

Alternative Regulation for Evolving Utility Challenges:

An Updated Survey

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Prepared for:

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I. Introduction: The Problem of Financial Attrition Under Traditional Cost of Service Regulation

Many utilities are exploring alternatives to traditional rate regulation today. The underlying problem they face is a tendency of cost to grow more rapidly than the billing determinants (*e.g.* kWh of use) that determine revenue growth between rate cases. On the cost side, some utilities need large new generation or transmission investments. Others are engaged in accelerated distribution system modernization. Even without accelerated modernization, "wireco utilities" tend to experience more rate base growth than was the norm in the last years before they sold or spun off their generation. On the revenue side, growth in energy usage per customer ("average use") helped finance utility cost growth before 1980 because it bolstered revenue appreciably more than cost. Arguably, this was a feature of the Regulatory Compact which allowed utilities to finance needed new capacity. Growth in average use has been much slower since then. Few utilities have experienced much bounceback in average use since the recession thanks to sluggish economic growth, increased energy efficiency, and the spread of distributed generation ("DG"). Some utilities are experiencing declining average use.

Traditional approaches to utility regulation can fail to provide timely rate relief for such conditions. The frequency of rate cases has increased. Utilities facing a pronounced gap between cost and billing determinant growth can experience chronic underearning even with annual rate cases. Financial attrition undoubtedly 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, are comprehensive in character but involve large-scale departures from traditional regulation. Others, such as revenue decoupling and cost trackers, target cost and revenue problem areas that cause cost and revenue growth to differ. Judicious use of targeted approaches can bring revenue and cost growth into better balance and reduce the frequency of rate cases.

This survey, now updated to include precedents through late 2012, briefly explains salient alternative regulation ("Altreg") options and details precedents for electric and natural gas utilities. A summary of states that currently use these approaches is featured in Table 1. Natural gas precedents are included because of their relevance to "wires only" utilities.

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See Cost of Service Regulation in the Investor-Owned Electric Utility Industry: A History of Adaptation, by Karl McDermott, June 2012. Prepared for the Edison Electric Institute.

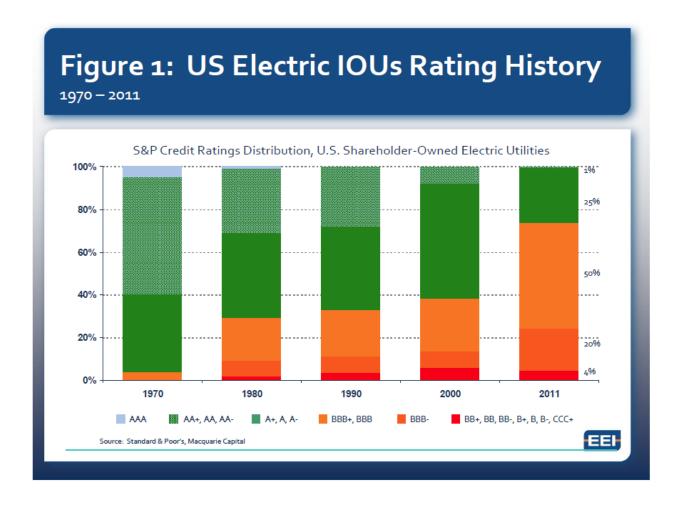


Table 1 Innovations to Reduce Regulatory Lag: An Overview of Current Precedents

					Revenue Decoupling			
State	Capex Cost Tracker	CWIP in Rate Base ¹	Multiyear Rate Plan²	Decoupling True Up Plans	Lost Revenue Adjustment Mechanisms	Fixed Variable Retail Pricing	Retail Formula Rate Plans	Forward Test Years
Alabama	Yes						Yes	Yes
Arizona	Yes		Yes (electric only)	Yes (gas only)	Yes			
Arkansas	Yes			Yes (gas only)	Yes			
California	Yes		Yes	Yes				Yes
Colorado	Yes	Yes	Yes (electric only)					
Connecticut	Yes (electric only)			Yes (electric only)	Yes (gas only)	Yes		Yes
Delaware	Pending							
District of Columbia				Yes (electric only)				
Florida	Yes	Yes	Yes (electric only)			Yes (gas only)		Yes
Georgia	Yes	Yes	Yes (electric only)	Yes (gas only)		Yes (gas only)	Yes (gas only)	Yes
Hawaii	Yes (electric only)		Yes (electric only)	Yes (electric only)				Yes
Idaho				Yes (electric only)				
Illinois				Yes (gas only)		Yes	Yes (electric only)	Yes
Indiana	Yes (electric only)	Yes		Yes (gas only)	Yes (electric only)			
Iowa	Yes (electric only)		Yes (electric only)					
Kansas	Yes	Pending			Yes (electric only)			
Kentucky	Yes				Yes	Yes (gas only)		Yes
Louisiana	Yes (electric only)	Yes	Yes (electric only)		Yes (electric only)		Yes	Yes (electric only)
Maine	Yes (electric only)		Yes (electric only)					Yes
Maryland				Yes				
Massachusetts	Yes			Yes	Yes			
Michigan	Yes (gas only)	Pending		Yes (gas only)				Yes

Table 1 (continued) Innovations to Reduce Regulatory Lag: An Overview of Current Precedent

					Revenue Decoupling			
State	Capex Cost Tracker	CWIP in Rate Base ¹	Multiyear Rate Cap²	Decoupling True Up Plans	Lost Revenue Adjustment Mechanisms	Fixed Variable Retail Pricing	Retail Formula Rate Plans	Forward Test Years
Minnesota	Yes	Yes		Yes (gas only)				Yes
Mississippi	Yes (electric only)	Yes				Yes (electric only)	Yes	Yes
Missouri	Yes (gas only)					Yes (gas only)		
Montana	Yes				Yes			
Nebraska								
Nevada				Yes (gas only)	Yes (electric only)			
New Hampshire	Yes		Yes (electric only)		Yes (electric only)			
New Jersey	Yes			Yes (gas only)				
New Mexico		Pending						Pending
New York	Yes (electric only)		Yes	Yes	Yes			Yes
North Carolina		Yes		Yes (gas only)	Yes (electric only)			
North Dakota		Pending				Yes (gas only)		Yes
Ohio	Yes	Pending	Yes (electric only)	Yes (electric only)	Yes (electric only)	Yes (gas only)		
Oklahoma	Yes (electric only)	Pending			Yes (electric only)	Yes (gas only)	Yes (gas only)	
Oregon	Yes			Yes	Yes			Yes
Pennsylvania	Yes (electric only)							Pending
Rhode Island	Yes			Yes				Yes
South Carolina	Yes (electric only)	Yes			Yes (electric only)		Yes (gas only)	
South Dakota	Yes (electric only)	Pending						
Tennessee				Yes (gas only)				Yes
Texas	Yes	Yes					Yes (gas only)	
Utah	Yes (gas only)			Yes (gas only)				Yes
Vermont	Yes (electric only)		Yes					
Virginia	Yes	Yes	Yes (electric only)	Yes (gas only)				
Washington	Pending			Yes (gas only)				
West Virginia	Yes (electric only)	Yes						
Wisconsin		Yes		Yes				Yes
Wyoming	Yes (electric only)	Yes		Yes (gas only)	Yes			Yes (electric only)

 ¹ This column pertains only to electric utilities.
 ² This column excludes plans involving rate freezes without extensive supplemental funding from trackers.

II. Cost Trackers and CWIP in Rate Base

A cost tracker is a mechanism for expedited recovery of specific utility costs. Balancing accounts are typically used to track unrecovered allowances. Cost recovery is often implemented using tariff sheet provisions called riders.

Trackers are used in various situations where they are a more practical means of adjusting rates for particular business conditions. Utilities usually recover fuel and purchased power costs via trackers because the volatility and substantial size of these costs would otherwise lead to frequent general rate cases and high risk. Other volatile expenses that are sometimes addressed using trackers include those for pension contributions and uncollectible bills.

A second common use of trackers is for costs that must be incurred because they are required by government agencies. Examples here include franchise fees and certain taxes. Tracking costs like these is fair to utilities and encourages government agents to moderate policies that are apt to raise customer bills.

Trackers are also widely used to compensate utilities for costs that are rapidly rising and don't produce much revenue, whether or not they are volatile or mandated. This can facilitate the targeted expenditures and reduce operating risk and rate case frequency. Examples of operation and maintenance ("O&M") expenses that are sometimes tracked due in whole or part to their rapid growth include those for health care and demand side management ("DSM").

Trackers for the costs of plant additions are sometimes called capital expenditure ("capex") trackers. The costs that are recovered typically include the accumulating depreciation, return on asset value, and taxes that the capex gives rise to. 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.

Capex costs can qualify for expedited recovery using either or both of the second or third reasons just discussed. A utility might, for example, be compelled to make capital expenditures due to highway relocations or changes in government safety or reliability standards or conductor undergrounding requirements. Capex costs might also be tracked because they are large enough to cause material growth in assets that would otherwise occasion frequent rate cases.

The construction of base load generating capacity is a common source of major plant additions for VIEUs. This kind of capacity can take years to construct, especially when it is powered by solid fuels or hydroelectric resources. An allowance in rates for funds used during construction was traditionally not permitted until assets were used and useful and a rate case was filed. Deferred recovery can strain utility cash flow, involve extra financing expenses, and induce rate "shock" when the value of the plant and construction financing is finally added to the rate base. This is particularly true if the utility is not experiencing growth in average use during the years of construction. Many commissions address these problems by making a return on construction work in progress ("CWIP") eligible for immediate recovery. Capital cost trackers are often used in lieu of frequent rate cases to obtain CWIP recovery.

The capex 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 solid-fuel generation capacity, and construction of specific assets usually takes less than a year. However, the expenditures can still be sizable and, unlike new generation or customer connections, don't automatically trigger new revenue when construction is finished. A tracker for the cost of the new investment can help a company modernize its grid and improve its services without frequent rate cases.

The capex costs of generation emissions controls are often accorded expedited recovery for a combination of the reasons just discussed. The controls are occasioned by the emissions policies of state and federal agencies. Additionally, the facilities do not produce revenue and some facilities often become used and useful each year over a series of years.

There are varied treatments of costs in approved capex trackers. Plant addition budgets are usually set in advance and commission review of these budgets can be extensive. Once a budget is established, treatment of variances from the budget 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.

Recent precedents for capital cost trackers are listed in Table 2 and Figures 2 and 3. It can be seen that the precedents are quite numerous and continue to grow. This is one of the most widespread approaches to Altreg. On the electric side, trackers for emissions controls, generation capacity, and advanced metering infrastructure have been especially common in recent years. Trackers for gas utilities often focus on the cost of replacing old cast iron and bare steel mains. Trackers for water utilities, sometimes called distribution system improvement charges ("DSICs"), are also common for accelerated modernization. Recent electric utility precedents for CWIP in rate base are listed in Table 3 and Figure 4. It can be seen that most involve investments in generating plant.

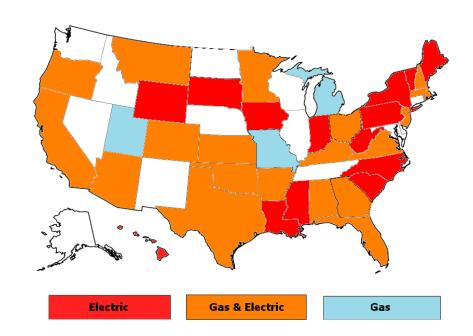


Figure 2: Recent Capex Tracker Precedents by State: Energy Utilities

Table 2 Recent Capex Tracker Precedents

Jurisdiction	Company Name	Services Included	Tracker Name	Eligible Investments	Case Reference
			Current		
AL	Alabama Power	Electric	Rate Certificated New Plant	Any approved by Commission through CPCN	Dockets 18117 and 18416 (November 1982)
AL	Mobile Gas Service	Gas	Cast Iron Replacement Factor	Replacement of cast iron mains	Docket 24794 (November 1995)
AR	CenterPoint Energy Arkla	Gas	Main Replacement Rider	Replacement of cast iron and bare steel mains and services	Docket 06-161-U (October 2007)
AR	CenterPoint Energy Arkla	Gas	Government Mandated Expenditure Surcharge Rider	Replacements resulting from highway and street rebuilding	Docket No. 10-108-U (March 2011)
AR	Oklahoma Gas & Electric	Electric	Smart Grid Rider	Systemwide smart grid implementation	Docket No. 10-109-U (August 2011)
AR	SWEPCO	Electric	Generation Recovery Rider	New generation	Docket No. 09-008-U (November 2009)
AZ	Arizona Public Service	Electric	Environmental Improvement Surcharge	Environmental improvement projects	Docket No. E-01345A-11-024
AZ	Arizona Public Service	Electric	Renewable Energy Standard Adjustment Schedule	Renewables not recovered in base rates	Docket No. E-01345A-08-0172
AZ	Southwest Gas	Gas	Customer Owned Yard Line Cost Recovery Mechanism	Replacement and ownership of customer-owned yard lines that have been shown to be leaking	Docket No. G-01551A-10-0458 (January 2012)
CA	Pacific Gas & Electric	Electric & Gas	Smart Meter Balancing Accounts	AMI	Decision 06-07-027 (July 2006)
CA	Pacific Gas & Electric	Electric	Cornerstone Improvement Project Balancing Account	Capital and O&M expenses to improve the reliability of the electric distribution system	Decision 10-06-048 (June 2010)
CA	Pacific Gas & Electric	Gas Transmission	Pipeline Safety Implementation Plan	Pipeline replacement, automated valve installation, and upgrades to pipeline	Decision 12-12-030 (December 2012)
CA	Facilic das & Electric	Gas Transmission	ripenne Safety implementation rian	upgraues to piperine	2012)
			Advanced Metering Infrastructure		
CA	San Diego Gas & Electric	Electric & Gas	Balancing Account SONGS Major Additions Adjustment	AMI Steam generator replacement for San Onofre Nuclear	Decision 07-04-043 (April 2007) Decision 06-11-026 (November
CA	San Diego Gas & Electric	Electric	Clause	Generating Station Steam generator replacement for San Onofre Nuclear	2006) Decision 05-12-040 (December
CA	Southern California Edison	Electric	Steam Generator Replacement Project	Generating Station	2005) Decision No. 08-09-039
CA	Southern California Edison	Electric	SmartConnect Balancing Account	Advanced Metering Infrastructure Project	(September 2008) Decision No. 09-06-049 (June
CA	Southern California Edison	Electric	Solar PV Balancing Account	Solar generation	2009)
CA	Southern California Gas	Gas	Advanced Metering Infrastructure Balancing Account	AMI	Decision 10-04-027 (April 2010)
			1390	200 7.11	Docket No. 10A-189G (May
CO	Atmos Energy	Gas	AMI Surcharge	AMI pilot deployment	2010)
СО	Public Service Company of Colorado	Electric	Transmission Cost Adjustment	Transmission projects	Docket No. 07A-339E, Decision No. C07-1085 (December 2007)
CO	Public Service Company of Colorado	Gas	Pipeline Safety Integrity Adjustment	Gas distribution and transmission integrity management programs, main replacement, partial recovery of two large pipeline replacements	Docket No. 10-AL-963G (August 2011)
CT	Connecticut Light & Power	Electric	System Resiliency Plan	Structural hardening	Docket No. 12-07-06 (January 2013)
DE	All utilities may file	Electric & Gas	Utility Facility Relocation Charge	Replacements due to mandated relocations that are not otherwise reimbursed	PSC Regulation Docket No. 63 (April 2012)
FL	Chesapeake Utilities	Gas	Gas Reliability Infrastructure Program Tariff	Replacement of bare steel mains and services	Docket No. 120036-GU (September 2012)
FL	Florida Public Utilities	Gas	Gas Reliability Infrastructure Program Tariff	Replacement of bare steel mains and services	Docket No. 120036-GU (September 2012)
FL	Gulf Power	Electric	Environmental Cost Recovery Clause	Environmental	Docket No. 930613-EI (January 1994)
FL	Florida Power and Light	Electric	Environmental Cost Recovery Clause		Docket No. 080281-EI (August 2008)
FL	Florida Power and Light	Electric	Generation Base Rate Adjustment	Generation	Docket No. 120015-EI (December 2012)
FL	Florida Power and Light	Electric	Capacity Cost Recovery Clause	Nuclear power	Docket No. 090009-EI (November 2009)
FL	Peoples Gas System	Gas	Cast Iron/Bare Steel Replacement Rider	Replacement of bare steel and cast iron pipes	Docket No. 110320-GU (September 2012)
FL	Progress Energy Florida	Electric	Capacity Cost Recovery Clause	Nuclear power	Docket No. 090009-EI (November 2009)
FL	Progress Energy Florida	Electric	Environmental Cost Recovery Clause	•	Docket No. 050078-EI (September 2005)
FL	Tampa Electric	Electric	Environmental Cost Recovery Clause		Docket No. 960688-EI (August 1996)
GA GA	Atmos Energy	Gas	Pipe Replacement Surcharge	Replace cast iron and bare steel pipe	Docket No. 12509-U (December 2000)
JA	rumos Energy	Jas			
GA	Atlanta Gas Light	Gas	Strategic Infrastructure Development and Enhancement Program	Infrastructure improvements that sustain reliability and operational flexibility	Docket No. 8516-U (October 2009)
GA	Georgia Power Company	Electric	Environmental Compliance Cost Recovery	Environmental	Docket No. 25060-U (December 2007)
GA	Georgia Power Company	Electric	Nuclear Construction Cost Recovery	Nuclear generation	Docket No. 27800, Senate Bill 31

