a newly deregulated environment

Service Opportunities for Electric Utilities: Creating Differentiated Products Shmuel S. Oren, Stephen A. Smith, 2012-12-06 This monograph is the proceedings of a symposium held at the University of California at Berkeley September 12-14 1990 It was sponsored by the Electric Power Research Institute EPR and by the University of California University Wide Energy Research Group UERG The symposium brought together researchers and practitioners from academia the utility industry private and public organizations and regulatory agencies to address various challenges and opportunities related to product differentiation in the electric power industry Electric utilities are evolving rapidly from commodity oriented services to product oriented services Utilities are offering menus of service options tailored to the needs of different customers Reliability is one important dimension of electric service that lends itself to such product differentiation Options include lower rate curtailable services for industrial customers higher reliability power for some commercial customers and load control with rebates for residential customers These specialized services are a first step toward the product differentiation goal of allowing all customers to choose the type of service best suited to their electricity needs The symposium provided a forum for in depth examination of the complex planning development and implementation issues associated with differentiated products Its specific objectives were to

xviii Review the state of the art in implementing reliability differentiated electric services Address the entire process for

developing and implementing reliability differentiated product menus including research design marketing implementation and evaluation Consider technical economic and regulatory barriers to implementing reliability differentiated product design

Opening Networks to Competition David Gabel, David F. Weiman, 2012-12-06 David Gabel and David F. Weiman The chapters in this volume address the related problems of regulating and pricing access in network industries Interconnection between network suppliers raises the important policy questions of how to sustain competition and realize economic efficiency To foster rivalry in any industry suppliers must have access to customers But unlike in other sectors the very organization of network industries creates major impediments to potential entrants trying to carve out a niche in the market In traditional sectors such as gas electric rail and telephone services these barriers take the form of the large private and social costs necessary to duplicate the physical infrastructure of pipelines wires or tracks Few firms can afford to finance such an undertaking because the level of sunk costs and the very large scale economies make it extremely risky In other newer sectors entrants face less tangible but no less pressing constraints In the microcomputer industry for example high switching costs can prevent users from experimenting with alternative but perhaps more efficient hardware platforms or operating systems Although gateway technologies can reduce these barriers the installed base of an incumbent can create powerful bandwagon effects that reinforce its advantage such as the greater availability of compatible peripherals and software applications In the era of electronic banking entrants into the automated teller machine A TM and credit card markets face a similar problem of establishing a ubiquitous presence

Atomic Energy Costing Warren Young, 2012-12-06 In the centennial year of the birth of Sir John Cockcroft first master of my Cambridge College Churchill and the first man to split the atomic nucleus by artificial means it is indeed relevant to consider the outcome of his efforts at developing atomic power From the earliest days of the construction of Calder Hall the first nuclear power station in Britain and the establishment of the British Atomic Research Center at Harwell and the Chalk River Nuclear Station in Canada through the Windscale nuclear accident in Britain up to the present when some 20% of UK energy is derived from nuclear power the Cockcroft legacy is felt As the British historian Mark Goldie put it in the pure and sanguine 1950s Cockcroft had almost absolute faith in peaceful atoms and in the boundless almost cost free energy that atoms would soon produce Goldie 1997 p 21 But as the eminent economist Frank Hahn recalled the only failing Cockcroft had was that he wasn't up to much in economics Indeed Hahn recalled that he had to explain to Cockcroft the economic notion of optimum durability as it related to the interest rate in the context of building Churchill College with hand made bricks After his explanation as Hahn recalled Cockcroft smiled and proceeded to order more hand made bricks Hahn 1997 p 27

The Economics of Postal Service Michael A. Crew, Paul R. Kleindorfer, 2012-12-06 Postal service has received considerably less attention in the economics literature than traditional public utilities Postal service is facing some very important challenges arising out of the increasingly high tech nature of postal service the entry of competition into the business and new attitudes on the part of

government to postal service In the United Kingdom and Germany the increased interest in privatization and recognition of the benefits of competition are likely to have an impact on postal service These challenges mean that postal managers must learn new ways of doing business not just in successfully introducing new hardware and in new internal operating procedures but also in the development of new pricing and costing methodologies and in the introduction of new management information systems In order to deal with these new developments managers need a solid foundation in applied microeconomic theory as it relates to postal service This book encompasses the theoretical foundation for postal policy particularly with regard to pricing service quality and competitive issues

Emerging Competition in Postal and Delivery Services Michael A. Crew, Paul R. Kleindorfer, 2013-03-09 Emerging Competition in Postal and Delivery Services brings together practitioners postal administrators the courier industry regulators academic economists and lawyers to examine important policy and regulatory issues facing the postal and delivery industries This volume reviews such topics as cost and productivity analysis universal service and entry demand analysis and the structure of postal payment system price regulation and competition

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