

Alternative Regulation for Emerging Utility Challenges: 2015 Update

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I. Introduction

Investor-owned electric utilities in the United States are buffeted today by varied and rapid changes in the business conditions they face. For vertically integrated electric utilities ("VIEUs") and utility distribution companies ("UDCs") alike, the traditional cost of service approach to rate regulation is often not ideal for helping utilities cope with these changes. Alternative approaches to regulation ("Altreg") can often help utilities secure better outcomes for their customers and shareholders.

The changing business climate stems primarily from three root causes. One is pressure, from policymakers and many customers, for the power industry to lighten its environmental footprint. In addition to evolving renewable portfolio standards at the state level, utilities must comply with an array of federal initiatives such as the Environmental Protection Agency's Clean Power Plan. Demand-side management ("DSM") programs and tightening building codes and appliance standards encourage energy efficiency. Some customers seek power from greener sources than the increasingly clean portfolios of utilities. Self generation from rooftop solar is one means to this end, and its cost is falling. Customer-sited distributed generation ("DG") must be accommodated, and utilities must purchase power surpluses that these facilities generate at regulated rates.

A second force for change is technological progress in metering and distribution. Advanced metering infrastructure and other smart grid technologies can improve reliability and facilitate integration of intermittent renewables. Time-sensitive pricing can encourage customers to use the grid in less costly ways. New value-added optional products and services can be offered which benefit customers.

A third force for change is increased concern about the reliability and resiliency of grid service. Some facilities are approaching advanced age, and some need more protection from severe weather. Many customers seek better quality service.

These forces are having important practical effects on utilities. Growth in the demand for their traditional services has slowed, and utilities face competition from distributed energy resources ("DERs"). Nevertheless, some utilities need capital expenditures ("capex") for cleaner generating capacity, smart grid facilities, increased resiliency, and replacement of aging assets. Many new facilities don't automatically trigger revenue growth. Increased marketing flexibility is needed to meet competitive challenges and complex, changing customer needs.

Under traditional regulation, the base rates that compensate utilities for costs of non-energy inputs are reset only in general rate cases with historical test years. These lengthy proceedings require a detailed review of all costs and their allocation amongst the utility's retail services. Revenue from secondary sources (e.g., offsystem sales) is imputed against the revenue requirement.

Most base rate revenue is drawn from volumetric and other usage charges. Since the cost of base rate inputs is driven more by capacity than system use in the short run, a utility's finances are sensitive between rate

cases to the gap between growth in system use and capacity. A convenient proxy for this gap is the growth in use per customer (aka "average use"). The need for rate cases increases when average use declines.

Traditional regulation is ill-suited for addressing many of today's challenges. Growth in average use was once positive, and the resulting incremental revenues helped utilities finance rising cost without rate cases. Today, growth in the average use of residential and commercial customers is typically static and often negative. Utilities needing normal or high capital expenditures are then compelled to file rate cases more frequently. These involve high regulatory cost and are nonetheless frequently uncompensatory when they involve historical test years. Frequent rate cases also reduce utility opportunities to increase earnings from improved cost containment and marketing. Traditional regulation also does not allow for many value-added or optional rates and services. Improved utility performance is thus discouraged at a time when it is increasingly needed to respond to competitive pressures.

Increased financial attrition has been a factor in the long-term decline of average credit ratings among investor-owned electric utilities. This is illustrated in Figure 1. Higher risk raises financing costs and can discourage needed investments.

Alternative approaches to regulation have been developed which handle today's business conditions better. Some, such as multiyear rate plans, formula rates, and fully-forecasted test years, can involve sweeping regulatory change. Others, like revenue decoupling and cost trackers, target specific challenges.

This survey, now updated to include precedents through mid-2015, explains Altreg options and details precedents in the regulation of retail electric utility rates. A summary of states that currently use these approaches is featured in Table 1. Information is also provided on precedents for gas and water distributors and for energy utilities in Australia, Canada, and Britain. This year's survey also discusses marketing flexibility, a new Altreg area of growing interest to EEI members.



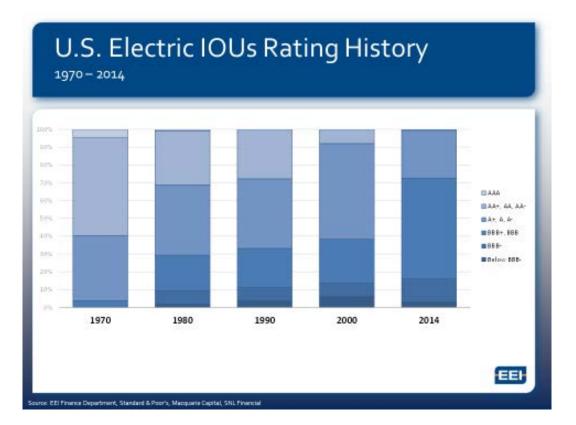


Table 1

Alternative Regulation Tools: An Overview of Current Precedents

		Measures t	hat Relax the Use/Rev	enue Link			Forward Test Years
State	Capital Cost Trackers	Decoupling True Up Plans	Lost Revenue Adjustment Mechanisms	Fixed Variable Retail Pricing	Multiyear Rate Plans ¹	Retail Formula Rate Plans	
Alabama	Electric & Gas					Electric & Gas	Yes
Alaska							
Arizona	Electric, Gas, & Water	Gas only	Electric & Gas		Electric only		
Arkansas	Electric & Gas	Gas only	Electric & Gas				
California	Electric & Gas	Electric & Gas			Electric & Gas		Yes
Colorado	Electric & Gas				Electric only		
Connecticut	Electric, Gas, & Water	Electric & Gas	Gas only	Electric & Gas			Yes
Delaware	Electric, Gas, & Water						
District of Columbia	Electric & Gas	Electric only					
Florida	Electric & Gas			Gas only	Electric only		Yes
Georgia	Electric & Gas	Gas only		Gas only	Electric only	Gas only	Yes
Hawaii	Electric only	Electric only			Electric only		Yes
Idaho	Electric only	Electric only					
Illinois	Gas & Water	Gas only		Electric & Gas		Electric only	Yes
Indiana	Electric, Gas, & Water	Gas only	Electric only		Gas only		
Iowa	Gas only			Gas only	Electric only		
Kansas	Gas only		Electric only	Gas only			
Kentucky	Electric & Gas		Electric & Gas	Gas only			Yes
Louisiana	Electric only		Electric only		Electric only	Electric & Gas	Yes
Maine	Electric, Gas, & Water	Electric only		Gas only	Gas only		Yes
Maryland	Electric & Gas	Electric & Gas					
Massachusetts	Electric & Gas	Electric & Gas	Electric & Gas		Gas only		
Michigan	Gas only	Gas only					Yes

		Measures t	hat Relax the Use/Rev	enue Link			
State	Capital Cost Trackers	Decoupling True Up Plans	Adjustment		Multiyear Rate Plans ¹	Retail Formula Rate Plans	Forward Test Years
Minnesota	Electric & Gas	Electric & Gas					Yes
Mississippi	Electric & Gas		Electric & Gas	Electric only		Electric & Gas	Yes
Missouri	Gas & Water			Gas only			
Montana	Electric & Gas		Gas only				
Nebraska	Gas only			Gas only			
Nevada	Gas only	Gas only	Electric only				
New Hampshire	Electric, Gas, & Water			Gas only	Electric & Gas		
New Jersey	Electric, Gas, & Water	Gas only					
New Mexico							Yes
New York	Gas & Water	Electric & Gas	Gas only	Electric & Gas	Electric & Gas		Yes
North Carolina	Gas & Water	Gas only	Electric only				
North Dakota	Electric only			Gas only	Electric only		Yes
Ohio	Electric, Gas, & Water	Electric only	Electric only	Gas only	Electric only		
Oklahoma	Electric only		Electric only	Electric & Gas		Gas only	
Oregon	Electric & Gas	Electric & Gas	Electric & Gas				Yes
Pennsylvania	Electric, Gas, & Water			Gas only			Yes
Rhode Island	Electric & Gas	Electric & Gas					Yes
South Carolina	Electric only		Electric only			Gas only	
South Dakota	Electric only						
Tennessee	Gas only	Gas only		Gas only		Gas only	Yes
Texas	Electric & Gas			Gas only		Gas only	
Utah	Gas only	Gas only					Yes
Vermont				Gas only			
Virginia	Electric & Gas	Gas only		Gas only	Electric only		
Washington	Gas only	Electric & Gas			Electric & Gas		
West Virginia	Electric only						
Wisconsin				Gas only			Yes
Wyoming	Electric only	Gas only	Electric & Gas	Electric & Gas			Yes

¹ This column excludes plans involving rate freezes without extensive supplemental funding from trackers.

II. Cost Trackers

A cost tracker is a mechanism for expedited recovery of specific utility cost (e.g., outside of a rate case). Balancing accounts are typically used to track unrecovered costs. Cost recovery is often implemented using tariff sheet provisions called riders.

Trackers are used in various situations where they are more practical than rate cases for addressing particular costs. Utilities usually recover fuel and purchased power costs via trackers because the volatility and substantial size of these costs would otherwise lead to frequent rate cases and materially impact utility risk. Other volatile expenses that are sometimes addressed with trackers include those for pensions, severe storms, and uncollectible bills.

A second use of trackers is for costs incurred due to policies of government agencies. Examples here include franchise fees and certain taxes. Tracking costs like these is fair to utilities and encourages government agencies to consider the impact of their policies on customer bills.

Trackers are also used to compensate utilities for costs that are rapidly rising and don't otherwise trigger new revenue, whether or not they are volatile or mandated. This encourages needed expenditures and reduces risk and the frequency of rate cases. Examples of operation and maintenance ("O&M") expenses that are sometimes tracked due in large measure to their rapid growth include those for health care.

Trackers for some costs have multiple rationales. DSM expenses, for example, are often sizable and sometimes grow rapidly.¹ Utility DSM programs are often mandated. Additionally, DSM can slow growth in the average use of power and reduce the need for plant additions, important sources of earnings growth for utilities. Tracking DSM expenses helps to balance utility incentives to embrace DSM.

Capital cost trackers typically address the accumulating depreciation, return on asset value, and taxes that result from the capex.² Capital costs can qualify for tracker treatment on several grounds. Major plant additions are volatile. Capex might be necessitated by highway construction or changes in government safety, reliability, or environmental standards. Capex is sometimes large enough to cause brisk cost growth that would otherwise occasion frequent rate cases.

An early use of capital cost trackers in the electric utility industry was to address construction costs of large power plants. These plants can take years to construct. An allowance in rates for a return on funds used during construction was traditionally not permitted until assets were used and useful and a rate case was filed. Deferred recovery of the allowance strains utility cash flow, increases financing expenses, and induces more rate "shock" when the value of the plant and construction financing is finally added to the rate base.

¹ This survey only documents capital cost trackers. Trackers for DSM expenses are ubiquitous so that there is less need for documentation.

 $^{^{2}}$ Recovery is sometimes achieved by keeping a rate case open beyond the date of a final decision for the limited purpose of adding assets to the revenue requirement.

Many commissions have addressed these problems by making a return on construction work in progress ("CWIP") eligible for immediate recovery. Capital cost trackers have often been used in lieu of frequent rate cases to obtain CWIP recovery.

Capital costs of distribution system modernization are sometimes recovered using trackers for somewhat different reasons. The annual expenditure may not be as large as that for large generation units, and construction of specific assets usually takes less than a year. However, the capex can still be sizable and doesn't automatically trigger new revenue when completed. A tracker for accelerated modernization costs can help a company modernize its grid and improve its services without frequent rate cases.

Capital costs of generation emissions controls are often accorded tracker treatment. These controls are occasioned by the emissions policies of state and federal agencies. Additionally, the facilities do not produce revenue and some facilities typically become used and useful each year over a series of years.

There are varied treatments of costs in approved capital trackers. Regulators often approve tracked capex budgets in advance, usually after considerable deliberation. Procedures for reviewing the need for generation plant additions are especially well established. Once a budget is set, the treatment of variances between actual and budgeted cost becomes an issue. Some trackers permit conventional prudence review treatment of cost overruns. In other cases, no adjustments are subsequently made if cost exceeds the budget. In between these extremes are mechanisms in which deviations, of prescribed magnitude, from budgeted amounts are shared formulaically (e.g., 50-50) between the utility and its customers. Utilities are also permitted sometimes to share in the benefits of capex underspends. The prudence of tracked capex is often subject to a final review when the cost is added to rate base, a step that usually occurs in the next rate case.

Recent precedents for capital cost trackers are listed in Table 2 and Figures 2 and 3. It can be seen that the precedents are numerous and continue to grow. This is the most widely used Altreg tool in the United States. For electric utilities, trackers for emissions controls, generation capacity, advanced metering infrastructure, and general system modernization have been especially common in recent years. Trackers for gas distributors typically address the cost of replacing old cast iron and bare steel mains. Trackers for water utilities, sometimes called distribution system improvement charges, are also common for accelerated modernization.

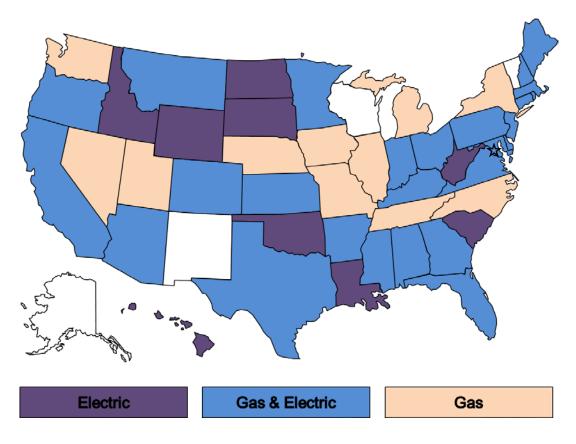


Figure 2: Recent Capital Cost Tracker Precedents by State: Energy Utilities

Figure 3: Recent Capital Cost Tracker Precedents by State: Water Utilities

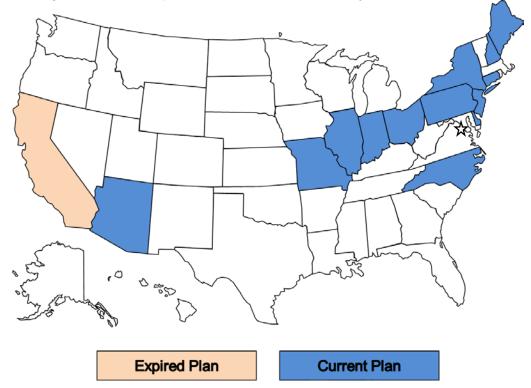


Table 2

Recent Capital Cost Tracker Precedents

urisdiction	Company Name	Services Included	Tracker Name	Eligible Investments	Case Reference
AL	Alabama Power	Electric	Rate Certificated New Plant	Any approved by Commission through CPCN	Dockets 18117 and 18416 (November 1982)
	Mobile Gas Service	Gas	Cast Iron Replacement Factor	Replacement of cast iron mains	Docket 24794 (November 1995)
	Arkansas Oklahoma Gas	Gas	Act 310 Surcharge	Relocations of pipelines mandated by government agencies	Docket 12-088-U (July 2013)
				Replacement of bare steel mains, mains on low pressure systems,	
				mains that are subject of an advisory notice by government that	
	Arkansas Oklahoma Gas	Gas	System Safety Enhancement Rider	company deems to be unsatisfactory	Docket 13-078-U (July 2014)
AR	CenterPoint Energy Arkla	Gas	Main Replacement Rider	Replacement of cast iron and bare steel mains and services	Docket 06-161-U (October 2007
		_	Government Mandated Expenditure		
AR	CenterPoint Energy Arkla	Gas	Surcharge Rider	Replacements resulting from highway and street rebuilding	Docket 10-108-U (March 2011
AR	Empire District Electric	Electric	Alternative Generation Environmental Recovery Rider	Environmental	Docket 15-010-U (August 2015
	Oklahoma Gas & Electric	Electric	Smart Grid Rider	Systemwide smart grid implementation	Docket 10-109-U (August 2013
AK	Okianoma Gas & Electric	Electric	At-Risk Meter Relocation Program	Installation of new services for meters relocated due to motor	Docket 10-109-0 (August 2011
AR	SourceGas Arkansas	Gas	Rider	vehicle collision risk	Docket 13-079-U (July 2014)
	Bouleeous Finansas	Ous		Replacement of bare steel and coated steel mains, mains that are	(iii) = (iii) = (iii) = (iii)
				subject of an advisory notice by government that company deems	
AR	SourceGas Arkansas	Gas	Main Replacement Program Rider	to be unsatisfactory, and associated services	Docket 13-079-U (July 2014)
				Bare steel and cast iron pipeline replacement, in-line inspection	
				project, emissions controlling catalysts for compressor station	
				engines, greenhouse gas monitoring of some regulator stations,	
AR	SourceGas Arkansas	Gas	Act 310 Surcharge	highway relocation projects	Docket 13-072-U (April 2014)
					Docket 09-008-U (November
AR	SWEPCO	Electric	Alternative Generation Recovery Rider	New generation	2009)
			Rider Environmental Compliance		
AR	SWEPCO	Electric	Surcharge	Environmental	Docket 15-021-U (October 2015
. –			Renewable Energy Standard		
AZ	Arizona Public Service	Electric	Adjustment Schedule	Renewables not recovered in base rates	Docket E-01345A-08-0172
					Docket E-01345A-11-0224 (Ma
AZ	Arizona Public Service	Electric	Environmental Improvement Surcharge	Environmental improvement projects	2012) Docket E-01345A-11-0224
AZ	Arizona Public Service	Electric	Four Corners Rate Rider Surcharge	Generation	(December 2014)
AL	Arizona i ubile Service	Liteture	Four Corners Rate Rider Surcharge	Generation	
					Various (operating regions have
AZ	Arizona Water Company	Water	Arsenic Cost Recovery Mechanism	Investments to reduce arsenic in water supply	separate decisions approving ACRMs)
AL	Arizona water Company	water	Arsenie Cost Recovery Mechanism		ACKWS)
				Replacement of leak prone mains and related services, meters, and hydrants, replace meters that do not have lead free brass, other	
	Arizona Water Company - Eastern		System Improvement Benefits	replacements for mains, services, meters, and hydrants that are at	
	Group	Water	Mechanism	the end of their useful life	Decision 73938 (June 2013)
112	Group	Water	Customer Owned Yard Line Cost	Replacement and ownership of customer-owned yard lines that	Docket G-01551A-10-0458
AZ	Southwest Gas	Gas	Recovery Mechanism	have been shown to be leaking	(January 2012)
AZ	Tucson Electric Power	Electric	Environmental Compliance Adjustor	Miscellaneous environmental projects	Decision 73912 (June 2013)
AL	Tueson Electric Tower	Electric	Environmental Compliance Aujustor	wiscenatious environmental projects	Decision 09-09-029 (September
CA	Pacific Gas & Electric	Electric	Smart Grid Memorandum Account	Smart grid projects that received DOE matching funds	2009)
en	Tacine Gas & Electric	Licettie	Shart Gru Menorandum / Recount	Pipeline replacement, automated valve installation, and upgrades	Decision 12-12-030 (Decembe
CA	Pacific Gas & Electric	Gas Transmission	Pipeline Safety Implementation Plan	to pipeline	2012)
				Pilot programs for smart grid line sensors, volt/VAR optimization,	
				detection and location of distribution line outages and faulted	
			Smart Grid Pilot Deployment Project	circuits, and information technology investments to improve short	Decision 13-03-032 (March
CA	Pacific Gas & Electric	Electric	Balancing Account	term demand forecasting for power procurement	2013)
			Advanced Metering Infrastructure		
CA	San Diego Gas & Electric	Electric & Gas	Balancing Account	AMI	Decision 07-04-043 (April 2007
CA	San Diego Gas & Electric	Electric	Energy Storage Balancing Account	Projects to store solar energy	Decision 13-05-010 (May 2013
			Post-2011 Distribution Integrity		
			Management Program Balancing		
CA	San Diego Gas & Electric	Gas	Account	DIMP related costs	Decision 13-05-010 (May 2013
	0			Bhill Tokicol costs	
			Transmission Integrity Management		
	San Diego Gas & Electric	Gas	Transmission Integrity Management Program Balancing Account	TIMP related costs	
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CA CA CA CA CA CA CA CA CA CA CA CO CO	San Diego Gas & Electric San Diego Gas & Electric Southern California Edison Southern California Gas Southern California Gas Southern California Gas Buthern California Gas Southern California Gas Southern California Gas	Gas Transmission Electric Gas Gas Gas Gas Gas Electric Electric	Transmission Integrity Management Program Balancing Account Safety Enhancement Capital Cost Balancing Account Solar PV Balancing Account Advanced Metering Infrastructure Balancing Account Post-2011 Distribution Integrity Management Program Balancing Account Transmission Integrity Management Program Balancing Account Safety Enhancement Capital Cost Balancing Account	TIMP related costs Replacement of mains that fail pressure tests or that cannot be pressure tested Advanced metering infrastructure project Solar generation AMI DIMP related costs TIMP related costs Replacement of mains that fail pressure tests or that cannot be pressure tested Transmission projects	Decision 13-05-010 (May 2013 Decision 14-06-007 (June 2014 Decision 08-09-039 (September 2008) Decision 09-06-049 (June 2009 Decision 10-04-027 (April 2010 Decision 13-05-010 (May 2013 Decision 13-05-010 (May 2013 Decision 14-06-007 (June 2014 Docket 09-014E, Decision C09- 0271 (March 2009) Docket 14AL-0393E, Decision
CA CA CA CA CA CA CA CA CA CA CO CO	San Diego Gas & Electric San Diego Gas & Electric Southern California Edison Southern California Edison Southern California Gas Southern California Gas Southern California Gas Black Hills Colorado Electric Black Hills Colorado Electric	Gas Transmission Electric Gas Gas Gas Gas Gas Electric Electric	Transmission Integrity Management Program Balancing Account Safety Enhancement Capital Cost Balancing Account Solar PV Balancing Account Advanced Metering Infrastructure Balancing Account Post-2011 Distribution Integrity Management Program Balancing Account Transmission Integrity Management Program Balancing Account Safety Enhancement Capital Cost Balancing Account	TIMP related costs Replacement of mains that fail pressure tests or that cannot be pressure tested Advanced metering infrastructure project Solar generation AMI DIMP related costs TIMP related costs Replacement of mains that fail pressure tests or that cannot be pressure tested Transmission projects	Decision 13-05-010 (May 2013 Decision 14-06-007 (June 2014 Decision 08-09-039 (September 2008) Decision 09-06-049 (June 2009 Decision 10-04-027 (April 2010 Decision 10-04-027 (April 2010 Decision 13-05-010 (May 2013 Decision 13-05-010 (May 2013 Decision 13-05-010 (May 2013 Decision 14-06-007 (June 2014 Docket 09-014E, Decision C09 0271 (March 2009) Docket 14AL-0393E, Decision C14-1504 (December 2014)
CA CA CA CA CA CA CA CA CA CA CO CO	San Diego Gas & Electric San Diego Gas & Electric Southern California Edison Southern California Gas Southern California Gas Southern California Gas Southern California Gas Black Hills Colorado Electric Black Hills Colorado Electric Public Service Company of	Gas Transmission Electric Gas Gas Gas Gas Gas Electric Electric Electric	Transmission Integrity Management Program Balancing Account Safety Enhancement Capital Cost Balancing Account SmartConnect Balancing Account Solar PV Balancing Account Advanced Metering Infrastructure Balancing Account Post-2011 Distribution Integrity Management Program Balancing Account Transmission Integrity Management Program Balancing Account Safety Enhancement Capital Cost Balancing Account Transmission Cost Adjustment Rider Clean Air Clean Jobs Act Rider	TIMP related costs Replacement of mains that fail pressure tests or that cannot be pressure tested Advanced metering infrastructure project Solar generation AMI DIMP related costs TIMP related costs Replacement of mains that fail pressure tests or that cannot be pressure tested Transmission projects Gas-fired generation Transmission projects	Decision 13-05-010 (May 2013 Decision 14-06-007 (June 2014 Decision 08-09-039 (Septembe 2008) Decision 09-06-049 (June 2005 Decision 10-04-027 (April 201(Decision 13-05-010 (May 2013 Decision 13-05-010 (May 2013 Decision 13-05-010 (May 2013 Decision 14-06-007 (June 2014 Docket 09-014E, Decision C09 0271 (March 2009) Docket 14AL-0393E, Decision C14-1504 (December 2014) Docket 07A-339E, Decision C0
CA CA CA CA CA CA CA CA CA CA CA CO CO CO	San Diego Gas & Electric San Diego Gas & Electric Southern California Edison Southern California Gas Southern California Gas Southern California Gas Southern California Gas Black Hills Colorado Electric Black Hills Colorado Electric Public Service Company of	Gas Transmission Electric Gas Gas Gas Gas Gas Electric Electric Electric	Transmission Integrity Management Program Balancing Account Safety Enhancement Capital Cost Balancing Account SmartConnect Balancing Account Solar PV Balancing Account Advanced Metering Infrastructure Balancing Account Post-2011 Distribution Integrity Management Program Balancing Account Transmission Integrity Management Program Balancing Account Safety Enhancement Capital Cost Balancing Account Transmission Cost Adjustment Rider Clean Air Clean Jobs Act Rider	TIMP related costs Replacement of mains that fail pressure tests or that cannot be pressure tested Advanced metering infrastructure project Solar generation AMI DIMP related costs TIMP related costs Replacement of mains that fail pressure tests or that cannot be pressure tested Transmission projects Gas-fired generation	Decision 13-05-010 (May 2013 Decision 14-06-007 (June 2014 Decision 08-09-039 (September 2008) Decision 09-06-049 (June 2009 Decision 10-04-027 (April 2010 Decision 13-05-010 (May 2013 Decision 13-05-010 (May 2013 Decision 13-05-010 (May 2013 Decision 14-06-007 (June 2014 Docket 09-014E, Decision C09- 0271 (March 2009) Docket 14AL-0393E, Decision C14-1504 (December 2014) Docket 07A-339E, Decision C05