Jurisdiction	Company Name	Services Included	Tracker Name	Eligible Investments	Case Reference
ні	Hawaii Electric Light	Electric	Renewable Energy Infrastructure Program Surcharge	Renewable energy infrastructure	Docket No. 2007-0416 (December 2009)
НІ	Hawaiian Electric Company	Electric	Renewable Energy Infrastructure Program Surcharge	Renewable energy infrastructure	Docket No. 2007-0416 (December 2009)
НІ	Maui Electric	Electric	Renewable Energy Infrastructure Program Surcharge	Renewable energy infrastructure	Docket No. 2007-0416 (December 2009)
					Docket APP-96-1 (June 1997 Docket No. TF-02-154 (APP-9
IA	MidAmerican Energy	Electric	Cooper Tracking Mechanism	Nuclear plant	1, RPU-96-8) (May 2002) Cause No. 41744 (February
IN	Duke Energy Indiana	Electric	Qualified Pollution Control Property	Environmental	2001)
IN	Duke Energy Indiana	Electric	Integrated Coal Gasification Combined Cycle Generating Facility Cost Recovery Adjustment	Integrated gasification combined cycle generating plant	Docket No. 43114 (November 2007)
IN	Indianapolis Power & Light	Electric	Environmental Compliance Cost Recovery	Environmental	Cause 42170 (November 200)
IN	Indiana Michigan Power	Electric	Clean Coal Technology Rider	Environmental	Cause No. 43636 (June 2009
IN	Northern Indiana Public Service	Electric	Environmental Cost Recovery Mechanism	Environmental	Cause No. 42150 (November 2002)
KS	Atmos Energy	Gas	Gas System Reliability Surcharge	Infrastructure system replacements	Docket No. 10-ATMG-133-TA (December 2009)
KS	Black Hills Energy (Aquila)	Gas	Gas System Reliability Surcharge	Infrastructure system replacements	Docket No. 07-AQLG-431-R7 (May 2007)
KS	Kansas Gas Service	Gas	Gas System Reliability Surcharge	Infrastructure system replacements	Docket 10-KGSG-155-TAR (December 2009)
KS	Kansas Gas & Electric	Electric		Environmental	Docket No. 05-WSEE-981-RT (October 2005)
			Environmental Cost Recovery Rider		Docket 09-MDWE-722-TAR
KS	Midwest Energy	Gas	Gas System Reliability Surcharge	Infrastructure system replacements	(May 2009) Docket No. 05-WSEE-981-RT
KS	Westar Energy Inc.	Electric	Environmental Cost Recovery Rider	Environmental Replacement of bare steel service lines, curb valves, meter	(October 2005) Docket No. 2009-00354 (May
KY	Atmos Energy	Gas	Pipe Replacement Program Rider	loops, and mandated relocates	2010) Docket No. 2009-00141
KY	Columbia Gas	Gas	Advanced Main Replacement Rider	Replacement of cast iron and bare steel mains and services Replacement of bare steel pipe, service lines, curb valves,	(September 2009) Case No. 2010-00116 (Octobe
KY KY	Delta Natural Gas Kentucky Power	Gas Electric	Pipe Replacement Program Surcharge Environmental Cost Recovery Surcharge	meter loops, and mandated pipe relocations Environmental	2010) Docket No. 2002-00169 (Marc 2003)
KY	Kentucky Utilities	Electric	Environmental Cost Recovery Surcharge	Environmental	Case No. 93-465 (July 1994)
KY	Louisville Gas & Electric	Electric	Environmental Cost Recovery Surcharge	Environmental	Case No. 94-332 (April 1995
KY	Louisville Gas & Electric	Gas	Gas Line Tracker	Replacement and transfer of ownership of customer owned service risers	Case No. 2012-00222 (December 2012)
LA	Cleco Power	Electric	Infrastructure and Incremental Costs Recovery	Generation, Transmission, environmental, other projects to be determined	Docket U-30689 (October 201
MA	Bay State Gas	Gas	Targeted Infrastructure Recovery Factor	Replacement of bare steel mains and services	DPU 09-30
MA	Massachusetts Electric	Electric	Net CapEx Factor	All distribution above depreciation expense	DPU 09-39
MA	Massachusetts Electric	Electric	Solar Cost Adjustment Provision	Solar generation	DPU 09-38
MA	Nantucket Electric	Electric	Solar Cost Adjustment Provision	Solar generation Replacement of bare steel, cast iron, and wrought iron	DPU 09-38
MA	National Grid (Boston-Essex Gas and Colonial Gas	Gas	Targeted Infrastructure Recovery Factor	mains, services, meters, meter installations, and house regulators	DPU 10-55
MA	New England Gas	Gas	Targeted Infrastructure Recovery Factor	Replacement of non-cathodically protected steel mains and services and small diameter cast-iron and wrought iron	DPU 10-114
MA MA	NSTAR Electric NSTAR Electric	Electric Electric	Capital Projects Scheduling List NA	Stray voltage inspection survey and remediation program; double pole inspections, replacements, and restorations; and manhole inspection, repair, and upgrade Smart grid pilot	DTE 05-85 and DPU 10-70-E DPU-09-33
MA	Western Massachusetts Electric	Electric	Solar Program Cost Adjustment	Solar generation	DPU 09-05
MN	Minnesota Power	Electric	Arrowhead Regional Emission Abatement Rider	Environmental	M-05-1678 (June 2006)
MN	Minnesota Power	Electric	Renewable Resource Rider	Renewable generation	Docket M-10-273 (July 2010
					Docket M-07-965 (December
MN	Minnesota Power	Electric	Transmission Cost Recovery Rider	Incremental transmission investment	2007)
MN	Northern States Power (Xcel Energy)	Electric	Renewable Energy Standard Cost Recovery Rider	Renewable generation	M-07-872 (March 2008)
			Metropolitan Emissions Reduction		
MN	Northern States Power (Xcel Energy)	Electric	Project (later called Environmental Improvement Rider)	Environmental	Docket M-02-633 (March 200-
	Northern States Power (Xcel				Docket No. M-09-847
MN	Energy)	Electric	Mercury Cost Recovery Rider	Environmental	(November 2009)

Jurisdiction	Company Name	Services Included	Tracker Name	Eligible Investments	Case Reference
ME	Central Maine Power	Electric	NA	AMI	Docket No. 2007-215(II) (February 2010)
MI	SEMCO Gas	Gas	Main Replacement Rider	Replacement of cast iron and unprotected steel mains and service lines	Case U-16169 (January 2011)
140			Infrastructure System Replacement	Replacement of mains, valves, service lines, regulator stations,	Case No. GT-2008-0184
MO	AmerenUE	Gas	Surcharge	vaults, other pipeline components	(February 2008)
110			Infrastructure System Replacement	Replacement of mains, valves, service lines, regulator stations,	Docket No. GO-2009-0046
MO	Atmos Energy	Gas	Surcharge	vaults, other pipeline components	(October 2008)
			Infrastructure System Replacement	Replacement of mains, valves, service lines, regulator stations,	Docket No. GR-2007-0208 (July
MO	Laclede Gas	Gas	Surcharge Infrastructure System Replacement	vaults, other pipeline components	2007) Docket No. GR-2009-0355
MO	Missouri Gas Energy	Gas	Surcharge	Natural gas line replacements and relocations	(February 2010)
MS	Mississippi Power	Electric	Enviromental Compliance Overview Plan Rate	Environmental	Docket No. 92-UA-0058 and 92 UN-0059 (July 1992)
	T. C.		NA - Amounts recovered through		Docket D.2008.6.69 (November
MT	Northwestern Energy	Electric	electric supply service rates	Generation	2008) Docket No. D2012.3.25
MT	Northwestern Energy	Gas	Natural Gas Supply Tracker	Battle Creek natural gas production resources	(November 2012)
NH	Energy North	Gas	Cast Iron/Bare Steel Replacement Program	Replacement of cast iron and bare steel pipe	Docket DG-107 (June 2007)
NH	Granite State Electric	Electric	Reliability Enhancement Plan Capital Investment Allowance	Feeder hardening and asset replacement	Docket DG-107 (June 2007)
NH	Public Service Company of New Hampshire	Electric	Energy Service	Environmental	DE 11-250 (April 2012)
NJ	Elizabethtown Gas	Gas	Utility Infrastructure Enhancement Rate	Projects to enhance reliability and reinforce infrastructure	Docket No. GO09010053 (April 2009)
NJ	Elizabethtown Gas	Gas	Utility Infrastructure Enhancement Rate II	Projects to enhance reliability and reinforce infrastructure	Docket No. GO10120969 (May 2011)
NJ	New Jersey Natural Gas	Gas	Compressed Natural Gas Pilot Program	Compressed natural gas infrastructure	Docket No. GR11060361 (June 2012)
143	ivew sersey ivaluations	Gus	Capital Infrastructure Investment	Electric: reliability upgrades & feeder replacement, Gas:	Docket No. GO09010050 (April
NJ	Public Service Electric and Gas	Electric & Gas	Program	replacement of cast iron & bare steel mains and services	2009)
	n.r	71	Capital Infrastructure Investment	Electric: reliability upgrades & feeder replacement, Gas:	Docket No. EO11020088,
NJ	Public Service Electric and Gas	Electric & Gas	Program II	replacement of cast iron & bare steel mains and services	GO10110862 (July 2011) Docket No., EO09020125
NJ	Public Service Electric and Gas	Electric	Solar Generation Investment Program	Solar generation	(August 2009) Docket No. EO09060459 (April
NJ	Rockland Electric	Electric	Smart Grid Surcharge	Smart Grid pilot Bare steel replacement, expand key distribution mains for	2010) Docket No. GO09010051 (April
NJ	South Jersey Gas	Gas	Capital Investment Recovery Tracker	reliability Bare steel replacement, expand key distribution mains for	2009) Docket No. GO10100765
NJ	South Jersey Gas	Gas	Capital Investment Recovery Tracker II Capital Investment Recovery Tracker	reliability	(March 2011) Docket No. GO11100632 (May
NJ	South Jersey Gas	Gas	III	Accelerated Main Replacement Program	2012)
NY	Consolidated Edison	Electric	Monthly Adjustment Clause	AMI, SCADA, undergrounding	Case 09-E-0310 (October 2010) Case Nos. 09-1820-EL-ATA
OH	Cleveland Electric Illuminating	Electric	Rider AMI	Ohio Site Deployment	and 12-1230-EL-SSO
ОН	Cleveland Electric Illuminating	Electric	Delivery Capital Recovery Rider	Distribution, subtransmission, general, and intangible plant not included in most recent rate case	Case No. 10-388-EL-SSO (August 2010)
0.1	Covering Electric Internations	Lieute	Bearery Cupital Recovery Rade	and a most reen me ente	
					Case No. 08-0072-GA-AIR, 08 0073-GA-ALT, 08-0074-GA-
			Infrastructure Replacement Program	Replacement of cast iron and bare steel mains & services,	AAM, and 08-0075-GA-AAM (December 2008); Case No. 09-
OH	Columbia Gas of Ohio	Gas	Rider	AMI	1036-GA-RDR (April 2010)
ОН	Columbus Southern Power	Electric	Distribution Investment Rider	Net capital additions since the date certain of most recent rate case not recovered through other riders	Case 11-346-EL-SSO
ОН	Columbus Southern Power	Electric	GridSMART Rider (Phase I)	Smart grid	Case No. 08-917-EL-SSO and 08-918-EL-SSO (March 2009)
ОН	Dayton Power and Light		Environmental Investment Rider	Environmental	Case No. 05-276-EL-AIR (December 2005)
	East Ohio Gas d/b/a Dominion East	Electric	Pipeline Infrastructure Replacement		Case No. 09-458-GA-RDR
OH	Ohio	Gas	Rider	Pipelines & faulty riser replacements	(December 2009)
					Case No. 07-0829-GA-AIR, 07 0830-GA-ALT, 07-0831-GA-
					AAM, 08-0169-GA-ALT, and 06-1453-GA-UNC (October
	East Ohio Gas d/b/a Dominion East				2008); Case No. 09-38-GA- UNC (May 2009); Case No. 09-
ОН	Ohio	Gas	Automated Meter Reading Charge	AMI	1875-GA-RDR (May 2010)

Off Date Recognition	Jurisdiction	Company Name	Services Included	Tracker Name	Eligible Investments	Case Reference
Obj. Date Energy Union	ОН	Duke Energy Ohio	Gas		Replacement of bare steel and cast iron mains and services	Case No. 01-1228-GA-AIR, and 01-1478-GA-ALT, and 01- 1539-GA-AAM (May 2002). 0589-GA-AIR 07-0590-GA- ALT 07-0591-GA-AAM (May 2008)
Debt Energy Obs Beerie B	ОН	Duke Energy Ohio	Gas	Advanced Utility Rider	Gas AMI	Case No. 07-0589-GA-AIR 07- 0590-GA-ALT 07-0591-GA- AAM (May 2008)
OH Ohis Gebone Beer MH OH Ohis Gebone OH Ohis Gebone Beer MH OH Takelo Tidous Beer MH OH Vectors George Tidous OH Ohis Gebone Beer MH OH Takelo Tidous Beer MH OH Takelo Tidous Beer MH OH Takelo Tidous Beer MH OH Vectors George Tidous OH Ohis Gebone Gebone Beer MH OH Vectors George Tidous Gebone Geb				Infrastructure Modernization		Case No. 08-920-EL-SSO and 08-921-EL-AAM and 08-922-EL-UNC and 08-923-EL-ATA
OH Ohis Nation Diebotry						(December 2008) Case Nos. 09-1820-EL-ATA
Oil Ohe Edition Electric Defency Capital Recovery Roler Not explain afforces and the disk centure from the control of	OH	Oho Edison	Electric	Rider AMI	Ohio Site Deployment	
OH Oho Power Paceir Distribute Inserted Rick Case in A second force plant rates Case 13-36-EL-38	ОН	Ohio Edison	Electric	Delivery Capital Recovery Rider	included in most recent rate case (filed in 2007)	Case No. 10-388-EL-SSO (August 2010)
OH Othe Power OH Fields Felium OH Fields Felium OH Fields Felium Delever Capital Resource Rider OH Fields Felium Delever Capital Resource Rider Source Indian Replacement Fider Source Indian Replacement Fider Source Rider Delever Capital Resource Rider Source Indian Replacement Fider Source Rider Source Indian Replacement Fider Source Rider Source Rider Source Rider Source Rider Source Rider Source Rider Delever Capital Resource Rider Undespounting and other circuit bundering on Gene circuit bundering Capital Rider Capital Rider Consensité Rider Rider Source Rider Rider Source Rider Rider Source Rider Na Consensité Rider circuit bundering and other circuit bund	OH	Ohio Power	Electric	Distribution Investment Rider		Case 11-346-EL-SSO Case No. 08-917-EL-SSO and
OH Todols Edition Electric Difference (Patch Indian) Difference (Patch I	OH	Ohio Power	Electric	GridSMART Rider (Phase I)	Smart grid	08-918-EL-SSO (March 2009)
Deker No. Dekero Parker Dekero Capatal Recovery Refer Dekero Capatal Recovery Refer Deker No. Deker No. Deker No. Deker No. 1981 46, 1997 1998 140, 1997 1998 140, 1997 1998 140, 1997 1998 140, 1997 1998 140, 1997 1998 140, 1997 1998 140, 1997 1998 140, 1997 1998 140, 1997 1998 140, 1997 1998 140, 1997 1998 140, 1997 1998 140, 1997 1998 140, 1997 140,	OH	Toledo Edison	Electric	Rider AMI	Ohio Site Deployment	and 12-1230-EL-SSO
OH Vectors Dargy Delicoty OK Okhiboms Gas & Electric Electric Smeat Gril Rider Cause No. PLD 2008 Cause No. PLD 2008	ОН	Toledo Edison	Electric	Delivery Capital Recovery Rider		Case No. 10-388-EL-SSO (August 2010)
OK Okishoms Gas & Ekerne Electre System Hardering Recovery Rider Undergrounding and other cross hardering Cause No. PUD 2008 Okishoms Gas & Ekerne Electre System Hardering Recovery Rider Undergrounding and other cross hardering Cause No. PUD 2008 Okishoms Gas & Ekerne Electre Crossouds Rider Crossouds Wind Farm (July 2010) OK Okishoms Gas & Ekerne Electre Company of Okishoms Electre Crossouds Rider Crossouds Wind Farm (July 2010) OK Okishoms Gas & Ekerne Electre Company of Okishoms Electre Company of Okishoms (See Factor) (July 2010) OR Northwest Matual Gas Gas System Integrity Program Electre Rememble Adjustment Clause Program (July 2010) OR Predictor Description Company of Electre Rememble Adjustment Clause Program (July 2010) OR Predictor Description Company (July 2010) OR Predictor D	ОН	Vectren Energy Delivery	Gas	Distribution Replacement Rider	Replacement of cast iron and bare steel mains and services	Docket No. 07-1081-GA-ALT, 07-1080-GA-AIR and 08-0632- GA-AAM (January 2009)
OK Oklahoma Gas & Ekerne Electric System Hardening Recovery Rider Undergrounding and other circuit hardening Content No. 876700 (May 1010) OK Oklahoma Gas & Ekerne Ekerne Ekerne Crossroods Rider Crossroods Wind Farm Case No. PUD. 2008 (Ap. 2010) OK Oklahoma Ekerne Ekerne Company of OK Oklahoma Ekerne Company of Oklahoma Ekerne Company of Oklahoma Ekerne Company Oklahoma Ekerne Oklahoma Ekerne Company Oklahoma Ekerne Company Oklahoma Ekerne Oklahoma Ekerne Company Oklahoma Ekerne Company Oklahoma Ekerne Oklahoma Ekerne Oklahoma Ekerne Company Oklahoma Ekerne Okla	OK	Oklahoma Gas & Electric	Electric	Smart Grid Rider	Smart grid	Cause No. PUD 201000029 (July 2010)
OK Oklahoms Case Electric Crossroads Refer Crossroads Refer Crossroads Refer Charge Company of OK Oklahoms Electric Relability Vegatation Undergroading Refer Consension of overhead to undergroad customer service free (Jamuny 2009) OR Northwest Natural Gas Gas System Integry Program Bare steel replacement, Transmission integray management program of Ori (March 3000) OR Pacific top Electric Remeable Adjustment Clause Mont to Organization and the only if the is placed and Society (Lauges 2012) OR Pacific Cop Electric Remeable Adjustment Clause Remeable Adjustment Clause Service within 6 months of May 31, 2013 OR Portland General Electric Electric Remeable Adjustment Clause Remeable Adjustment Clause Service within 6 months of May 31, 2013 Decket M. 3000 Decket M. 31300				System Hardening Recovery Rider	-	Cause No. PUD 20080387, Order No. 567670 (May 2009)
Public Service Company of Oktobrom Eketric Reliability Vegitation Undergrounding Rider Reliability Vegitation Undergrounding Rider Connection of overhead to underground customer service fines Camer No. PUD 2088 (January 2009)	OK	Oklahoma Gas & Electric	Electric	Crossroads Rider	Crossroads Wind Farm	Cause No. PUD 201000037 (July 2010)
OR Northwest Natural Gas OR PacifiCorp Electric Renewable Adjustment Liuse Renewable persention OR PacifiCorp Electric NA Secretary State of National Society of the septeed into Service within 6 months of Output thransmission line only if the septeed into Service within 6 months of May 31, 2013 Decket UE 346, Onder OR Portland General Electric Electric Renewable Adjustment Clause Renewable Adjustment Clause Renewable Septemation Onto Place Interface Secretary State Introduced System Improvement Non-expense reducing, non-reverse producing infrastructure Code Non-A2012-85 (August 2012) PA All utilities may file Electric & Gas PPA PECO Electric Smart Meter Cost Recovery Rider Add Obocket No. M-2012-95 (August 2012) PA Metropolitan Estento Electric Smart Meters Technologies Charge Add Decket No. M-2009-21 (August 2014) PA Pennsylvania Electric Electric Smart Meters Technologies Charge Add Decket M-2009-21 (August 2016) PA Pennsylvania Factric Electric Smart Meters Technologies Charge Add Decket M-2009-21 (August 2016) PA West Penn Power Electric Smart Meters Technologies Charge Add Decket M-2009-21 (August 2016) PA West Penn Power Electric Smart Meters Technologies Charge Add Decket M-2009-21 (August 2016) PA West Penn Power Electric Smart Meters Technologies Charge Add Decket M-2009-21 (August 2016) PA West Penn Power Electric Smart Meters Technologies Charge Add Decket M-2009-21 (August 2016) PA West Penn Power Electric Smart Meters Technologies Charge Add Decket M-2009-21 (August 2016) PA West Penn Power Electric Smart Meters Technologies Charge Add Decket M-2009-21 (August 2016) PA West Penn Power Electric Smart Meters Technologies Charge Add Decket M-2009-21 (August 2016) PA West Penn Power Electric Gestric Smart Meters Surcharge Add Decket Month Dec	OK	Public Service Company of	Electric		Conversion of overhead to underground customer service lines	Cause No. PUD 200800144
OR Pacific Op Electric Renewable Adjustment Clause Name Mona to Oquirh that service within 6 months of May 31, 2013 Docket UR 1330 (December 2012)	OR	Northwest Natural Gas	Gas	System Integrity Program		Docket UM 1406, Order No. 09- 067 (March 2009)
OR Pacific Op Electric NA service within 6 months of May 31, 2013 (December 2012) OR Portund General Electric Electric Renewable Adjustment Clause Renewable Adjustment Clause Renewable Adjustment Clause Renewable Agricument Clause Renewable Agricument Clause Renewable generation Decket No. 47017-227 (August 2012) PA All utilities may file Electric & Cass Charge Renewable Adjustment Clause Renewable Agricument Frojects (August 2012) PA PPL Electric Utilities Electric Smart Meter Cost Recovery Rider AMI Decket No. 4209-22 (August 2012) PA Metropolitan Edison Electric Smart Meters Technologies Charge AMI Decket Metropolitan Edison Electric Smart Meters Technologies Charge AMI Decket Metropolitan Edison Electric Smart Meters Technologies Charge AMI Decket Metropolitan Edison Electric Smart Meters Technologies Charge AMI Decket Metropolitan Edison Decket Metropolitan Edison Electric Smart Meters Technologies Charge AMI Decket Metropolitan Edison Decket Metropolitan Edison Electric Smart Meters Technologies Charge AMI Decket Metropolitan Edison Decket Metropolitan Edison Electric Smart Meters Technologies Charge AMI Decket Metropolitan Edison Decket Metropolitan Edison Electric Smart Meters Technologies Charge AMI Decket Metropolitan Decket Metropolitan Edison Electric Smart Meters Technologies Charge AMI Decket Metropolitan Decket Metropolitan Electric (April 2010) PA Dequence Light Electric Smart Meter Charge Rider AMI Decket Metropolitan Decket Metropolitan Electric (April 2010) PA West Perm Power Electric Electric Infrastructure, Safety, and Relability Plan Factor Replacement investment Decket No. 4219 (April 2010) PA Narragament Electric (dectric Ges Gas Electric NA Narragament Electric & Gas Electric Electric Environmental Improvement Electric Electric Electric Electric Electric Environmental Electric	OR	PacifiCorp	Electric	Renewable Adjustment Clause		
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PA PECO Electric Smart Meter Cost Recovery Rider AMI (April 2010) PA Metropolitan Edison Electric Smart Meters Technologies Charge AMI Docket M-2009-212395 (2010) PA Pennsylvania Electric Electric Smart Meters Technologies Charge AMI Docket M-2009-212395 (2010) PA Pennsylvania Power Electric Smart Meters Technologies Charge AMI Docket M-2009-212395 (2010) PA Duquesne Light Electric Smart Meter Charge Rider AMI Docket M-2009-212395 (April 2010) PA West Penn Power Electric Smart Meter Charge Rider AMI (April 2010) PA West Penn Power Electric Smart Meter Surcharge AMI (April 2010) PA West Penn Power Electric Electric Electric Smart Meter Surcharge AMI (April 2010) PA West Penn Power Electric Relability Plan Factor Replacements and load growth Docket No. 4218 (Dec 2011) PA Narragansett Electric (electric Relability Plan Factor Replacement investment Docket No. 4219 (Sept 2011) PA Narragansett Electric (gas operations) Gas Reliability Plan Factor Replacement investment Docket No. 4219 (Sept 2011) PA Narragansett Electric (gas operations) Gas Electric NA Nuckar generation Docket No. 4219 (Sept 2011) PA Narragansett Electric (gas operations) Gas Electric NA Nuckar generation Docket No. 4219 (Sept 2011) PA Narragansett Electric & Gas Electric Elec	PA	PPL Electric Utilities	Electric	Act 129 Compliance Rider	AMI	Docket No. M-2009-2123945 (January 2010)
PA Metropolitan Edison Electric Smart Meters Technologies Charge AMI 2010) PA Pennsylvania Electric Electric Smart Meters Technologies Charge AMI 2010) PA Pennsylvania Electric Electric Smart Meters Technologies Charge AMI 2010) PA Pennsylvania Power Electric Smart Meters Technologies Charge AMI 2010) PA Duquesne Light Electric Smart Meter Charge Rider AMI (April 2010) PA West Penn Power Electric Smart Meter Surcharge AMI (Docket No. M-2009-21 (April 2010)) PA West Penn Power Electric Electric Smart Meter Surcharge AMI (Docket No. M-2009-21 (June 2011)) PA Warragansett Electric (electric Paragansett Electric (electric Paragansett Electric (gas Operations)) Electric Reliability Plan Factor Replacements and load growth Docket No. 4218 (Dec 2011) PA Narragansett Electric (gas Gas Infrastructure, Safety, and Reliability Plan Factor Replacement investment Docket No. 4219 (Sept 2011)) PA Warragansett Electric (gas Gas Electric NA Nuclear generation 2009) PA West Penn Power Electric & Gas Electric NA Nuclear generation Docket No. 4219 (Sept 2011))	PA	PECO	Electric	Smart Meter Cost Recovery Rider	AMI	Docket No. M-2009-2123944 (April 2010)
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PA Pennsylvania Power Electric Smart Meters Technologies Charge AMI 2010) PA Duquesne Light Electric Smart Meter Charge Rider AMI Charge Rider AMI (April 2010) PA West Penn Power Electric Smart Meter Charge Rider AMI (April 2010) PA West Penn Power Electric Smart Meter Surcharge AMI (June 2011) Narragansett Electric (electric operations) Electric Electric Reliability Plan Factor Replacements and load growth 2011) Narragansett Electric (gas Gas Infrastructure, Safety, and Reliability Plan Factor Replacement investment 2011) Narragansett Electric (gas Gas Electric NA Nuckar generation 2009) SC South Carolina Electric & Gas Electric Adjustment aful Environmental Environmental Docket EL11-001 Adjustment aful Environmental Environmental Docket EL11-001	PA	Pennsylvania Electric	Electric	Smart Meters Technologies Charge	AMI	Docket M-2009-2123950 (April 2010)
PA Duquesne Light Electric Smart Meter Charge Rider AMI (April 2010) PA West Penn Power Electric Smart Meter Surcharge AMI Docket No. M-2009-21 (June 2011) Narragarsett Electric (electric operations) Electric Reliability Plan Factor Replacements and load growth 2011) Narragarsett Electric (gas Ri operations) Gas Reliability Plan Factor Replacement investment 2011) SC South Carolina Electric & Gas Electric NA Nuckar generation 2009) Environmental Environmental Docket EL11-001	PA	Pennsylvania Power	Electric	Smart Meters Technologies Charge	AMI	Docket M-2009-2123950 (April 2010)
PA West Penn Power Electric Smart Meter Surcharge AMI (June 2011) Narragansett Electric (electric operations) Electric Reliability Plan Factor Replacements and load growth 2011) Narragansett Electric (gas Reliability Plan Factor Replacements and load growth 2011) Narragansett Electric (gas Gas Infrastructure, Safety, and Reliability Plan Factor Replacement investment 2011) SC South Carolina Electric & Gas Electric NA Nuckar generation 2009) Environmental Improvement Adjustment tariff Environmental Docket EL11-001	PA	Duquesne Light	Electric	Smart Meter Charge Rider	AMI	Docket No. M-2009-2123948 (April 2010)
RI operations) Replacements and load growth 2011) Narragansett Electric (gas RI operations) Gas Infrastructure, Safety, and Reflability Plan Factor Replacement investment 2011) SC South Carolina Electric & Gas Electric NA Nuckar generation 2009) Environment Improvement Adjustment tariff Environmental Docket EL11-001	PA	West Penn Power	Electric	Smart Meter Surcharge	AMI	Docket No. M-2009-2123951 (June 2011)
RI operations Gas Reliability Plan Factor Replacement investment 2011	RI		Electric		Replacements and load growth	Docket No. 4218 (December 2011)
SC South Carolina Electric & Gas Electric NA Nuckar generation 2009) SD Black Hills Power Electric Adjustment tariff Environmental Docket EL11-001	DI		Gas		Replacement insachness	Docket No. 4219 (September
Environmental Improvement					·	Docket 2008-196-E (March
				Environmental Improvement		
SD Northern States Power- MN Electric Environmental Cost Recovery Tariff Environmental 2009)						Docket EL07-026 (January

Jurisdiction	Company Name	Services Included	Tracker Name	Eligible Investments	Case Reference
TX	All Electric Utilities	Electric	Distribution Cost Recovery Factor	Any distribution	Docket 39465
TX	AEP Texas Central	Electric	Advanced Metering System Surcharge	AMI	Docket No. 36928
TX	AEP Texas North	Electric	Advanced Metering System Surcharge	AMI	Docket No. 36928
TX	Atmos Energy Mid Tex	Gas	Gas Reliability Infrastructure Program	Incremental investment in new and replacement pipe, pipeline integrity	Texas Utilities Code 104.301 and Gas Utilities Docket 9615
TX	Atmos Energy Pipelines	Gas	Gas Reliability Infrastructure Program	Incremental investment in new and replacement pipe, pipeline integrity	Texas Utilities Code 104.301 and Gas Utilities Docket 9615
TX	Atmos Energy West Texas Division	Gas	Gas Reliability Infrastructure Program	Incremental investment in new and replacement pipe, pipeline integrity	Texas Utilities Code 104.301 and Gas Utilities Docket 9608
TX	Centerpoint Energy Entex - Houston Division	Gas	Gas Reliability Infrastructure Program	Incremental investment in new and replacement pipe, pipeline integrity	Texas Utilities Code 104.301 and Gas Utilities Docket 10067
TX	Centerpoint Energy Houston Electric	Electric	Advanced Metering System Surcharge	AMI	Docket No. 35620 (August 2008)
TX	Oncor Electric Delivery	Electric	Advanced Metering System Surcharge	AMI	Docket No. 35718 (August 2008)
			0 3		,
TX	Texas-New Mexico Power	Electric	Advanced Metering System Surcharge	AMI	Docket No. 38306 (July 2011)
UT	Questar Gas	Gas	Infrastructure Rate Adjustment Tracker Environmental & Reliability Cost	Replacement of aging high-pressure feeder lines	Docket 09-057-16 (June 2010) Docket No. PUE-2007-00069
VA	Appalachian Power	Electric	Recovery Surcharge	Environmental & reliability	(December 2007) Case No. PUE-2011-00035
VA	Appalachian Power	Electric	Environmental Rate Adjustment Clause	Environmental	(November 2011)
VA	Appalachian Power	Electric	Generation Rate Adjustment Clause	Dresden plant	Docket No. PUE-2011-00036 (January 2012)
VA	Atmos Energy	Gas	Infrastructure Reliability and Replacement Adjustment	Replacement of first generation plastic pipe and service lines and bare steel mains and services	Case No. PUE-2012-00049 (August 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 No. PUE-2011-00049 (November 2011)
VA	Virginia Electric Power	Electric	Rider R	Bear Garden Generating Station	Case No. PUE-2009-00017 (March 2010)
VA	Virginia Electric Power	Electric	Rider S	Virginia City Hybrid Energy Center	Case No. PUE-2007-00066 (March 2008)
VA	Virginia Electric Power	Electric	Rider W	Warren County Power Station	Case No. PUE-2011-00042 (February 2012)
VA	Virginia Electric Power	Electric	Rider B	Biomass conversions	Case No. PUE-2011-00073 (March 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 plastic services	Case No. PUE-2010-00087 (April 2011)
VT	Central Vermont Public Service	Electric	New Initiatives Adder	AMI	Dockets 7586 and 7612
WA	All gas utilities may file	Gas	Special Pipe Replacement Program Cost Recovery Mechanism	Replacement of pipe that is at an elevated risk of failure	Docket UG-120715 (December 2012)
WV	Appalachian Power	Electric	Construction/765kW Surcharge	Generation, Environmental	Case No. 11-0274-E-GI (June 2011)
WV	Wheeling Power	Electric	Construction/765kW Surcharge	Generation, Environmental	Case No. 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 No. 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 No. 20003-123-ET-12 (November 2012)