isdictio	on Company Name	Services Included	Tracker Name	Eligible Investments	Case Reference
СО	Public Service Company of Colorado	Electric	Clean Air Clean Jobs Act Rider	Miscellaneous environmental projects including gas-fired generation, scrubbers	Proceeding 14A-680E, Deci C15-0292 (March 2015)
СО	Rocky Mountain Gas	Gas Transmission	System Safety and Integrity Rider	TIMP, DIMP, and other safety regulatory compliance projects	Docket 13AL-0046G, Decis R14-0114 (February 2014
am	Aquarion Water Company of		Water Infrastructure and Conservation	Replacement of infrastructure including mains, valves, services, meters, and hydrants that have reached the end of their useful life	Docket 08-06-21WI01
CT CT	Connecticut Connecticut Light & Power	Water Electric	Adjustment System Resiliency Plan	or are no longer able to function as intended Structural hardening	(December 2008) Docket 12-07-06 (January 2
	Connecticut Light & Fower	Elecuic	System Expansion Reconciliation	Structural hardening	Docket 12-07-00 (January 2 Docket 13-06-02 (Novem)
CT	Connecticut Natural Gas	Gas	Mechanism	System expansion	2013)
CT	Connecticut Natural Gas	Gas	DIMP True-Up Mechanism	Cast iron and bare steel main replacement	Docket 13-06-08; (January
CT	Connecticut Water	W	Water Infrastructure and Conservation	Replacement of infrastructure including mains, valves, services, meters, and hydrants that have reached the end of their useful life	Docket 08-10-15WI01 (M
СТ	Connecticut water	Water	Adjustment System Expansion Reconciliation	or are no longer able to function as intended	2009) Docket 13-06-02 (Novem
СТ	Southern Connecticut Gas	Gas	Mechanism	System expansion Replacement of infrastructure including mains, valves, services,	2013)
СТ	Torrington Water	Water	Water Infrastructure and Conservation Adjustment	meters, and hydrants that have reached the end of their useful life or are no longer able to function as intended	Docket 09-06-17WI01 (December 2009)
СТ	United Water Connecticut	Water	Water Infrastructure and Conservation Adjustment	Replacement of infrastructure including mains, valves, services, meters, and hydrants that have reached the end of their useful life or are no longer able to function as intended	Docket 09-06-17WI01 (December 2009)
			System Expansion Reconciliation	-	Docket 13-06-02 (Novem
CT	Yankee Gas Services	Gas	Mechanism	System expansion	2013) Formal Case 1116 (Noven
DC	Potomac Electric Power	Electric	Underground Project Charge	Undergrounding of specific feeders	2014) Formal Case 1027 (Decen
DC	Washington Gas Light	Gas	Plant Recovery Adjustment Accelerated Pipe Replacement Plan	Remediation/replacement of mechanical couplings Replacement of cast iron mains, bare steel mains and services and	2009) Formal Case 1115 (Janua
DC	Washington Gas Light	Gas	Adjustment	"black plastic" services	2015)
DE	Artesian Water	Water	Distribution System Improvement Charge	Replacement of infrastructure (e.g., existing mains, services, meters, and hydrants)	Docket 01-474 (December 2
DE	Delmarva Power & Light	Gas	Utility Facility Relocation Charge	Replacements due to mandated relocations that are not otherwise reimbursed	Docket 12-546 (October 2
DE	Delmarva Power & Light	Electric	Utility Facility Relocation Charge	Replacements due to mandated relocations that are not otherwise reimbursed	Docket 13-115 (August 20
DE	Sussex Shores Water	Water	Distribution System Improvement Charge	Replacement of infrastructure (e.g., existing mains, services, meters, and hydrants)	Docket 01-470 (December 2
DE			Distribution System Improvement	Replacement of infrastructure (e.g., existing mains, services,	
DE	Tidewater Utilities	Water	Charge Distribution System Improvement	meters, and hydrants) Replacement of infrastructure (e.g., existing mains, services,	Docket 03-210 (May 200
DE	United Water Delaware	Water	Charge Gas Reliability Infrastructure Program	meters, and hydrants)	Docket 01-481 (December 2 Docket 120036-GU (Septe
FL	Chesapeake Utilities	Gas	Tariff Safety and Access Verification	Replacement of bare steel mains and services Replacement of unprotected steel mains, relocation of certain gas	2012) Docket 150116-GU (Septe
FL	Florida City Gas	Gas	Expedited Program	mains in rear lot easements	2015)
FL	Florida Power and Light	Electric	Environmental Cost Recovery Clause	Miscellaneous environmental projects	Docket 080281-EI (August
FL	Florida Power and Light	Electric	Capacity Cost Recovery Clause	Nuclear power	Docket 090009-EI (Nover 2009)
FL	Florida Power and Light	Electric	Generation Base Rate Adjustment	Generation	Docket 120015-EI (Decer 2012)
FL	Florida Public Utilities	Gas	Gas Reliability Infrastructure Program Tariff	Replacement of bare steel mains and services	Docket 120036-GU (Septe 2012)
FL	Gulf Power	Electric	Environmental Cost Recovery Clause	Miscellaneous environmental projects	Docket 930613-EI (Janu 1994)
FL	Peoples Gas System	Gas	Cast Iron/Bare Steel Replacement Rider	Replacement of bare steel and cast iron pipes	Docket 110320-GU (Septe 2012)
FL	Progress Energy Florida	Electric	Environmental Cost Recovery Clause	Miscellaneous environmental projects	Docket 050078-EI (Septer 2005)
FL	Progress Energy Florida	Electric	Capacity Cost Recovery Clause	Nuclear power	Docket 090009-EI (Nover 2009)
FL	Progress Energy Florida	Electric	Generation Base Rate Adjustment	Generation	Docket 130208 (Novem 2013)
FL	Tampa Electric	Electric	Environmental Cost Recovery Clause	Miscellaneous environmental projects	Docket 960688-EI (August
GA	Atlanta Gas Light	Gas	Pipeline Replacement Program Cost Recovery Rider	Replacement of cast iron and bare steel pipe	Docket 29950 as STRIDE t in 2009
			Strategic Infrastructure Development	Pre-1985 plastic mains and services replacement, planned customer expansions, and infrastructure improvements that sustain	Docket 8516-U and 299
GA	Atlanta Gas Light	Gas	and Enhancement Surcharge	reliability and operational flexibility	(October 2009 and August
GA	Atmos Energy (now Liberty Utilities)	Gas	Pipe Replacement Surcharge	Replace cast iron and bare steel pipe	Docket 12509-U (Decem 2000)
GA	Georgia Power Company	Electric	Environmental Compliance Cost Recovery	Miscellaneous environmental projects	Docket 25060-U (Decem 2007)
GA GA	Georgia Power Company Georgia Power Company	Electric	Recovery Nuclear Construction Cost Recovery	Miscellaneous environmental projects Nuclear generation	2007) Docket 27800, Senate Bil
	Georgia i ower Company	Electric	Renewable Energy Infrastructure Program Surcharge	Renewable energy infrastructure	Docket 2/800, Senate Bil Docket 2007-0416 (Decer 2009)
	Hawaii Electric Light			itenewaoie energy mitastructure	Docket 2007-0416 (Decer
HI	Hawaii Electric Light		Renewable Energy Infrastructure Program Surcharge	Renewable energy infrastructure	
HI	Hawaiian Electric Company	Electric	Program Surcharge Renewable Energy Infrastructure	Renewable energy infrastructure	2009) Docket 2007-0416 (Decer
HI			Program Surcharge	Renewable energy infrastructure Renewable energy infrastructure Replacement of steel and pvc pipe, relocations mandated by local governments	2009)

isdictio	on Company Name	Services Included	Tracker Name	Eligible Investments	Case Reference
IL	Ameren Illinois	Gas	Rider Qualifying Infrastructure Plant	Replacement of prone to leak distribution and transmission pipe, installation of AMI and communications infrastructure, replacing or installing transmission or distribution facilities to establish over- pressure protection, replacement of difficult to locate mains and services, replacement of high pressure transmission pipelines without a recorded maximum allowable operating pressure, replacements to facilitate an upgrade from a low pressure system to a high pressure system	Docket 14-0573 (January 201
	Consumers Illinois Water Company (Kankakee, Vermilion, Woodhaven		Qualifying Infrastructure Plant	Replacement of non-revenue producing infrastructure (e.g.,	Docket 01-0561 (December
IL IL	Districts) Illinois-American Water (Chicago Metro Division)	Water	Surcharge Rider Qualifying Infrastructure Plant Surcharge Rider	existing mains, services, meters, and hydrants) Replacement of non-revenue producing infrastructure (e.g., existing mains, services, meters, and hydrants)	2001) Docket 09-0251 (March 2010
IL	Illinois-American Water (Single Tariff Pricing Zone)	Water	Qualifying Infrastructure Plant Surcharge Rider	Replacement of non-revenue producing infrastructure (e.g., existing mains, services, meters, and hydrants)	Docket 04-0336 (December 2004)
IL	Northern Illinois Gas	Gas	Rider Qualifying Infrastructure Plant	Replacement of cast iron pipe, non-cast iron pipe, and copper services; relcoation of meters from inside customers' premises; upgrading of system from low pressure to medium pressure; replacement or installation of regulator stations, regulators, valves and associated facilities to establish over-pressure protection	Docket 14-0292 (July 2014
				Replacement of cast and ductile iron, relcoation of meters from inside customers' premises, upgrading of system from low pressure to medium pressure, replacement of high pressure transmission pipelines at higher risk of failure or lacking records, installation of	
IL IN	Peoples Gas Light & Coke Duke Energy Indiana	Gas Electric	Rider Qualifying Infrastructure Plant Qualified Pollution Control Property	regulator stations to establish over-pressure protection Miscellaneous environmental projects	Docket 13-0534 (January 20 Cause 41744 (February 200
			Integrated Coal Gasification Combined Cycle Generating Facility Revenue		
IN IN	Duke Energy Indiana Indiana Michigan Power	Electric Electric	Recovery Adjustment Clean Coal Technology Rider	Integrated gasification combined cycle generating plant Miscellaneous environmental projects	Docket 43114 (November 20 Cause 43636 (June 2009)
			Distribution System Improvement	Replacement of non-revenue producing infrastructure (e.g.,	Cause 42743 DSIC-1 (Decen
IN IN	Indiana Water Service Indiana-American Water	Water	Charge Distribution System Improvement Charge	existing mains, services, meters, and hydrants) Replacement of non-revenue producing infrastructure (e.g., existing mains, services, meters, and hydrants)	2004) Cause 42351 DSIC-1 (Febru 2003)
IN	Indianapolis Power & Light	Electric	Environmental Compliance Cost Recovery	Miscellaneous environmental projects	Cause 42170 (November 20
IN	Northern Indiana Public Service	Electric	Environmental Cost Recovery Mechanism	Miscellaneous environmental projects	Cause 42150 (November 20
IN	Northern Indiana Public Service	Electric	Transmission, Distribution & Storage System Improvement Charge	Investments to maintain the capacity deliverability of system and replacement of aging infrastructure, economic development	Cause 44370 and 44371 (February 2014)
IN	Northern Indiana Public Service	Gas	Distribution System Improvement Charge	Gas system deliverability and system integrity projects, rural main extensions	Cause 44403 TDSIC 1 (Jan 2015)
IN	Utility Center Inc.	Water	Distribution System Improvement Charge	Replacement of non-revenue producing infrastructure (e.g., existing mains, services, meters, and hydrants)	Docket 42416 DSIC-1 (Jun 2003)
IN	Vectren Energy Delivery (Indiana Gas and Southern Indiana Gas & Electric)	Gas	Compliance and System Improvement Adjustment	System and pressure improvements, storage operations, instrumentation and communications equipment, public improvement projects, service replacements, and economic development	Cause 44429 (August 2014
KS	Atmos Energy	Gas	Gas System Reliability Surcharge	Replacement of mains, valves, service lines, regulator stations, vaults, other pipeline components or relocations	Docket 10-ATMG-133-TA (December 2009)
KS	Black Hills Energy (Aquila)	Gas	Gas System Reliability Surcharge	Replacement of mains, valves, service lines, regulator stations, vaults, other pipeline components or relocations	Docket 08-AQLG-852-TA (July 2008)
KS	Kansas Gas Service	Gas	Gas System Reliability Surcharge	Replacement of mains, valves, service lines, regulator stations, vaults, other pipeline components or relocations	Docket 10-KGSG-155-TA (December 2009)
KS	Midwest Energy	Gas	Gas System Reliability Surcharge	Replacement of mains, valves, service lines, regulator stations, vaults, other pipeline components or relocations	Docket 09-MDWE-722-TA (May 2009)
KY	Atmos Energy	Gas	Pipe Replacement Program Rider	Replacement of bare steel service lines, curb valves, meter loops, and mandated relocations	Docket 2009-00354 (May 20
KY	Columbia Gas	Gas	Advanced Main Replacement Rider	Replacement of cast iron and bare steel mains and services	Docket 2009-00141 (Septem 2009)
				Replacement of bare steel pipe, service lines, curb valves, meter	
KY	Delta Natural Gas	Gas	Pipe Replacement Program Surcharge Environmental Cost Recovery	loops, and mandated pipe relocations	Case 2010-00116 (October 2 Docket 2002-00169 (Marc
KY	Kentucky Power	Electric	Surcharge Environmental Cost Recovery	Miscellaneous environmental projects	2003)
KY	Kentucky Utilities	Electric	Surcharge Environmental Cost Recovery	Miscellaneous environmental projects	Case 93-465 (July 1994)
KY	Louisville Gas & Electric	Electric	Surcharge	Miscellaneous environmental projects Replacement and transfer of ownership of customer owned service	Case 94-332 (April 1995 Case 2012-00222 (Decemb
KY	Louisville Gas & Electric	Gas	Gas Line Tracker Infrastructure and Incremental Costs	risers	2012) Docket U-30689 and U-327
LA	Cleco Power	Electric	Recovery	Projects to be determined in subsequent filings to Commission Acquisition of generating facility, new generating facility or	(October 2010 and June 201
LA	Entergy Gulf States Louisiana	Electric	Formula Rate Plan-3	refurbishment of existing generating facility if the revenue requirement related to the project exceeds \$10 million	Docket U-32707 (Decemb 2013)
_		_		Cost of Ninemile 6 natural gas generating facility; New generating facility, acquisition of a generating facility, or refurbishment of existing generating facility if the revenue requirement related to the	Docket U-32708 and 3197
LA	Entergy Louisiana	Electric	Formula Rate Plan 7 Targeted Infrastructure Recovery	project exceeds \$10 million	(January 2014 and April 20
MA	Bay State Gas	Gas	Factor	Replacement of bare steel mains and services	DPU 09-30
MA	Bay State Gas	Gas	Gas System Enhancement Adjustment Factor	Replacement of non-cathodically protected steel, cast iron, and wrought iron mains and associated services, service tie-ins, encroached pipe, and meters	DPU 14-134
MA	Berkshire Gas	Gas	Gas System Enhancement Adjustment Factor	Replacement of non-cathodically protected steel, cast iron mains and associated services, encroached pipe, and meter sets composed of non-cathodically protected steel, cast iron or copper	DPU 14-131
MA	Fitchburg Gas & Electric Light	Gas	Gas System Enhancement Adjustment Factor	Replacement of cast main and unprotected steel mains and services and encroached pipe	DPU 14-130

isdictio	on Company Name	Services Included	Tracker Name	Eligible Investments	Case Reference
MA	Massachusetts Electric	Electric	Net CapEx Factor	Potentially all distribution investments	DPU 09-39
MA	Massachusetts Electric	Electric	Solar Cost Adjustment Provision	Solar generation Pilot smart grid investments including AMI, high speed	DPU 09-38
				communications network, in-home energy management devices,	
				distribution automation, advanced capacitor control, advanced grid	
MA	Massachusetts Electric	Electric	Smart Grid Adjustment Provision	monitoring, remote fault indicators	DPU 11-129
MA	Nantucket Electric	Electric	Solar Cost Adjustment Provision	Solar generation	DPU 09-38
				Pilot smart grid investments including AMI, high speed	
				communications network, in-home energy management devices, distribution automation, advanced capacitor control, advanced grid	
MA	Nantucket Electric	Electric	Smart Grid Adjustment Provision	monitoring, remote fault indicators	DPU 11-129
	National Grid (Boston-Essex Gas		Targeted Infrastructure Recovery	Replacement of bare steel, cast iron, and wrought iron mains,	
MA	and Colonial Gas	Gas	Factor	services, meters, meter installations, and house regulators	DPU 10-55
	National Grid (Boston-Essex Gas		Gas System Enhancement Adjustment	Replacement of non-cathodically protected steel, cast iron, and wrought iron mains and associated services, inside services,	
MA	and Colonial Gas	Gas	Factor	service tie-ins, encroached pipe, and meters	DPU 14-132
		_	Targeted Infrastructure Recovery	Replacement of non-cathodically protected steel mains and	
MA	New England Gas	Gas	Factor	services and small diameter cast-iron and wrought iron	DPU 10-114
			Gas System Enhancement Adjustment	Replacement of non-cathodically protected steel, cast iron, and wrought iron mains and associated services, inside services,	
MA	New England Gas	Gas	Factor	service tie-ins, encroached pipe, and meters	DPU 14-133
				Stray voltage inspection survey and remediation program; double	
				pole inspections, replacements, and restorations; and manhole	
MA MA	NSTAR Electric NSTAR Electric	Electric Electric	Capital Projects Scheduling List Smart Grid Adjustment Factor	inspection, repair, and upgrade Smart grid pilot	DTE 05-85 and DPU 10-7 DPU-09-33
MA	Western Massachusetts Electric	Electric	Solar Program Cost Adjustment	Solar generation	DPU 09-05
	Western Mussienuseus Execute	Lacente	Bonn Program Cost Prajustinem	Upgrades to improve poorest performing feeders, selective	510 07 05
			Electric Reliability Investment	undergrounding, expanded recloser development on 13kV and 34	
MD	Baltimore Gas & Electric	Electric	Surcharge Strategic Infrastructure Development	kV lines, diverse routing of 34 kV supply circuits Replacement of bare steel mains and services, cast iron mains,	Case 9326 (December 201
MD	Baltimore Gas & Electric	Gas	and Enhancement Program	copper services, and pre-1982 plastic "Ski Bar" risers	Case 9331 (January 2014
			Strategic Infrastructure Development	Replacement of bare steel and cast iron mains and bare steel	(
MD	Columbia Gas of Maryland	Gas	and Enhancement Program	services	Case 9332 (August 2014
MD	Delmarva Power & Light	Electric	Grid Resiliency Charge	Feeder hardening	Case 9317 (September 201
MD	Potomac Electric Power	Electric	Grid Resiliency Charge	Feeder hardening	Case 9311 (July 2013)
				Replacement of bare and unprotected steel mains and services,	
MD	Washington Gas Light	Gas	Strategic Infrastructure Development and Enhancement Program Rider	targeted copper and pre-1975 plastic services, mechanically coupled pipe main and services, and cast iron mains	Case 9335 (May 2014)
MD	washington Gas Light	Gas	and Enhancement Program Kider	coupled pipe main and services, and cast from mains	Case 9555 (May 2014)
			Customer Relationship Management &		Docket 2015-00040 (Octo
ME	Central Maine Power	Electric	Billing Rate Adjustment	Customer relationship management & billing system replacement	2015)
				Replacement of stationary physical plant assets needed to operate	Various orders separately is
ME	Maine Water Company	Water	Water Infrastructure Charge Targeted Infrastructure Recovery	a water system Cast iron, bare steel, and unprotected coated steel mains and	for operating divisions Docket 2013-00133 (Decer
ME	Northern Utilities	Gas	Adjustment	services replacements, replacement of farm tap regulators	2013)
			Enhanced Infrastructure Replacement		
MI	Consumers Energy	Gas	Program	Cast iron replacements	Case U-17643 (January 20
	Michigan Consolidated Gas (now			Replacement of cast iron mains, replacement of indoor meters with outdoor meters, pipeline integrity projects designed to comply with	
MI	DTE Gas)	Gas	Infrastructure Recovery Mechanism	federal and state safety standards	Case U-16999 (April 201
				Replacement of cast iron and unprotected steel mains and service	Case U-16169 and U-178
MI	SEMCO Gas	Gas	Main Replacement Rider Renewable Energy Recovery	lines	(January 2011 and June 20 Docket M-10-312 (Decem
MN	Interstate Power & Light	Electric	Adjustment	Renewable generation	2013)
			Arrowhead Regional Emission		
MN	Minnesota Power	Electric	Abatement Rider	Miscellaneous environmental projects	Docket M-05-1678 (June 2
MN	Minnesota Power	Electric	Transmission Cost Recovery Rider	Incremental transmission investment	Docket M-07-965 (Decem 2007)
MN	Minnesota Power	Electric	Renewable Resource Rider Rider for Boswell Unit 4 Emission	Renewable generation	Docket M-10-273 (July 20 Docket M-12-920 (Noven
MN	Minnesota Power	Electric	Reduction	Miscellaneous environmental projects	2013)
			Metropolitan Emissions Reduction		
	Northern States Power (Xcel		Project (later called Environmental		
MN	Energy)	Electric	Improvement Rider)	Miscellaneous environmental projects	Docket M-02-633 (March 2
MN	Northern States Power (Xcel	Electric	Transmission Cost Deserver Diden	In an and the second second	Docket M-06-1103 (Noven 2006)
IVIIN	Energy) Northern States Power (Xcel	Electric	Transmission Cost Recovery Rider Renewable Energy Standard Cost	Incremental transmission investment	2006)
MN	Energy)	Electric	Recovery Rider	Renewable generation	M-07-872 (March 2008
	Northern States Power (Xcel				Docket M-08-261 (Novem
MN	Energy)	Gas	State Energy Policy Rider	Cast iron replacements	2008)
MN	Northern States Power (Xcel Energy)	Electric	Mercury Cost Recovery Rider	Miscellaneous environmental projects	Docket M-09-847 (Novem 2009)
14114	2004577	LICCUIC	Renewable Resource Cost Recovery	wiscenancous environmental projects	2007)
MN	Otter Tail Power	Electric	Rider	Renewable generation	Docket M-08-119 (August 2
MN	Otter Tail Power	Electric	Transmission Cost Recovery Rider	Incremental transmission investment	Docket M-09-881 (January
140		~	Infrastructure System Replacement	Replacement of mains, valves, service lines, regulator stations,	Case GT-2008-0184 (Febr
MO	AmerenUE	Gas	Surcharge	vaults, other pipeline components or relocations	2008)
мо	Atmos Energy	Gas	Infrastructure System Replacement Surcharge	Replacement of mains, valves, service lines, regulator stations, vaults, other pipeline components or relocations	Docket GO-2009-0046 (Oc 2008)
	, anos Likigy	345	Infrastructure System Replacement	Replacement of mains, valves, service lines, regulator stations,	Docket GR-2007-0208 (J
МО	Laclede Gas	Gas	Surcharge	vaults, other pipeline components or relocations	2007)
			Infrastructure System Replacement	Replacement of mains, associated valves and hydrants, main	Case WO-2004-0116 (Dece
MO	Missouri American Water	Water	Surcharge Infrastructure System Replacement	cleaning and relining projects Replacement of mains, valves, service lines, regulator stations,	2003) Docket GR-2009-0355 (Feb

Jurisdiction	o Company Name	Services Included	Table 2 contif Tracker Name	Eligible Investments	Case Reference
MS	Atmos Energy	Gas	Supplemental Growth Rider	Extraordinary service expansions to new industrial customers for economic development	Docket 2013-UN-23 (July 2013)
MS	Centerpoint Energy	Gas	Supplemental Growth Rider	Extraordinary service expansions to new commercial and industrial customers for economic development	Docket 13-UN-214 (October 2013)
MS	Mississippi Power	Electric	Enviromental Compliance Overview Plan Rate	Miscellaneous environmental projects	Docket 92-UA-0058 and 92-UN- 0059 (July 1992)
MT			NA - Amounts recovered through		Docket D.2008.6.69 (November 2008)
	Northwestern Energy	Electric	electric supply service rates	Generation	Docket D2012.3.25 (November
MT	Northwestern Energy	Gas	Natural Gas Supply Tracker	Battle Creek natural gas production resources Replacement of distribution system mains, valves, services,	2012)
NC	Aqua North Carolina	Water	Water System Improvement Charge	meters, and hydrants, main extensions, projects to comply with primary drinking water standards, unreimbursed facility relocation costs due to highways	Docket W-218, Sub 363 (May 2014)
NC	Aqua North Carolina	Water	Sewer System Improvement Charge	Replacement of pumps, motors, blowers, and other mechanical equipment, collection main extensions designed to implement solutions to wastewater problems, improvements necessary to reduce inflow and infiltration to the collection systems as required by state and federal law and regulations, unreimbursed costs of highway relocations	Docket W-218, Sub 363 (May 2014)
NC	Carolina Water Service	Water	Water System Improvement Charge	Replacement of distribution system mains, valves, services, meters, and hydrants, main extensions, projects to comply with primary drinking water standards, unreimbursed facility relocation costs due to highways	Docket W-354, Sub 336 (March 2014)
NC	Carolina Water Service	Water	Sewer System Improvement Charge	Replacement of pumps, motors, blowers, and other mechanical equipment, collection main extensions designed to implement solutions to wastewater problems, improvements necessary to reduce inflow and infiltration to the collection systems as required by state and federal law and regulations, unreimbursed costs of highway relocations	Docket W-354, Sub 336 (March 2014)
				Investments driven by federal pipeline safety and integrity	Docket G-9, Sub 631 (December
NC ND	Piedmont Natural Gas Montana-Dakota Utilities	Gas Electric	Integrity Management Rider Environmental Cost Recovery Tariff	requirements Miscellaneous environmental projects	2013) Case PU-13-85 (December 2013)
ND	Montana-Dakota Utilities	Electric	Generation Resource Recovery Rider Tariff	New Generation	Case PU-14-108 (August 2014) Case PU-12-813 (February
ND	Northern States Power- MN	Electric	Transmission Cost Rider	Transmission projects	2014) Case PU-12-813 (February
ND	Northern States Power- MN	Electric	Renewable Energy Rider	North Dakota based renewable generation	2014)
ND	Otter Tail Power	Electric	Renewable Resource Rider Transmission Facility Cost Recovery	Renewables	Case PU-06-466 (May 2008)
ND ND	Otter Tail Power Otter Tail Power	Electric	Tariff Environmental Cost Recovery Tariff	Transmission investments required to serve retail customers Miscellaneous environmental projects	Case PU-11-682 (April 2012) Case PU-13-84 (December 2013)
			Infrastructure System Replacement		
NE NE	Black Hills Nebraska Gas Utility SourceGas Distribution	Gas	Recovery Charge	Non-revenue increasing projects to replace existing assets Projects entering service before May 2014 that are installed to comply with safety requirements as replacements for existing facilities, projects that will extend the useful life of existing assets or enhance pipeline integrity, facility relocations	Application NG-0074 Application NG-0072 (June 2013)
NE	SourceGas Distribution	Gas	System Safety and Integrity Rider	Projects entering service after April 2014 that comply with federal regulations including transmission and distribution integrity management plans or are facility relocations costing \$20,000 or more	Application NG-0078 (October 2014)
NH	Aquarion Water of New Hampshire	Water	Water Infrastructure and Conservation Adjustment Charge	Projects to upgrade or replace non-revenue producing assets including main, valve, and hydrant replacement, main cleaning and relining, and non-reimbursable relocations	Docket DW 08-098 (September 2009)
NH	Energy North	Gas	Cast Iron/Bare Steel Replacement Program	Deplement of out internet have stall size	Docket DG-107 (June 2007)
			Reliability Enhancement Plan Capital	Replacement of cast iron and bare steel pipe	
NH	Granite State Electric Public Service Company of New	Electric	Investment Allowance	Feeder hardening and asset replacement	Docket DG-107 (June 2007)
NH	Hampshire Public Service Company of New	Electric	Energy Service	Miscellaneous environmental projects	DE 11-250 (April 2012) DE 09-035, DE 11-250, and DE
NH	Hampshire	Electric	Reliability Enhancement Plan Elizabethtown Natural Gas	Reliability improvements	14-238 (June 2015)
NJ	Elizabethtown Gas	Gas	Distribution Utility Reinforcement Effort	System hardening	Docket GO13090826 (July 2014)
NJ	New Jersey American Water	Water	Distribution System Improvement Charge	Incremental non-revenue water main replacement, rehabilitation, or mandated relocation projects, service line replacements, valve and hydrant replacement	Docket WR12070669 (October 2012)
NJ	New Jersey Natural Gas	Gas	New Jersey Reinvestment in System Enhancement	Storm hardening projects	Docket GR13090828 (July 2014)
NJ	Public Service Electric and Gas	Electric	Solar Generation Investment Program	Solar generation	Docket EO09020125 (August 2009)
NJ	Public Service Electric and Gas	Electric & Gas	Capital Infrastructure Investment Program	Electric: reliability upgrades & feeder replacement, Gas: replacement of cast iron & bare steel mains and services	Dockets GO09010050, EO11020088, GO10110862 (April 2009 and July 2011)
NJ	Public Service Electric and Gas	Electric & Gas	Energy Strong Adjustment Mechanism	Electric: substation flood mitigation, gird reconfiguration strategies, and smart grid; Gas: Metering and regulating station flood mitigation, replacement of utilization pressure cast iron in flood prone areas	Docket EO13020155, GO13020156 (May 2014)
NJ	South Jersey Gas	Gas	Storm Hardening and Reliability Program	Replacement of low pressure mains and services with high pressure mains and services, removal of regulator stations, installation of excess flow valves in coastal areas	Docket GO13090814 (August 2014)
			Distribution System Improvement	Repair, replace, and/or clean mains, replace valves, hydrants, and	Docket WR12080724 (October
NJ	United Water New Jersey	Water	Charge Gas Infrastructure Replacement	service lines Early vintage pipe replacements, conversion of master metered	2012) Docket 14-10002 (December
NV	Southwest Gas	Gas	Mechanism	customers to individual meters	2014)