Jurisdictio	n Company Name	Services Included	Tracker Name	Eligible Investments	Case Reference
			Historic		
CA	San Diego Gas & Electric	Electric & Gas	Advanced Metering Infrastructure Balancing Account	AMI	Application 05-03-015 (March 2005)
CA	Southern California Edison	Electric	Advanced Metering Infrastructure Balancing Account	AMI	Docket No. 07-07-042 (July 2007)
со	Public Service Company of Colorado	Electric	Air Quality Improvement Rider	Environmental	Docket 98A-511E
					Docket 8516-U later updated in
GA	Atlanta Gas Light	Gas	Pipeline Replacement Program Cost Recovery Rider	Replacement of cast iron and bare steel pipe	Docket No. 29950 as STRIDE tracker in 2009
	, , , , , , , , , , , , , , , , , , ,		Rider Systems Modernization Projects, renamed Rider Advanced Metering	The state of the s	
IL	Commonwealth Edison	Electric	Pilot	AMI	Case 07-0566, Case 09-0263 Docket No. 09-0167 (January
IL	Peoples Gas Light & Coke Union Light, Heat and Power (Duke	Gas	Rider Incremental Cost Recovery	Replacement of cast iron and bare steel pipe	2010) Docket No. 2001-00092
KY	Energy Kentucky)	Gas	Advanced Main Replacement Rider	Replacement of cast iron and bare steel mains and services	(January 2002) Docket No. EO09010049 and
NJ	Atlantic City Electric	Electric	Infrastructure Investment Surcharge	Replacements Replace bare steel mains, reinforce distribution system &	GO09010054 (April 2009) Docket No. GO09010052 and
NJ	New Jersey Natural Gas	Gas	Accelerated Infrastructure Projects	transmission mains Replace bare steel mains, reinforce distribution system &	GR07110889 (April 2009) Docket No. GR10100793
NJ	New Jersey Natural Gas	Gas	Accelerated Infrastructure Projects II	transmission mains	(March 2011) Docket No. 08-G-1137 (March
NY	Corning Natural Gas	Gas	Delivery Rate Adjustment	Incremental additions	2009)
NY	NYSEG	Gas	Gas Cost Savings Incentive Mechanism	Infrastructure that reduces the cost of gas supply	Docket No. 01-G-1668 (November 2002)
				, , , , , , , , , , , , , , , , , , ,	0021-EL-ATA, 09-0022-EL- AEM, and 09-0023-EL-AAM
ОН	Cleveland Electric Illuminating	Electric	Delivery Service Improvement Rider	Distribution reliability	(March 2009)
			IGCC Surcharge		Case No. 05-376-EL-UNC
ОН	Columbus Southern Power	Electric	(Phase I only)	Early IGCC development	(April 2006)
			IGCC Surchage (Phase II)		Case No. 05-376-EL-UNC
ОН	Columbus Southern Power	Electric	IGCC Recovery Factor (Phase III)	IGCC	(June 2006)
ОН	Columbus Southern Power	Electric	Generation Cost Recovery Rider	Environmental	Case No. 07-63-EL-UNC (October 2007)
			Environmental Investment Carrying		
ОН	Columbus Southern Power	Electric	Charges (applies only to standard offer service customers)	Environmental	Case 08-917-EL-SSO (Octobe 2011)
					Case No. 08-0935-EL-SSO, 09
011	au nu				0021-EL-ATA, 09-0022-EL- AEM, and 09-0023-EL-AAM
ОН	Ohio Edison	Electric	Delivery Service Improvement Rider	Distribution reliability	(March 2009)
ОН	Ohio Power	Electric	Environmental Investment Carrying Charges (applies only to standard offer service customers)	Environmental	Case 08-917-EL-SSO (Octobe 2011)
OII	Ono rower	Electric	service customers)	Envaonnenan	Case No. 07-63-EL-UNC
ОН	Ohio Power	Electric	Generation Cost Recovery Rider	Environmental	(October 2007)
			IGCC Surcharge		Case No. 05-376-EL-UNC
ОН	Ohio Power	Electric	(Phase I only)	Early IGCC development	(April 2006)
			IGCC Surchage (Phase II)		Case No. 05-376-EL-UNC
OH	Ohio Power	Electric	IGCC Recovery Factor (Phase III)	IGCC	(June 2006) Case No. 08-0935-EL-SSO, 0
					0021-EL-ATA, 09-0022-EL- AEM, and 09-0023-EL-AAM
ОН	Toledo Edison	Electric	Delivery Service Improvement Rider	Distribution reliability	(March 2009)
OW	E I Divisi E I	Pl. C	C 3 ID D3	All: (1: ())	Cause No. PUD 201000033,
OK	Empire District Electric Oklahoma Gas & Electric	Electric	Capital Recovery Rider OU Spirit Rider	All incremental investment between rate cases	Order 577904 (August 2010) Cause No. 200900167, Order No. 571788 (October 2009)
OK OK	Oklahoma Gas & Electric Oklahoma Gas & Electric	Electric	OU Spirit Rider Smart Power Rider	OU Spirit Wind Farm Norman, Oklahoma pilot smart grid program	No. 5/1/88 (October 2009) Cause No. 200800398
	Public Service Company of				Cause No. 200900181 (Augus
OK	Oklahoma	Electric	Capital Investment Rider (CIR)	All incremental investment between rate cases	2009)
OR	Northwest Natural Gas	Gas	NA	AMI	Docket UM 1413, Order 09-10 (March 2009)
		_			Docket No. UM 1030, Order
OR	Northwest Natural Gas	Gas	Bare steel replacement program	Replacement of bare steel	No. 01-843 (September 2001) Docket UE 189, Order No. 08
OR	Portland General Electric	Electric	NA	AMI	245 (May 2008)
					Docket No. M-00031715 F000 (August 2006); Previously R-
PA	PPL Electric Utilities Narragansett Electric (gas	Electric	Energy Development Rider Accelerated Capital Replacement	Renewable interconnections Replacement of high pressure bare steel services inside	00973954 (May 14, 1998)
RI	operations)	Gas	Program NA: tracker included in the Expanded	customer premises	Docket No. 3943 (January 2009 Case No. 05-1278-E-PC-PW-
WV	Appalachian Power	Electric	Net Energy Cost Mechanism	Transmission line, Environmental	42T (July 2006)



Figure 3: Recent Capex Tracker Precedents by State: Water Utilities

Figure 4: Recent Electric Precedents for CWIP In Rate Base



Table 3 **CWIP in Rate Base: Recent Electric Retail Precedents**

Jurisdiction	Company	Year Approved	Type of Project	Reference
Colorado	Public Service of Colorado	2006	Transmission, generation	Docket No. 06S-234EG
Colorado	Legislation	2007	Transmission	Senate Bill 07-100
Florida	Rulemaking	2007	Nuclear and IGCC generation	Docket 060508-EL
Florida	Florida Power & Light	2008	Nuclear generation	Docket 080650-EL
Florida	Progress Energy Florida	2008	Nuclear generation	Docket 080148-EI
Georgia	Georgia Power	2009	Nuclear generation	Docket 27800
Indiana	General Policy		Environmental	
Indiana	Duke Energy Indiana	2007	IGCC generation	Docket No. 43114
Kansas	Legislation	2008	Nuclear generation	Senate Bill 586
Louisiana	Rulemaking	2007	Nuclear generation	Docket R-29712
Louisiana	Cleco Power	2006	Generation	Docket U-28765
Michigan	Legislation	2008	Significant capital projects	House Bill 5524
Minnesota	Northern States Power- MN	2004	Environmental	Docket No. M-02-633
Minnesota	Minnesota Power	2007	Transmission	Docket M-07-965
Mississippi	Mississippi Power	2001	All projects within 1 year of completion	Docket No. 01-UN-0548
New Mexico	Legislation	2009	All	Senate Bill 477
North Carolina	Duke Energy Carolinas	2009	Generation	Docket No. E-7, Sub 909
North Carolina	Legislation	2007	Generation	Senate Bill 3
North Dakota	Legislation	2007	Transmission, federally mandated environmental	Senate Bill 2031 & House Bill 1221
Ohio	Legislation	2008	New Generation, Environmental	SB 221
Oklahoma	Legislation	2005	Environmental, transmission	House Bill 1910
South Carolina	South Carolina Electric & Gas	2003	Generation	Docket No. 2002-223-E
South Carolina	South Carolina Electric & Gas	2009	Nuclear generation	Docket 2009-211-E
South Dakota	Legislation	2006/2007	Transmission, environmental	
Texas	Rulemaking	2005	All Transmission within ERCOT (conditional)	Project 28884
Virginia	Legislation	2007	Reliability-related, nuclear, renewables, new generation using Virginia coal	Senate Bill 1416
Virginia	Virginia Electric Power	2008	New generation using Virginia coal	PUE-2007-00066
West Virginia	Appalachian Power	2006	Transmission, environmental, IGCC generation	Case No. 05-1278-E-PC-PW-42T
West Virginia	Monongahela Power	2007	Environmental	Case No. 05-0750-E-PC
Wisconsin	Wisconsin Public Service	2000	Nuclear generation, transmission	Docket 6690-UR-112
Wisconsin	Wisconsin Public Service	2005	Generation	Docket 6690-UR-117
Wisconsin	Wisconsin Power & Light	2012	All Commission approved projects	Docket 6680-UR-118
Wisconsin	General Policy		Diverse operations	
Wyoming	Black Hills Power	2012	Generation	Docket 20002-84-ET-12
Wyoming	Cheyenne Light, Fuel, & Power	2012	Generation	Docket 20003-123-ET-12
,09	oneyerine Eight, ruei, a rower	2012	SS.ISIARON	255MG(20000 120-L1-12

III. Revenue Decoupling

We use the term revenue decoupling to describe a diverse set of rate treatments designed to facilitate recovery of allowed revenue. The link between a utility's revenue and its sales is thereby weakened. This reduces the utility's disincentive to promote energy efficiency and can alleviate the financial stress caused by DSM programs and declining average use. DSM programs to encourage energy efficiency and discourage load peakedness can yield large cost savings for customers. Three approaches to decoupling are well established: decoupling true up plans, lost revenue adjustment mechanisms ("LRAMs"), and fixed variable pricing.

A. Decoupling True Up Plans

Decoupling true up plans adjust rates periodically to ensure that a utility's actual revenue tracks the revenue allowed by regulators. Most decoupling true up plans have two basic components; a revenue decoupling mechanism ("RDM") and an allowed revenue adjustment mechanism ("RAM"). The RDM tracks variances between actual and allowed revenue and makes periodic true ups. To the extent that recovery of allowed revenue is achieved, utilities can use rate designs more aggressively to promote DSM goals.

Decoupling true ups may be made annually or more frequently. More frequent adjustments cause actual and allowed revenue each year to correlate better so that rates fluctuate less from year to year. The size of the true up that is permitted in a given year is sometimes capped. A "soft" cap permits utilities to defer for later recovery any account balances that cannot be recovered immediately.

RDMs vary in the scope of utility 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 distribution base rate revenue and are usually the primary focus of DSM programs. RDMs also vary in terms of the service classes for which revenues are pooled for true up purposes. In some plans all service classes are placed in the same "basket". Other plans have multiple baskets. These insulate customers of services in each basket from changes in demands 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 weather normalized revenue and allowed revenue. An RDM that instead accounts for all sources of demand variance is called a "full" decoupling mechanism. Full decoupling provides more encouragement for rate design experimentation.

The RAM component of a decoupling true up plan escalates allowed revenue between rate cases. Virtually all decoupling true up plans have some kind of RAM because if allowed revenue is static the utility will experience financial attrition as its costs rise. Utilities that do not have RAMs in their decoupling true up plans often file annual rate cases.

Some RAMs are "broad-based" in the sense that they provide enough revenue growth to compensate the utility for several kinds of cost pressures. Broad-based RAMs are essentially the same thing as the revenue cap escalators that we discuss below in the section on multiyear rate plans. When RAMs are not broadbased, utilities usually retain the right to file rate cases during the decoupling plan and frequently do file. The revenue per customer ("RPC") freeze is a popular approach to RAM design. Allowed revenue grows at the same gradual pace as customer growth. An RPC freeze is not a broad-based RAM and will enhance expected revenue growth only when average use is expected to decline.

True up plans are the most popular approach to revenue decoupling in the United States. States that have tried gas and electric decoupling true up plans are indicated on the maps below in Figures 5a and 5b, respectively. Decoupling true up plan precedents in the United States and Canada are detailed in Table 4. It can be seen that there are more plans for gas utilities than for electric utilities. This reflects the fact that gas distributors have been much more likely to experience declining average use. Decoupling true up plans are nonetheless operative for a number of electric utilities in states with large DSM programs. Note also that RAMs for electric utilities are frequently broad-based, whereas most RAMs for gas distributors are revenue per customer freezes.

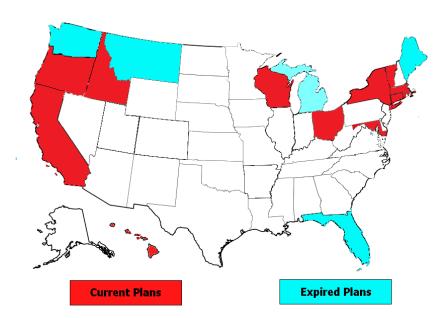


Figure 5a: Electric Decoupling True up Plans by State

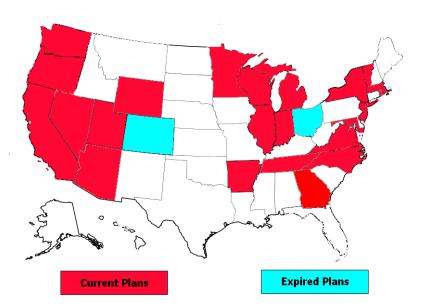


Figure 5b: Gas Decoupling True up Plans by State

Table 4 **Decoupling True Up Plan Precedents**

			•		
Jurisdiction	Company Name	Services	Plan Years	Revenue Adjustment Mechanism	Case Reference
		C	urrent		
Canada			2012 2017	nna. I	D :: 0040.000
AB	Altagas Utilities	Gas	2013-2017	RPC Index	Decision 2012-237
AB	ATCO Gas	Gas	2013-2017	RPC Index	Decision 2012-237
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	2012-2013	Stairstep	Order G-44-12
BC	Pacific Northern Gas	Gas	2003-open	RPC Freeze	N/A
БС	Tuelle Hordielli Gus	Gus	2008-2012, extended	KI C TIOZZ	14/1
ON	Union Gas	Gas	through 2013	RPC Index through 2012, RPC Freeze for 2013	Docket EB-2007-0606
Inited States					
AR	CenterPoint Energy	Gas	2008-2015	No RAM but broad-based capex tracker	Dockets 06-161-U, 11-088-0
AR	Arkansas Oklahoma Gas	Gas	2007-2013	No RAM	Dockets 07-026-U, 07-077-T
AR	Arkansas Western	Gas	2007-2013	No RAM	Docket 07-078-TF
AZ	Southwest Gas	Gas	2012-open	RPC Freeze	Docket No. G-01551A-10-04
CA	California Pacific Electric	Electric	2013-2015	Indexing	Decision 12-11-030
CA	Pacific Gas & Electric	Gas & Electric	2011-2013	Stairstep	Decision 11-05-018
CA	Southwest Gas	Gas	2009-2013	Stairstep	Decision 08-11-048
CA	Southern California Edison	Electric	2012-2014	Hybrid	Decision 12-11-051
CA	Southern California Gas	Gas	2008-2011	Stairstep	Decision 08-07-046
CA	San Diego Gas & Electric	Gas & Electric	2008-2011	Stairstep	Decision 08-07-046
CT	United Illuminating	Electric	2009-open	Stairstep until 2011/No RAM for 2011 onwards	Docket No. 08-07-04
DC	Potomac Electric Power	Electric	2010-open	RPC Freeze	Order 15556
GA	Atmos Energy	Gas	2012-open	No RAM but FRP type mechanism also in effect	Docket No. 34734
	-		•		
HI	Hawaiian Electric Company	Electric	2011-open	Hybrid	0083
HI	Hawaiian Electric Light Company	Electric	2012-open	Hybrid	Docket No. 2008-0274, 2009
HI	Maui Electric	Electric	2012-open	Hybrid	Dockets 2008-0274, 2009-01
ID	Idaho Power	Electric	2012-open	RPC Freeze	Case No. IPC-E-11-19
IL	North Shore Gas	Gas	2012-open	No RAM	Case 11-0280
IL	Peoples Gas Light & Coke	Gas	2012-open	No RAM	Case 11-0281
IN	Indiana Gas	Gas	2011-2015	RPC Freeze	Cause No. 44019
IN	Vectren Southern Indiana	Gas	2011-2015	RPC Freeze	Cause No. 44019
IN	Citizens Gas	Gas	2007-open	RPC Freeze	Cause No. 42767
MA	Fitchburg Gas & Electric	Gas	2011-open	RPC Freeze	DPU 11-02
MA	Fitchburg Gas & Electric	Electric	2011-open	No RAM	DPU 11-01
MA	New England Gas	Gas	2011-open	RPC Freeze	DPU-10-114
	Western Massachusetts Electric	Electric		No RAM	DPU 10-70
MA			2011-open		
MA	Massachusetts Electric	Electric	2010-open	No RAM but broad-based capex tracker	DPU 09-39
MA	Bay State Gas	Gas	2009-open	RPC Freeze	DPU 09-30
MA	Boston-Essex Gas	Gas	2010-open	RPC Freeze	DPU 10-55
MA	Colonial Gas	Gas	2010-open	RPC Freeze	DPU 10-55
			_		
MD	Baltimore Gas & Electric	Electric	2008-open	RPC Freeze	Letter Orders ML 108069, 108
MD	Delmarva Power & Light	Electric	2007-open	RPC Freeze	Order No. 81518
MD	Potomac Electric Power	Electric	2007-open	RPC Freeze	Order No. 81517
MD	Chesapeake Utilities	Gas	2006-open	RPC Freeze	Order No. 81054
MD	Washington Gas Light	Gas	2005-open	RPC Freeze	Order No. 80130
MD	Baltimore Gas & Electric	Gas	1998-open	RPC Freeze	Case No. 8780
MI MI	Michigan Consolidated Gas Michigan Gas Utilities	Gas Gas	2013-open 2010-open	No RAM RPC Freeze	Case No. U-16999 Case No. U-15990
	•		_		
MN MN	Minnesota Energy Resources CenterPoint Energy	Gas Gas	2012-2015 2010-2013	RPC Freeze RPC Freeze	GR-10-977 GR-08-1075
NC	Public Service Co of NC	Gas	2008-open	RPC Freeze	Docket No. G-5, Sub 495
NC	Piedmont Natural Gas	Gas	2008-open	RPC Freeze	Docket No. G-9, Sub 550
NJ NJ	New Jersey Natural Gas South Jersey Gas	Gas Gas	2010-2013 2010-2013	RPC Freeze RPC Freeze	Docket GR05121020 Docket GR05121019
		Gas	2009-open	RPC Freeze	D-09-04003
NV	Southwest Gas				
NV			2012-onen	RPC Freeze	Case 08-G-1398
NV NY	Orange & Rockland Utilities	Gas	2012-open 2012-2015	RPC Freeze	Case 08-G-1398 Case 11-G-0280
NV NY NY	Orange & Rockland Utilities Corning Natural Gas	Gas Gas	2012-2015	RPC Stairstep	Case 11-G-0280
NV NY NY NY	Orange & Rockland Utilities Corning Natural Gas Orange & Rockland Utilities	Gas Gas Electric	2012-2015 2012-2015	RPC Stairstep Stairstep	Case 11-G-0280 Case 11-E-0408
NV NY NY NY NY	Orange & Rockland Utilities Corning Natural Gas Orange & Rockland Utilities Niagara Mohawk	Gas Gas Electric Electric	2012-2015 2012-2015 2011-open	RPC Stairstep Stairstep No RAM	Case 11-G-0280 Case 11-E-0408 Case 10-E-0050
NV NY NY NY	Orange & Rockland Utilities Corning Natural Gas Orange & Rockland Utilities	Gas Gas Electric	2012-2015 2012-2015	RPC Stairstep Stairstep	Case 11-G-0280 Case 11-E-0408