Jurisdiction	n Company Name	Services Included	Tracker Name	Eligible Investments	Case Reference
NY	Corning Natural Gas	Gas	Safety and Reliability Charge	Replacement of leak prone pipe and ancillary costs to maintain a safe and reliable system	Case 11-G-0280 (October 2015)
NY	Keyspan Energy Long Island	Gas	Leak Prone Pipe Surcharge	Accelerated leak prone pipe removal program Iron removal, storage tank rehabilitiation, suction well	Case 12-G-0214 (December 2014 and March 2015)
NY NY	Long Island American Water	Water Water	System Improvement Charge	rehabilitation at selected plants, customer information system	Case 11-W-0200 (March 2012) Case 99-W-0948 (August 2000)
NI	United Water New Rochelle	water	Long Term Main Renewal Project Underground Infrastructure Renewal	Cleaning and relining of mains Replacement of infrastructure including mains, valves, services,	Case 09-W-0948 (August 2000) Case 06-W-0131 (December
NY	United Water New York	Water	Program	meters, and hydrants	2006) Case 06-W-0131 (December
NY	United Water New York	Water	New Water Supply Source Surcharge	Projects to provide new sources of water in the short and long term	2006)
OH	Aqua Ohio	Water	System Infrastructure Improvement Surcharge	Replacement of service lines, mains, hydrants, valves, main extensions to resolve documented water supply problems	Case 04-1824-WW-SIC (March 2005)
ОН	Cleveland Electric Illuminating	Electric	Rider AMI	Ohio Site Deployment	Cases 09-1820-EL-ATA and 12- 1230-EL-SSO
OH	Cleveland Electric Illuminating	Electric	Delivery Capital Recovery Rider	Distribution, subtransmission, general, and intangible plant not included in most recent rate case	Case 10-388-EL-SSO (August 2010)
ОН	Columbia Gas	Gas	Infrastructure Replacement Program Rider	Replacement of cast iron and bare steel mains & services, AMI	Cases 08-0072-GA-AIR, 08- 0073-GA-ALT, 08-0074-GA- AAM, and 08-0075-GA-AAM (December 2008); Case 09-1036 GA-RDR (April 2010)
					1478-GA-ALT, and 01-1539-GA AAM (May 2002); 07-0589-GA
ОН	Duke Energy Ohio	Gas	Accelerated Main Replacement Program Rider	Replacement of bare steel and cast iron mains and services and faulty risers	AIR 07-0590-GA-ALT 07-0591 GA-AAM (May 2008)
					Cases 07-0589-GA-AIR, 07- 0590-GA-ALT, and 07-0591-GA
OH	Duke Energy Ohio	Gas	Advanced Utility Rider	Gas AMI	AAM (May 2008) Cases 08-920-EL-SSO and 08-
			Infrastructure Modernization		921-EL-AAM and 08-922-EL- UNC and 08-923-EL-ATA
OH	Duke Energy Ohio	Electric	Distribution Rider	Electric AMI Distribution capital investments not recovered through other	(December 2008) Case 14-841-EL-SSO (April
OH	Duke Energy Ohio	Electric	Distribution Capital Investment Rider	trackers	2015)
OH	East Ohio Gas d/b/a Dominion East Ohio	Gas	Pipeline Infrastructure Replacement Rider	Bare steel and cast iron pipelines & faulty riser replacements	Case 08-169-GA-ALT (October 2008)
	East Ohio Gas d/b/a Dominion East				Cases 07-0829-GA-AIR and 06- 1453-GA-UNC (October 2008); Case 09-38-GA-UNC (May 2009); Case 09-1875-GA-RDR
OH	Ohio	Gas	Automated Meter Reading Charge	AMR	(May 2010)
OH	Ohio American Water	Water	System Improvement Charge	Non-revenue producing service lines, hydrants, mains, valves, main extensions that improve supply problems, main cleaning	Case 05-577-WW-SIC (August 2005)
OH	Ohio Edison	Electric	Rider AMI	Ohio Site Deployment	Cases 09-1820-EL-ATA and 12- 1230-EL-SSO
ОН	Ohio Edison	Electric	Delivery Capital Recovery Rider	Distribution, subtransmission, general, and intangible plant not included in most recent rate case (filed in 2007)	Case 10-388-EL-SSO (August 2010)
OH	Ohio Power	Electric	Distribution Investment Rider	Net distribution capital additions since the date certain of most recent rate case not recovered through other riders	Case 11-346-EL-SSO
ОН	Ohio Power	Electric	GridSMART Rider (Phase I)	Smart grid	Case 08-917-EL-SSO and 08- 918-EL-SSO (March 2009)
ОН	Toledo Edison	Electric	Rider AMI	Ohio Site Deployment	Cases 09-1820-EL-ATA and 12 1230-EL-SSO
ОН	Toledo Edison	Electric	Delivery Capital Recovery Rider	Power distribution, subtransmission, general, and intangible plant not included in most recent rate case (filed in 2007)	Case 10-388-EL-SSO (August 2010)
ОН	Vectren Energy Delivery	Gas	Distribution Replacement Rider	Replacement of cast iron and bare steel mains and services	Cases 07-1081-GA-ALT, 07- 1080-GA-AIR and 08-0632-GA AAM (January 2009) Cause PUD 20080387, Order
OK	Oklahoma Gas & Electric	Electric	System Hardening Recovery Rider	Undergrounding and other circuit hardening	567670 (May 2009)
OK	Oklahoma Gas & Electric	Electric	Smart Grid Rider	Smart grid	Cause PUD 201000029 (July 2010)
OK	Oklahoma Gas & Electric	Electric	Crossroads Rider	Crossroads Wind Farm	Cause PUD 201000037 (July 2010)
	Public Service Company of		Contour Dolinhility Diday		Cause PUD 201300202 (Januar 2014)
OK OK	Oklahoma Public Service Company of Oklahoma	Electric	System Reliability Rider Advanced Metering Infrastructure Tariff	Grid resiliency projects Advanced metering infrastructure deployment	2014) Cause PUD 201300217 (April 2015)
				Bare steel replacement, transmission integrity management	Docket UM 1406, Order 09-067
OR	Northwest Natural Gas PacifiCorp	Gas	System Integrity Program Renewable Adjustment Clause	program, distribution integrity management program Renewable generation	(March 2009) Docket UM 1330 (December 2007)
OR	PacifiCorp	Electric	Lake Side 2 Tariff Rider	Generation	Docket UE 263, Order 13-474 (December 2013)
on	i demost p	Licente	Late Dide D Turni Adei	Mona to Oquirrh transmission line only if line is placed into	Docket UE 246, Orders 12-493 and 13-195 (December 2012 and
OR	PacifiCorp	Electric	M2O Transmission Rider	service within 6 months of May 31, 2013	May 2013) Docket UM 1330 (December
OR	Portland General Electric	Electric	Renewable Adjustment Clause	Renewable generation Replacement of cast iron, bare steel, and first generation plastic	2007)
РА	Columbia Gas	Cas	Distribution System Improvement Charge	mains and services, install excess flow valves, install or relocate automated meters, and replace risers, meter bars, and service regulators	P-2012-2338282 (March 2013)
		Gas	Distribution System Improvement	Non-expense reducing, non-revenue producing infrastructure	
PA	Columbia Water Company	Water	Charge	replacement projects (e.g., mains, meters, services)	Docket P-00021979 Docket M-2009-2123948 (April
PA	Duquesne Light	Electric	Smart Meter Charge Rider	AMI Non expense reducing, non revenue producing infrastructure	2010) Docket P-2013-2342745 (July
PA	Equitable Gas	Gas	Distribution System Improvement Charge	Non-expense reducing, non-revenue producing infrastructure replacement projects (e.g., mains, meters, services)	2013)
PA	Metropolitan Edison	Electric	Smart Meters Technologies Charge	AMI	Docket M-2009-2123950 (April 2010)

Jurisdiction	Company Name	Included	Tracker Name	Eligible Investments	Case Reference
PA	PECO	Electric	Smart Meter Cost Recovery Rider	AMI	Docket M-2009-2123944 (April 2010)
PA	PECO	Electric	Distribution System Improvement Charge	Storm hardening and resiliency measures, underground cable replacement, substation retirements, and facility relocations	Docket P-2015-2471423 (October 2015)
		Licenie	Distribution System Improvement	Non-expense reducing, non-revenue producing infrastructure	Docket P-2013-2347340
PA	PECO	Gas	Charge	replacement projects (e.g., mains, meters, services)	(September 2015) Docket M-2009-2123950 (April
PA	Pennsylvania Electric	Electric	Smart Meters Technologies Charge	AMI	2010) Docket M-2009-2123950 (April
PA	Pennsylvania Power	Electric	Smart Meters Technologies Charge	AMI	2010)
PA	Pennsylvania-American Water	Water	Distribution System Improvement Charge	Non-expense reducing, non-revenue producing infrastructure replacement projects (e.g., mains, meters, services)	Docket P-000961031 (August 1996)
PA	Peoples Natural Gas	C	Distribution System Improvement	Non-expense reducing, non-revenue producing infrastructure replacement projects (e.g., mains, meters, services)	Docket P-2013-2344596 (May 2013)
	-	Gas	Charge Distribution System Improvement	Non-expense reducing, non-revenue producing infrastructure	Docket P-2013-2344595 (May
PA	Peoples TWP	Gas	Charge Distribution System Improvement	replacement projects (e.g., mains, meters, services) Non-expense reducing, non-revenue producing infrastructure	2013) Docket P-2012-2337737 (April
PA	Philadelphia Gas Works	Gas	Charge	replacement projects (e.g., mains, meters, services)	2013)
РА	Philadelphia Surburban Water	Water	Distribution System Improvement Charge	Non-expense reducing, non-revenue producing infrastructure replacement projects (e.g., mains, meters, services)	Docket P-00961035 (August 1996)
DA	DDI Electric Helleice	Flanterin	Art 120 Compliance Dida		Docket M-2009-2123945
PA	PPL Electric Utilities	Electric	Act 129 Compliance Rider Distribution System Improvement	AMI Non-expense reducing, non-revenue producing infrastructure	(January 2010) Docket P-2012-2325034 (May
PA	PPL Electric Utilities	Electric	Charge	replacement projects (e.g., poles, wires)	2013)
PA	UGI Central Penn Gas	Gas	Distribution System Improvement Charge	Non-expense reducing, non-revenue producing infrastructure replacement projects (e.g., mains, meters, services)	Docket P-2013-2398835 (September 2014)
			Distribution System Improvement	Non-expense reducing, non-revenue producing infrastructure	Docket P-2013-2397056
PA	UGI Penn Natural Gas	Gas	Charge	replacement projects (e.g., mains, meters, services)	(September 2014) Docket M-2009-2123951 (June
PA	West Penn Power	Electric	Smart Meter Surcharge	AMI	2011)
RI	Narragansett Electric (electric operations)	Electric	Electric Infrastructure, Safety, and Reliability Plan Factor	Replacements and load growth	Docket 4218 (December 2011)
	Narragansett Electric (gas	_	Gas Infrastructure, Safety, and	Previous accelerated capital replacement program investments	
RI	operations)	Gas	Reliability Plan Factor	plus main and service replacements and reliability investments	Docket 4219 (September 2011) Docket 2008-196-E (March
SC	South Carolina Electric & Gas	Electric	NA Environmental Improvement	Nuclear generation	2009)
SD	Black Hills Power	Electric	Adjustment tariff	Miscellaneous environmental projects	Docket EL11-001
SD	Black Hills Power	Electric	Phase in plan rate	Gas-fired generation	Docket EL12-062 (September 2013)
SD	Northern States Power- MN	Electric	Environmental Cost Recovery Tariff	Miscellaneous environmental projects	Docket EL07-026 (January 2009)
SD SD	Northern States Power- MN Northern States Power- MN	Electric	Transmission Cost Recovery Tariff Infrastructure Rider	Transmission Generation	Docket EL07-007 (January 2009) Docket EL 12-046 (April 2013)
					Docket EL 10-015 (November
SD	Otter Tail Power	Electric	Transmission Cost Recovery Tariff Environmental Quality Cost Recovery	Retail sales portion of specific transmission projects	2011) Docket EL 14-082 (December
SD	Otter Tail Power	Electric	Tariff	Miscellaneous environmental projects	2014)
TN	Piedmont Natural Gas	Gas	Integrity Management Rider	Distribution and transmission integrity management planning as required by the US Department of Transportation	Docket 13-00118 (May 2014)
TX	AEP Texas Central	Electric	Advanced Metering System Surcharge	AMI	Docket 36928
TX	AEP Texas North	Electric	Advanced Metering System Surcharge	AMI Incremental investment in new and replacement pipe, pipeline	Docket 36928 Texas Utilities Code 104.301 and
TX	Atmos Energy Mid Tex	Gas	Gas Reliability Infrastructure Program	integrity including mains replacement	Gas Utilities Docket 9615
TX	Atmos Energy Pipelines	Gas	Gas Reliability Infrastructure Program	Incremental investment in new and replacement pipe, pipeline integrity including mains replacement	Gas Utilities Dockets 9615 and 10640
			Gas Reliability Infrastructure Program	Incremental investment in new and replacement pipe, pipeline	Texas Utilities Code 104.301 and
TX	Atmos Energy West Texas Division Centerpoint Energy Entex - Houston	Gas	Gas Reliability Infrastructure Program	integrity including mains replacement Incremental investment in new and replacement pipe, pipeline	Gas Utilities Docket 9608 Texas Utilities Code 104.301 and
TX	Division	Gas	Gas Reliability Infrastructure Program	integrity including mains replacement	Gas Utilities Docket 10067
TX TX	Centerpoint Energy Houston Electric Centerpoint Energy Houston Electric	Electric Electric	Advanced Metering System Surcharge Distribution Cost Recovery Factor	AMI Change in net distribution rate base since last rate case	Docket 35620 (August 2008) Docket 44572 (August 2015)
TX	Oncor Electric Delivery	Electric	Advanced Metering System Surcharge	AMI	Docket 35718 (August 2013)
TX	Texas-New Mexico Power	Electric	Advanced Metering System Surcharge	AMI	Docket 38306 (July 2011)
UT	Questar Gas	Gas	Infrastructure Rate Adjustment Tracker	Replacement of aging high-pressure feeder lines	Docket 09-057-16 (June 2010)
VA	Appalachian Power	Electric	Environmental & Reliability Cost Recovery Surcharge	Miscellaneous environmental & reliability projects	Docket PUE-2007-00069 (December 2007)
VA	Appalachian Power	Electric	Environmental Rate Adjustment Clause	Miscellaneous environmental projects	Case PUE-2011-00035 (November 2011)
					Docket PUE-2011-00036
VA	Appalachian Power	Electric	Generation Rate Adjustment Clause Infrastructure Reliability and	Dresden plant Replacement of first generation plastic pipe and service lines and	(January 2012) Case PUE-2012-00049 (August
VA	Atmos Energy	Gas	Replacement Adjustment	bare steel mains and services	2012)
VA	Columbia Gas of Virginia	Gas	SAVE Rider	Replacement of bare steel and cast iron mains, some early plastic pipe, isolated bare steel services, and risers prone to failure	Case PUE-2011-00049 (November 2011)
				Replacement of cast iron mains, bare steel mains and services and	Case PUE-2012-00030 (August
VA	Roanoke Gas Company	Gas	SAVE Rider	pre-1973 plastic pipe	2012) Case PUE-2007-00066 (March
VA	Virginia Electric Power	Electric	Rider S	Virginia City Hybrid Energy Center	2008) Case PUE-2009-00017 (March
VA	Virginia Electric Power	Electric	Rider R	Bear Garden Generating Station	2010)
VA	Virginia Electric Power	Electric	Rider W	Warren County Power Station	Case PUE-2011-00042 (February 2012)
					Case PUE-2011-00073 (March
VA	Virginia Electric Power	Electric	Rider B	Biomass conversions Brunswick County Power Station (natural gas combined cycle	2012) Case PUE-2012-00128 (August
VA	Virginia Electric Power	Electric	Rider BW	generating station	2013)

Table 2 co	ontinued
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		Services		laca	
Jurisdiction	Company Name	Included	Tracker Name	Eligible Investments	Case Reference
VA	Virginia Natural Gas	Gas	SAVE Rider	Replacement of first generation plastic mains, cast and wrought iron mains, bare and ineffectively coated steel mains, and service lines installed prior to 1971	Case PUE-2012-00012 (June 2012)
VA	Washington Gas Light	Gas	SAVE Rider	Replacement of bare and unprotected steel services and mains, mechanically coupled pipe, copper services, cast iron main, and pre-1975 plastic services	Cases PUE-2010-00087 and PU 2012-00096 (April 2011 and November 2012)
WA	Cascade Natural Gas	Gas	Pipeline Replacement Program Cost Recovery Mechanism	Replacement of bare steel and poorly coated pipelines and distribution systems	Docket PG-131838 (October 2013)
WV	Appalachian Power	Electric	Construction/765kW Surcharge	Generation, environmental	Case 11-0274-E-GI (June 2011
WV	Monongahela Power	Electric	Vegetation Management Surcharge	Capitalized distribution vegetation management expenses	Case 14-0702-E-42T (February 2015)
WV	Potomac Edison	Electric	Vegetation Management Surcharge	Capitalized distribution vegetation management expenses	Case 14-0702-E-42T (February 2015)
WV	Wheeling Power	Electric	Construction/765kW Surcharge	Generation, environmental	Case 11-0274-E-GI (June 2011
WY	Black Hills Power	Electric	Cheyenne Prairie Generating Station rate rider tariff	Construction of Cheyenne Prairie Generating Station	Docket 20002-84-ET-12 (November 2012)
WY	Cheyenne Light, Fuel, & Power	Electric	Cheyenne Prairie Generating Station rate rider tariff	Construction of Cheyenne Prairie Generating Station	Docket 20003-123-ET-12 (November 2012)

III. Relaxing the Link Between Revenue and System Use

Policymakers are increasingly interested in relaxing the link between the revenues utilities realize, and the kWh and kW of system use by customers. This reduces the financial attrition that results from slowing growth in system use (given legacy rate designs) more efficiently than frequent rate cases. In addition, utilities have more incentive to embrace DSM. Three approaches to relaxing the revenue/usage link are well established: lost revenue adjustment mechanisms ("LRAMs"), revenue decoupling, and fixed/variable pricing.

A. Lost Revenue Adjustment Mechanisms

LRAMs keep utilities whole for short-term losses in base rate revenues that are due to their DSM programs (and potentially also DG). Recovery usually is effected through a special rate rider. Estimates of load losses are needed.

LRAMs encourage utilities to embrace DSM that is eligible for LRAM treatment. They do not provide recovery for the revenue impact of external forces, like DSM programs managed by independent agencies, which slow load growth. Estimates of load savings from utility DSM can be complex and are sometimes controversial. The scope of DSM initiatives addressed by LRAMs is therefore frequently limited to those for which load impacts are easier to measure. When usage charges are high, the utility remains at risk for revenue fluctuations in volumes and peak load due to weather, local economic activity, and other volatile demand drivers.

Precedents for LRAMs are detailed in Table 3 and Figure 4 below.³ LRAMs are currently the most popular means of relaxing the link between revenue and system use in the US electric utility industry. Since our 2013 survey, LRAMs have been adopted for electric utilities in Arizona, Louisiana, and Mississippi. A few utilities have LRAMs that address DG. LRAMs are less popular for gas distributors since the declining average use they have typically experienced for many years is due chiefly to external forces that LRAMs don't address. Some utilities have LRAMs for some services and revenue decoupling for others. In New York, for example, some natural gas distributors have decoupling for residential and commercial customers and LRAMs for some large load customers.

B. Revenue Decoupling

Revenue decoupling adjusts a utility's rates periodically to help its actual revenue track its allowed revenue more closely. Most decoupling systems have two basic components: a revenue decoupling mechanism ("RDM") and a revenue adjustment mechanism ("RAM"). The RDM tracks variances between actual and allowed revenue and adjusts rates to reduce them. The RAM escalates allowed revenue to provide relief for growing cost pressures.

³ Some mechanisms similar to LRAMs are excluded from this survey.

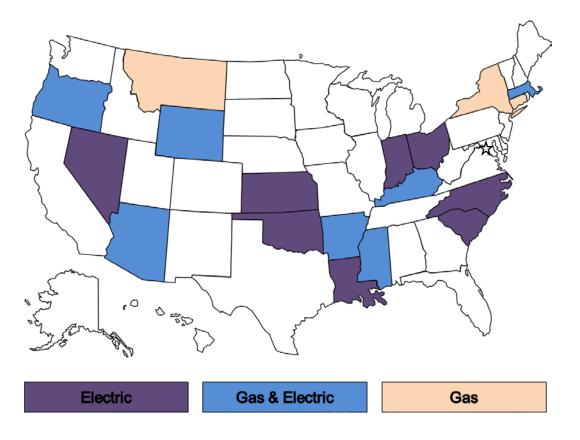


Figure 4: Current LRAMs by State

RDMs can make true ups annually or more frequently. More frequent adjustments cause actual revenue to track allowed revenue more closely so that rate adjustments are smaller. The size of the rate adjustment that is permitted in a given year is sometimes capped. A "soft" cap permits utilities to defer for later recovery account balances that cannot be drawn down immediately. A "hard" cap does not.

RDMs vary in the scope of services to which they apply. Quite commonly, only revenues from residential and commercial business customers are decoupled. These customers account for a high share of a distributor's base rate revenue and are often the primary focus of DSM programs. RDMs also vary in terms of the services for which revenues are pooled for true up purposes. In some plans all services are placed in the same "basket." Other plans have multiple baskets, and these insulate customers of services in each basket from changes in revenue for services in other baskets.

Some RDMs are "partial" in the sense that they exclude from decoupling the revenue impact of certain kinds of demand fluctuations. For example, true ups are sometimes allowed only for the difference between allowed revenue and weather normalized actuals. An RDM that instead accounts for *all* sources of demand variance is called a "full" decoupling mechanism.

Table 3

Current LRAM Precedents¹

State	Company	Services	Approval Date	Case Reference
AR	Arkansas Oklahoma Gas	Gas	June 2011	Docket 07-077-TF, Order Number 30
AR	Centerpoint Energy Arkla	Gas	June 2011	Docket 07-081-TF, Order Number 31
AR	Entergy Arkansas	Electric	June 2011	Docket 07-085-TF, Order Number 40
AR	Oklahoma Gas & Electric	Electric	June 2011	Docket 07-075-TF, Order 26
AR	SourceGas Arkansas	Gas	June 2011	Docket 07-078-TF, Order 26
AR	Southwestern Electric Power	Electric	June 2011	Docket 07-082-TF, Orders 35 and 36
AZ	Arizona Public Service	Electric	May 2012	Docket E-01345A-11-0224, Decision 73183
AZ	Tucson Electric Power	Electric	June 2013	Docket E-01933A-12-0291; Decision 73912
AZ	UNS Electric	Electric	September 2013	Docket E-04204A-12-0504; Decision 74235
AZ	UNS Gas	Gas	May 2012	Docket G-04204A-11-0158 Decision 73142
СТ	Southern Connecticut Gas	Gas	August 1995	Docket 93-03-09
СТ	Yankee Gas Service	Gas	January 2012	Docket 11-10-03
IN	Duke Energy Indiana (PSI)	Electric	February 2010	Cause 43374
IN	Indiana-Michigan Power	Electric	September 2010	Cause 43827
IN	Northern Indiana Public Service	Electric	May 2011	Cause 43618
			August 2011 (large commercial and industrials), June 2012 (residential and small	
IN	Southern Indiana Gas & Electric	Electric	commercial)	Causes 43938 and 43405 DSMA 9 S1
KS	Kansas Gas & Electric	Electric	January 2011	Docket 10-WSEE-775-TAR
KS	Westar Energy	Electric	January 2011	Docket 10-WSEE-775-TAR
KY	Atmos Energy	Gas	September 2009	Case 2008-00499
KY	Columbia Gas of Kentucky	Gas	October 2009	Case 2009-00141
KY	Delta Natural Gas	Gas	July 2008	Docket 2008-00062
KY	Duke Energy Kentucky	Electric	December 1995 and February 2005	Cases 95-321 and 2004-00389
KY	Duke Energy Kentucky	Gas	February 2005	Case 2004-00389
KY	Kentucky Power	Electric	December 1995	Case 95-427
KY	Kentucky Utilities	Electric	May 2001	Case 2000-0459
KY	Louisville Gas & Electric	Electric & Gas	November 1993	Case 2000-0439
LA	Cleco Power	Electric	October 2014	Docket R-31106
LA	Entergy Gulf States Louisiana	Electric	October 2014	Docket R-31106
LA	Entergy Louisiana	Electric	October 2014	Docket R-31106
	Southwestern Electric Power		October 2014 October 2014	Docket R-31106
LA		Electric		
MA MA	All Electric distributors Berkshire Gas	Electric Gas	July 2012 October 1992	D.P.U. 12-01A D.P.U. 91-154
17173		Jas	00000011772	D.1.0.71-1J4
MA	Commonwealth Gas d/b/a NSTAR Gas	Gas	November 1994	D.P.U. 94-128

State	Company	Services	Approval Date	Case Reference
			April 1992, June 1994,	D.P.U. 90-335, D.P.U. 94-2/3-CC, and D.P.U. 10-
MA	NSTAR Electric	Electric	and June 2010	06
MS	Atmos Energy	Gas	August 2014	Docket 2014-UA-017
MS	Centerpoint Energy	Gas	August 2014	Docket 2014-UA-007
MS	Entergy Mississippi	Electric	September 2014	Docket 2009-UN-064
MS	Mississippi Power	Electric	March 2015	Docket 2014-UN-10
MT	Montana-Dakota Utilities	Gas	October 2006	Docket D2005.10.156; Order 6697c
NC	Duke Energy Carolinas	Electric	February 2010	Docket E-7, Sub 831
NC	Progress Energy Carolinas (Carolina Power & Light)	Electric	November 2009	Docket E-2, Sub 931
NC	Virginia Electric Power	Electric	October 2011	Docket E-22, Sub 464
NV	Nevada Energy	Electric	May 2011	Docket 10-10024
NV	Sierra Pacific Power	Electric	May 2011	Docket 10-10025
NY	Keyspan Long Island	Gas	December 2009	Case 06-G-1186; Currently effective for all customers not in RDM
NY	Keyspan New York	Gas	December 2009	Case 06-G-1185; Currently effective for all customers not in RDM
ОН	American Electric Power (Ohio Power, Columbus Southern Power)	Electric	May 2010	Docket 09-1089-EL-POR; Effective for classes not included in RDM
OH	Dayton Power & Light	Electric	June 2009	Docket 08-1094-EL-SSO
ОН	Duke Energy Ohio (Cincinnati Gas & Electric)	Electric	July 2007 and August 2012	Dockets 06-0091-EL-UNC and 11-4393-EL-RDR; Effective for classes not included in RDM
ОН	First Energy Ohio (Cleveland Electric Illuminating, Toledo Edison, Ohio Edison)	Electric	March 2009	Docket 08-935-EL-SSO
OK	Empire District Electric	Electric	November 2009	Cause 200900146 Order 571326
OK	Oklahoma Gas & Electric	Electric	July 2008	Cause 200800059 Order 556179
OK	Public Service of Oklahoma	Electric	January 2010	Cause PUD 200900196; Order 572836
OR	Cascade Natural Gas	Gas	April 2006	Order 06-191; UG 167 Effective for classes not included in RDM
OR	Portland General Electric	Electric	September 2001	Order 01-836; UE 79 Effective for classes not included in RDM
OR	Avista Utilities	Gas	December 1993	Order 93-1881
-				Docket 2009-226-E
SC	Duke Energy Carolinas	Electric	January 2010	Order 2010-79
				Docket 2008-251-E
SC	Progress Energy Carolines	Floatria	June 2009	Order 2009-373
SC SC	Progress Energy Carolinas South Carolina Electric & Gas	Electric Electric	July 2010	Docket 2009-261-E, Order 2010-472
sc	South Carolina Electric & Gas	Electric	July 2010	Docket 2009-201-E, Order 2010-472
WY	Cheyenne Light, Fuel, and Power	Electric & Gas	September 2011	Dockets 20003-108-EA-10 and 30005-140-GA-10
WY	Montana-Dakota Utilities	Electric	January 2007	Docket 20004-65-ET-06

¹ LRAMs listed here include only those mechanisms that compensate utilities for actual revenues lost due to DSM and DG.

The great majority of decoupling systems have a RAM since, if allowed revenue is static, the utility will experience financial attrition as its costs inevitably rise. Utilities that do not have RAMs in their decoupling systems often file frequent rate cases or are allowed to use capital cost trackers to address attrition. The more important issue in a proceeding to consider decoupling is therefore the design of the RAM rather than the need for one.

Most RAMs escalate allowed revenue only for customer growth. Escalation for customer growth is sensible because it is an important driver of cost and also highly correlated with other drivers such as peak demand. The need for rate cases is thereby reduced but is rarely eliminated since cost has other drivers such as input price inflation. When RAMs are escalated only for customer growth, utilities usually retain the freedom to file rate cases to address other cost factors and often do. Some RAMs are "broad-based" in the sense that they provide enough revenue growth to compensate the utility for several kinds of cost pressures. This can materially reduce the need for rate cases and provide a foundation for a multiyear rate plan.

Revenue decoupling compensates utilities for declining average use even if it is driven in part by external forces such as independently administered DSM programs. The lost revenue disincentive is removed for a wide array of utility initiatives to encourage DSM without requiring load impact calculations or rate designs that discourage DSM. To the extent that recovery of allowed revenue is ensured, utilities can use rate designs with usage charges more aggressively to foster DSM. This makes environmental intervenors strong supporters of decoupling. Controversy over billing determinants in rate cases with future test years is reduced.

Revenue decoupling is a popular means of relaxing the link between a utility's revenue and customers' kWh consumption. States that have tried gas and electric revenue decoupling are indicated on the maps below in Figures 5a and 5b, respectively. Revenue decoupling precedents in the United States and Canada are detailed in Table 4. In the electric utility industry, decoupling has been favored in states that strongly support DSM. Since our 2013 survey, decoupling has been adopted for electric utilities in Connecticut, Maine, Minnesota, and Washington state. Decoupling is the most widespread means of relaxing the revenue/usage link for gas distributors. This reflects the fact that gas distributors often experience declining average use and that this has been driven chiefly by external forces. Table 4 indicates the kinds of RAMs chosen in approved decoupling systems. Note that RAMs for electric utilities are frequently broad-based.

C. Fixed/Variable Pricing

Fixed/variable pricing is an approach to rate design that uses fixed charges (charges that do not vary with the actual sales volume or peak demand) to compensate utilities for fixed costs of service. For residential and small commercial services, customer charges (a flat monthly fee per customer) are the most common fixed charge used. Base revenue thus tends to grow at the gradual pace of customer growth. A *straight* fixed/variable ("SFV") rate design recovers *all* base revenue through fixed charges. A rate design that recovers a substantial but smaller share of fixed costs through fixed charges is sometimes called *modified* fixed/variable pricing.

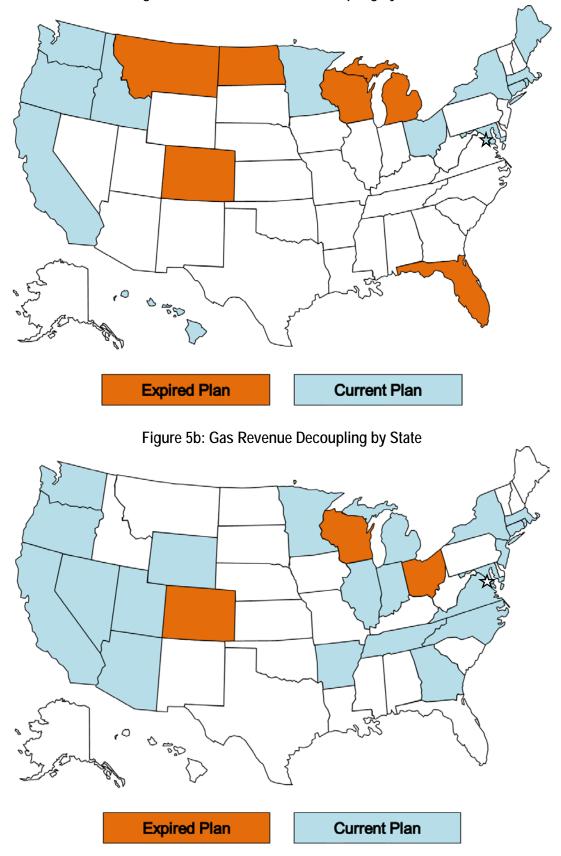


Figure 5a: Electric Revenue Decoupling by State

Table 4

Revenue Decoupling Precedents

Jurisdiction	Company Name	Services	Plan Years	Revenue Adjustment Mechanism	Case Reference
Jurisaletion			urrent	Wiechanism	
			ted States		
			itu Statts	No RAM but multiple capital	
AR	Arkansas Oklahoma Gas	Gas	2014-open	cost trackers	Docket 13-078-U
				No RAM but multiple capital	Dockets 06-161-U, 11-088-U,
AR	CenterPoint Energy	Gas	2008-2016	cost trackers	12-057-TF, and 13-114-TF
	SourceGas Arkansas (Arkansas			No RAM but multiple capital	
AR	Western)	Gas	2014-open	cost trackers	Docket 13-079-U
AZ CA	Southwest Gas Bear Valley Electric Service	Gas Electric	2012-open 2013-2016	Customers Stairstep	Docket G-01551A-10-0458 Decision 14-11-002
CA	California Pacific Electric	Electric	2013-2010	Indexing	Decision 12-11-030
CA	Pacific Gas & Electric	Gas & Electric	2013-2015	Stairstep	Decision 12-11-030
CA	San Diego Gas & Electric	Gas & Electric	2012-2015	Stairstep	Decision 13-05-010
CA	Southern California Edison	Electric	2012-2014	Hybrid	Decision 12-11-051
CA	Southern California Gas	Gas	2012-2015	Stairstep	Decision 13-05-010
CA	Southwest Gas	Gas	2014-2018	Stairstep	Decision 14-06-028
СТ	Connecticut Light & Power	Electric	2014-open	No RAM	Docket 14-05-06
СТ	Connecticut Natural Gas	Gas	2014-open	No RAM	Docket 13-06-08
CT	I la ita d Illumia atia a	Els stais	2012	Stairstep until July 2015, No	De altat 12 01 10
CT DC	United Illuminating Potomac Electric Power	Electric Electric	2013-open 2010-open	RAM thereafter Customers	Docket 13-01-19 Order 15556
DC	Totomac Electric Tower	Elecule	2010-0pen	No RAM but FRP type	01461 15550
GA	Atmos Energy	Gas	2012-open	mechanism also in effect	Docket 34734
					Dockets 2008-0274, 2008-
HI	Hawaiian Electric Company	Electric	2011-open	Hybrid	0083, 2013-0141
	Hawaiian Electric Light			-	Dockets 2008-0274, 2009-
HI	Company	Electric	2012-open	Hybrid	0164, 2013-0141
					Dockets 2008-0274, 2009-
HI	Maui Electric	Electric	2012-open	Hybrid	0163, 2013-0141
ID		F1 / '	2012		Cases IPC-E-11-19, IPC-E-14-
	Idaho Power North Shore Gas	Electric Gas	2012-open 2012-open	Customers No RAM	17 Case 11-0280
112	North Shore Gas	Gas	2012-0pen	No RAM but broad-based	Case 11-0280
IL	Peoples Gas Light & Coke	Gas	2012-open	capital cost tracker	Case 11-0281
				· · · ·	
IN	Citizens Gas	Gas	2007-open	Customers	Cause 42767
IN	Indiana Gas	Gas	2011-2015	Customers	Cause 44019
		G	2016 2010		G 14500
IN IN	Indiana Gas Indiana Natural Gas	Gas Gas	2016-2019 2014-open	Customers Customers	Cause 44598 Cause 44453
IN	Vectren Southern Indiana	Gas	2014-0pen 2011-2015	Customers	Cause 44455 Cause 44019
IN	Vectren Southern Indiana	Gas	2011-2019	Customers	Cause 44598
				Revenue per Customer	
MA	Bay State Gas	Gas	2015-2018	Stairstep	DPU 15-50
MA	Boston-Essex Gas	Gas	2010-open	Customers	DPU 10-55
MA	Colonial Gas	Gas	2010-open	Customers	DPU 10-55
MA	Fitchburg Gas & Electric	Gas	2011-open	Customers	DPU 11-02
MA	Fitchburg Gas & Electric	Electric	2011-open	No RAM No RAM but broad-based	DPU 11-01
МА	Massachusetts Electric	Electric	2010-open	capital cost tracker	DPU 09-39
MA	New England Gas	Gas	2010-open 2011-open	Customers	DPU 10-114
			, spon		
MA	Western Massachusetts Electric	Electric	2011-open	No RAM	DPU 10-70
			•		Letter Orders ML 108069,
MD	Baltimore Gas & Electric	Electric	2008-open	Customers	108061
MD	Baltimore Gas & Electric	Gas	1998-open	Customers	Case 8780
MD	Chesapeake Utilities	Gas	2006-open	Customers	Order 81054
MD	Columbia Gas of Maryland	Gas	2013-open	Customers	Order 85858
MD MD	Delmarva Power & Light	Electric	2007-open	Customers	Order 81518
MD	Potomac Electric Power Washington Gas Light	Electric Gas	2007-open 2005-open	Customers Customers	Order 81517 Order 80130
ME	Central Maine Power	Electric	2003-open 2014-open	Customers	Docket 2013-00168
17112	Contrain Manie I Owel	Liccult	2014-0pcll	Customers	DOCKCI 2013-00100

			Plan	Revenue Adjustment	
Jurisdiction	Company Name	Services	Years	Mechanism	Case Reference
		Currei	nt (cont'	d)	
			States (cont	/	1
MI	Consumers Energy	Gas	2015-open	No RAM	Case U-17643
MI	Michigan Consolidated Gas	Gas	2013-open	No RAM	Case U-16999
MI	Michigan Gas Utilities	Gas	2015-open	No RAM	Case U-17273
MN	CenterPoint Energy	Gas	2015-2018	Customers	GR-13-316
MN	Minnesota Energy Resources	Gas	2013-2016	Customers	GR-10-977
MN NC	Northern States Power - MN Piedmont Natural Gas	Electric	2016-2018	Customers Customers	GR-13-868
NC NC	Public Service Co of NC	Gas Gas	2008-open 2008-open	Customers	Docket G-9, Sub 550
NJ	New Jersey Natural Gas	Gas	2008-open 2014-open	Customers	Docket G-5, Sub 495 Docket GR13030185
NJ	South Jersey Gas	Gas	2014-open 2014-open	Customers	Docket GR13030185
NV	South servey Gas	Gas	2014-open 2009-open	Customers	D-09-04003
147	Southwest Gas	Gas	2009-0pcii	Revenue per Customer	D-09-04003
				Stairstep for Gas, Stairstep for	
NY	Central Hudson G&E	Gas & Electric	2015-2018	Electric	Cases 14-E-0318, 14-G-0319
	Central Hudson G&L	Gas & Electric	2013-2018	Revenue per Customer	Cases 14-E-0518, 14-G-0519
NY	Consolidated Edison	Gas	2014-2016	Stairstep	Case 13-G-0031
NY	Consolidated Edison	Electric	2014-2010	Stairstep	Case 13-E-0030
NY	Corning Natural Gas	Gas	2014-2010	Customers	Case 11-G-0280
111		Uds	2013-2017	Revenue per Customer	Case 11-0-0280
	Keyspan Energy Delivery -			Stairstep through 2012,	
NY	Long Island	Gas	2010-open	Customers After 2012	Case 06-G-1186
111		Gas	2010-open	Revenue per Customer	Case 00-0-1180
	Keyspan Energy Delivery New			Stairstep through 2014,	
NXZ		C	2012 2014	, e ·	C 12 C 0544
NY NY	York National Fuel Gas	Gas	2013-2014	Customers After 2014	Case 12-G-0544
IN I	National Fuel Gas	Gas	2013-2015	Customers Revenue per Customer	Case 13-G-0136
				Stairstep through 2013,	
NY	New York State Electric & Cos	Gas	2010 2012	Customers thereafter	Com 00 E 0715
111	New York State Electric & Gas	Gas	2010-2013	Stairstep through 2013, No	Case 09-E-0715
NY	New York State Electric & Gas	Electric	2010-2013	RAM thereafter	Case 09-G-0716
	New Tork State Electric & Gas	Electric	2010-2013	Optional Revenue per	Case 07-G-0710
NY	Niagara Mohawk	Gas	2013-2016	Customer Stairstep	Case 12-G-0202
NY	Niagara Mohawk	Electric	2013-2016	Optional Stairstep	Case 12-E-0201
				Revenue per Customer	
NY	Orange & Rockland Utilities	Gas	2015-2018	Stairstep	Case 14-G-0494
NY	Orange & Rockland Utilities	Electric	2015-2017	Stairstep	Case 14-E-0493
				Revenue per Customer	
				Stairstep through 2013,	
NY	Rochester Gas & Electric	Gas	2010-2013	Customers thereafter	Case 09-E-0717
				Stairstep through 2013, No	
NY	Rochester Gas & Electric	Electric	2010-2013	RAM thereafter	Case 09-G-0718
		Literate	2010 2010	Revenue per Customer	
				Stairstep through 2012,	
NY	St. Lawrence Gas	Gas	2010-open	Customers thereafter	Case 08-G-1392
		040	open		Cases 11-351-EL-AIR, 13-
ОН	AEP Ohio	Electric	2012-2018	Customers	2385-EL-SSO
00			010		Case 14-841-EL-SSO
		Electric	2015-open	Customers	
ОН	Duke Energy Ohio	Electric Gas	2015-open 2013-2015	Customers	
OH OR	Duke Energy Ohio Cascade Natural Gas	Gas	2013-2015	Customers	Order 13-079
ОН	Duke Energy Ohio	Gas Gas	2013-2015 2012-open		Order 13-079 Order 12-408
OH OR OR	Duke Energy Ohio Cascade Natural Gas Northwest Natural Gas	Gas	2013-2015	Customers Customers Customers	Order 13-079
OH OR OR	Duke Energy Ohio Cascade Natural Gas Northwest Natural Gas	Gas Gas	2013-2015 2012-open	Customers Customers	Order 13-079 Order 12-408
OH OR OR OR	Duke Energy Ohio Cascade Natural Gas Northwest Natural Gas Portland General Electric Narragansett Electric	Gas Gas Electric Electric	2013-2015 2012-open 2014-2016 2012-open	Customers Customers Customers No RAM but broad-based capital cost tracker	Order 13-079 Order 12-408 Order 13-459 Docket 4206
OH OR OR RI RI	Duke Energy Ohio Cascade Natural Gas Northwest Natural Gas Portland General Electric Narragansett Electric Narragansett Electric	Gas Gas Electric Electric Gas	2013-2015 2012-open 2014-2016	Customers Customers Customers No RAM but broad-based	Order 13-079 Order 12-408 Order 13-459 Docket 4206 Docket 4206
OH OR OR RI	Duke Energy Ohio Cascade Natural Gas Northwest Natural Gas Portland General Electric Narragansett Electric Narragansett Electric Chattanooga Gas	Gas Gas Electric Electric Gas Gas	2013-2015 2012-open 2014-2016 2012-open 2012-open 2013-open	Customers Customers Customers No RAM but broad-based capital cost tracker Customers Customers	Order 13-079 Order 12-408 Order 13-459 Docket 4206 Docket 4206 Docket 09-0183
OH OR OR RI RI TN UT	Duke Energy Ohio Cascade Natural Gas Northwest Natural Gas Portland General Electric Narragansett Electric Narragansett Electric Chattanooga Gas Questar Gas	Gas Gas Electric Electric Gas Gas Gas	2013-2015 2012-open 2014-2016 2012-open 2012-open 2013-open 2010-open	Customers Customers Customers No RAM but broad-based capital cost tracker Customers Customers Customers	Order 13-079 Order 12-408 Order 13-459 Docket 4206 Docket 4206 Docket 09-0183 Docket 09-057-16
OH OR OR RI RI TN UT VA	Duke Energy Ohio Cascade Natural Gas Northwest Natural Gas Portland General Electric Narragansett Electric Chattanooga Gas Questar Gas Columbia Gas of Virginia	Gas Gas Electric Gas Gas Gas Gas Gas	2013-2015 2012-open 2014-2016 2012-open 2012-open 2013-open 2010-open 2013-2015	Customers Customers Customers No RAM but broad-based capital cost tracker Customers Customers Customers Customers	Order 13-079 Order 12-408 Order 13-459 Docket 4206 Docket 4206 Docket 09-0183 Docket 09-057-16 Case PUE-2012-00013
OH OR OR RI RI TN UT VA VA VA	Duke Energy Ohio Cascade Natural Gas Northwest Natural Gas Portland General Electric Narragansett Electric Chattanooga Gas Questar Gas Columbia Gas of Virginia Virginia Natural Gas	Gas Gas Electric Gas Gas Gas Gas Gas Gas	2013-2015 2012-open 2014-2016 2012-open 2012-open 2013-open 2013-2015 2013-2016	Customers Customers Customers No RAM but broad-based capital cost tracker Customers Customers Customers Customers Customers	Order 13-079 Order 12-408 Order 13-459 Docket 4206 Docket 4206 Docket 09-0183 Docket 09-057-16 Case PUE-2012-00013 Case PUE-2012-00118
OH OR OR RI RI TN UT VA	Duke Energy Ohio Cascade Natural Gas Northwest Natural Gas Portland General Electric Narragansett Electric Chattanooga Gas Questar Gas Columbia Gas of Virginia	Gas Gas Electric Gas Gas Gas Gas Gas	2013-2015 2012-open 2014-2016 2012-open 2012-open 2013-open 2010-open 2013-2015	Customers Customers Customers No RAM but broad-based capital cost tracker Customers Customers Customers Customers	Order 13-079 Order 12-408 Order 13-459 Docket 4206 Docket 4206 Docket 09-0183 Docket 09-057-16 Case PUE-2012-00013 Case PUE-2012-00118 Case PUE-2012-00138
OH OR OR RI RI TN UT VA VA VA VA	Duke Energy Ohio Cascade Natural Gas Northwest Natural Gas Portland General Electric Narragansett Electric Narragansett Electric Chattanooga Gas Questar Gas Columbia Gas of Virginia Virginia Natural Gas Washington Gas Light	Gas Gas Electric Gas Gas Gas Gas Gas Gas Gas Gas	2013-2015 2012-open 2014-2016 2012-open 2013-open 2010-open 2013-2015 2013-2016 2013-2016	Customers Customers Customers No RAM but broad-based capital cost tracker Customers Customers Customers Customers Customers Customers	Order 13-079 Order 12-408 Order 13-459 Docket 4206 Docket 4206 Docket 09-0183 Docket 09-057-16 Case PUE-2012-00013 Case PUE-2012-00118 Case PUE-2012-00138 Dockets UE-140188 and UG-
OH OR OR RI RI TN UT VA VA VA	Duke Energy Ohio Cascade Natural Gas Northwest Natural Gas Portland General Electric Narragansett Electric Chattanooga Gas Questar Gas Columbia Gas of Virginia Virginia Natural Gas	Gas Gas Electric Gas Gas Gas Gas Gas Gas	2013-2015 2012-open 2014-2016 2012-open 2012-open 2013-open 2013-2015 2013-2016	Customers Customers Customers No RAM but broad-based capital cost tracker Customers Customers Customers Customers Customers Customers Customers	Order 13-079 Order 12-408 Order 13-459 Docket 4206 Docket 4206 Docket 09-0183 Docket 09-057-16 Case PUE-2012-00013 Case PUE-2012-00118 Case PUE-2012-00138 Dockets UE-140188 and UG- 140189
OH OR OR RI RI TN UT VA VA VA VA WA	Duke Energy Ohio Cascade Natural Gas Northwest Natural Gas Portland General Electric Narragansett Electric Narragansett Electric Chattanooga Gas Questar Gas Columbia Gas of Virginia Virginia Natural Gas Washington Gas Light Avista	Gas Gas Electric Gas Gas Gas Gas Gas Gas Gas Gas Gas Gas	2013-2015 2012-open 2014-2016 2012-open 2013-open 2010-open 2013-2015 2013-2016 2013-2016 2015-2019	Customers Customers Customers No RAM but broad-based capital cost tracker Customers Customers Customers Customers Customers Customers Customers Revenue per Customer	Order 13-079 Order 12-408 Order 13-459 Docket 4206 Docket 4206 Docket 09-0183 Docket 09-057-16 Case PUE-2012-00113 Case PUE-2012-00118 Case PUE-2012-00138 Dockets UE-140188 and UG- 140189 Dockets UE-121697 and UG-
OH OR OR RI RI TN UT VA VA VA VA	Duke Energy Ohio Cascade Natural Gas Northwest Natural Gas Portland General Electric Narragansett Electric Narragansett Electric Chattanooga Gas Questar Gas Columbia Gas of Virginia Virginia Natural Gas Washington Gas Light	Gas Gas Electric Gas Gas Gas Gas Gas Gas Gas Gas	2013-2015 2012-open 2014-2016 2012-open 2013-open 2010-open 2013-2015 2013-2016 2013-2016	Customers Customers Customers No RAM but broad-based capital cost tracker Customers Customers Customers Customers Customers Customers Customers	Order 13-079 Order 12-408 Order 13-459 Docket 4206 Docket 4206 Docket 09-0183 Docket 09-057-16 Case PUE-2012-00013 Case PUE-2012-00118 Case PUE-2012-00138 Dockets UE-140188 and UG- 140189