Table 4 (continued) Decoupling True Up Plan Precedents

			•		
risdiction	Company Name	Services	Plan Years	Revenue Adjustment Mechanism	Case Reference
NY	Consolidated Edison	Gas	2010-2013	RPC Stairstep	Case 09-G-0795
NY	Consolidated Edison	Electric	2010-2013	Stairstep	Case 09-E-0428
NY	Central Hudson G&E	Gas & Electric	2010-2013	RPC Stairstep for Gas, Stairstep for Electric	Case 09-E-0588
	***************************************			RPC Stairstep through 2012, RPC Freeze After	
NY	Keyspan Energy Delivery - Long Island	Gas	2010-open	2012	Case 06-G-1186
	recyopun Energy Benvery Long Island	ous.	2010 open	RPC Stairstep through 2012, RPC Freeze After	0450 00 0 1100
NY	Keyspan Energy Delivery - New York	Gas	2010-open	2012	Case 06-G-1185
NY	Niagara Mohawk	Gas	2009-open	RPC Freeze	Case 08-G-0609
NY	National Fuel Gas	Gas		RPC Freeze	Case 07-G-0141
141	National Fuel Gas	Gas	2008-open	KFC FIEEZE	Case 07-0-0141
ОН	AEP Ohio	Electric	2012-2015	RPC Freeze	Case 11-351-EL-AIR
	Duke Energy Ohio				
ОН	Duke Energy Onio	Electric	2012-2014	RPC Freeze	Case 11-5905-EL-RDR
OR	Northwest Natural Gas	Gas	2012	RPC Freeze	Ordon No. 12 409
			2012-open		Order No. 12-408
OR	Portland General Electric	Electric	2011-2013	RPC Freeze	Order No. 10-478
OR	Cascade Natural Gas	Gas	2007-2012	RPC Freeze	Order No. 06-191
DI	N	Florenia	2012	No DAM but haved been decreased as	D1+ 1206
RI	Narragansett Electric	Electric	2012-open	No RAM but broad-based capex tracker	Docket 4206
RI	Narragansett Electric	Gas	2012-open	RPC Freeze	Docket 4206
777	at a		2010 2012	nna n	D 1
TN	Chattanooga Gas	Gas	2010-2013	RPC Freeze	Docket 09-0183
****			****	nna n	D 1 37 00 000 16
UT	Questar Gas	Gas	2010-open	RPC Freeze	Docket No. 09-057-16
VA	Washington Gas Light	Gas	2010-2013	RPC Freeze	Case No. PUE-2009-00064
VA	Columbia Gas of Virginia	Gas	2013-2015	RPC Freeze	Case No. PUE-2012-00013
WA	Avista	Gas	2013-2014	Stairstep	Docket UG-120437
WI	Wisconsin Public Service	Gas & Electric	2013-open	No RAM	Docket 6690-UR-121
WY	Questar Gas	Gas	2012-open	RPC Freeze	Docket 30010-113-GR-11
WY	SourceGas Distribution	Gas	2011-open	RPC Freeze	Docket 30022-148-GR-10
		ŀ	listoric		
		H	Historic		
da		ŀ	Historic		
da		ŀ	Historic		
da BC	BC Hydro	F Electric	Historic 2011	No RAM	Order G-180-10
	BC Hydro BC Hydro		2011		Order G-180-10 Order G-16-09
BC BC	BC Hydro	Electric Electric	2011 2009-2010	Stairstep	Order G-16-09
BC BC BC	BC Hydro Terasen Gas	Electric Electric Gas	2011 2009-2010 2010-2011	Stairstep Stairstep	Order G-16-09 Order G-141-09
BC BC BC BC	BC Hydro Terasen Gas Terasen Gas	Electric Electric Gas Gas	2011 2009-2010 2010-2011 2008-2009	Stairstep Stairstep Hybrid	Order G-16-09 Order G-141-09 Order G-33-07
BC BC BC BC	BC Hydro Terasen Gas Terasen Gas Terasen Gas	Electric Electric Gas Gas Gas	2011 2009-2010 2010-2011 2008-2009 2004-2007	Stairstep Stairstep Hybrid Hybrid	Order G-16-09 Order G-141-09 Order G-33-07 Order G-51-03
BC BC BC BC BC	BC Hydro Terasen Gas Terasen Gas Terasen Gas BC Gas	Electric Electric Gas Gas Gas Gas	2011 2009-2010 2010-2011 2008-2009 2004-2007 2000-2001	Stairstep Stairstep Hybrid Hybrid Hybrid	Order G-16-09 Order G-141-09 Order G-33-07 Order G-51-03 Order G-48-00
BC BC BC BC	BC Hydro Terasen Gas Terasen Gas Terasen Gas	Electric Electric Gas Gas Gas	2011 2009-2010 2010-2011 2008-2009 2004-2007	Stairstep Stairstep Hybrid Hybrid	Order G-16-09 Order G-141-09 Order G-33-07 Order G-51-03
BC BC BC BC BC BC	BC Hydro Terasen Gas Terasen Gas Terasen Gas BC Gas BC Gas	Electric Electric Gas Gas Gas Gas Gas	2011 2009-2010 2010-2011 2008-2009 2004-2007 2000-2001 1998-2000	Stairstep Stairstep Hybrid Hybrid Hybrid Hybrid	Order G-16-09 Order G-141-09 Order G-33-07 Order G-51-03 Order G-48-00 Order G-85-97
BC BC BC BC BC	BC Hydro Terasen Gas Terasen Gas Terasen Gas BC Gas	Electric Electric Gas Gas Gas Gas	2011 2009-2010 2010-2011 2008-2009 2004-2007 2000-2001	Stairstep Stairstep Hybrid Hybrid Hybrid	Order G-16-09 Order G-141-09 Order G-33-07 Order G-51-03 Order G-48-00
BC BC BC BC BC BC ON	BC Hydro Terasen Gas Terasen Gas Terasen Gas BC Gas BC Gas	Electric Electric Gas Gas Gas Gas Gas	2011 2009-2010 2010-2011 2008-2009 2004-2007 2000-2001 1998-2000	Stairstep Stairstep Hybrid Hybrid Hybrid Hybrid	Order G-16-09 Order G-141-09 Order G-33-07 Order G-51-03 Order G-48-00 Order G-85-97
BC BC BC BC BC BC	BC Hydro Terasen Gas Terasen Gas Terasen Gas BC Gas BC Gas	Electric Electric Gas Gas Gas Gas Gas	2011 2009-2010 2010-2011 2008-2009 2004-2007 2000-2001 1998-2000	Stairstep Stairstep Hybrid Hybrid Hybrid Hybrid	Order G-16-09 Order G-141-09 Order G-33-07 Order G-51-03 Order G-48-00 Order G-85-97
BC BC BC BC BC BC BC ON	BC Hydro Terasen Gas Terasen Gas Terasen Gas BC Gas BC Gas Enbridge Gas Distribution	Electric Electric Gas Gas Gas Gas Gas Gas Gas	2011 2009-2010 2010-2011 2008-2009 2004-2007 2000-2001 1998-2000 2008-2012	Stairstep Stairstep Hybrid Hybrid Hybrid Hybrid RPC Index	Order G-16-09 Order G-141-09 Order G-33-07 Order G-51-03 Order G-48-00 Order G-85-97 Docket EB-2007-0615
BC BC BC BC BC BC BC ON	BC Hydro Terasen Gas Terasen Gas Terasen Gas BC Gas BC Gas Enbridge Gas Distribution	Electric Electric Gas Gas Gas Gas Gas Gas Gas Gas	2011 2009-2010 2010-2011 2008-2009 2004-2007 2000-2001 1998-2000 2008-2012	Stairstep Stairstep Hybrid Hybrid Hybrid Hybrid RPC Index	Order G-16-09 Order G-141-09 Order G-33-07 Order G-51-03 Order G-48-00 Order G-85-97 Docket EB-2007-0615
BC BC BC BC BC BC BC ON	BC Hydro Terasen Gas Terasen Gas Terasen Gas BC Gas BC Gas Enbridge Gas Distribution	Electric Electric Gas Gas Gas Gas Gas Gas Gas Gas Electric Gas & Electric	2011 2009-2010 2010-2011 2008-2009 2004-2007 2000-2001 1998-2000 2008-2012	Stairstep Stairstep Hybrid Hybrid Hybrid RPC Index Stairstep Indexing	Order G-16-09 Order G-141-09 Order G-33-07 Order G-51-03 Order G-48-00 Order G-85-97 Docket EB-2007-0615
BC BC BC BC BC BC BC CON d States CA CA	BC Hydro Terasen Gas Terasen Gas Terasen Gas BC Gas BC Gas BC Gas Enbridge Gas Distribution Pacific Gas & Electric Pacific Gas & Electric Pacific Gas & Electric	Electric Electric Gas Gas Gas Gas Gas Gas Gas Gas Electric Gas & Electric Gas & Electric	2011 2009-2010 2010-2011 2008-2009 2004-2007 2000-2001 1998-2000 2008-2012 2007-2010 2004-2006 1993-1995	Stairstep Stairstep Hybrid Hybrid Hybrid Hybrid Hybrid RPC Index Stairstep Indexing Hybrid	Order G-16-09 Order G-141-09 Order G-33-07 Order G-33-07 Order G-48-00 Order G-85-97 Docket EB-2007-0615 Decision 07-03-044 Decision 04-05-055 Decision 92-12-057
BC BC BC BC BC BC BC BC CA CA CA CA	BC Hydro Terasen Gas Terasen Gas Terasen Gas BC Gas BC Gas BC Gas Enbridge Gas Distribution Pacific Gas & Electric Pacific Gas & Electric Pacific Gas & Electric Pacific Gas & Electric	Electric Electric Gas Gas Gas Gas Gas Gas Gas Gas Gas Electric Gas & Electric Electric Electric	2011 2009-2010 2010-2011 2008-2009 2004-2007 2000-2001 1998-2000 2008-2012 2007-2010 2004-2006 1993-1995 1990-1992	Stairstep Stairstep Hybrid Hybrid Hybrid Hybrid RPC Index Stairstep Indexing Hybrid Hybrid	Order G-16-09 Order G-141-09 Order G-33-07 Order G-33-07 Order G-48-00 Order G-85-97 Docket EB-2007-0615 Decision 07-03-044 Decision 04-05-055 Decision 92-12-057 Decision 89-12-057
BC BC BC BC BC BC BC CON CON CON CON CON CON CON CON CON CO	BC Hydro Terasen Gas Terasen Gas Terasen Gas BC Gas BC Gas BC Gas Enbridge Gas Distribution Pacific Gas & Electric	Electric Electric Gas Gas Gas Gas Gas Gas Gas Gas Electric Gas & Electric Gas & Electric Electric Electric	2011 2009-2010 2010-2011 2008-2009 2004-2007 2000-2001 1998-2000 2008-2012 2007-2010 2004-2006 1993-1995 1990-1992 1986-1989	Stairstep Stairstep Hybrid Hybrid Hybrid Hybrid RPC Index Stairstep Indexing Hybrid Hybrid	Order G-16-09 Order G-141-09 Order G-33-07 Order G-33-07 Order G-48-00 Order G-85-97 Docket EB-2007-0615 Decision 07-03-044 Decision 94-05-055 Decision 92-12-057 Decision 85-12-076
BC BC BC BC BC BC ON d States CA CA CA CA CA	BC Hydro Terasen Gas Terasen Gas Terasen Gas BC Gas BC Gas BC Gas Enbridge Gas Distribution Pacific Gas & Electric	Electric Electric Gas Gas Gas Gas Gas Gas Gas Gas Electric Gas & Electric Electric Electric Electric Electric	2011 2009-2010 2010-2011 2008-2009 2004-2007 2000-2001 1998-2000 2008-2012 2007-2010 2004-2006 1993-1995 1990-1992 1986-1989 1984-1985	Stairstep Stairstep Hybrid Hybrid Hybrid Hybrid RPC Index Stairstep Indexing Hybrid Hybrid Hybrid	Order G-16-09 Order G-141-09 Order G-33-07 Order G-33-07 Order G-48-00 Order G-48-00 Order G-85-97 Docket EB-2007-0615 Decision 07-03-044 Decision 04-05-055 Decision 92-12-057 Decision 85-12-057 Decision 83-12-068
BC BC BC BC BC BC BC CA CA CA CA CA CA CA CA CA	BC Hydro Terasen Gas Terasen Gas Terasen Gas BC Gas BC Gas BC Gas Enbridge Gas Distribution Pacific Gas & Electric	Electric Electric Gas Gas Gas Gas Gas Gas Gas Gas Electric Gas & Electric	2011 2009-2010 2010-2011 2008-2009 2004-2007 2000-2001 1998-2000 2008-2012 2007-2010 2004-2006 1993-1995 1990-1992 1986-1989 1984-1985 1982-1983	Stairstep Stairstep Hybrid Hybrid Hybrid Hybrid RPC Index Stairstep Indexing Hybrid Hybrid Hybrid Hybrid Hybrid	Order G-16-09 Order G-141-09 Order G-33-07 Order G-33-07 Order G-48-00 Order G-48-00 Order G-85-97 Docket EB-2007-0615 Decision 07-03-044 Decision 04-05-055 Decision 92-12-057 Decision 83-12-057 Decision 83-12-068 Decision 93-887
BC BC BC BC BC BC BC ON d States CA	BC Hydro Terasen Gas Terasen Gas Terasen Gas BC Gas BC Gas BC Gas Enbridge Gas Distribution Pacific Gas & Electric	Electric Electric Gas Gas Gas Gas Gas Gas Gas Gas Gas Electric Gas & Electric Electric Electric Electric Electric Electric Electric Gas & Electric	2011 2009-2010 2010-2011 2008-2009 2004-2007 2000-2001 1998-2000 2008-2012 2007-2010 2004-2006 1993-1995 1990-1992 1986-1989 1984-1985 1982-1983	Stairstep Stairstep Hybrid Hybrid Hybrid Hybrid RPC Index Stairstep Indexing Hybrid Hybrid Hybrid Hybrid Hybrid Hybrid Hybrid Hybrid Hybrid No RAM	Order G-16-09 Order G-141-09 Order G-33-07 Order G-33-07 Order G-48-00 Order G-85-97 Docket EB-2007-0615 Decision 07-03-044 Decision 94-05-055 Decision 92-12-057 Decision 89-12-057 Decision 85-12-076 Decision 83-12-068 Decision 93887 Decision 89316, 91107
BC BC BC BC BC BC ON d States CA CA CA CA CA CA CA CA CA	BC Hydro Terasen Gas Terasen Gas Terasen Gas BC Gas BC Gas BC Gas Enbridge Gas Distribution Pacific Gas & Electric	Electric Electric Gas Gas Gas Gas Gas Gas Gas Gas Gas Electric Gas & Electric	2011 2009-2010 2010-2011 2008-2009 2004-2007 2000-2001 1998-2000 2008-2012 2007-2010 2004-2006 1993-1995 1990-1992 1986-1989 1984-1985 1982-1983 1978-1981	Stairstep Stairstep Hybrid Hybrid Hybrid Hybrid RPC Index Stairstep Indexing Hybrid No RAM Stairstep	Order G-16-09 Order G-141-09 Order G-33-07 Order G-33-07 Order G-48-00 Order G-48-00 Order G-85-97 Docket EB-2007-0615 Decision 07-03-044 Decision 04-05-055 Decision 92-12-057 Decision 85-12-076 Decision 83-12-068 Decision 89387 Decisions 89316, 91107 Decision 89-09-034
BC BC BC BC BC BC ON d States CA	BC Hydro Terasen Gas Terasen Gas Terasen Gas BC Gas BC Gas BC Gas Enbridge Gas Distribution Pacific Gas & Electric	Electric Electric Gas	2011 2009-2010 2010-2011 2008-2009 2004-2007 2000-2001 1998-2000 2008-2012 2007-2010 2004-2006 1993-1995 1990-1992 1986-1989 1984-1985 1982-1983 1978-1981 1984-1985	Stairstep Stairstep Hybrid Hybrid Hybrid Hybrid Hybrid RPC Index Stairstep Indexing Hybrid Hybrid Hybrid Hybrid Hybrid Hybrid Hybrid Hybrid Hybrid Stairstep Indexing Hybrid Hybrid	Order G-16-09 Order G-141-09 Order G-33-07 Order G-33-07 Order G-48-00 Order G-48-00 Order G-85-97 Docket EB-2007-0615 Decision 07-03-044 Decision 04-05-055 Decision 92-12-057 Decision 89-12-057 Decision 83-12-068 Decision 89-18-068 Decision 89-12-068 Decision 89-19-034 Decision 89-09-034 Decision 99-03-025
BC BC BC BC BC BC ON d States CA	BC Hydro Terasen Gas Terasen Gas Terasen Gas BC Gas BC Gas BC Gas Enbridge Gas Distribution Pacific Gas & Electric San Diego Gas & Electric San Diego Gas & Electric	Electric Electric Gas	2011 2009-2010 2010-2011 2008-2009 2004-2007 2000-2001 1998-2000 2008-2012 2008-2012 2004-2006 1993-1995 1990-1992 1986-1989 1984-1985 1982-1983 1978-1981 1984-1985 2005-2007 1994-1999	Stairstep Stairstep Hybrid Hybrid Hybrid Hybrid RPC Index Stairstep Indexing Hybrid No RAM Stairstep Indexing Hybrid	Order G-16-09 Order G-141-09 Order G-33-07 Order G-33-07 Order G-48-00 Order G-48-00 Order G-85-97 Docket EB-2007-0615 Decision 07-03-044 Decision 94-05-055 Decision 92-12-057 Decision 89-12-057 Decision 85-12-076 Decision 85-12-076 Decision 83-12-068 Decision 93887 Decision 89316, 91107 Decision 89-09-034 Decision 95-03-025 Decision 94-08-023
BC BC BC BC BC BC ON d States CA	BC Hydro Terasen Gas Terasen Gas Terasen Gas BC Gas BC Gas BC Gas Enbridge Gas Distribution Pacific Gas & Electric San Diego Gas & Electric	Electric Electric Gas	2011 2009-2010 2010-2011 2008-2009 2004-2007 2000-2001 1998-2000 2008-2012 2007-2010 2004-2006 1993-1995 1990-1992 1986-1989 1984-1985 1982-1983 1978-1981 1984-1985 2005-2007 1994-1999	Stairstep Stairstep Hybrid Hybrid Hybrid Hybrid Hybrid RPC Index Stairstep Indexing Hybrid No RAM Stairstep Indexing Hybrid Hybrid	Order G-16-09 Order G-141-09 Order G-33-07 Order G-33-07 Order G-48-00 Order G-48-00 Order G-85-97 Docket EB-2007-0615 Decision 07-03-044 Decision 04-05-055 Decision 92-12-057 Decision 85-12-076 Decision 85-12-076 Decision 85-12-076 Decision 85-12-076 Decision 85-12-076 Decision 85-12-076 Decision 89-12-057 Decision 85-12-076 Decision 85-12-076 Decision 93-887 Decision 93-03-03-025 Decision 94-08-023 Decision 94-10-68
BC BC BC BC BC BC ON d States CA	BC Hydro Terasen Gas Terasen Gas Terasen Gas BC Gas BC Gas BC Gas Enbridge Gas Distribution Pacific Gas & Electric San Diego Gas & Electric	Electric Electric Gas	2011 2009-2010 2010-2011 2008-2009 2004-2007 2000-2001 1998-2000 2008-2012 2007-2010 2004-2006 1993-1995 1990-1992 1986-1989 1984-1985 1982-1983 1978-1981 1984-1985 2005-2007 1994-1999 1989-1993	Stairstep Stairstep Hybrid Hybrid Hybrid Hybrid Hybrid RPC Index Stairstep Indexing Hybrid No RAM Stairstep Indexing Hybrid Hybrid No WAM Stairstep Indexing Hybrid Hybrid Hybrid	Order G-16-09 Order G-141-09 Order G-33-07 Order G-33-07 Order G-48-00 Order G-48-00 Order G-85-97 Docket EB-2007-0615 Decision 07-03-044 Decision 04-05-055 Decision 92-12-057 Decision 85-12-057 Decision 85-12-076 Decision 83-12-068 Decision 89-18-068 Decision 89-19-052 Decision 89-09-034 Decision 93-09-034 Decision 89-09-034 Decision 93-09-034 Decision 93-09-034 Decision 93-09-034 Decision 93-09-034 Decision 89-11-068 Decision 89-11-068 Decision 85-12-108
BC BC BC BC BC BC ON d States CA	BC Hydro Terasen Gas Terasen Gas Terasen Gas BC Gas BC Gas BC Gas Enbridge Gas Distribution Pacific Gas & Electric San Diego Gas & Electric	Electric Electric Gas	2011 2009-2010 2010-2011 2008-2009 2004-2007 2000-2001 1998-2000 2008-2012 2007-2010 2004-2006 1993-1995 1990-1992 1986-1983 1984-1985 2005-2007 1994-1999 1989-1993 1986-1988	Stairstep Stairstep Hybrid Hybrid Hybrid Hybrid Hybrid RPC Index Stairstep Indexing Hybrid No RAM Stairstep Indexing Hybrid No WAM Stairstep Indexing Hybrid Hybrid Hybrid Hybrid Hybrid Hybrid Hybrid Hybrid Hybrid	Order G-16-09 Order G-141-09 Order G-33-07 Order G-33-07 Order G-48-00 Order G-48-00 Order G-85-97 Docket EB-2007-0615 Decision 07-03-044 Decision 04-05-055 Decision 92-12-057 Decision 89-12-057 Decision 85-12-076 Decision 85-12-076 Decision 89-10-084 Decision 89-09-034 Decision 89-09-034 Decision 94-08-023 Decision 89-11-068 Decision 89-11-068 Decision 89-11-068 Decision 89-11-068 Decision 89-11-068 Decision 89-11-068
BC BC BC BC BC BC ON d States CA	BC Hydro Terasen Gas Terasen Gas Terasen Gas BC Gas BC Gas BC Gas Enbridge Gas Distribution Pacific Gas & Electric San Diego Gas & Electric	Electric Electric Gas	2011 2009-2010 2010-2011 2008-2009 2004-2007 2000-2001 1998-2000 2008-2012 2007-2010 2004-2006 1993-1995 1990-1992 1986-1989 1984-1985 1982-1983 1978-1981 1984-1985 2005-2007 1994-1999 1989-1993 1986-1988 1982-1983	Stairstep Stairstep Hybrid Hybrid Hybrid Hybrid Hybrid RPC Index Stairstep Indexing Hybrid No RAM Stairstep Indexing Hybrid	Order G-16-09 Order G-141-09 Order G-33-07 Order G-33-07 Order G-33-07 Order G-48-00 Order G-48-00 Order G-85-97 Docket EB-2007-0615 Decision 07-03-044 Decision 94-05-055 Decision 92-12-057 Decision 89-12-057 Decision 85-12-076 Decision 83-12-068 Decision 93-12-068 Decision 93-09-034 Decision 95-03-025 Decision 95-03-025 Decision 94-08-023 Decision 94-08-023 Decision 95-12-108 Decision 95-03-025 Decision 95-12-108 Decision 93-09-03-025
BC BC BC BC BC BC ON d States CA	BC Hydro Terasen Gas Terasen Gas Terasen Gas BC Gas BC Gas BC Gas Enbridge Gas Distribution Pacific Gas & Electric San Diego Gas & Electric	Electric Electric Gas	2011 2009-2010 2010-2011 2008-2009 2004-2007 2000-2001 1998-2000 2008-2012 2007-2010 2004-2006 1993-1995 1990-1992 1986-1989 1984-1985 1982-1983 1978-1981 1984-1985 2005-2007 1994-1999 1989-1993 1986-1988 1982-1983 2009-2011 2006-2008	Stairstep Stairstep Hybrid Hybrid Hybrid Hybrid Hybrid RPC Index Stairstep Indexing Hybrid Stairstep Indexing Hybrid	Order G-16-09 Order G-141-09 Order G-33-07 Order G-33-07 Order G-48-00 Order G-48-00 Order G-85-97 Docket EB-2007-0615 Decision 07-03-044 Decision 04-05-055 Decision 92-12-057 Decision 89-12-057 Decision 89-12-068 Decision 93-12-068 Decision 89-12-068 Decision 89-12-069 Decision 89-12-069 Decision 89-12-069 Decision 89-10-068 Decision 93-03-025 Decision 94-08-023 Decision 93-11-068 Decision 93-12-108 Decision 93-03-025 Decision 09-03-025 Decision 09-03-025 Decision 06-05-016
BC BC BC BC BC BC BC ON d States CA	BC Hydro Terasen Gas Terasen Gas Terasen Gas BC Gas BC Gas BC Gas Enbridge Gas Distribution Pacific Gas & Electric San Diego Gas & Electric Southern California Edison Southern California Edison	Electric Electric Gas	2011 2009-2010 2010-2011 2008-2009 2004-2007 2000-2001 1998-2000 2008-2012 2007-2010 2004-2006 1993-1995 1990-1992 1986-1983 1984-1985 2005-2007 1994-1999 1989-1993 1986-1988 1982-1983 2009-2011 2006-2008 2004-2006	Stairstep Stairstep Hybrid Hybrid Hybrid Hybrid Hybrid RPC Index Stairstep Indexing Hybrid No RAM Stairstep Indexing Hybrid Hybrid Hybrid Hybrid Stairstep Hybrid	Order G-16-09 Order G-141-09 Order G-33-07 Order G-33-07 Order G-33-07 Order G-48-00 Order G-48-00 Order G-85-97 Docket EB-2007-0615 Decision 07-03-044 Decision 04-05-055 Decision 92-12-057 Decision 89-12-057 Decision 89-12-076 Decision 83-12-068 Decision 83-12-068 Decision 89-09-034 Decision 89-09-034 Decision 99-09-03-025 Decision 99-11-068 Decision 98-11-068 Decision 98-11-068 Decision 99-03-025 Decision 09-03-025 Decision 09-03-025 Decision 09-03-025 Decision 06-05-016 Decision 04-07-022
BC BC BC BC BC BC ON d States CA	BC Hydro Terasen Gas Terasen Gas Terasen Gas BC Gas BC Gas BC Gas Enbridge Gas Distribution Pacific Gas & Electric San Diego Gas & Electric Southern California Edison Southern California Edison Southern California Edison	Electric Electric Gas	2011 2009-2010 2010-2011 2008-2009 2004-2007 2000-2001 1998-2000 2008-2012 2007-2010 2004-2006 1993-1995 1990-1992 1986-1989 1984-1985 1982-1983 1978-1981 1984-1985 2005-2007 1994-1999 1989-1993 1986-1988 1982-1983 2005-2011 2006-2008	Stairstep Stairstep Hybrid Hybrid Hybrid Hybrid Hybrid RPC Index Stairstep Indexing Hybrid No RAM Stairstep Indexing Hybrid Stairstep Hybrid Stairstep Hybrid	Order G-16-09 Order G-141-09 Order G-33-07 Order G-33-07 Order G-48-00 Order G-48-00 Order G-85-97 Docket EB-2007-0615 Decision 07-03-044 Decision 94-05-055 Decision 92-12-057 Decision 89-12-057 Decision 85-12-076 Decision 85-12-076 Decision 83-12-068 Decision 93-12-068 Decision 94-08-023 Decision 95-09-034 Decision 95-09-034 Decision 95-11-068 Decision 95-12-108 Decision 95-12-108 Decision 95-01-055 Decision 90-03-025 Decision 09-03-025 Decision 09-03-025 Decision 09-03-025 Decision 09-03-025 Decision 09-03-025 Decision 04-07-022 Decision 02-04-055
BC BC BC BC BC BC ON d States CA	BC Hydro Terasen Gas Terasen Gas Terasen Gas BC Gas BC Gas BC Gas Enbridge Gas Distribution Pacific Gas & Electric San Diego Gas & Electric Southern California Edison	Electric Electric Gas	2011 2009-2010 2010-2011 2008-2009 2004-2007 2000-2001 1998-2000 2008-2012 2007-2010 2004-2006 1993-1995 1990-1992 1986-1989 1984-1985 1982-1983 1978-1981 1984-1985 2005-2007 1994-1999 1989-1993 1986-1988 1982-1983 2009-2011 2006-2008 2004-2006 2001-2003 1986-1991	Stairstep Stairstep Hybrid Hybrid Hybrid Hybrid Hybrid RPC Index Stairstep Indexing Hybrid Stairstep Indexing Hybrid Stairstep Hybrid Stairstep Hybrid Indexing Hybrid	Order G-16-09 Order G-141-09 Order G-33-07 Order G-33-07 Order G-33-07 Order G-48-00 Order G-48-00 Order G-48-00 Order G-85-97 Docket EB-2007-0615 Decision 07-03-044 Decision 04-05-055 Decision 92-12-057 Decision 89-12-057 Decision 89-12-057 Decision 89-12-068 Decision 85-12-076 Decision 89-12-068 Decision 93-025 Decision 94-08-023 Decision 94-08-023 Decision 95-12-108 Decision 95-12-108 Decision 90-3-025 Decision 09-03-025 Decision 09-04-07-022 Decision 09-04-055 Decision 08-12-076
BC BC BC BC BC BC BC ON d States CA	BC Hydro Terasen Gas Terasen Gas Terasen Gas BC Gas BC Gas BC Gas Enbridge Gas Distribution Pacific Gas & Electric San Diego Gas & Electric Southern California Edison	Electric Electric Gas	2011 2009-2010 2010-2011 2008-2009 2004-2007 2000-2001 1998-2000 2008-2012 2007-2010 2004-2006 1993-1995 1990-1992 1986-1989 1984-1985 1982-1983 1978-1981 1984-1985 2005-2007 1994-1999 1989-1993 1986-1988 1982-1983 2005-2011 2006-2008	Stairstep Stairstep Hybrid Hybrid Hybrid Hybrid Hybrid Hybrid RPC Index Stairstep Indexing Hybrid Stairstep Indexing Hybrid	Order G-16-09 Order G-141-09 Order G-33-07 Order G-33-07 Order G-33-07 Order G-48-00 Order G-48-00 Order G-85-97 Docket EB-2007-0615 Decision 07-03-044 Decision 04-05-055 Decision 92-12-057 Decision 89-12-057 Decision 89-12-057 Decision 85-12-076 Decision 89-12-068 Decision 93-12-068 Decision 93-10-068 Decision 93-025 Decision 94-08-023 Decision 95-12-108 Decision 95-12-108 Decision 96-05-016 Decision 04-07-022 Decision 04-07-022 Decision 05-12-076 Decision 85-12-076 Decision 85-12-075
BC BC BC BC BC BC ON d States CA	BC Hydro Terasen Gas Terasen Gas Terasen Gas BC Gas BC Gas BC Gas Enbridge Gas Distribution Pacific Gas & Electric San Diego Gas & Electric Southern California Edison	Electric Electric Gas	2011 2009-2010 2010-2011 2008-2009 2004-2007 2000-2001 1998-2000 2008-2012 2007-2010 2004-2006 1993-1995 1990-1992 1986-1989 1984-1985 1982-1983 1978-1981 1984-1985 2005-2007 1994-1999 1989-1993 1986-1988 1982-1983 2009-2011 2006-2008 2004-2006 2001-2003 1986-1991	Stairstep Stairstep Hybrid Hybrid Hybrid Hybrid Hybrid RPC Index Stairstep Indexing Hybrid Hybrid Hybrid Hybrid Hybrid Hybrid Hybrid Hybrid Hybrid No RAM Stairstep Indexing Hybrid Stairstep Hybrid Hybrid Stairstep Hybrid Hybrid Hybrid Hybrid Hybrid Hybrid Hybrid Hybrid Indexing Hybrid Indexing	Order G-16-09 Order G-141-09 Order G-33-07 Order G-33-07 Order G-33-07 Order G-48-00 Order G-48-00 Order G-48-00 Order G-85-97 Docket EB-2007-0615 Decision 07-03-044 Decision 04-05-055 Decision 92-12-057 Decision 89-12-057 Decision 89-12-057 Decision 89-12-068 Decision 85-12-076 Decision 89-12-068 Decision 93-025 Decision 94-08-023 Decision 94-08-023 Decision 95-12-108 Decision 95-12-108 Decision 90-3-025 Decision 09-03-025 Decision 09-04-07-022 Decision 09-04-055 Decision 08-12-076
BC BC BC BC BC BC BC ON d States CA	BC Hydro Terasen Gas Terasen Gas Terasen Gas BC Gas BC Gas BC Gas Enbridge Gas Distribution Pacific Gas & Electric San Diego Gas & Electric Southern California Edison	Electric Electric Gas	2011 2009-2010 2010-2011 2008-2009 2004-2007 2000-2001 1998-2000 2008-2012 2007-2010 2004-2006 1993-1995 1990-1992 1986-1989 1984-1985 1982-1983 1978-1981 1984-1985 2005-2007 1994-1999 1989-1993 1986-1988 1982-1983 2009-2011 2006-2008 2004-2006 2011-2003 1986-1991 1983-1984	Stairstep Stairstep Hybrid Hybrid Hybrid Hybrid Hybrid Hybrid RPC Index Stairstep Indexing Hybrid Stairstep Indexing Hybrid	Order G-16-09 Order G-141-09 Order G-33-07 Order G-33-07 Order G-33-07 Order G-48-00 Order G-48-00 Order G-85-97 Docket EB-2007-0615 Decision 07-03-044 Decision 04-05-055 Decision 92-12-057 Decision 89-12-057 Decision 89-12-057 Decision 85-12-076 Decision 89-12-068 Decision 93-12-068 Decision 93-10-068 Decision 93-025 Decision 94-08-023 Decision 95-12-108 Decision 95-12-108 Decision 96-05-016 Decision 04-07-022 Decision 04-07-022 Decision 05-12-076 Decision 85-12-076 Decision 85-12-075
BC BC BC BC BC BC ON d States CA	BC Hydro Terasen Gas Terasen Gas Terasen Gas BC Gas BC Gas BC Gas Enbridge Gas Distribution Pacific Gas & Electric San Diego Gas & Electric Southern California Edison	Electric Electric Gas	2011 2009-2010 2010-2011 2008-2009 2004-2007 2000-2001 1998-2000 2008-2012 2007-2010 2004-2006 1993-1995 1990-1992 1986-1989 1984-1985 1982-1983 1978-1981 1984-1985 2005-2007 1994-1999 1989-1993 1986-1988 1982-1983 2004-2066 2001-2003 1986-1991 1988-1991	Stairstep Stairstep Hybrid Hybrid Hybrid Hybrid Hybrid RPC Index Stairstep Indexing Hybrid Hybrid Hybrid Hybrid Hybrid Hybrid Hybrid Hybrid Hybrid No RAM Stairstep Indexing Hybrid Stairstep Hybrid Hybrid Stairstep Hybrid Hybrid Hybrid Hybrid Hybrid Hybrid Hybrid Hybrid Indexing Hybrid Indexing	Order G-16-09 Order G-141-09 Order G-33-07 Order G-33-07 Order G-33-07 Order G-48-00 Order G-48-00 Order G-85-97 Docket EB-2007-0615 Decision 07-03-044 Decision 04-05-055 Decision 92-12-057 Decision 89-12-057 Decision 89-12-067 Decision 83-12-068 Decision 93887 Decision 89-10-034 Decision 89-10-034 Decision 89-09-034 Decision 89-11-068 Decision 89-11-068 Decision 99-01-068 Decision 99-03-025 Decision 99-03-025 Decision 06-05-016 Decision 04-07-022 Decision 85-12-076 Decision 85-12-076 Decision 85-12-075 Decision 93-03-03-03-03-03-03-03-03-03-03-03-03-03
BC BC BC BC BC ON d States CA	BC Hydro Terasen Gas Terasen Gas Terasen Gas BC Gas BC Gas BC Gas Enbridge Gas Distribution Pacific Gas & Electric San Diego Gas & Electric Southern California Edison Southern California Gas	Electric Electric Gas	2011 2009-2010 2010-2011 2008-2009 2004-2007 2000-2001 1998-2000 2008-2012 2007-2010 2004-2006 1993-1995 1990-1992 1986-1989 1984-1985 1982-1983 1978-1981 1984-1985 2005-2007 1994-1999 1989-1993 1986-1988 1982-1983 2009-2011 2006-2008 2004-2006 2001-2003 1986-1991 1983-1984	Stairstep Stairstep Hybrid Hybrid Hybrid Hybrid Hybrid RPC Index Stairstep Indexing Hybrid Indexing Hybrid Indexing Hybrid Indexing Hybrid	Order G-16-09 Order G-141-09 Order G-33-07 Order G-33-07 Order G-31-03 Order G-48-00 Order G-48-00 Order G-48-00 Order G-48-01 Order G-48-01 Order G-48-01 Order G-48-02 Decision 07-03-044 Decision 04-05-055 Decision 92-12-057 Decision 89-12-057 Decision 89-12-057 Decision 89-12-076 Decision 89-12-076 Decision 89-12-076 Decision 93-025 Decision 94-08-023 Decision 95-12-108 Decision 95-12-108 Decision 95-12-108 Decision 09-03-025 Decision 09-03-025 Decision 09-03-025 Decision 02-04-055 Decision 02-04-055 Decision 05-03-025 Decision 07-07-054
BC BC BC BC BC BC ON d States CA	BC Hydro Terasen Gas Terasen Gas Terasen Gas BC Gas BC Gas BC Gas Enbridge Gas Distribution Pacific Gas & Electric San Diego Gas & Electric Southern California Edison Southern California Gas Southern California Gas Southern California Gas Southern California Gas	Electric Electric Gas	2011 2009-2010 2010-2011 2008-2009 2004-2007 2000-2001 1998-2000 2008-2012 2007-2010 2004-2006 1993-1995 1990-1992 1986-1983 1984-1985 2005-2007 1994-1999 1989-1993 1986-1988 1982-1983 2009-2011 2006-2008 2004-2006 2011-2003 1986-1991 1983-1984 2005-2007 1998-2002 1986-1989	Stairstep Stairstep Hybrid Hybrid Hybrid Hybrid Hybrid Hybrid RPC Index Stairstep Indexing Hybrid Stairstep Hybrid Hybrid Indexing Hybrid Indexing Hybrid Indexing Hybrid Indexing Hybrid Indexing Hybrid	Order G-16-09 Order G-141-09 Order G-33-07 Order G-33-07 Order G-33-07 Order G-48-00 Order G-48-00 Order G-85-97 Docket EB-2007-0615 Decision 07-03-044 Decision 04-05-055 Decision 92-12-057 Decision 89-12-057 Decision 83-12-068 Decision 83-12-068 Decision 83-12-068 Decision 89-10-053 Decision 89-09-034 Decision 89-09-034 Decision 89-11-068 Decision 89-11-068 Decision 95-01-016 Decision 04-07-022 Decision 04-07-022 Decision 05-03-025 Decision 95-03-025 Decision 95-03-025 Decision 04-07-022 Decision 05-03-025 Decision 05-03-025 Decision 85-12-076 Decision 97-07-054 Decision 85-12-076 Decision 85-12-076 Decision 85-12-076
BC BC BC BC BC BC ON d States CA	BC Hydro Terasen Gas Terasen Gas Terasen Gas BC Gas BC Gas BC Gas Enbridge Gas Distribution Pacific Gas & Electric San Diego Gas & Electric Southern California Edison Southern California Gas Southern California Gas	Electric Electric Gas	2011 2009-2010 2010-2011 2008-2009 2004-2007 2000-2001 1998-2000 2008-2012 2007-2010 2004-2006 1993-1995 1990-1992 1986-1989 1984-1985 1982-1983 1978-1981 1984-1993 1986-1988 1982-1983 2009-2011 2006-2008 2004-2006 2001-2003 1986-1991 1983-1984 2005-2007 1998-1991	Stairstep Stairstep Hybrid Hybrid Hybrid Hybrid Hybrid Hybrid RPC Index Stairstep Indexing Hybrid Indexing Hybrid Indexing Hybrid	Order G-16-09 Order G-141-09 Order G-33-07 Order G-33-07 Order G-33-07 Order G-48-00 Order G-48-00 Order G-85-97 Docket EB-2007-0615 Decision 07-03-044 Decision 04-05-055 Decision 99-12-057 Decision 89-12-057 Decision 89-12-057 Decision 83-12-068 Decision 89-12-076 Decision 89316, 91107 Decision 89-03-025 Decision 99-03-025 Decision 99-03-025 Decision 99-03-025 Decision 09-03-025 Decision 09-03-025 Decision 09-03-025 Decision 09-03-025 Decision 09-03-025 Decision 09-03-025 Decision 05-03-025 Decision 05-03-025 Decision 05-03-025 Decision 05-03-025 Decision 85-12-076 Decision 85-12-076 Decision 97-07-054 Decision 97-07-054 Decision 98-12-076