	<i>a</i>	a .	Plan	Revenue Adjustment	
urisdiction	Company Name	Services	Years	Mechanism	Case Reference
			nt (cont'	d)	
PC	PC Uudro	Electric	Canada	Stainstan	Order G-48-14
BC BC	BC Hydro FortisBC	Electric	2015-2016 2014-2019	Stairstep Indexing	Order G-48-14 Order G-139-14
BC	FortisBC Energy	Gas	2014-2019	Indexing	Order G-139-14 Order G-138-14
BC	Pacific Northern Gas	Gas	2003-open	Customers	N/A
ON	Enbridge Gas Distribution	Gas	2014-2018	Stairstep	EB-2012-0459
ON	Union Gas	Gas	2014-2018	Indexing	EB-2013-0202
		Hi	istoric		
		Uni	ted States		I
AR	Arkansas Oklahoma Gas	Gas	2007-2013	No RAM	Dockets 07-026-U, 07-077-T
AR	Arkansas Western	Gas	2008-2013	No RAM	Docket 07-078-TF
CA	Bear Valley Electric Service	Electric	2009-2012	Stairstep	Decision 09-10-028
CA CA	Pacific Gas & Electric Pacific Gas & Electric	Gas & Electric Electric	1982-1983 1984-1985	Hybrid Hybrid	Decision 93887 Decision 83-12-068
	Pacific Gas & Electric	Electric	1986-1989	Hybrid	Decision 85-12-008
	Pacific Gas & Electric	Electric	1990-1992	Hybrid	Decision 89-12-070
CA	Pacific Gas & Electric	Gas & Electric	1993-1995	Hybrid	Decision 92-12-057
CA	Pacific Gas & Electric	Gas & Electric	2004-2006	Indexing	Decision 04-05-055
CA	Pacific Gas & Electric	Gas & Electric	2007-2010	Stairstep	Decision 07-03-044
CA	Pacific Gas & Electric	Gas & Electric	2011-2013	Stairstep	Decision 11-05-018
CA	Pacific Gas & Electric	Gas	1978-1981	No RAM	Decisions 89316, 91107
CA	PacifiCorp	Electric	1984-1985	Stairstep	Decision 89-09-034
CA	San Diego Gas & Electric	Gas & Electric	1982-1983	Hybrid	Decision 93892
CA CA	San Diego Gas & Electric San Diego Gas & Electric	Gas & Electric Electric	1986-1988 1989-1993	Hybrid Hybrid	Decision 85-12-108 Decision 89-11-068
	San Diego Gas & Electric	Gas & Electric	1989-1993	Hybrid	Decision 94-08-023
	San Diego Gas & Electric	Gas & Electric	2005-2007	Indexing	Decision 05-03-025
	San Diego Gas & Electric	Gas & Electric	2008-2011	Stairstep	Decision 08-07-046
CA	Southern California Edison	Electric	1983-1984	Hybrid	Decision 82-12-055
CA	Southern California Edison	Electric	1986-1991	Hybrid	Decision 85-12-076
CA	Southern California Edison	Electric	2001-2003	Indexing	Decision 02-04-055
CA	Southern California Edison	Electric	2004-2006	Hybrid	Decision 04-07-022
CA	Southern California Edison	Electric	2006-2008	Hybrid	Decision 06-05-016
CA	Southern California Edison	Electric	2009-2011	Stairstep	Decision 09-03-025
CA	Southern California Gas	Gas	1979-1980	No RAM	Decision 89710
CA	Southern California Gas	Gas	1981-1982	Stairstep	Decision 92497 Decision dated December 8
CA	Southern California Gas	Gas	1983-1984	Hybrid	1982
CA	Southern California Gas	Gas	1986-1989	Hybrid	Decision 85-12-076
CA	Southern California Gas	Gas	1990-1993	Hybrid	Decision 90-01-016
CA	Southern California Gas	Gas	1998-2002	Indexing	Decision 97-07-054
CA	Southern California Gas	Gas	2005-2007	Indexing	Decision 05-03-025
CA	Southern California Gas	Gas	2008-2011	Stairstep	Decision 08-07-046
CA	Southwest Gas	Gas	2009-2013	Stairstep	Decision 08-11-048
со	Public Service Company of Colorado	Gas	2008-2011	Customers	Decision C07-0568
<i></i>	Public Service Company of				
CO	Colorado	Electric	2012-2014	Stairstep	Decision C12-0494
СТ	TT '4 1 TH ' 4'	F 1 ('	2000 2012	Stairstep until 2011/No RAM	D 1 400 07 04
FL	United Illuminating Florida Power Corporation	Electric Electric	2009-2013 1995-1997	for 2011 onwards Customers	Docket 08-07-04 Docket 930444
ID ID	Idaho Power	Electric	2007-2009	Customers	Case IPC-E-04-15
ID ID	Idaho Power	Electric	2010-2012	Customers	Case IPC-E-09-28
	North Shore Gas	Gas	2008-2012	Customers	Case 07-0241
IL	Peoples Gas Light & Coke	Gas	2008-2012	Customers	Case 07-0242
IN	Citizens Gas	Gas	2007-2011	Customers	Cause 42767
IN	Vectren Energy	Gas	2007-2011	Customers	Cause 43046
IN	Vectren Southern Indiana	Gas	2007-2011	Customers	Cause 43046
MA	Bay State Gas	Gas	2009-open	Customers	DPU 09-30
ME	Central Maine Power	Electric	1991-1993	Customers	Docket 90-085
MI	Consumers Energy	Electric	2009-2011	Customers	Case U-15645
MI	Consumers Energy	Gas	2010-2012	Customers	Case U-15986
MI MI	Detroit Edison Michigan Consolidated Gas	Electric	2010-2011 2010-2012	Customers	Case U-15768
MI	Michigan Gas Utilities	Gas Gas	2010-2012	Customers Customers	Case U-15985 Case U-15990
MI	Upper Peninsula Power	Electric	2010-2013	Customers	Case U-15990 Case U-15988
				Customers	
MN	CenterPoint Energy	Gas	2010-2013	Clisiomers	Docket GR-08-1075

			Plan	Revenue Adjustment	
irisdiction	Company Name	Services	Years	Mechanism	Case Reference
		Histor	ic (cont'	d)	
		United	States (cont'	d)	
NC	Piedmont Natural Gas	Gas	2005-2008	Customers	Docket G-44 Sub 15
				Not Applicable, plan only 1	
ND	Northern States Power - MN	Electric	2012	year in duration	Case PU-11-55
NJ	New Jersey Natural Gas	Gas	2007-2010	Customers	Docket GR05121020
NJ NJ	New Jersey Natural Gas	Gas Gas	2010-2013 2007-2010	Customers Customers	Docket GR05121020
NJ	South Jersey Gas South Jersey Gas	Gas	2010-2010	Customers	Docket GR05121019 Docket GR05121019
NY	Central Hudson G&E	Gas	2010-2015 2009-open	Customers	Case 08-E-0888
NY	Central Hudson G&E	Electric	2009	No RAM	Case 08-E-0887
				Revenue per Customer Stairstep for Gas, Stairstep for	
NY	Central Hudson G&E	Gas & Electric	2010-2013	Electric	Case 09-E-0588
				Customers for Gas, No RAM	
NY	Central Hudson G&E	Gas & Electric	2013-open	for Electric	Case 12-M-0192
NY	Consolidated Edison	Electric	1992-1995	Stairstep	Opinion 92-8
NY NY	Consolidated Edison Consolidated Edison	Gas Electric	2007-2010 2008 anan	Stairstep No RAM	Case 06-G-1332
IN Y	Consolidated Edison	Electric	2008-open	Revenue per Customer	Case 07-E-0523
NY	Consolidated Edison	Gas	2010-2013	Stairstep	Case 09-G-0795
NY	Consolidated Edison	Electric	2010-2013	Stairstep	Case 09-E-0428
				Revenue per Customer	
NY	Corning Natural Gas	Gas	2012-2015	Stairstep	Case 11-G-0280
NY	Keyspan Energy Delivery - New York	Gas	2010-open	Revenue per Customer Stairstep	Case 06-G-1185
111	Tork	Gas	2010-0pen	Stanstep	Case 00-0-1185
NY	Long Island Lighting Company	Electric	1992-1994	Stairstep	Opinion 92-8
NY	National Fuel Gas	Gas	2008-open	Customers	Case 07-G-0141
NY	New York State Electric & Gas	Electric	1993-1995	Stairstep	Opinion 93-22
NY	Niagara Mohawk	Electric	1990-1992	Stairstep	Case 94-E-0098
NY	Niagara Mohawk	Gas	2009-open	Customers	Case 08-G-0609
NY	Niagara Mohawk	Electric	2011-open	No RAM	Case 10-E-0050
NY NY	Orange & Rockland Utilities	Electric	2012-2015	Stairstep	Case 11-E-0408
NY	Orange & Rockland Utilities Orange & Rockland Utilities	Electric Electric	2011-2012 2008-2011	No RAM Stairstep	Case 10-E-0362 Case 07-E-0949
NY	Orange & Rockland Utilities	Electric	1991-1993	Stairstep	Case 89-E-175
NY	Orange & Rockland Utilities	Gas	2012-2015	Customers	Case 08-G-1398
				Revenue per Customer	
NY	Orange & Rockland Utilities	Gas	2009-2012	Stairstep	Case 08-G-1398
NY	Rochester Gas & Electric	Electric	1993-1996	Stairstep	Opinion 93-19
OH	Duke Energy Ohio	Electric	2012-2014	Customers	Case 11-5905-EL-RDR
OH	Vectren Energy	Gas	2007-2009	Customers	Case 05-1444-GA-UNC
OR OR	Cascade Natural Gas Northwest Natural Gas	Gas Gas	2007-2012 2002-2005	Customers Customers	Order 06-191 Order 02-634
OR	Northwest Natural Gas	Gas	2002-2003	Customers	Order 05-934
OR	Northwest Natural Gas	Gas	2009-2012	Customers	Order 07-426
OR	PacifiCorp	Electric	1998-2001	Indexing	Order 98-191
OR	Portland General Electric	Electric	1995-1996	Stairstep	Order 95-0322
OR	Portland General Electric	Electric	2009-2010	Customers	Order 09-020
OR	Portland General Electric	Electric	2011-2013	Customers	Order 10-478
TN	Chattanooga Gas	Gas	2010-2013	Customers	Docket 09-0183
UT VA	Questar Gas Virginia Natural Gas	Gas Gas	2006-2010 2009-2012	Customers Customers	Docket 05-057-T01 Case PUE-2008-00060
VA VA	Washington Gas Light	Gas	2009-2012	Customers	Case PUE-2008-00060 Case PUE-2009-00064
WA	Avista	Gas	2010-2013	Customers	Docket UG-060518
WA	Avista	Gas	2007-2009	Customers	Docket UG-060518
				Revenue per Customer	
WA	Avista	Gas	2013-2014	Stairstep	Docket UG-120437
WA	Cascade Natural Gas	Gas	2005-2010	Customers	Docket UG-060256
WA	Puget Sound & Power	Electric	1991-1995	Customers	Docket UE-901184-P
WI	Wisconsin Public Service	Gas & Electric	2009-2012	Customers	D-6690-UR-119
WI	Wisconsin Dublic Comis-	Cos & Electric	2012	Not Applicable, plan only 1	Docket 6600 UD 101
VV 1	Wisconsin Public Service	Gas & Electric	2013	year in duration	Docket 6690-UR-121

			Plan	Revenue Adjustment	
Jurisdiction	Company Name	Services	Years	Mechanism	Case Reference
		Histor	' ic (cont'	d)	
		(Canada		
BC	BC Gas	Gas	1994-1995	Hybrid	Order G-59-94
BC	BC Gas	Gas	1996-1997	Hybrid	N/A
BC	BC Gas	Gas	1998-2000	Hybrid	Order G-85-97
BC	BC Gas	Gas	2000-2001	Hybrid	Order G-48-00
BC	BC Hydro	Electric	2009-2010	Hybrid	Order G-16-09
				Not Applicable, plan only 1	
BC	BC Hydro	Electric	2011	year in duration	Order G-180-10
BC	BC Hydro	Electric	2012-2014	Stairstep	Order G-77-12A
BC	FortisBC	Electric	2012-2013	Stairstep	Order G 110-12
BC	Terasen Gas	Gas	2008-2009	Hybrid	Order G-33-07
BC	Terasen Gas	Gas	2004-2007	Hybrid	Order G-51-03
BC	Terasen Gas	Gas	2010-2011	Hybrid	Order G-141-09
BC	Terasen Gas	Gas	2012-2013	Stairstep	Order G-44-12
				Revenue per Customer	
ON	Enbridge Gas Distribution	Gas	2008-2012	Indexing	Docket EB-2007-0615
ON	Union Gas	Gas	2008-2012	Indexing	Docket EB-2007-0606

Fixed/variable pricing relaxes the revenue/usage link with low administrative cost since it requires neither decoupling true ups nor load impact calculations. When average use is declining, base revenue will grow more rapidly with fixed/variable pricing so that rate cases tend to be less frequent even if the decline is largely driven by external forces. Base revenue grows more slowly than under conventional rate designs if average use is rising. The short term disincentive is removed to embrace various DSM initiatives. However, fixed/variable pricing reduces a utility's ability to use usage charges as a tool for promoting DSM. For example, it does not encourage customers with electric vehicles to charge these vehicles at night. Note also that the principle of rate design gradualism often discourages regulators from immediately adopting SFV pricing.

SFV pricing has been used on a large scale by interstate gas transmission companies since the early 1990s. Precedents for fixed/variable pricing in retail ratemaking are listed below on Table 5 and Figure 6. It can be seen that fixed/variable pricing has to date been considerably more common for gas distributors than electric utilities. This again reflects the greater problem of declining average use that gas distributors have faced, and the fact that the decline has been driven largely by external forces. Since our 2013 survey, fixed/variable pricing has been implemented for an electric utility in Oklahoma.

In addition to the precedents listed here, utilities in Wisconsin and several other states have in recent years made sizable steps in the direction of fixed/variable pricing by redesigning rates for small volume customers to raise customer charges and lower volumetric charges substantially. Investor-owned utilities in Canada are typically permitted to raise a much higher portion of their revenue through fixed charges than are utilities in the United States. Most fixed/variable rate designs feature uniform fixed charges within service classes, but gas utilities in Florida, Georgia, and Oklahoma have fixed charges that vary in some fashion with long term consumption patterns.

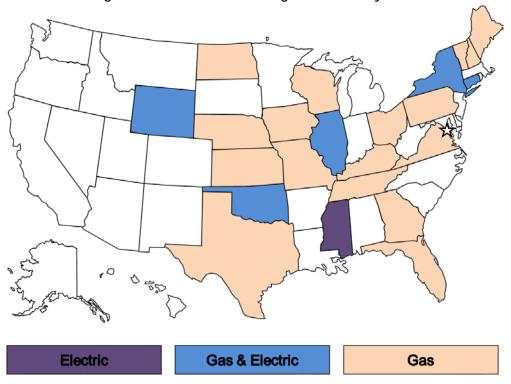




Table 5

Fixed Variable Residential Pricing Precedents¹

Jurisdiction	Company Name	Services	Years in Place	Case Reference
СТ	Connecticut Light & Power	Electric	2007-open	Docket 07-07-01
СТ	Connecticut Light & Fower	Gas	2007-open 2014-open	Docket 13-06-08
CI		Gas	Occurred over period	Docket 13-00-08
СТ	United Illuminating	Electric	of years	No specific case
СТ	Yankee Gas System	Gas	2011-open	Docket 10-12-02
			^	
FL	Peoples Gas System	Gas	2009-open	Docket 080318-GU
GA	Liberty Utilities	Gas	2015-open	Docket 34734
IA	Black Hills Energy	Gas	2009-open	Docket RPU-08-3
IL IL	Ameren CILCO Ameren CIPS	Gas Gas	2008-2012 2008-2012	Case 07-0588 Case 07-0589
	Ameren IP	Gas	2008-2012	Case 07-0590
	Ameren Illinois	Gas		Case 07-0390
IL		Gas	2012-open Occurred over period	Case 11-0282
IL	Ameren Illinois	Electric	of years	No specific case
	Commonwealth Edison	Electric	2011-2013	Case 10-0467
	Mt. Carmel Public Utilities	Gas	2011-2013 2013-open	Case 13-0079
	North Shore Gas	Gas	2013-open 2008-open	Case 07-0241
	Peoples Gas Light & Coke	Gas	2008-open	Case 07-0241 Case 07-0242
KS	Atmos Energy	Gas	2008-open 2010-open	Docket 10-ATMG-495-RTS
KS	Black Hills Energy (formerly Aquila)	Gas	2010-open	Docket 07-AQLG-431-RTS
KS	Kansas Gas Service	Gas	2007-0pen 2012-open	Docket 12-KGSG-835-RTS
KS	Atmos Energy	Gas	2012-open 2014-open	Case 2013-00148
KI	Columbia Gas	Gas	2014-0pen 2013-open	Case 2013-00148
KY	Delta Natural Gas	Gas	2007-open	Case 2013-00107
KY	Duke Energy Kentucky	Gas	2007 open 2010-open	Case 2009-00202
		Gus	Occurred over period	2009 00202
ME	Maine Natural Gas	Gas	of years	Docket 2009-00067
		Cub		2000 2000 00000
ME	Northern Utilities	Gas	2014-open	Docket 2013-00133
MO	AmerenUE	Gas	2007-open	Case GR-2007-0003
МО	Atmos Energy	Gas	2007-2010	Case GR-2006-0387
мо	Atmos Energy	Gas	2010-open	Case GR-2010-0192
		Gus	2010 0pen	Cuse GR 2010 0172
мо	Empire District Gas	Gas	2010-open	Case GR-2009-0434
		Gus	2010 0pen	Cuse GR 2007 0454
мо	Laclede Gas	Gas	2002-open	Case GR-2002-356
MO	Missouri Gas Energy	Gas	2002 open 2007-open	Case GR-2002-550
MO	Missouri Gus Energy	Gus	Occurred over period	Case GR 2000 0422
MS	Mississippi Power	Electric	of years	No specific case
ND	Xcel Energy	Gas	2005-open	Case PU-04-578
NE	SourceGas Distribution	Gas	2002 open 2012-open	Docket NG-0067
			Occurred over period	
NH	Liberty Utilities (EnergyNorth Natural Gas)	Gas	of years	No specific case
NH	Northern Utilities	Gas	2014-open	DG 13-086
	1		Occurred over period	
NY	Central Hudson Gas & Electric	Electric & Gas	of years	No specific case
			Occurred over period	•
NY	Consolidated Edison	Electric & Gas	of years	No specific case
			Occurred over period	
NY	Corning Gas	Gas	of years	No specific case
			Occurred over period	
NY	Keyspan Energy Delivery - Long Island	Gas	of years	No specific case
			Occurred over period	
NY	Keyspan Energy Delivery - New York	Gas	of years	No specific case
			Occurred over period	
NY	National Fuel Gas	Gas	of years	No specific case

Jurisdiction	Company Name	Services	Years in Place	Case Reference
			Occurred over period	
NY	New York State Electric & Gas	Electric	of years	No specific case
			Occurred over period	
NY	Niagara Mohawk	Electric & Gas	of years	No specific case
			Occurred over period	
NY	Orange & Rockland	Electric & Gas	of years	No specific case
			Occurred over period	
NY	Rochester Gas & Electric	Electric & Gas	of years	No specific case
OH	Columbia Gas	Gas	2008-open	Case 08-0072-GA-AIR
OH	Dominion East Ohio	Gas	2008-2010	Case 07-830-GA-ALT
OH	Duke Energy Ohio (CG&E)	Gas	2008-open	Case 07-590-GA-ALT
OH	Vectren Energy Delivery of Ohio	Gas	2009-open	Case 07-1080-GA-AIR
OK	Arkansas Oklahoma Gas	Gas	2013-open	Cause PUD 201200236
OK	Centerpoint Energy	Gas	2010-open	Cause PUD 201000030
OK OK PA	Oklahoma Natural Gas Public Service Company of Oklahoma Columbia Gas	Gas Electric Gas	2004-open 2015-open 2013-open	Causes PUD 200400610, PUD 201000048, PUD 200900110 Cause PUD 201300217 Docket R-2012-2321748
TN	Atmos Energy	Gas	2012-open	Docket 12-00064
TN	Piedmont Natural Gas	Gas	2012-open	Docket 11-00144
ТХ	Atmos Energy - Mid-Tex Division	Gas	Occurred over period of years	No specific case
TX	Atmos Energy - West Texas Division	Gas	Occurred over period of years Occurred over period	No specific case
ТХ	Centerpoint Energy Houston Division	Gas	of years	No specific case
ТХ	Centerpoint Energy Beaumont/East Texas Division	Gas	Occurred over period of years	No specific case
VA	Columbia Gas of Virginia	Gas	Occurred over period of years	No specific case
VT	Vermont Gas Systems	Gas	Occurred over period of years	No specific case
WI	Madison Gas & Electric	Gas	2015-open	Docket 3270-UR-120
WI	Wisconsin Public Service	Gas	2015-open	Docket 6690-UR-123
WY	SourceGas Distribution	Gas	2011-open	Docket 30022-148-GR-10
WY	PacifiCorp (d/b/a Rocky Mountain Power)	Electric	2009-open	Docket 20000-333-ER-08

¹ Fixed variable pricing precedents include power and gas distributors that have a customer charge equal to or in excess of \$15 (or \$20 for vertically integrated electric utilities).

IV. Forward Test Years

General rate cases involve "test years" in which revenue requirements and billing determinants (e.g., the residential delivery volume) are jointly considered in ratesetting. A historical test year ends before the rate case is filed. A forward (a/k/a "fully forecasted") test year ("FTY") begins after the rate case is filed. An FTY typically begins about the time the rate case is expected to end and new rates take effect. Two-year forecasts may be required in this event which span both the year of the rate case and the rate effective year.⁴ In between forward and historical test years is the option of a "partially forecasted" test year in which some months of historical data on utility operations are combined with some months of forecasted data. Under this approach, actual data for all months usually become available during the course of the rate case.

Historical test years tend to be uncompensatory when cost is growing faster than billing determinants. Annual rate cases with historical test years can alleviate but not eliminate underearning under these conditions. The effect on credit metrics can be material.⁵ Where historical test years are used, there are thus added advantages to implementing other Altreg innovations discussed in this survey.

Forward test years can fully compensate utilities when cost growth exceeds growth in billing determinants. If this imbalance is chronic, however, FTYs do not eliminate the problem of frequent rate cases. It is therefore not unusual for regulators to combine FTYs with other Altreg remedies, such as cost trackers or multiyear rate plans.

Many approaches are used to forecast costs in FTY rate cases. Some companies rely on their budgeting process to make cost projections. Others normalize data for an historical reference period, adjusted for known and measurable changes, and then use indexing and other statistical methods to extend projections. A mixture of forecasting methods is common. For example, index-based forecasting may be used only for O&M expenses.

FTYs were adopted in many jurisdictions during the 1970s and 1980s, when rapid inflation and major plant additions coincided with oil shock-induced slowdowns in the growth of average use. Several additional states have recently moved in the direction of FTYs. Some of these states are in the West, where comparatively rapid economic growth has required more rapid buildout of utility infrastructure.

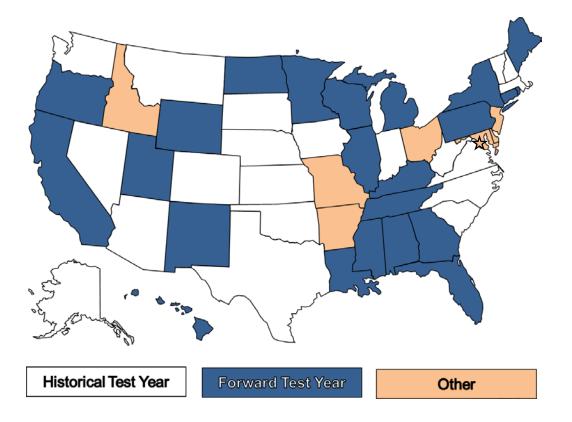
Current state policies concerning test years are summarized below in Figure 7 and Table 6. In many jurisdictions the use of partially or fully-forecasted test years is not standardized. For example, in some jurisdictions, including Illinois and North Dakota, utilities are allowed to select their type of rate case test year. Test year selection may also be made part of the rate case (e.g., Utah). A few jurisdictions allow forward test years to be used in rate cases or formula rate plans, but not both (e.g., Illinois and Arkansas).

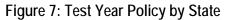
⁴ A forward test year can in principle be the rate case year, and thereby not require two-year forecasts. Proposed rates can be established on an interim basis shortly after the filing.

⁵ For evidence see "Forward Test Years for US Electric Utilities" by Mark Newton Lowry, David Hovde, Lullit Getachew, and Matt Makos, Edison Electric Institute, 2010.

Because of these complications, we have separated Table 6 into separate sections, specifying where FTYs are commonly used or occasionally used. Figure 7 shows jurisdictions where FTYs are commonly or occasionally used. Jurisdictions where partially-forecasted test years are commonly or occasionally used are in the category titled Other, with the remaining jurisdictions counted as historical test years.

The ranks of US jurisdictions that allow the use of forward test years have swollen and now encompass about half of the total. Since our 2013 survey, electric utilities in Pennsylvania have successfully used FTYs and utilities in Arkansas and Indiana have received legislative authorization for their use.⁶⁷ Forward test years are the norm in Canadian regulation.





⁶ In addition, another electric utility in Mississippi was recently permitted to use a forward-looking formula rate plan. ⁷ FTYs in Arkansas can only be used in formula rate plans.

Table 6

Test Year Approaches of US Jurisdictions

Jurisdiction	Notes
	Fully-Forecasted Test Years Commonly Used (15)
Alabama California	Utilities operate under forward-looking formula rate plans
Connecticut FERC Florida Georgia Hawaii Maine Michigan Mianaeata	Rate cases use forward test years but some formula rate plans use historical test years
Minnesota New York Oregon Rhode Island Tennessee Wisconsin	
	Fully-Forecasted Test Years Occasionally Used (9)
Illinois	Utilities use various test years including forward test years ("FTYs")
Kentucky Louisiana Mississippi	Utilities use various test years including FTYs Utilities use various test years including FTYs Utilities use various test years including FTYs Both electric utilities operate under forward-looking formula rate plans. Gas formula rate plans rely on historical test years ("HTYs").
New Mexico	A recently passed law allows for use of FTYs, and at least one rate increase based on FTY evidence has been approved
North Dakota Pennsylvania	Utilities use various test years including FTYs Partially-forecasted test years have traditionally been the norm. However, a law allowing fully- forecasted test years passed in 2012 and several electric utility rate increases based on FTY evidence have been approved.
Utah	Test year selection is part of the rate case and can be contested. Several recent rate cases have used FTYs.
Wyoming	Rocky Mountain Power has recently used FTYs
Partially	/-Forecasted Test Years Commonly or Occasionally Used (8)
Arkansas Delaware District of Columbia Idaho Maryland Missouri New Jersey Ohio	Utilities have typically used partially forecasted test years in rate cases. However, a recent bill authorized the use of formula rates with either historical or forecasted test periods. Before restructuring FTY filings were common, but companies have used a mix of HTYs and partially-forecasted test years in recent filings PEPCO has filed rate cases using both hybrid and historical test years recently Utilities use various test years excluding FTYs Utilities have the option to file partially-forecasted test years
	Historical Test Years Commonly Used (20)
Alaska Arizona Colorado Indiana	Utilities have filed FTY evidence. However, no FTY rates have yet been approved but a recent case made extraordinary HTY adjustments. A recently passed law allows for use of FTYs, but no rate increase based on FTY evidence has
lowa Kansas Massachusetts Montana	been approved for an energy utility to date
Nebraska Nevada	Nebraska has no electric IOUs. Gas companies are legally authorized to use FTYs but commonly use HTYs.
New Hampshire North Carolina Oklahoma South Carolina South Dakota Texas Vermont Virginia Washington West Virginia	

V. Multiyear Rate Plans

Multiyear rate plans ("MRPs") are designed to reduce regulatory cost, while increasing the utility incentive for efficient operation. Rate cases are held infrequently, most often at three to five year intervals. Between rate cases, rate escalations are based on a combination of automatic attrition relief mechanisms ("ARMs") and cost trackers. The rate adjustments provided by ARMs are largely "external" in the sense that they give a utility an *allowance* for cost growth rather than reimbursement for its *actual* growth.

The "externalization" of ratemaking that ARMs and rate case moratoria achieve gives utilities more opportunity to profit from improved performance. Benefits of better performance can be shared between the utility and its customers. Performance incentives are strengthened despite streamlined regulation. Lower regulatory cost has special appeal in jurisdictions where numerous utilities must be regulated.

ARMs can cap growth in rates (e.g., customer charges and cents per kWh) or allowed revenue. Rate caps are favored when and where utilities are encouraged to bolster customer use of the grid. Revenue caps are usually combined with revenue decoupling mechanisms, and are often favored where utilities must cope with declining average use and/or policymakers strongly encourage DSM.

Several approaches to ARM design are well-established. These include multiyear cost forecasts, indexing, and hybrids. Indexing escalates rates (or revenue) automatically for inflation and sometimes also for growth in other cost drivers like the number of customers served. A hybrid approach to ARM design was developed in the US that involves indexing of revenue for O&M expenses and forecasts for capital cost revenue.

The indexing approach to ARM design has been more common for UDCs because their cost growth is relatively gradual and predictable. Hybrid and forecasted ARMs have historically been more common for vertically integrated electric utilities because occasional major plant additions have given their cost trajectories more of a "stairstep" pattern. However, this pattern is becoming less common in an era when demand growth is slower and fewer large power plants are under construction. Some VIEUs operating under MRPs have separate ARMs for generation and distribution.

Cost trackers are often used in MRPs to address changes in business conditions that are difficult to address using ARMs. A tracker that recovers a large portion of a utility's capex cost can sometimes permit the company to operate under a multiyear freeze on rates for other non-energy costs. MRPs with "tracker/freeze" provisions for vertically integrated utilities often accord tracker treatment to costs of new or refurbished generating plants.⁸ Trackers also address *force majeure* events like severe storms and changes in tax rates that affect costs.

Many MRPs feature earnings sharing mechanisms ("ESMs") that automatically share earnings surpluses and/or deficits that result when the rate of return on equity ("ROE") deviates from its regulated target. Some MRPs feature "off-ramps" that permit plan suspension when earnings are unusually high or low.

⁸ A good example is the Generation Base Rate Adjustment in the current MRP of Florida Power & Light.

Plans often feature performance incentive mechanisms that are linked to the utility's service quality. With stronger cost containment incentives, there is a greater need for a link between revenue and service quality. Many MRPs combine revenue decoupling, the tracking of DSM expenses, and performance incentives for DSM. The stronger incentive to contain cost that MRPs provide then becomes a "fourth leg" for the DSM stool.

MRPs have long been used to regulate utilities where market-responsive rates and services are a priority. Infrequent rate cases reduce the regulatory cost of allocating the revenue requirement between a complex and changing mix of market offerings and lessen concerns about cross-subsidization. These benefits of MRPs can be enhanced by designing other plan provisions in ways that insulate core customers from potentially adverse consequences of marketing flexibility.

For example, in the early 1990s, Maine's electric utilities were still vertically integrated and needed flexibility in marketing power to paper and pulp customers, some of whom had cogeneration options. The commission, under the chairmanship of Thomas Welch (a former telecom industry lawyer) approved a succession of price cap plans for Central Maine Power which facilitated marketing flexibility. As a result, the company had more freedom to enter into special contracts. The stronger incentives the company had to offer the right discounts to customers at risk of bypass was acknowledged by the commission when costs were allocated in later rate cases.

MRPs were first widely used in the United States to regulate railroad, oil pipeline, and telecommunications companies. A major attraction was the ability of MRPs to afford utilities flexibility in serving markets with diverse competitive pressures and complex, changing customer needs. US and Canadian precedents for MRPs in the electricity and gas utility industries are indicated in Table 7 and Figures 8a and 8b.⁹ In the US, MRPs have traditionally been most common in California and the Northeast. MRPs have been adopted by well-known VIEUs in Florida, North Dakota, and Virginia since our 2012 survey. A number of states have, additionally, experimented with "mini-MRPs" with terms of only two years. The forecast and tracker/freeze approaches to ARM design are most common currently in the US. The Federal Energy Regulatory Commission ("FERC") uses MRPs with index-based ARMs to regulate oil pipelines.

Canada is moving towards MRPs with index-based ARMs for gas and electric power distribution in all four populous provinces. In advanced economies overseas, MRPs are more the rule than the exception for utility regulation. Australia, Britain, and New Zealand are long time practitioners.

⁹ Rate freezes without extensive supplemental funding from capital cost trackers are excluded from Table 7 and Figures 8a and 8b.

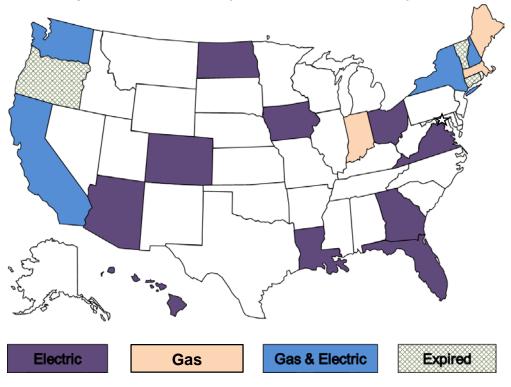


Figure 8a: Recent US Multiyear Rate Plan Precedents by State

Figure 8b: Recent Canadian Multiyear Rate Plan Precedents by Province

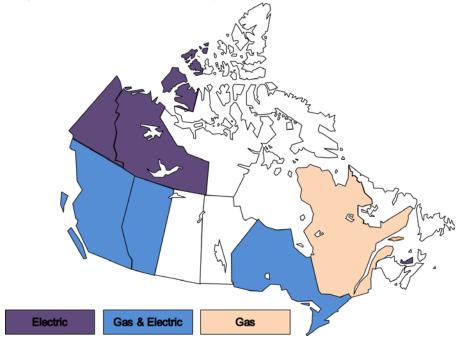


Table 7

Multiyear Rate Plan Precedents ¹

			Services		Earnings Sharing				
Jurisdiction	Company	Plan Term	Covered	Rate Escalation Provisions	Provisions	Case Reference			
	Current								
				United States					
AZ	Arizona Public Service	2012-2016	Bundled power service	Rate Freeze with an adjustment to account for purchase of SCE's share of Four Corners generating facility, additional capital and other cost trackers, LRAM	None	Decision 73183; May 2012			
CA	Bear Valley Electric Service	2013-2016	Power distribution	Revenue Cap Stairstep	None	Decision 14-11-002; November 2014			
CA	California Pacific Electric	2013-2015	Power distribution	Revenue Cap Index	None	Decision 12-11-030; November 2012			
CA	California Facilie Electric	2013-2013	Gas & bundled power	Revenue Cap index	None	Decision 12-11-050, November 2012			
CA	Pacific Gas & Electric	2014-2016	service	Revenue Cap Stairstep	None	Decision 14-08-032; August 2014			
		2011-2013, extended		Price Cap Index: Rates escalated by Global Insight forecast of CPI, less 0.5% productivity					
CA	PacifiCorp	through 2016	Bundled power service	factor; supplemental funding for major plant additions can be requested in annual filings	None	Decision 10-09-010; September 2010			
			Gas & bundled power						
CA	San Diego Gas & Electric	2012-2015	service	Revenue Cap Stairstep	None	Decision 13-05-010; May 2013			
CA	Southern California Gas	2012-2015	Gas	Revenue Cap Stairstep	None	Decision 13-05-010; May 2013			
CA	Southwest Gas	2014-2018	Gas	Revenue Cap Stairstep	None	Decision 14-06-028; June 2014			
					Sharing of overearnings only up to earnings				
CO	Public Service of Colorado	2015-2017	Bundled power service	Rate Freeze with multiple capital cost trackers	сар	Decision C15-0292; March 2014			
FL	Florida Power & Light	2013-2016	Bundled power service	Rate Freeze with multiple capital and other cost trackers	None	Docket 120015-EI; December 2012			
FL	Gulf Power	2014-June 2017	Bundled power service	Price Cap Stairstep through 2015, Rate Freeze beyond	None	Docket 130140-EI; December 2013			
	Duke Energy Florida (formerly	2012-2016, extended				Dockets 120022-EI and 130208-EI;			
FL	Progress Energy Florida)	through 2018	Bundled power service	Rate Freeze with one step plus capital and other cost trackers	None	2012 and November 2013			
FL	Tampa Electric	2013-2017	Bundled power service	Revenue Cap Stairstep	None	Docket 130040-EI			
GA	Georgia Power	2014-2016	Bundled power service	Revenue Cap Stairstep	Sharing of overearnings only with deadband	Docket 36989; December 2013			
					Sharing of overearnings only without				
HI	Hawaiian Electric Company	2012-open	Bundled power service	Revenue Cap Hybrid	deadband, multiple sharing levels	Dockets 2008-0274 & 2008-0083			
	Hawaiian Electric Light				Sharing of overearnings only without				
HI	Company	2013-open	Bundled power service	Revenue Cap Hybrid	deadband, multiple sharing levels	Dockets 2008-0274 & 2009-0164			
		2012			Sharing of overearnings only without	D. 1 . 2000 0274 0 2000 01 62			
HI	Maui Electric	2013-open	Bundled power service	Revenue Cap Hybrid	deadband, multiple sharing levels	Dockets 2008-0274 & 2009-0163			
IA	MidAmerican Energy	2014-2017	Bundled power service	Revenue Cap Stairstep for 2014-2016, Rate Freeze for 2017	Sharing of overearnings only with deadband up to earnings cap	RPU-2013-0004			
IA	WidAmenean Energy	2014-2017	Buildied power service	Revenue cap stanstep for 2014-2010, Rate Freeze for 2017	Earnings cap implemented if company	Ki 0-2013-0004			
	Northern Indiana Public Service				overearns since last rate case or prior 59	Cause 43894 and 44403 TDSIC 1			
IN	Company	2015-2020	Gas	Rate Freeze with capital and other cost trackers, possible reopening in 2017	months, whichever is less	(August 2013 and January 2015)			
					Sharing of overearnings only with deadband				
LA	Cleco Power	2014-2017	Bundled power service	Rate Freeze with capital and other cost trackers	up to earnings cap	Docket U-32779; June 2014			
МА	Bay State Gas	2015-2018	Gas	Revenue Cap Stairstep for 2015, 2016, Revenue Freeze through October 2018	None	DPU 15-150; October 2015			
					None until company has 1,000 or more				
					customers, then sharing of under/overearnings				
ME	Summit Natural Gas of Maine	2013-2022	Gas	Price Cap Indexing: 75% of change in GDPPI	evenly with deadband	Docket 2012-258; January 2013			
NH	Northern Utilities	May 2014 - April 2017	Gas	Revenue Cap Stairstep for 2014-2015, Rate Freeze in 2016	Sharing of overearnings only with deadband up to earning cap	DG 13-086; April 2014			
INT	Normern Onnues	2017	Power distribution	Revenue Cap Stanstep 101 2014-2015, Rate FICEZE III 2010	up to carning cap	DO 15-060, April 2014			
	Public Service Company of New		(generation regulated	Revenue Cap Stairstep: Rate increases allowed to account for distribution capital additions in					
NH	Hampshire	2010-2015	separately)	2010-2013	Sharing of overearnings only with deadband	DE 09-035			
				Revenue Cap Stairstep: Rate increases allowed to account for distribution capital additions in					
NH	Unitil Energy Systems	2011-2016	Power distribution	2011-2013	Sharing of overearnings only with deadband	DE 10-055			

Table 7 (cont'd) Services **Earnings Sharing Case Reference** Jurisdiction Company Plan Term Covered **Rate Escalation Provisions Provisions Current** (cont'd) **United States** (cont'd) Gas & power Sharing of overearnings with deadband and NY Central Hudson Gas & Electri 2015-2018 distribution nue Cap Stairster multiple sharing bands Cases 14-E-0318, 14-G-0319 Sharing of overearnings only with deadband NY Consolidated Edison 2014-2016 Gas Revenue Cap Stairstep and multiple bands Case 13-G-0031 Sharing of overearnings only with deadband NY Corning Natural Gas 2012-2015 Gas Case 11-G-0280 Revenue Cap Stairstep and multiple bands November 2015 Sharing of overearnings only with deadband NY Orange & Rockland Utilities October 2018 Case 14-G-0494 Gas Revenue Cap Stairstep and multiple sharing bands Sharing of overearnings only without Northern States Power deadband, earnings adjusted for effects of ND 2013-2016 Bundled power service Revenue Cap Stairstep for 2013-2015, Rate Freeze in 2016 weather Case PU-12-813 Minnesota Cases 11-388-EL-SSO, 12-1230-EL-2011-2014, later Company subject to Significantly Excessive Earnings Test conducted annually OH First Energy Ohio extended to 2016 Power distribution Rate Freeze supplemented by capital and other cost trackers SSO Docket RM10-25-000; December US All 2011-2016 Price Cap Index: PPI-Finished Goods + 2.65% Oil pipelines None 2010 VA Appalachian Power 2014-2017 Bundled power service Rate Freeze supplemented by capital and other cost trackers None Senate Bill 1349 VA Virginia Electric Power 2015-2019 Senate Bill 1349 Jundled power service Rate Freeze supplemented by capital and other cost trackers None Sharing of overearnings only without Dockets UE-121697 Gas & bundled power deadband, equal sharing between company Puget Sound Energy 2013-2016 and UG-121705 WA service Revenue Cap Stairstep and customers Canada Altagas Utilities and ATCO Gas 2013-2017 Revenue per Customer Indexing: Input price index - 1.16%, + capital cost trackers Decision 2012-237 Alberta Gas None ATCO Electric, EPCOR, Fortis Price Cap Index: Input Price Index - 1.16%, + capital cost trackers Alberta Alberta 2013-2017 Power distribution None Decision 2012-237 Project #3698719, Decision; 2014-2018 British Columbia FortisBC undled power service Revenue Cap Index: I-Factor - 1.03%, + capital cost tracker for CPCN projects Symmetric without deadband September 2014 Project #3698715, Decision; British Columbia FortisBC Energy 2014-2018 Revenue Cap Index: I-Factor - 1.1%, + capital cost tracker for CPCN projects Symmetric without deadband September 2014 Gas Price Cap Index: Input price index - (0%+stretch); stretch factor reassigned annually, + capital EB-2010-0379 Report of the Board; 2014-2018 November 2013 All unless company opts out Power distribution Ontario cost tracker option available None Sharing of overearnings only without Ontario Horizon Utilities 2015-2019 Power distribution Revenue Cap Stairstep deadband EB-2014-0002; December 2014 2015-2017 EB-2014-0247: March 2015 Ontario Hvdro One Networks Power distribution Revenue Cap Stairstep None EB-2012-0459, Decision with Sharing of overearnings only without Ontario Enbridge Gas Distribution 2014-2018 Gas Revenue Cap Stairstep Reasons; July 2014 deadband EB 2013-0202 Decision; October Sharing of overearnings only with deadband, 2014-2018 Revenue Cap Index: 40% of growth in GDP-IPI multiple sharing ranges Ontario Union Gas Limited Gas 2013 Bill 26 (2012) Electric Power (Energy Accord Continuation) Amendment Prince Edward Island Maritime Electric 2013-2016 Bundled power service Price Cap Stairstep: Bill defines rates for each year. Earnings cap set at allowed ROE, no floor Act Sharing of overearnings only without deadband and multiple sharing bands up to Gazifere 2011-2015 D-2010-112; August 2010 Quebec Gas distribution Price Cap Index earnings cap Yukon Electrical Company, Yukon Territory Limited 2013-2015 Bundled power service Revenue Cap Stairstep None Board Order 2014-06; April 2014

			Services	Table / (cont d)	Earnings Sharing			
Jurisdiction	Company	Plan Term	Covered	Rate Escalation Provisions	Provisions	Case Reference		
Jurisalction	Company	Plan Term	Covered		Provisions	Case Reference		
	Current (cont'd)							
				Great Britain				
			Gas and power			RIIO-T1 Final Proposals, April and		
Great Britain	All	2013-2021	transmission	British-Style Hybrid	Not reviewed	December 2012 RIIO-GD1 Final Proposals,		
Great Britain	All	2013-2021	Gas distribution	British-Style Hybrid	Not reviewed	December 2013		
Great Britain	All	2015-2023	Power distribution	British-Style Hybrid	Variances of cost from budgets shared though Information Quality Incentive Mechanism	h RIIO-ED1 Final Proposals, December 2014		
				Australia/New Zealand				
						Final Decision ActewAGL		
A		2015 2010	Power transmission &		N. contract	distribution determination 2015-16 to		
Australia	ActewAGL	2015-2019	distribution	Australian-Style Hybrid	Not reviewed	2018-19; April 2015 Final Decision Ausgrid distribution		
						determination 2015-16 to 2018-19;		
Australia	Ausgrid	2015-2019	Power distribution	Australian-Style Hybrid	Not reviewed	April 2015 Final Decision Directlink transmission		
						determination 2015-16 to 2019-20;		
Australia	Directlink	2015-2020	Power transmission	Australian-Style Hybrid	Not reviewed	April 2015		
						Final Decision Endeavour Energy distribution determination 2015-16 to		
Australia	Endeavour Energy	2015-2019	Power distribution	Australian-Style Hybrid	Not reviewed	2018-19; April 2015		
						Final Decision Energex determination		
Australia	Energex	2015-2020	Power distribution	Australian-Style Hybrid	Not reviewed	2015-16 to 2019-20		
	<u> </u>					F. ID. I. F. F.		
Australia	Ergon Energy	2015-2020	Power distribution	Australian-Style Hybrid	Not reviewed	Final Decision Ergon Energy determination 2015-16 to 2019-20		
Tustitulu	Elgon Energy	2010 2020	Tower distribution	Northan Olyo Njorid		Final Decision Essential Energy		
	n (1 n	2015 2010	B		N	distribution determination 2015-16 to		
Australia	Essential Energy	2015-2019	Power distribution	Australian-Style Hybrid	Not reviewed	2018-19; April 2015		
						Final Decision Jemena Gas Networks		
Australia	Jemena Gas Networks	2015-2020	Gas distribution	Australian-Style Hybrid	Not reviewed	(NSW) Ltd Access Arrangement 2015–20; June 2015		
Australia	Jenicha Gas Networks	2013-2020	Gas distribution	Australian-Style Tryond	Not reviewed	2013 20, Julie 2013		
		2015 2020	B		N	Final Decision SA Power Networks		
Australia	SA Power Networks	2015-2020	Power distribution	Australian-Style Hybrid	Not reviewed	determination 2015-16 to 2019-20 Final Decision TasNetworks		
						transmission determination 2015-16		
Australia	TasNetworks	2015-2019	Power transmission	Australian-Style Hybrid	Not reviewed	to 2018-19; April 2015		
						Final Decision TransGrid transmission determination 2015-16		
Australia	TransGrid	2015-2018	Power transmission	Australian-Style Hybrid	Not reviewed	to 2017-18; July 2015		
						2014 Networks Price Determination		
Australia	Power & Water	2014-2019	Power transmission & distribution	Australian-Style Hybrid	Not reviewed	Final Determination Part-A Statement of Reasons; April 2014		
- Husti unu	1000102 0000	2011 2017	ustrouton			Access Arrangement Proposal for Qld		
			~ ~ ~ ~ ~			Gas Network, Final Decision; June		
Australia	All Queensland Distributors	2011-2016	Gas distribution	Australian-Style Hybrid	Not reviewed	2011 Queensland Distribution		
						Determination 2011-11 to 2014-15		
Australia	Energex and Ergon Energy	2010-2015	Power distribution	Australian-Style Hybrid	Not reviewed	(Final Decision)		
						Access Arrangement Proposal for the SA Gas Network, Final Decision;		
Australia	Envestra	2011-2016	Gas distribution	Australian-Style Hybrid	Not reviewed	June 2011		
						Access Arrangement Final Decision;		
Australia	All Victorian Distributors	2013-2017	Gas distribution	Australian-Style Hybrid	Not reviewed	March 2013		