Table 4 (continued) Decoupling True Up Plan Precedents

Jurisdiction	Company Name	Services	Plan Years	Revenue Adjustment Mechanism	Case Reference
CO	Public Service Company of Colorado	Gas	2008-2011	RPC Freeze	Decision C07-0568
FL	Florida Power Corporation	Electric	1995-1997	RPC Freeze	Docket 930444
ID	Idaho Power	Electric	2007-2009	RPC Freeze	Case No. IPC-E-04-15
ID	Idaho Power	Electric	2010-2012	RPC Freeze	Case No. IPC-E-09-28
**	N d Gl G	6	2000 2012	PDG F	G 07.0241
IL IL	North Shore Gas Peoples Gas Light & Coke	Gas Gas	2008-2012 2008-2012	RPC Freeze RPC Freeze	Case 07-0241 Case 07-0242
IL.	reopies das Eight & Coke	Gas	2000-2012	KI C I ICCZC	Case 07-02-42
IN	Vectren Energy	Gas	2007-2011	RPC Freeze	Cause No. 43046
IN	Vectren Southern Indiana	Gas	2007-2011	RPC Freeze	Cause No. 43046
IN	Citizens Gas	Gas	2007-2011	RPC Freeze	Cause No. 42767
ME	Central Maine Power	Electric	1991-1993	RPC Freeze	Docket No. 90-085
MI	Consumers Energy	Electric	2009-2011	RPC Freeze	Case No. U-15645
MI	Consumers Energy	Gas	2010-2012	RPC Freeze	Case No. U-15986
MI	Detroit Edison	Electric	2010-2011	RPC Freeze	Case No. U-15768
MI	Upper Peninsula Power	Electric	2010-2011	RPC Freeze	Case No. U-15988
MI	Michigan Consolidated Gas	Gas	2010-2012	RPC Freeze	Case No. U-15985
MT	Montana Power Company	Electric	1994-1998	RPC Freeze	Docket No. 93.6.24
NC	Piedmont Natural Gas	Gas	2005-2008	RPC Freeze	Docket G-44 Sub 15
NJ	New Jersey Gas Natural	Gas	2007-2010	RPC Freeze	Docket GR05121020
NJ NJ	South Jersey Gas	Gas	2007-2010	RPC Freeze	Docket GR05121020 Docket GR05121019
149	South Jersey Gas	Gas	2007-2010	KFC Fleeze	Docket 0R03121019
NY	Central Hudson G&E	Gas	2009-open	RPC Freeze	Case 08-E-0888
NY	Central Hudson G&E	Electric	2009-open	No RAM	Case 08-E-0887
NY	Consolidated Edison	Electric	2008-open	No RAM	Case 07-E-0523
NY	Consolidated Edison	Gas	2007-2010	Stairstep	Case 06-G-1332
NY	Consolidated Edison	Electric	1992-1995	Stairstep	Opinion No. 92-8
NY	Long Island Lighting Company	Electric	1992-1994	Stairstep	Opinion No. 92-8
NY	New York State Electric & Gas	Electric	1993-1995	Stairstep	Opinion No. 93-22
NY NY	Niagara Mohawk Orange & Rockland Utilities	Electric Gas	1990-1992 2009-2012	Stairstep RPC Stairstep	Case 94-E-0098 Case 08-G-1398
NY	Orange & Rockland Utilities Orange & Rockland Utilities	Electric	2011-2012	No RAM	Case 10-E-0362
NY	Orange & Rockland Utilities	Electric	2008-2011	Stairstep	Case 07-E-0949
NY	Orange & Rockland Utilities	Electric	1991-1993	Stairstep	Case 89-E-175
NY	Rochester Gas & Electric	Electric	1993-1996	Stairstep	Opinion No. 93-19
				•	
ОН	Vectren Energy	Gas	2007-2009	RPC Freeze	Case 05-1444-GA-UNC
OR	Northwest Natural Gas	Gas	2009-2012	RPC Freeze	Order No. 07-426
OR	Northwest Natural Gas	Gas	2005-2009	RPC Freeze	Order No. 05-934
OR	Northwest Natural Gas	Gas	2002-2005	RPC Freeze	Order No. 02-634
OR	PacifiCorp	Electric	1998-2001	Indexing	Order No. 98-191
OR	Portland General Electric	Electric	2009-2010	RPC Freeze	Order No. 09-020
OR	Portland General Electric	Electric	1995-1996	Stairstep	Order No. 95-0322
UT	Questar Gas	Gas	2006-2010	RPC Freeze	Docket No. 05-057-T01
VA	Virginia Natural Gas	Gas	2009-2012	RPC Freeze	Case No. PUE-2008-00060
WA	Avista	Gas	2009-2012	RPC Freeze	Docket UG-060518
WA	Avista	Gas	2007-2009	RPC Freeze	Docket UG-060518
WA	Cascade Natural Gas	Gas	2005-2010	RPC Freeze	Docket UG-060256
WA	Puget Sound & Power	Electric	1991-1995	RPC Freeze	Docket UE-901184-P
WI	Wisconsin Public Service	Gas & Electric	2009-2012	RPC Freeze	D-6690-UR-119
WY	Questar Gas	Gas	2009-2012	RPC Freeze	Docket 30010-94-GR-08

B. Lost Revenue Adjustment Mechanisms

An LRAM explicitly compensates a utility for base rate revenues that are estimated to be lost due to its DSM programs, distributed generation ("DG"), or other specific causes. Compensation for lost margins is usually effected through a rate rider. Estimates of energy (and sometimes also peak load) savings are needed for LRAM calculations. The utility remains at risk for fluctuations in volumes and peak load due to weather, local economic activity, power market prices, and other volatile demand drivers. The utility is usually kept whole for the full revenue impact of its DSM (and possibly also DG) programs and not just for the incremental effort that causes average use to decline.² This is desirable because a program to promote DSM and DG increases the gap between cost and billing determinant growth and thereby increase potential attrition and the need for more frequent rate cases even if average use does not decline. Precedents for LRAMs are detailed in Table 5 and Figure 6 below.³ It can be seen that, while LRAMs are less widely used than decoupling true up plans today, they have experienced a rebound in recent years and are more popular for electric than for gas utilities. For example, they are featured in Duke Energy's "Save a Watt" approach to DSM regulation and are also popular in the Intermountain West states. Some utilities have LRAMs and decoupling true up plans.

For an example of an LRAM that covers DG as well as DSM programs, see Decision 73183 of the Arizona Corporation Commission in the 2012 rate case for Arizona Public Service. A multiyear rate plan was also approved in the decision.