				Table / (cont d)		
			Services		Earnings Sharing	
Jurisdiction	Company	Plan Term	Covered	Rate Escalation Provisions	Provisions	Case Reference
				Current (cont'd)		
				Australia/New Zealand (cont'd)		
						CitiPower Pty Distribution
Australia	CitiPower	2011-2015	Power distribution	Australian-Style Hybrid	Not reviewed	Determination 2011-2015; September 2012
						Powercor Australia Ltd Distribution
Australia	Powercor	2011-2015	Power distribution	Australian-Style Hybrid	Not reviewed	Determination 2011-2015; October 2012
Australia	Toweleon	2011 2015	i ower distribution		Horievewed	Jemena Electricity Networks
						(Victoria) Ltd Distribution
Australia	Jemena Electricity Networks	2011-2015	Power distribution	Australian-Style Hybrid	Not reviewed	Determination 2011-2015; September 2012
Australia	Jemena Electricity Networks	2011-2015	I ower distribution	Australian-Style Hydro	Notieviewed	SPI Electricity Pty Ltd Distribution
						Determination 2011-2015; August
Australia	SP AusNet	2011-2015	Power distribution	Australian-Style Hybrid	Not reviewed	2013
						United Energy Distribution Distribution Determination 2011-
Australia	United Energy Distribution	2011-2015	Power distribution	Australian-Style Hybrid	Not reviewed	2015; September 2012
						Project no. 14.07/14118; November
New Zealand	All but Orion Electric	2015-2020	Power distribution	Revenue Cap Index: CPI-0% for most companies	None	2014
New Zealand	All	2013-2017	Gas distribution	New Zealand-Style Hybrid	Not reviewed	Project no. 15.01/13199
New Zealand	All	2013-2017	Gas transmission	New Zealand-Style Hybrid	Not reviewed	Project no. 15.01/13199
				Historic		
				United States		
CA	Bear Valley Electric Service	2009-2012	Power distribution	Revenue Cap Stairstep	None	Decision 09-10-028; October 2009
			Gas & bundled power			
CA	Pacific Gas & Electric	2011-2013	service	Revenue Cap Stairstep	None	Decision 11-05-018; May 2011
						Decision 11 05 010, May 2011
CA	Pacific Gas & Electric	2007-2010	Gas & bundled power service	Revenue Can Stairsten		
CA	Pacific Gas & Electric	2007-2010	service	Revenue Cap Stairstep	None	Decision 07-03-044; March 2007
CA CA	Pacific Gas & Electric Pacific Gas & Electric	2007-2010 2004-2006	service Gas & bundled power service	Revenue Cap Stairstep Revenue Cap Index		
СА	Pacific Gas & Electric	2004-2006	service Gas & bundled power service Gas & bundled power	Revenue Cap Index	None None	Decision 07-03-044; March 2007 Decision 04-05-055; May 2004
			service Gas & bundled power service Gas & bundled power service	· · ·	None	Decision 07-03-044; March 2007
СА	Pacific Gas & Electric Pacific Gas & Electric	2004-2006	service Gas & bundled power service Gas & bundled power service Gas & bundled power	Revenue Cap Index	None None	Decision 07-03-044; March 2007 Decision 04-05-055; May 2004 Decision 92-12-057; December 1992
CA CA	Pacific Gas & Electric	2004-2006 1993-1995	service Gas & bundled power service Gas & bundled power service	Revenue Cap Index Revenue Cap Hybrid	None None None	Decision 07-03-044; March 2007 Decision 04-05-055; May 2004
CA CA	Pacific Gas & Electric Pacific Gas & Electric	2004-2006 1993-1995	service Gas & bundled power service Gas & bundled power service Gas & bundled power service Gas & bundled power service	Revenue Cap Index Revenue Cap Hybrid	None None None	Decision 07-03-044; March 2007 Decision 04-05-055; May 2004 Decision 92-12-057; December 1992 Decision 89-12-057; December 1989 Decision 86-12-092; December 1986
CA CA CA CA	Pacific Gas & Electric Pacific Gas & Electric Pacific Gas & Electric Pacific Gas & Electric	2004-2006 1993-1995 1990-1992 1987-1989	service Gas & bundled power service Gas & bundled power service Gas & bundled power service Gas & bundled power Gas & bundled power	Revenue Cap Index Revenue Cap Hybrid Revenue Cap Hybrid Revenue Cap Hybrid	None None None None None None None	Decision 07-03-044; March 2007 Decision 04-05-055; May 2004 Decision 92-12-057; December 1992 Decision 89-12-057; December 1989 Decision 86-12-092; December 1986 Decision 83-12-068; December
CA CA CA	Pacific Gas & Electric Pacific Gas & Electric Pacific Gas & Electric	2004-2006 1993-1995 1990-1992 1987-1989 1984-1986	service Gas & bundled power service Gas & bundled power service Gas & bundled power service Gas & bundled power service	Revenue Cap Hybrid Revenue Cap Hybrid	None None None None None None	Decision 07-03-044; March 2007 Decision 04-05-055; May 2004 Decision 92-12-057; December 1992 Decision 89-12-057; December 1989 Decision 86-12-092; December 1986 Decision 83-12-068; December 1983 and 85-12-076; December 1985
CA CA CA CA	Pacific Gas & Electric Pacific Gas & Electric Pacific Gas & Electric Pacific Gas & Electric	2004-2006 1993-1995 1990-1992 1987-1989	service Gas & bundled power service Gas & bundled power service Gas & bundled power service Gas & bundled power Gas & bundled power	Revenue Cap Index Revenue Cap Hybrid	None None None None None None None	Decision 07-03-044; March 2007 Decision 04-05-055; May 2004 Decision 92-12-057; December 1992 Decision 89-12-057; December 1989 Decision 86-12-092; December 1986 Decision 83-12-068; December
CA CA CA CA CA CA	Pacific Gas & Electric Pacific Gas & Electric PacifiCorp	2004-2006 1993-1995 1990-1992 1987-1989 1984-1986 2007-2009, extended to 2010	service Gas & bundled power service Gas & bundled power service Gas & bundled power service Gas & bundled power service Bundled power service	Revenue Cap Index Revenue Cap Hybrid Revenue Cap Hybrid Revenue Cap Hybrid Revenue Cap Hybrid Price Cap Index	None None None None None None None None None	Decision 07-03-044; March 2007 Decision 04-05-055; May 2004 Decision 92-12-057; December 1992 Decision 89-12-057; December 1989 Decision 86-12-092; December 1986 Decisions 83-12-068; December 1983 and 85-12-076; December 1985 Decisions 06-12-011; December 2006 and 09-04-017; April 2009
CA CA CA CA CA	Pacific Gas & Electric Pacific Gas & Electric Pacific Gas & Electric Pacific Gas & Electric Pacific Gas & Electric	2004-2006 1993-1995 1990-1992 1987-1989 1984-1986 2007-2009, extended	service Gas & bundled power service Gas & bundled power service Gas & bundled power service Gas & bundled power service Gas & bundled power service	Revenue Cap Index Revenue Cap Hybrid Revenue Cap Hybrid Revenue Cap Hybrid Revenue Cap Hybrid Price Cap Index	None None None None None None None	Decision 07-03-044; March 2007 Decision 04-05-055; May 2004 Decision 92-12-057; December 1992 Decision 89-12-057; December 1989 Decision 86-12-092; December 1986 Decisions 83-12-068; December 1983 and 85-12-076; December 1985 Decisions 06-12-011; December 2006 and 09-04-017; April 2009 Decision 93-12-106; December 1993
CA CA CA CA CA CA CA CA	Pacific Gas & Electric Pacific Gas & Electric PacifiCorp PacifiCorp	2004-2006 1993-1995 1990-1992 1987-1989 1984-1986 2007-2009, extended to 2010 1994-1996	service Gas & bundled power service Gas & bundled power service Gas & bundled power service Gas & bundled power service Bundled power service Bundled power service	Revenue Cap Index Revenue Cap Hybrid Revenue Cap Hybrid Revenue Cap Hybrid Revenue Cap Hybrid Price Cap Index Price Cap Index	None	Decision 07-03-044; March 2007 Decision 04-05-055; May 2004 Decision 92-12-057; December 1992 Decision 89-12-057; December 1989 Decision 80-12-092; December 1986 Decisions 83-12-068; December 1985 Decisions 06-12-011; December 1985 Decisions 06-12-011; December 2006 and 09-04-017; April 2009 Decisions 93-12-106; December 1993 Decisions 94-07-150; July 1984 and
CA CA CA CA CA CA	Pacific Gas & Electric Pacific Gas & Electric PacifiCorp	2004-2006 1993-1995 1990-1992 1987-1989 1984-1986 2007-2009, extended to 2010	service Gas & bundled power service Gas & bundled power service Gas & bundled power service Gas & bundled power service Bundled power service	Revenue Cap Index Revenue Cap Hybrid Revenue Cap Hybrid Revenue Cap Hybrid Revenue Cap Hybrid Price Cap Index Price Cap Index	None None None None None None None None None	Decision 07-03-044; March 2007 Decision 04-05-055; May 2004 Decision 92-12-057; December 1992 Decision 89-12-057; December 1989 Decision 86-12-092; December 1986 Decisions 83-12-068; December 1983 and 85-12-076; December 1985 Decisions 06-12-011; December 2006 and 09-04-017; April 2009 Decision 93-12-106; December 1993
CA CA CA CA CA CA CA CA	Pacific Gas & Electric Pacific Gas & Electric PacifiCorp PacifiCorp	2004-2006 1993-1995 1990-1992 1987-1989 1984-1986 2007-2009, extended to 2010 1994-1996	service Gas & bundled power service Gas & bundled power service Gas & bundled power service Gas & bundled power service Gas & bundled power service Bundled power service Bundled power service	Revenue Cap Index Revenue Cap Hybrid Revenue Cap Hybrid Revenue Cap Hybrid Revenue Cap Hybrid Price Cap Index Price Cap Index	None	Decision 07-03-044; March 2007 Decision 04-05-055; May 2004 Decision 92-12-057; December 1992 Decision 89-12-057; December 1989 Decision 80-12-092; December 1986 Decisions 83-12-068; December 1985 Decisions 06-12-011; December 1985 Decisions 06-12-011; December 2006 and 09-04-017; April 2009 Decisions 93-12-106; December 1993 Decisions 94-07-150; July 1984 and
CA CA CA CA CA CA CA CA CA CA	Pacific Gas & Electric Pacific Gas & Electric Pacific Gas & Electric Pacific Gas & Electric Pacific Gas & Electric PacifiCorp PacifiCorp PacifiCorp San Diego Gas & Electric	2004-2006 1993-1995 1990-1992 1987-1989 1984-1986 2007-2009, extended to 2010 1994-1996 1984-1987 2008-2011	service Gas & bundled power service Gas & bundled power service Gas & bundled power service Gas & bundled power service Bundled power service Bundled power service Bundled power service Gas & bundled power service Gas & bundled power	Revenue Cap Index Revenue Cap Hybrid Revenue Cap Hybrid Revenue Cap Hybrid Revenue Cap Hybrid Price Cap Index Price Cap Index Revenue Cap Hybrid Revenue Cap Stairstep	None None	Decision 07-03-044; March 2007 Decision 04-05-055; May 2004 Decision 92-12-057; December 1992 Decision 89-12-057; December 1989 Decision 88-12-092; December 1986 Decision 83-12-068; December 1985 Decision 06-12-011; December 1985 Decision 83-12-068; December 1985 Decision 80-12-011; December 1985 Decision 84-07-150; July 1984 and 85-12-076; December 1985 Decision 08-07-046; July 2008
CA CA CA CA CA CA CA CA CA	Pacific Gas & Electric PacifiCorp PacifiCorp PacifiCorp PacifiCorp	2004-2006 1993-1995 1990-1992 1987-1989 1984-1986 2007-2009, extended to 2010 1994-1996 1984-1987	service Gas & bundled power service Gas & bundled power service Gas & bundled power service Gas & bundled power service Bundled power service Bundled power service Bundled power service Gas & bundled power service	Revenue Cap Index Revenue Cap Hybrid Revenue Cap Hybrid Revenue Cap Hybrid Revenue Cap Hybrid Price Cap Index Price Cap Index Revenue Cap Hybrid	None	Decision 07-03-044; March 2007 Decision 04-05-055; May 2004 Decision 92-12-057; December 1992 Decision 89-12-057; December 1989 Decision 86-12-092; December 1986 Decision 86-12-076; December 1985 Decisions 06-12-011; December 2006 and 09-04-017; April 2009 Decision 93-12-106; December 1993 Decisions 84-07-150; July 1984 and 85-12-076; December 1985

			Services		Earnings Sharing		
Jurisdiction	Company	Plan Term	Covered	Rate Escalation Provisions	Provisions	Case Reference	
				Historic (cont'd)			
United States (cont'd)							
					Sharing of overearnings only with deadband		
СА	San Diego Gas & Electric	1994-1999	Gas & bundled power service	Revenue Cap Hybrid	and multiple sharing bands up to an earnings cap	Decision 94-08-023; August 1984	
			Gas & bundled power				
CA	San Diego Gas & Electric	1989-1993	service Gas & bundled power	Revenue Cap Hybrid	None	Decision 88-12-085; December 1988	
CA	San Diego Gas & Electric	1986-1988	service	Revenue Cap Hybrid	None	Decision 85-12-108; December 1985	
СА	Sierra Pacific Power	2009-2011, extended to 2012	Bundled power service	Price Cap Index	None	Decision 09-10-041; October 2009	
CA	Sierra Pacific Power	1990-1992	Bundled power service	Revenue Cap Hybrid	None	Decision 90-07-060; July 1990	
CA	Southern California Edison	2012-2014	Bundled power service	Revenue Cap Hybrid	None	Decision 12-11-051; November 2012	
СА	Southern California Edison	2009-2011	Bundled power service	Revenue Cap Stairstep	None	Decision 09-03-025; March 2009	
CA	Southern California Edison	2006-2008	Bundled power service	Revenue Cap Hybrid	None	Decision 06-05-016; May 2006	
CA	Southern California Edison	2004-2006	Bundled power service	Revenue Cap Hybrid	None	Decision 04-07-022; July 2004	
СА	Southern California Edison	1997-2001	Power distribution	Price Cap Index	Sharing of over/underearnings outside deadband with multiple sharing bands	Decision 96-09-092; September 1996	
CA	Southern California Edison	1986-1991	Bundled power service	Revenue Cap Hybrid	None	Decision 85-12-076; December 1985	
CA	Southern California Gas	2008-2011	Gas	Revenue Cap Stairstep	None	Decision 08-07-046; July 2008	
СА	Southern California Gas	2005-2007	Gas	Revenue Cap Index	Sharing of overearnings only with deadband and multiple sharing bands	Decision 05-03-025; March 2005	
CA	Southern California Gas	1998-2003	Gas	Revenue Cap Index	Sharing of over/underearnings outside deadband with multiple sharing bands	Decision 97-07-054; July 1997	
CA	Southern California Gas	1998-2003	Gas	Revenue Cap Index Revenue Cap Hybrid	None	Decision 97-07-054; July 1997 Decision 90-01-016; January 1990	
			Gas	Revenue Cup Hyonu	Hone	1984, 85-12-076; December 1985,	
CA	Southern California Gas	1985-1989	Gas	Revenue Cap Hybrid	None	and 87-05-027; May 1987	
CA	Southwest Gas	2009-2013	Gas	Revenue Cap Stairstep	None	Decision 08-11-048; November 2008	
	Public Service Company of				Sharing of overearnings only without deadband, multiple sharing bands up to		
СО	Colorado	2012-2014	Bundled power service	Revenue Cap Stairstep	earnings cap	Decision C12-0494	
СТ	Connecticut Light & Power	2004-2007	Power distribution	Revenue Cap Stairstep	Even sharing of overearning without deadband	Docket 03-07-02	
	<u> </u>						
CT	United Illuminating	2006-2008	Power distribution	Revenue Cap Stairstep Rate Freeze with exception for new generating facilities after they are in service and multiple	Even sharing of overearning without deadband	Docket 05-06-04	
FL	Florida Power & Light	2006-2009	Bundled power service	capital and other cost trackers	None	Docket 050045-EI	
FL	Progress Energy Florida	2006-2009	Bundled power service	Rate Freeze with 1 step to reflect generation brought in-service and multiple capital and other cost trackers	None	Docket 050078-EI	
I'L	r togress Energy Fiorida	2000-2009					
GA	Georgia Power	2011-2013	Bundled power service	Revenue Cap Stairstep: Rate increases permitted for DSM and major generation plant additions	Sharing of overearnings only with deadband Sharing of overearnings only in multiple	Docket 31958	
		2001-2005, extended			sharing bands, deadband not applicable due to	Dockets RPU-01-3 and RPU-2012-	
IA	MidAmerican Energy	to 2013	Bundled power service	Rate Freeze with nuclear capital and other cost trackers	no allowed ROE Sharing of overearnings only with deadband	0001	
LA	Cleco Power	2009-2014	Bundled power service	Rate Freeze with capital cost tracker	up to earnings cap	Order U-30689	
МА	Bay State Gas	2006-2015, terminated in 2009	Gas distribution	Price Cap Index	75-25 shareholders-ratepayers sharing around deadband	Docket DTE 05-27	
		February 2002-					
MA	Berkshire Gas	January 2012	Gas distribution	No adjustment until September 2004, then Price Cap Index	None	Docket D.T.E. 01-56	

			Services	ruble / (cont d)	Earnings Sharing	
Jurisdiction	Company	Plan Term	Covered	Attrition Relief Mechanism	Provisions	Case Reference
0 4115 41001011	company		0010100	Historic (cont'd)		
				United States (cont'd)		
			~		75-25 shareholders-ratepayers sharing around	Docket D.P.U. 96-50-C (Phase I);
MA	Boston Gas (I)	1997-2001 2004-2013.	Gas distribution	Price Cap Index	deadband 75-25 shareholders-ratepayers sharing around	May 1997
МА	Boston Gas (II)	Terminated in 2010	Gas distribution	Price Cap Index	deadband	Docket DTE 03-40
		November 1, 2004 -			Even sharing of earnings above/below	
MA	Blackstone Gas	October 31, 2009	Gas distribution	Price Cap Index	deadband	Docket D.T.E. 04-79
МА	Nstar	2006-2012	Power distribution	Price Cap Index	Deadband with 50-50 sharing of over and underearnings	Docket D.T.E. 05-85
	Totta		r ower distribution	neo cup maon	Even sharing of overearnings only. No	Booker Billin 05 05
	D	2000-2009, extended			allowed ROE established for company and no	D 1 070705 1 1000
ME	Bangor Gas	to 2012	Gas distribution	Price Cap Index	determination of a deadband.	Docket 970795; June 1998
ME	Bangor Hydro Electric (I)	1998-2000	Power distribution	Price Cap Index	50/50 sharing around deadband Even sharing of earnings above/below	Docket 97-116; March 1998 Docket 92-345 Phase II; January
ME	Central Maine Power (I)	1995-1999	Bundled power service	Price Cap Index	deadband	1995
ME	Central Maine Power (II)	2001-2007	Power distribution	Price Cap Index	50-50 sharing below deadband	Docket 99-666; November 2000
ME	Central Maine Power (III)	2009-2013	Power distribution	Price Cap Index: GDPPI - 1%, separate capital cost tracker for AMI	50-50 sharing above 11% ROE	Docket 2007-215
ME	Maine Natural Gas	2010-2012	Gas	Revenue Cap Stairstep with steps conditioned on company earnings	None	Docket 2009-67
		October 1, 1991 -			Sharing of overearnings only without	Case 90-G-0981, Opinion 91-21;
NY	Brooklyn Union Gas	September 30, 1994	Gas	Revenue Cap Stairstep	deadband	October 1991
NY	Brooklyn Union Gas	October 1, 1994 - September 30, 1997	Gas	Revenue Cap Stairstep	Sharing of overearnings only without deadband and multiple sharing bands	Case 93-G-0941, Opinion 94-22; October 1994
18.1	BIOOKIYII UIIOII Gas	September 50, 1997	Gas & power	Revenue Cap Statistep	Sharing of overearnings with deadband and	00000011994
NY	Central Hudson Gas & Electric	2010-2013	distribution	Revenue Cap Stairstep	multiple sharing bands	Case 09-E-0588
		X 1 1 2005 X	C A			G 05 F 0004 0 G 05 G 0005
NY	Central Hudson Gas & Electric	July 1, 2006 - June 30, 2009	Gas & power distribution	Price Cap Stairstep	Sharing of overearnings only with deadband, multiple sharing bands up to earnings cap	Case 05-E-0934 & Case 05-G-0935; July 2006
	Central Hadson Gas & Electric	50, 2005	distribution	The cap ballstep	muniple sharing bands up to carinings cap	541 <u>9</u> 2000
					Sharing of overearnings only with deadband	
NY	Consolidated Edison	2010-2013	Gas	Revenue Cap Stairstep	that varies annually and multiple sharing bands Even sharing of overearnings only above	Case 09-G-0795
					deadband, sharing threshold adjustable	
					depending on work with DSM program	
NY	Consolidated Edison	2007-2010 October 1, 1994 -	Gas	Revenue Cap Stairstep	administrator for first year only Even sharing of overeearnings only above	Case 06-G-1332 Case 93-G-0996, Opinion 94-2;
NY	Consolidated Edison	September 30, 1997	Gas	Revenue Cap Stairstep	deadband	October 1994
					Sharing of overearnings only above deadband	
NY	Consolidated Edison	2010-2013	Power distribution	Revenue Cap Stairstep	with multiple sharing bands	Case 09-E-0428
NY	Consolidated Edison	April 1, 2005 - March 31, 2008	Power distribution	Price Cap Stairstep	Sharing of overearnings only with multiple bands. No allowed ROE approved.	Case 04-E-0572; March 2005
	Consolidated Edison	51, 2000	Tower distribution	The cap bansep	Even sharing of overearnings with varying	Cuse 04 E 0572, Materi 2005
NY	Consolidated Edison	1992-1995	Bundled power service	Revenue Cap Stairstep	allowed ROE and no deadband	Opinion 92-8
	Keyspan Energy Delivery - Long				Sharing of overearnings only above deadband with multiple sharing bands, sharing threshold	
NY	Island	2010-2012	Gas	Revenue Cap Stairstep	adjustable for good DSM performance	Case 06-G-1185
					Sharing of our particular share don't	
	Keyspan Energy Delivery - New				Sharing of overearnings only above deadband with multiple sharing bands, sharing threshold	
NY	York	2010-2012	Gas	Revenue Cap Stairstep	adjustable for good DSM performance	Case 06-G-1186
	* ** ***** ~	December 1, 1993-	6		Even sharing of overearnings only with	Case 93-G-002, Opinion 93-23;
NY	Long Island Lighting Company	November 30, 1996	Gas	Revenue Cap Stairstep	deadband Even sharing of overearnings only without	December 1993

Jurisdiction	Company	Plan Term	Services Covered	Table 7 (cont'd)Attrition Relief Mechanism	Earnings Sharing Provisions	Case Reference		
	1 2			Historic (cont'd)				
				United States (cont'd)				
NY	New York State Electric & Gas	2010-2013 August 1, 1995 - July	Gas & power distribution	Revenue Cap Stairstep	Sharing of overearnings only with deadband that varies annually and multiple sharing bands	Case 09-E-0715		
NY	New York State Electric & Gas	31, 1998, Years 2 and 3 not implemented due to restructuring	Bundled power service	Revenue Cap Stairstep	Sharing of overearnings only with annually varying deadbands	Case 94-M-0349, Opinion 95-27; September 1995		
NY	New York State Electric & Gas	December 1, 1993 - August 31, 1995	Gas & bundled power service	Revenue Cap Stairstep	Even sharing of overearnings only above deadband	Case 92-G-1086, Opinion 93-22; November 1993		
NY	Niagara Mohawk	July 1, 1990 - December 31, 1992	Gas & bundled power service	Revenue Cap Stairstep	Sharing of overearnings only without deadband up to earnings cap	Case 29327, Opinion 89-37; June 1991		
NY	Orange & Rockland Utilities	2009-2012	Gas	Revenue Cap Stairstep	Sharing of overearnings only beyond deadband and multiple sharing bands	Case 08-G-1398		
NY	Orange & Rockland Utilities	November 1, 2006 - October 31, 2009	Gas	Price Cap Stairstep	Sharing of overearnings only beyond deadband and multiple sharing bands	Case 05-G-1494; October 2006		
NY	Orange & Rockland Utilities	November 1, 2003- October 31, 2006	Gas	Price Cap Stairstep	Even sharing of overearnings only without deadband	Case 02-G-1553; October 2003		
NY	Orange & Rockland Utilities	2012-2015	Power distribution	Revenue Cap Stairstep	Sharing of overearnings only with deadband and multiple bands	Case 11-E-0408		
NY	Orange & Rockland Utilities	2008-2011	Power distribution	Revenue Cap Stairstep	Sharing of overearnings only above deadband with multiple sharing bands	Case 07-E-0949		
NY	Orange & Rockland Utilities	1991-1993	Bundled power service	Revenue Cap Stairstep	Even sharing of overearnings above deadband	Case 89-E-175		
NY	Rochester Gas & Electric	2010-2013	Gas & power distribution	Revenue Cap Stairstep	Sharing of overearnings only with deadband that varies annually and multiple sharing bands	Case 09-E-0717		
NY	Rochester Gas & Electric	July 1, 1993 - June 30, 1996	Gas & bundled power service	Revenue Cap Stairstep	Earnings cap only	Case 92-G-0741, Opinion No. 93-19; August 1993		
ОН	AEP-Ohio	2012-2015	Power distribution	Rate Freeze supplemented by capital and other cost trackers	Company subject to Significantly Excessive Earnings Test conducted annually	Case No. 11-346-EL-SSO; August 2012		
ОН	Cincinnati Gas & Electric	2009-2011	Power generation	Price Cap Stairstep	Company subject to Significantly Excessive Earnings Test conducted annually	Case 08-920-EL-SSO		
OR	PacifiCorp	1998-2001	Power distribution	Revenue Cap Index	Sharing of over/underearning outside deadband in multiple sharing bands	Order No. 98-191		
US	All	2006-2011	Oil pipelines	Price Cap Index: PPI-Finished Goods + 1.3%	None	RM05-22-000		
US	All	2001-2006	Oil pipelines	Price Cap Index: PPI-Finished Goods + 0%	None	RM00-11-000		
US	All	1995-2001	Oil pipelines	Price Cap Index: PPI-Finished Goods - 1%	None	RM93-11-000		
VT	Green Mountain Power	2007-2010	Bundled power service	Revenue Cap Stairstep	Earnings cap for overearnings above deadband; Multiple sharing bands for earnings apply if actual ROE below deadband (earnings floor of the deadband also applies)	Docket No. 7176		
WA	Puget Sound Energy	1997-2001	Bundled power service	Price Cap Stairstep	None	Docket UE-960195		
				Australia/New Zealand				
Australia	Jemena Gas Networks	2010-2015	Gas distribution	Australia-Style Hybrid	Not reviewed	Access Arrangement Proposal for NSW Gas Networks, Final Decision; June 2010		
Australia	All New South Wales distributors	2009-2014	Power distribution	Australia-Style Hybrid	Not reviewed	New South Wales Distribution Determination 2009-10 to 2013-14 Final Decision		
Australia	ElectraNet	2008-2013	Power transmission	Australia-Style Hybrid	Not reviewed	Final Decision; April 2008		
Australia	ElectraNet	2003-2008	Power transmission	Australia-Style Hybrid	Not reviewed	File No: C2001/1094		
Australia	Powerlink	2007-2012	Power transmission	Australia-Style Hybrid	Not reviewed	Final Decision; June 2007		

				Table 7 (cont'd)		
Jurisdiction	Company	Plan Term	Services Covered	Rate Escalation Provisions	Earnings Sharing Provisions	Case Reference
				Historic (cont'd)		
				Australia/New Zealand (cont'd)		
Australia	Powerlink	2002-2007	Power transmission	Australia-Style Hybrid	Not reviewed	File No: 2000/659
Australia	Snowy Mountains	1999-2004 (terminated in 2002 due to merger with Transgrid)	Electric transmission	Australia-Style Hybrid	Not reviewed	File No: C1999/62
Australia	SPI PowerNet	2003-2008	Power transmission	Australia-Style Hybrid	Not reviewed	File No: C2001/1093
Australia	Transend	2009-2014	Power transmission	Australia-Style Hybrid	Not reviewed	Transend Transmission Determination 2009/10-2013/14 (Final Decision)
Australia	Transend	2004-2009	Power transmission	Australia-Style Hybrid	Not reviewed	File No: C2001/1100
Australia	Transgrid	2009-2014	Electric transmission	Australia-Style Hybrid	Not reviewed	Transgrid Transmission Determination 2009/10-2013/14 (Final Decision)
Australia	Transgrid	2004-2009	Power transmission	Australia-Style Hybrid	Not reviewed	File No. M2003/287
Australia	Transgrid	1999-2004	Power transmission	Australia-Style Hybrid	Not reviewed	File No: CG98/118
Australia- New South Wales	Country Energy Gas	2006-2010	Gas distribution	Australia-Style Hybrid	Not reviewed	Revised Access Arrangement for Country Energy Gas Network, Final Decision; November 2005
Australia- New South Wales	AGL Gas Networks	1999-2004	Gas transmission & distribution	Australia-Style Hybrid	Not reviewed	Access Arrangement for AGL Gas Networks Limited, Final Decision; July 2000
Australia - New South Wales	All	2004-2009	Power distribution	Australia-Style Hybrid	Not reviewed	File No: S2004/138
Australia - New South Wales	All	1999-2004	Power distribution	Australia-Style Hybrid	Not reviewed	NEC Determination 99-1
Australia - Northern Territory	Power & Water	2000-2003	Power transmission & distribution	Australia-Style Hybrid	Not reviewed	Revenue Determinations document; June 2000
Australia - Northern Territory	Power & Water	2009-2014	Power transmission & distribution	Price Cap Index: CPI + 0.85%	Not reviewed	Final Determination Networks Pricing: 2009 Regulatory Reset; March 2009
Australia - Northern Territory	Power & Water	2004-2009	Power transmission & distribution	Price Cap Index: CPI - 2%	Not reviewed	Final Determination Networks Pricing: 2004 Regulatory Reset; February 2004
Australia -Victoria	All	2008-2012	Gas distribution	Australia-Style Hybrid	Not reviewed	Gas Access Arragement Review 2008- 2012, Final Decision; March 2008
Australia -Victoria	All	2003-2007	Gas distribution	Australia-Style Hybrid	Not reviewed	Review of Gas Access Arrangements, Final Decision; October 2002
						Electricity Distribution Price Review
Australia - Victoria	All	2006-2010	Power distribution	Australia-Style Hybrid	Not reviewed	2006-2010 (Final Decision Volume 1)
Australia -Victoria	All	2001-2005	Power distribution	Australia-Style Hybrid	Not reviewed	Electricity Distribution Price Determination 2001-2005 (Final Decision Volume 1)
						Commerce Commission Initial Reset of the Default Price-Quality Path for Electricity Distribution Businesses
New Zealand	All	2010-2015	Power distribution	Revenue Cap Index: CPI - 0%	None	Decisions Paper; November 2009

				Table / (cont d)			
			Services		Earnings Sharing		
Jurisdiction Company Plan		Plan Term	Covered	Rate Escalation Provisions	Provisions	Case Reference	
				Historic (cont'd)			
				Australia/New Zealand (cont'd)			
New Zealand	All	2004-2009	Power distribution	Revenue Cap Index: CPI - 0.86% (Average across firms)	None	Commerce Commission Regulation of Electricity Lines Businesses, Targeted Control Regime, Threshold Decisions; December 2003	
		•		Canada			
Alberta	Enmax	2007-2013	Power distribution	Price Cap Index: Input Price Index -1.2%	50-50 for excess earnings above deadband	Decision 2009-035	
Alberta	Northwestern Utilities	1999-2002, reopened for 2001-2002	Gas distribution	Revenue Cap Stairstep; at reopener replaced with rate freeze	Sharing of earnings above/below deadband with multiple bands for overearnings; at reopener simplified to 50/50 sharing of overearnings with deadband	Decision U98060; March 1998 and Decision 2000-85; December 2000	
Alberta	EPCOR	2002-2005, Terminated 12/31/2003	Power distribution	Price Cap Index	None	City of Edmonton Distribution Tariff Bylaw 12367; August 2000	
Northwest Territory	Northland Utilities	2011-2013	Bundled power service	Revenue Cap Stairstep	None	Decision 17-2011; November 2011	
Northwest Territory	Northland Utilities (Yellowknife)	2011-2013	Bundled power service	Revenue Cap Stairstep	None	Decision 13-2011; August 2011	
Ontario	All Ontario Distributors	2010-2013	Power distribution	Price Cap Index: GDP IPI for Final Domestic Demand - (0.92% to 1.32% depending on company's annual performance in benchmarking studies)	None	EB-2007-0673; July 2008, September 2008, and January 2009	
Ontario	All Ontario Distributors	2006-2009	Power distribution	Price Cap Index	None	EB-2006-0089; December 2006	
Ontario	All Ontario Distributors	2000-2003	Power distribution	Price Cap Index	50-50 sharing of excess earnings without deadband	RP-1999-0034; January 2000	
Ontario	Enbridge Gas Distribution	2008-2012	Gas distribution	Revenue Cap Index: GDP-IPI * 53%	50-50 sharing of excess earnings above deadband	EB-2007-0615; February 2008	
Ontario	Union Gas	2008-2012	Gas distribution	Revenue Cap Index: GDP-IPI -1.82%	Sharing of overearnings only with deadband and multiple sharing bands	EB-2007-0606; January 2008	
Ontario	Union Gas	2008-2012	Gas distribution	Price Cap Index	50-50 sharing around deadband	RP-1999-0017; July 2001	
Ommile	Childh Olas	2001 2005	Ous distribution	Great Britain	50 50 Sharing aband doudound	in 1999 0017, bul 2001	
						Review- Final Proposals; Published	
Great Britain	All	2008-2013	Gas distribution	British-Style Hybrid	Not reviewed	December 2007	
Great Britain	All	2002-2007, extended to 2008	Gas distribution	British-Style Hybrid	Not reviewed	"RPI - X @ 20." Ofgem Publication	
						Transmission Price Control Review;	
Great Britain	All	2007-2012	Gas transmission	British-Style Hybrid	Not reviewed	Published December 2006	
Great Britain	All	2002-2007	Gas transmission Gas transmission &	British-Style Hybrid	Not reviewed	"RPI - X @ 20." Ofgem Publication Energy Law Journal Volume 23 No. 2	
Great Britain	All	1998-2002	distribution	British-Style Hybrid	Not reviewed	p.444	
Great Britain	All	1994-1997	Gas transmission & distribution	British-Style Hybrid	Not reviewed	Energy Law Journal Volume 23 No. 2 p.444	
			Gas transmission &			Energy Law Journal Volume 23 No. 2	
Great Britain	All	1992-1994	distribution	British-Style Hybrid	Not reviewed	p.444	
England & Wales	All	1995-2000	Power distribution	British-Style Hybrid	Not reviewed	"RPI - X @ 20." Ofgem Publication	
Great Britain	All	2010-2015	Power distribution	British-Style Hybrid	Variances of cost from budgets shared though Information Quality Incentive Mechanism	Ofgem Distribution Price Control Review 5	
Great Britain	All	2005-2010	Power distribution	British-Style Hybrid	Not reviewed	Ofgem Distribution Price Control Review 4	

				Table 7 (cont'd)		
Jurisdiction	Company	Plan Term	Services Covered	Rate Escalation Provisions	Earnings Sharing Provisions	Case Reference
				Historic (cont'd)		
				Great Britain (cont'd)		
Great Britain	All	2000-2005	Power distribution	British-Style Hybrid	Not reviewed	"RPI - X @ 20." Ofgem Publication
		2001-2006, extended				OECD Reviews of Regulatory
England & Wales	National Grid	to 2007	Power transmission	British-Style Hybrid	Not reviewed	Reform
England & Wales	National Grid	1997-2001	Power transmission	British-Style Hybrid	Not reviewed	"RPI - X @ 20." Ofgem Publication
England & Wales	National Grid	1993-1997	Power transmission	British-Style Hybrid	Not reviewed	Energy Law Journal Volume 23 No. 2 p.452
Great Britain	All	2007-2012	Power transmission	British-Style Hybrid	Not reviewed	Transmission Price Control Review; Published December 2006
		2000-2005, extended				
Scotland	All	to 2007	Power transmission	British-Style Hybrid	Not reviewed	"RPI - X @ 20." Ofgem Publication
Scotland	All	1995-2000	Power transmission	British-Style Hybrid	Not reviewed	1995 Report by Monopolies and Mergers Commission

¹ Rate freezes without extensive supplemental funding from capital cost trackers are excluded from this table.

VI. Formula Rates

A cost of service formula rate plan ("FRP") is essentially a wide-scope cost tracker designed to help a utility's revenue track its cost of service. Earnings surpluses or deficits occur when revenue and cost are not balanced. FRPs have earnings true up mechanisms that adjust rates so that earnings variances are reduced or eliminated. Regulatory cost is contained by limiting review of costs and revenues.

The earnings true up mechanism plays a key role in an FRP. Some mechanisms compare the earned ROE to the target ROE and then calculate the rate adjustment needed to reduce the ROE variance. Others adjust rates for the difference between revenue and a pro forma cost of service calculated using a rate of return target. Both approaches can keep the utility whole for the time value of money.

Earning true up mechanisms often include a deadband in which variances don't trigger a rate adjustment. Once the variance exceeds the deadband, however, earnings true up mechanisms in FRPs commonly move the ROE all, or almost all, of the way to its regulated target without sharing earnings variances. This is an important distinction between the earnings true up mechanism of an FRP and the earnings *sharing* mechanisms found in some multiyear rate plans.

Formula rates do not always address major plant additions. In state-regulated FRPs for retail electric services, for instance, major investment programs are generally approved separately through such means as hearings on certificates of public convenience and necessity. The resultant cost is often recovered through a separate tracker.

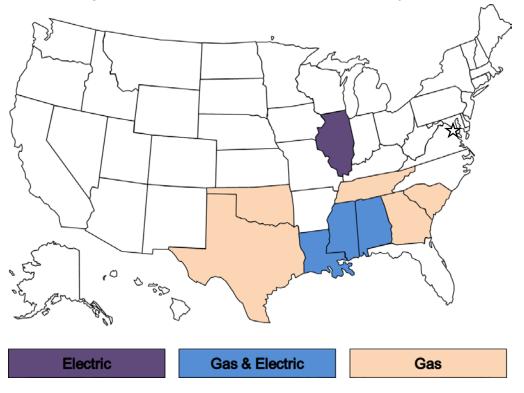
Mechanisms are sometimes added to an FRP to encourage better operating performance. For example, escalation of revenue that compensates the utility for its O&M expenses may be limited by a formula tied to an inflation index. FRPs in several states that include Illinois and Mississippi contain a number of targeted performance incentive mechanisms.

Formula rates have been used at the FERC and its predecessor agency to regulate interstate services of energy utilities for decades. Use of FRPs by the FERC was encouraged in the 1970s and early 1980s by rapid price inflation. Despite slower inflation in recent years, the FERC has made extensive use of formula rates for power transmission in an effort to simplify its daunting regulatory task and facilitate urgently needed investments.

Precedents for retail formula rates, which recover costs of generation and/or distribution, are listed in Table 8 and Figure 9.¹⁰ It can be seen that FRPs for retail utility services are most common in the Southeast and South Central states. Alabama was an early innovator, approving "Rate Stabilization and Equalization"

¹⁰ Some plans labeled as formula rates do not qualify for inclusion in this table and figure based on our definition. These usually take the form of ESMs that may or may not protect the utility from underearning.

plans for Alabama Power and Alabama Gas in the early 1980s.¹¹ Formula rates are now used to regulate electric utilities in Illinois, some gas and electric utilities in Louisiana and Mississippi, and some gas utilities in Georgia, Oklahoma, South Carolina, Tennessee, and Texas. Most of the recent approvals of formula rates have been for gas distribution, as this is one means to avoid the frequent rate cases that declining average use can trigger. However, formula rates were recently authorized legislatively for electric utilities in Arkansas.





¹¹ For further discussion of the Alabama FRP experience see Edison Electric Institute, *Case Study of Alabama Rate Stabilization and Equalization Mechanism*, June 2011.

Table 8

Retail Formula Rate Plan Precedents¹

Current Rate Stabilization &		
AL Alabama Power Service RSE)	2012 onen	Dockets 18117 and 18416
AL Alabama Power Service RSE) Rate Stabilization &	2013-open	(August 2013)
Equalization Equalization Factor (Rate		Dockets 18406 and 18328
AL Alabama Gas Gas RSE)	2014-2018	(December 2013)
Rate Stabilization &		
Equalization Factor (Rate		
AL Mobile Gas Service Gas RSE)	2013-2017	Docket 28101 (August 2013)
GA Atmos Energy Gas Georgia Rate Adjustment Mechanism (GRAM)	2012-open	Docket 34764 (December 2011)
Rate Modernization		Case 12-0001 (September
IL Ameren Illinois Distribution (Rate MAP-P)	2011-2017, extended through 2019	2012) and Public Act 098- 1175
Rate Delivery Service Power Pricing and Performance	2011 2017	Corr 11 0721 (Mar 2012)
IL Power Pricing and Performance I IL Commonwealth Edison Distribution (Rate DSPP) I	2011-2017, extended through 2019	Case 11-0721 (May 2012) and Public Act 098-1175
	unougn 2015	
LA Atmos Energy - Louisiana Gas Service Gas Rate Stabilization Clause	2014-open	Docket U-32987 (June 2014)
LA Atmos Energy - Trans Louisiana Gas Gas Rate Stabilization Clause	2014-open	Docket U-32987 (June 2014)
LA Southwestern Electric Power Electric Formula Rate Plan	2013-2016	Docket U-32220 (July 2014)
	2010 2010	Docket 05-UN-0503 (April
MS Atmos Energy Corp Gas Stable/Rate Rider	2011-present	2011)
Rate Regulation	2014	Docket 2014-UN-060 (May
MS Centerpoint Energy Gas Adjustment Rider Bundled Power Formula Rate Plan 6	2014-open	2014) Docket 2014-UN-132
MS Entergy Mississippi Service (FRP-6)	2015-open	(December 2014)
Bundled Power Performance Evaluation		Docket 2003-UN-0898
MS Mississippi Power Service Plan - 5 (PEP-5) Performance Based	2010-open	(November 2009) Cause PUD 201000030 (July
OK Centerpoint Energy Arkla Gas Rate of Change Plan	2010-open	2010)
Performance Based	•	Cause PUD 201200236 (July
OK Arkansas Oklahoma Gas Gas Rate of Change Plan	2013-open	2013) Docket 2005-125-G
SC Piedmont Gas Gas NA	2005-open	(September 2005)
		Docket 2005-113-G
SC South Carolina Electric and Gas Gas NA	2005-open	(October 2005)
TN Atmos Energy Gas Mechanism	2015-open	Docket 14-00146 (May 2015)
Cost of Service	2013-open	Gas Utility Docket 9791
TX Centerpoint Energy-Texas Coast Division Gas Adjustment Clause	2008-open	(October 2008)
		Various
		Resolutions/Ordinances across cities in service
		territory, including City of
		Fort Worth Ordinance 17989-
TX Atmos Energy-Mid Texas Division Gas Rate Review Mechanism	2013-2017	02-2007
		Various
		Resolutions/Ordinances across cities in service
		territory including City of
		Tulia Ordinance 2014-03
TX Atmos Energy West Texas Division Gas Rate Review Mechanism	2014-open	
		Various Resolutions/Ordinances
Cost of Service		across cities in service
TX Texas Gas Service - Rio Grande Service Area Gas Adjustment	2012-open	territory
		Various
		Resolutions/Ordinances in
Cost of Service		service territory and Gas Utility Docket 9839 (April
	2009-open	2009)

JL Isito // Construction Isito // Construction Deckets 1817 and 1816 Deckets 1817 and 1816 AL Auburna Power Bundled Power Rais Statilization & Rais 2005-2013 Dockets 1817 and 1816 AL Auburna Power Bernled Power Rais Statilization & Rais 2002-2006 Dockets 1817 and 1816 AL Auburna Power Bernled Power Rais Statilization & Rais 2002-2006 Dockets 1817 and 1816 AL Auburna Power Bernled Power Rais Statilization & Power Dockets 1817 and 1816 Ockets 1817 and 1816 AL Auburna Power Bundled Power Rais Statilization & Power Dockets 1817 and 1816 Ockets 1817 and 1816 AL Auburna Power Bundled Power Rais Statilization & Power Dockets 1817 and 1816 Ockets 1817 and 1816 AL Auburna Power Service Rais Statilization & Power Dockets 1817 and 1816 Ockets 1807 and 1828	Jurisdiction	Company Name	Services	Plan Name	Plan Term	Case Reference
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Rate Regulation Docket 12-UN-139 (May						
	MS	Atmos Energy Corp	Gas		1992-2006	
	MS	Centerpoint Energy	Gas	Rate Regulation Adjustment Rider	2012-2014	Docket 12-UN-139 (May 2012)

Jurisdiction	Company Name	Services	Plan Name	Plan Term	Case Reference
		Historic (cont'd)		
MS	Centerpoint Energy Entex	Gas	Rate Regulation Adjustment Rider	2008-2012	Docket 07-UN-548 (December 2007)
MS	Centerpoint Energy Entex	Gas	Rate Regulation Adjustment Rider	1996-2007	Docket 96-UN-0202 (September 1996)
MS	Entergy Mississippi	Bundled Power Service	Formula Rate Plan 5 (FRP-5)	2010-2014	Docket 2009-UN-388 (March 2010)
MS	Entergy Mississippi	Bundled Power Service	Formula Rate Plan 1 (FRP-1)	1995	Docket 93-UA-0301 (March 1994)
MS	Mississippi Power	Bundled Power Service	Performance Evaluation Plan - 4A (PEP- 4A)	2009	Docket 06-UN-0511 (January 2009)
MS	Mississippi Power	Bundled Power Service	Performance Evaluation Plan - 4 (PEP-4)	2004-2009	Docket 03-UN-0898 (May 2004)
MS	Mississippi Power	Bundled Power Service	Performance Evaluation Plan - 3 (PEP-3)	2002-2004	Docket 01-UN-0826 (October 2002)
MS	Mississippi Power	Bundled Power Service	Performance Evaluation Plan - 2A (PEP-2A)	2001-2002	Docket 01-UN-0548 (December 2001)
MS	Mississippi Power	Bundled Power Service	Performance Evaluation Plan - 1A (PEP-1A)	1992-1993	Docket 92-UN-0059 (July 1992)
MS	Mississippi Power	Bundled Power Service Bundled Power	Performance Evaluation Plan - 1 (PEP-1) Performance Evaluation	1991-1992	Docket 90-UN-0287 (December 1990) Cause PUD U-4761 (August
MS	Mississippi Power	Service	Performance Based	1986-1990	1986) Cause PUD 200800062 (July
ОК	Centerpoint Energy Arkla	Gas	Rate of Change Plan	2008-2010	2008)
ОК	Centerpoint Energy Arkla	Gas	Performance Based Rate of Change Plan	2004-2008	Cause PUD 200400187 (November 2004)
ОК	Oklahoma Natural Gas	Gas	Performance Based Rate of Change Plan	2010-2014	Docket 200800348 (April 2009)
TX	Atmos Energy-Mid Texas Division	Gas	Rate Review Mechanism	2008 - varying end dates	Various Resolutions/Ordinances across cities in service territory, including City of Fort Worth Ordinance 17989 02-2008
TW				2009 - conclusion of rate case to be filed on or	Various Resolutions/Ordinances across cities in service
TX	Atmos Energy West Texas Division	Gas	Rate Review Mechanism	before June 1, 2013	territory Various
TX	Centerpoint Energy - Beaumont East Texas Gas Division	Gas	Cost of Service Adjustment	2009-2011	Resolutions/Ordinances across cities in service territory
тх	Texas Gas Service - Rio Grande Service Area	Gas	Cost of Service Adjustment	2009-2011	Various Resolutions/Ordinances across cities in service territory

¹ Table excludes some mechanisms that do not conform to our FRP definition. Some of these are called formula rate plans.

VII. Marketing Flexibility

This is a new section, added since the last survey. We've added it because we (and EEI) believe that marketing flexibility is a growing, strategic issue for EEI members. Several trends in business conditions are driving the need for more flexibility. The growth of distributed energy resources, for example, is a competitive challenge but also brings new service opportunities related to the development of distributed energy assets (e.g., designing, financing, procuring, building, fueling, and maintaining). Grid modernization is providing new functional capabilities to the grid which also create new service opportunities.¹² Examples include new reliability, network management, and transaction management services. Residential and commercial customers also have a growing interest in plug-in electric vehicles, and all retail customers have shown an interest in green power packages that can be supplied from grid-accessed resources.

New services will tend to be optional services that all customers will not want. Customers must be able to decline them; and if they do, not to incur associated costs. Competitive alternatives will be available for many of these services, and customers may have special needs that are difficult to address with standard tariffs. Thus, utilities will need to be able to respond quickly to the market. They will often be price "takers," as opposed to price "makers."

To date, regulatory precedent allowing investor-owned electric utilities to offer many of these services has been limited. This chapter is, in effect, a place holder for expected future electricity precedent.

Why Electric Utilities Need Marketing Flexibility

Of course, electric utilities have always needed flexibility in some of the markets they serve:

- Utility assets have uses in markets other than those for retail electric services. Most notably, surplus generating capacity of VIEUs can be used for sales in bulk power markets. These markets are competitive and price-volatile. Land in transmission corridors can be well-suited for nurseries. Prices utilities charge in competitive markets like these are largely decontrolled. Margins earned in these markets are shared with customers of retail electric services.
- The demand of large-load retail customers is often sensitive to the rates and other terms of service utilities offer because these customers have power-intensive technologies and/or options to cost-competitively cogenerate or operate at alternative locations, or are economically marginal. Customers of this kind are especially important to vertically integrated utilities. Discounts or special contracts for such customers are traditionally allowed but often require specific approval. Commission reviews of special contracts can take months.

¹² For an overview of modernization, see: EPRI, *The Integrated Grid: Realizing the Full Value of Central and Distributed Energy Resources*, 2014.

Marketing Flexibility Remedies

Marketing flexibility runs the gamut from greater commission effort to approve new rates and services by traditional means to "light handed" regulation and outright decontrol. Light handed regulation typically takes the form of expedited approval of market offerings. These offerings may be subject to further scrutiny at a later date (e.g., in the next rate case).

Flexibility is most commonly granted for rates and services with certain characteristics. Light handed regulation of optional rates and services, for example, is based on the grounds that customers are protected by their freedom not to take the service, their continued access to service under standard tariffs, and the availability of alternatives in unregulated markets. Optional offerings include tariffs open to all qualifying customers, special contracts, and discretionary value-added services. Decontrol is typically permitted only for offerings to markets where vigorous competition reigns.

Marketing Flexibility Examples: Electric Utilities

Marketing flexibility is not extensive in the electric utility industry today but there are nonetheless notable examples such as the following.

- Four Florida electric utilities have "Commercial/Industrial Service Rider" ("CISR") tariffs that allow them to negotiate contract service agreements ("CSAs") that outline discounts on the base energy and/or demand charges for large load customers who can show that they have viable alternatives to utility-provided electric service.¹³ The discounted rate must cover the incremental cost of service provision and provide a contribution to fixed costs. CSAs do not need commission approval but the commission has the option to conduct a prudence review of any signed contract.
- Duke Energy offers large North Carolina customers an optional Green Source Rider service. The program allows customers that have added at least 1 MW of new load since June 2012 to apply for an annual amount of renewable energy (and the associated renewable energy certificates) over a specific term (between 3-15 years). Customers may request a particular renewable resource in their application. Duke would then negotiate a purchased power agreement on behalf of the customer or attempt to source the energy from its own assets.

¹³ Florida Public Service Commission (2014), Order Approving Commercial/Industrial Service Rider Tariff, Order No. PSC-14-0110-TRF-EI.

Marketing Flexibility in Other Regulated Industries

Regulators and electric utilities considering new forms of marketing flexibility can learn from other utility industries that have experienced technological change, increased competition, and/or complex and changing customer needs. We provide here brief overviews of experience in the telecommunications, gas distribution, gas transmission, and railroad industries.

Telecommunications

Local telephone companies (aka incumbent local exchange carriers or "ILECs") control the traditional distribution networks connecting residences and businesses. The "last mile" services they provide include the interconnection needed for long-distance, data, security, paging, and mobile telephone services as well as local telephone calling. ILECs have in the last 30 years confronted extensive competition, rapid technological change, and new marketing opportunities. Challenges they have faced have many parallels to those emerging for electric utilities.

The Federal Communications Commission ("FCC") regulates interstate access services of ILECs. Other ILEC services are regulated by state commissions. In the 1980s, ILECs were still regulated using cost-of-service regulation with complex reporting and compensation schemes. This was succeeded by multiyear rate plans, often called "price cap" plans since they capped rate escalation but permitted some discounts to encourage greater system use. Price caps were often escalated using inflation – X formulas where the X factor reflected an estimate of the telecommunication industry productivity trend. Prices were separately capped for several baskets of services. This insulated customers in each service basket from discounts offered to other baskets. Insulation was heightened by the infrequency (or elimination) of rate cases and the common lack of earnings sharing. The FCC instituted price caps for interstate access services of ILECs in the early 1990s. Price caps also became commonplace in state ILEC regulation.

Marketing flexibility for ILECs has been most relevant in the following two areas.

<u>Competition in Traditional Service Markets</u> Some services ILECs offered became subject to mounting competitive pressure that varied with the location where service was offered. For example, by the late 1990s, competitive access providers like MFS were constructing high-speed fiber optic networks connecting office buildings in metropolitan areas. These networks allowed businesses and long-distance carriers to connect to customers while bypassing ILEC data facilities. They could also be used to transmit voice traffic, avoiding ILEC voice access charges. High regulated prices were uncompetitive in high-traffic locations where facilities-based competitors entered the market. For services subject to competitive challenges, price cap plans in many states permitted discounts to standard tariffs within certain bands (e.g., rates could rise by 5% less than the price cap index) and/or subject to pricing floors that discouraged predation and cross-subsidization. In markets where pronounced competition could be demonstrated, ILEC rates were sometimes effectively decontrolled.

<u>Innovative Services</u> Technological change gave rise to innovative new services [e.g., Voicemail, Centrex and high-speed data (e.g., digital subscriber loop or "DSL")] which utilize essential network assets of ILECs

and cannot not practically be performed by affiliates.¹⁴ Many of these services were deemed "information" services and were regulated by the FCC. Regulators ultimately permitted ILECs to provide a host of these services and allowed considerable pricing flexibility.

Gas Distribution

Natural gas distributors also need flexibility to address some markets that they serve. Like VIEUs, many large-load customers of gas distributors have price sensitive demands and special needs. Distributors have frequently obtained light handed regulation to respond to these challenges. Nicor Gas, for example, offers a contract service for customers taking delivery near interstate gas pipelines. Contracts are submitted to state regulators for informational purposes and are treated on a proprietary basis. Nicor has similar flexibility to enter into custom contracts with electric power generators. The Company must document to the regulator that revenues from such service exceed the incremental cost of service, thereby ensuring a positive contribution to fixed cost recovery.

Interstate Gas Transmission

Interstate pipeline companies need marketing flexibility for many reasons. Demand for a pipeline's services can be sensitive to the terms it offers due to competition from other pipelines, dual-fuel capabilities of large volume customers, the extreme variability of need for service, and other special needs. It is difficult to design standard tariffs that meet the needs of all customers. Pipelines also have their own needs, such as an interest in signing anchor shippers to long-term contracts before constructing new facilities. Since 1996, the FERC has engaged in light handed regulation of negotiated pipeline rates to individual customers who have recourse to service under a standard tariff. The FERC gives a quick turnaround to most requests for negotiated contracts. A sizable share of pipeline service is conducted under negotiated rates. A remarkable variety of rate designs have been employed.¹⁵

Railroads

In the railroad industry, MRPs were permitted under the terms of the Staggers Railroad Act of 1980. Railroads were given a freer hand to respond to competition from truckers, waterborne carriers, and other railroads. The railroads also used marketing flexibility to offer discounts to customers that reduced their cost by assembling their own unit trains and not requesting pickups or deliveries in remote locations.

MRPs are less common today in the railroad and telecom industries. However, marketing flexibility continues under new regulatory systems that share with MRPs the attribute of protecting core customers without linking a carrier's rates closely to its own cost. Railroads have recently used this flexibility to compete for traffic from new oil field developments.

¹⁴ Centrex service, which provided businesses features like call-waiting, auto attendant, voicemail, 4-digit extension dialing and conference calling, could also be sourced by purchasing or leasing a private branch exchange ("PBX"), a private network platform that enabled these features.

¹⁵ See, for example, Comments of the Interstate Natural Gas Association of America in FERC Docket PLO2-6-000, September 2002.

VIII. Conclusions

Regulation of North American energy utilities is evolving to better meet the needs of utilities and their customers in a rapidly changing world. Innovation continues, while some older forms of Altreg such as multiyear rate plans are having a renaissance.

The variety of Altreg approaches that have been established reflects the varied circumstances of utilities. Some are vertically integrated, while others are more specialized wire companies. Capex needs and trends in average use vary greatly. Regulatory traditions also vary across the US and other advanced industrial countries.

No single Altreg approach is right for every situation. The availability of multiple remedies for the underlying challenges increases the chance that an approach has already been tried that would work well, with some adjustments, in new situations. Numerous precedents for an approach should raise confidence that it makes good sense under fairly common circumstances.

Taken together, the many innovations described in this survey can encourage utilities to achieve compensatory rates of return while making needed investments, improving efficiency, and developing more market-responsive rates and services. Regulation can be streamlined, and utilities can be encouraged to embrace cost-effective DERs. Regulators and stakeholders to regulation across the US should give priority attention to these options and consider which kinds of Altreg might work best in their situation.