Table 5 **Current LRAM Precedents**

State	Company	Services	Approval Date	Case Reference
AR	Arkansas Oklahoma Gas	Gas	June 2011	Docket No. 07-077-TF, Order Number 30
AR	Centerpoint Energy Arkla	Gas	June 2011	Docket No. 07-081-TF, Order Number 31
AR	Entergy Arkansas	Electric	June 2011	Docket No. 07-085-TF, Order Number 40
AR	Oklahoma Gas & Electric	Electric	June 2011	Docket No. 07-075-TF, Order No. 26
AR	SourceGas Arkansas	Gas	June 2011	Docket No. 07-078-TF, Order No. 26
A D	Caralana da an Eladaia Danan	Electric	Jan - 2011	Dealert No. 07 092 TE Onder No. 25 and 26
AR AZ	Southwestern Electric Power Arizona Public Service	Electric Electric	June 2011 May 2012	Docket No. 07-082-TF, Order Nos. 35 and 36 Docket No. E-01345A-11-0224, Decision No. 73183
AZ	UNS Gas	Gas	May 2012	Docket No. G-04204A-11-0158 Decision No. 73142
CT	Connecticut Natural Gas	Gas	August 1995	Docket No. 93-02-04
CT	Southern Connecticut Gas	Gas	August 1995	Docket No. 93-03-09
CT	Yankee Gas Service	Gas	January 2012	Docket No. 11-10-03
IN	Duke Energy Indiana (PSI)	Electric	February 2010	Cause No. 43374
IN	Indiana-Michigan Power	Electric	September 2010	Cause 43827
IN	Northern Indiana Public Service	Electric	May 2011	Cause 43618
IN	Southern Indiana Gas & Electric	Electric	August 2011 (large commercial and industrials), June 2012 (residential and small commercial)	Cause Nos. 43938 and 43405 DSMA 9 S1
KS	Kansas Gas & Electric	Electric	January 2011	Docket No. 10-WSEE-775-TAR
KS	Westar Energy	Electric	January 2011	Docket No. 10-WSEE-775-TAR
KY	Atmos Energy	Gas	September 2009	Case No. 2008-00499
KY	Columbia Gas of Kentucky	Gas	October 2009	Case No. 2009-00141
KY	Delta Natural Gas	Gas	July 2008	Docket No. 2008-00062
KY	Duke Energy Kentucky	Electric	December 1995 and February 2005	Case Nos. 95-321 and 2004-00389
KY	Duke Energy Kentucky	Gas	February 2005	Case No. 2004-00389
KY	Louisville Gas & Electric	Electric & Gas	November 1993	Case No. 93-150
KY	Kentucky Power	Electric	December 1995	Case No. 95-427
KY	Kentucky Utilities	Electric	May 2001	Case No. 2000-0459
LA	Entergy New Orleans	Electric	April 2009	New Orleans Resolution R-09-136
MA	All Electric distributors	Electric	July 2012	D.P.U. 12-01A
MA	Berkshire Gas	Gas	October 1992	D.P.U. 91-154
MA	NSTAR Electric	Electric	April 1992, June 1994, and June 2010	D.P.U. 90-335, D.P.U. 94-2/3-CC, and D.P.U. 10- 06
MA	Commonwealth Gas d/b/a NSTAR Gas	Gas	November 1994	D.P.U. 94-128
MT	Northwestern Energy	Gas	February 2009	Docket No. D2008.5.44
MT	Northwestern Energy	Electric	December 2005	Docket No. D2004.6.90
MT	Montana-Dakota Utilities	Gas	October 2006	Docket No. D2005.10.156; Order No. 6697c

Table 5 (continued) Current LRAM Precedents

State	Company	Services	Approval Date	Case Reference
NY	Central Hudson Gas & Electric	Electric	July 2006	Case No. 05-E-0934
NY	Consolidated Edison of New York	Electric	March 2005	Case No. 04-E-0572
NY	Consolidated Edison of New York	Gas	April 2002	Case No.00-G-1456
			*	Case No. 06-G-1186; Currently effective for all
NY	Keyspan Long Island	Gas	December 2009	customers not in RDM
		_		Case No. 06-G-1185; Currently effective for all
NY	Keyspan New York	Gas	December 2009	customers not in RDM
NC	Duke Energy Carolinas	Electric	February 2010	Docket No. E-7, Sub 831
NC	Progress Energy Carolinas (Carolina Power & Light)	Electric	November 2009	Docket No. E-2, Sub 931
NC NC	Virginia Electric Power	Electric	October 2011	Docket No. E-2, Sub 464
NH	Unitil Energy Services	Electric	June 2010	DE 09-137, Order No. 25,111
NV	Nevada Energy	Electric	May 2011	Docket 10-10024
NV	Sierra Pacific Power	Electric	May 2011	Docket 10-10025
0.77	Duke Energy Ohio (Cincinnati Gas &	-		D 1 . N . 0 . 0001 Ft . 10 . 0
OH	Electric)	Electric	July 2007	Docket No. 06-0091-EL-UNC
ОН	First Energy Ohio (Cleveland Electric Illuminating, Toledo Edison, Ohio Edison)	Electric	March 2009	Docket No. 08-935-EL-SSO
	American Electric Power (Ohio Power,			Docket No. 09-1089-EL-POR; Effective for
ОН	Columbus Southern Power)	Electric	May 2010	classes not included in RDM
	,			
ОН	Dayton Power & Light	Electric	June 2009	Docket No. 08-1094-EL-SSO
OK	Empire District Electric	Electric	November 2009	Cause No. 200900146 Order 571326
UK	Empire District Electric	Electric	November 2009	
OK	Oldshama Car & Flaggi	El. della	1-1-2000	Cause No. 200800059
OK OK	Oklahoma Gas & Electric	Electric	July 2008	Order 556179
ON	Public Service of Oklahoma Union Gas	Electric Gas	January 2010 January 2008	Cause No. PUD 200900196; Order 572836 EB-2007-0606
ON	Enbridge Gas Distribution	Gas	February 2008	EB-2007-0000 EB-2007-0615
	Ĭ.			
ON	Toronto Hydro-Electric	Electric	September 2007	EB-2007-0096
OR	Portland General Electric	Electric	September 2001	Order No. 01-836; UE 79 (Approved 2001 LRAM) Currently non-residential customers only
OR	Cascade Natural Gas	Gas	April 2006	Order No. 06-191; UG 167 excludes classes under RDM
OR	Avista Utilities	Gas	December 1993	Order 93-1881
SC	Progress Energy Carolinas	Electric	June 2009	Docket No. 2008-251-E Order 2009-373
	Duke Energy Carolinas	Electric	January 2010	Docket No. 2009-226-E Order No. 2010-79
SC SC	South Carolina Electric & Gas	Electric	July 2010	Docket No. 2009-261-E, Order No. 2010-472
SC	Souni Catolina Electric & Gas	Electric	July 2010	·
WY	Cheyenne Light, Fuel, and Power	Electric & Gas	September 2011	Docket Nos. 20003-108-EA-10 and 30005-140- GA-10
WY	Montana-Dakota Utilities	Electric	January 2007	Docket No. 20004-65-ET-06

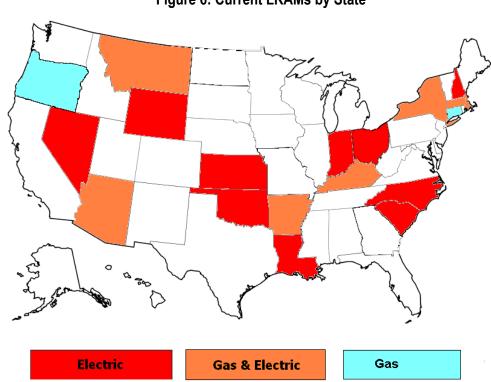


Figure 6: Current LRAMs by State

C. Fixed Variable Pricing

Fixed variable pricing is an approach to the design of base rates that uses fixed charges (charges that do not vary with the sales volume or peak demand) to recover a high percentage of fixed costs. A *straight* fixed variable ("SFV") rate design recovers *all* fixed costs 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. Most fixed variable rate designs implemented to date have involved the same fixed charge for all customers in a service class. However, "sliding scale" rate designs have been developed which assign lower fixed charges to customers who are likely to have lower volumes.

The lion's share of base rate revenue from residential and commercial customers is typically raised using customer charges under fixed variable pricing. Revenue thus tends to grow at the gradual pace of customer growth.

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 6 and Figure 7. It can be seen that fixed variable retail pricing has to date been more common for gas distributors than electric utilities. This again reflects the greater problem of declining average use that gas distributors have faced. Ohio is noteworthy for having recently switched from decoupling true up plans to fixed variable pricing for its gas distributors.

Table 6 Fixed Variable Retail Pricing Precedents

Jurisdiction	Company Name	Services	Years in Place	Case Reference
CT	Connecticut Light & Power	Electric	2007-open	Docket 07-07-01
CT	Yankee Gas System	Gas	2011-open	Docket 10-12-02
FL	Peoples Gas System	Gas	2009-open	Docket 080318-GU
GA	Altanta Gas Light	Gas	1998-open	Docket No. 8390-U
IL	Ameren CILCO	Gas	2008-2012	Case 07-0588
IL	Ameren CIPS	Gas	2008-2012	Case 07-0589
IL	Ameren IP	Gas	2008-2012	Case 07-0590
IL	Ameren Illinois	Gas	2012-open	Case 11-0282
IL	Commonwealth Edison	Electric	2011-open	Case 10-0467
IL	Nicor Gas	Gas	2009-open	Docket No. 08-0363
IL	North Shore Gas	Gas	2008-open	Case No. 07-0241
IL	Peoples Gas Light & Coke	Gas	2008-open	Case No. 07-0242
KY	Delta Natural Gas	Gas	2007-open	Case No. 2007-00089
KY	Duke Energy Kentucky	Gas	2010-open	Case No. 2009-00202
МО	AmerenUE	Gas	2007-open	Case No. GR-2007-0003
МО	Atmos Energy	Gas	2007-2010	Case GR-2006-0387
МО	Atmos Energy	Gas	2010-open	Case No. GR-2010-0192
МО	Empire District Gas	Gas	2010-open	Case GR-2009-0434
МО	Missouri Gas Energy	Gas	2007-open	Case GR-2006-0422
МО	Laclede Gas	Gas	2002-open	Case GR-2002-356
MS	Mississippi Power	Electric	Occurred over period of years	No specific case
ND	Xcel Energy	Gas	2005-open	Case PU-04-578
ОН	Duke Energy Ohio (CG&E)	Gas	2008-open	Case 07-590-GA-ALT
ОН	Dominion East Ohio	Gas	2008-2010	Case 07-830-GA-ALT
ОН	Columbia Gas	Gas	2008-open	Case 08-0072-GA-AIR
ОН	Vectren Energy Delivery of Ohio	Gas	2009-open	Case 07-1080-GA-AIR
ок	Oklahoma Natural Gas	Gas	2004-open	Cause Nos. PUD 200400610, PUD 201000048, PUD 200900110
OK	Centerpoint Energy	Gas	2010-open	Cause No. PUD 201000030

In addition to the precedents listed here, some 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 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.

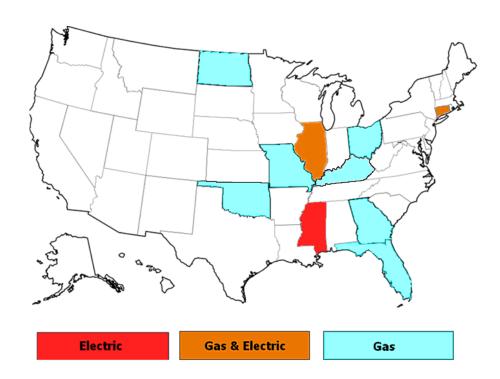


Figure 7: Fixed Variable Pricing Precedents by State

IV. Forward Test Years

General rate cases involve "test years" in which revenue requirements and billing determinants are jointly considered in setting new rates. An historic test year ends before the rate case is filed. A fully-forecasted (a/k/a "forward") test year ("FTY") is a twelve month period that begins after the rate case is filed. An FTY typically begins about the time that the rate case is expected to end. Two-year forecasts are therefore required to span both the rate case year and the year that rates take effect. In between FTYs and historic test years is the option of a "partially forecasted" test year in which some months of historic 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.

Historic test years are chronically uncompensatory when cost grows materially faster than billing determinants. Annual rate cases can alleviate but not eliminate underearning. Where historic test years are used in rate cases there are thus added advantages to implementing other Altreg innovations discussed in this paper.

Forward test years can compensate utilities for a tendency of cost growth to exceed billing determinant growth.⁵ If this tendency is chronic, however, it does not eliminate the problem of frequent rate cases. It is therefore not unusual for regulators to combine FTYs with other Altreg remedies, as is the case in California and New York

Diverse approaches are used to forecast costs in FTY rate cases. Some companies rely on their budgeting process to make cost projections. Others normalized data for an historical reference period and adjust for known and measurable changes and then use indexing and other statistical methods to extend projections. Mixes of these two approaches are common.

Forward test years were adopted in many jurisdictions during the 1970s and 1980s when rapid price inflation and major plant additions coincided with slowing growth in average use. This approach to Altreg was therefore one of the earliest implemented. Several additional states have recently moved in the direction of FTYs. Many of these states are in the West, where comparatively rapid economic growth has required more rapid build out of utility infrastructure. FTYs were recently sanctioned legislatively in Pennsylvania.

Current state policies concerning test years are summarized below in Figure 8 and Table 7. The ranks of US jurisdictions that allow the use of alternatives to historic test years have swollen and now encompass well over half of the total. The "other" category in Figure 8 includes states where utilities can file FTYs but many do not (*e.g.* Illinois), states where FTYs may be approved on a case by case basis (*e.g.* New Mexico, Utah, and Wyoming), and states where partially forecasted test years are the norm (*e.g.* Ohio and New Jersey). Forward test years are the norm in Canada and several jurisdictions have permitted two forward test years.

The effect on credit metrics can be material. For evidence see "Forward Test Years for US Electric Utilities" by Mark Newton Lowry, David Hovde, Lullit Getachew, and Matt Makos, August 2010. Prepared for the Edison Electric Institute.

Edison Electric Institute 27

⁴ A forward test year can be the rate case year, and thereby not require two-year forecasts, if rates are allowed to be changed as proposed on an interim basis shortly after the filing.

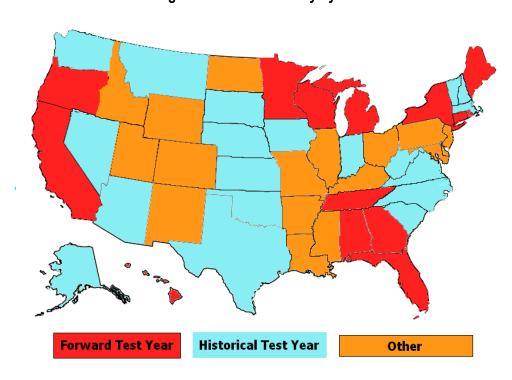


Figure 8: Test Year Policy by State

Table 7 **Test Year Approaches of US Jurisdictions**

Jurisdiction Notes

Fully-Forecasted (15)

Alabama California Utilities operate under forward-looking formula rate plans

Connecticut **FERC**

Rate cases use forward test years but some formula rate plans use HTYs

Florida Georgia Hawaii

Maine Michigan Minnesota

New York Oregon Rhode Island Tennessee Wisconsin

Partially-Forecasted (3)

Ohio New Jersey

Transitional/Varying (14)

District of Columbia

PEPCO has filed rate cases using both hybrid and historical test years recently Before restructuring FTY filings were common, but companies have used a mix of HTYs and

partially-forecasted test years in recent filings

Delaware Idaho Illinois Kentucky Louisiana Maryland Mississippi

Utilities use various test years including FTYs Utilities use various test years including FTYs Utilities use various test years including FTYs Utilities use various test years excluding FTYs One electric utility operates under a forward-looking formula rate plan

Missouri New Mexico

Utilities have the option to file partially-forecasted test years A recently passed law allows for use of FTYs, but no rate increase based on FTY evidence

North Dakota

has yet been approved Utilities use various test years including FTYs

Pennsylvania

Partially-forecasted test years have been the norm. Law allowing fully-forecasted test years

Utah

passed in 2012. First FTY case is pending. Test year selection is part of the rate case and can be contested. Several recent rate cases

Wyoming

have used FTYs. Rocky Mountain Power has recently used FTYs

Historic (20)

Alaska Arizona

Colorado

Utilities can file FTY evidence. No FTY rates have yet been approved but a recent case made extraordinary HTY adjustments.

Indiana lowa Kansas Massachusetts Montana Nebraska

Nebraska has no electric IOUs. Gas companies are legally authorized to use FTYs but commonly use HTYs.

Nevada 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 compensate a utility for changing business conditions without frequent, full true ups to its actual cost of service. Rate cases are held infrequently, most often at three to five year intervals. Any rate escalations that are made between rate cases are based in whole or in part on automatic attrition relief mechanisms ("ARMs"). 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 these two features of MRPs achieve can strengthen utility performance incentives despite a reduction in regulatory cost. Benefits of better performance can be shared between the utility and its customers. Lower regulatory cost has special appeal in jurisdictions where numerous utilities must be regulated.

ARMs typically cap the growth in either rates (e.g. customer charges and cents per kWh) or allowed revenue. Rate caps are favored when and where utilities are encouraged to bolster system use since they strengthen incentives to promote use and facilitate marketing flexibility by reducing concerns about cross-subsidies. Revenue caps are usually combined with decoupling true ups, and are often favored where utilities must cope with declining average use and/or large-scale DSM programs.

Several approaches to the design of ARMs are well-established. These approaches include stairsteps, indexing, and hybrids. Stairsteps provide predetermined increases in rates (or revenue) which often reflect forecasts of cost growth. Indexing escalates rates (or revenue) automatically for inflation and sometimes also for growth in the number of customers served and/or industry productivity trends. Hybrid ARMs typically involve indexing of budgets for O&M expenses and stairsteps for capital cost budgets.

The indexing approach to ARM design is more common for distribution charges because distribution cost growth is relatively gradual and predictable. Hybrid and stairstep ARMs are more adaptable to the cost growth trajectories of VIEUs, which are more uneven due to occasional major plant additions. Some VIEUs operating under MRPs have separate ratemaking treatments for generation and distribution.

Supplemental rate adjustments are usually allowed for changes in business conditions that are especially difficult to address using ARMs. A tracker that recovers a large portion of a utility's capex cost can, for example, sometimes permit the company to operate under a multiyear freeze on rates for other non-energy costs. This is so because the value of the residual rate base is more likely to be static or decline. Trackers may also address force majeure events such as severe storms and changes in tax rates and other government policies that affect costs.

Some multiyear rate and revenue caps 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 feature "off-ramps" that permit plan suspension when earnings are unusually high or low. Plans often feature award and/or penalty mechanisms that are linked to the utility's service quality.

MRPs were first widely used in the railroad, telecommunications, and oil pipeline industries. A major attraction was the ability of price caps to afford utilities flexibility in serving markets with diverse competitive pressures from a consolidated set of assets. The use of MRPs in the regulation of gas and electric utilities has been chiefly motivated by other advantages such as stronger performance incentives and lower regulatory cost.

Current US and Canadian precedents for MRPs are indicated in Table 8 and Figures 9a and 9b. In the US, multiyear rate plans are most common in California and the Northeast. MRPs with ARMs that escalate rate or revenue automatically are more common for energy distributors than for VIEUs. Canada is moving towards MRPs with index-based ARMs for pipe and wire utilities in all four populous provinces. MRPs with index-based ARMs are more the rule than the exception for pipe and wire utilities overseas. ARMs used in MRPs for VIEUs typically have a stairstep or hybrid form. Other VIEUs operate under a combination of a rate freeze and one or more trackers to compensate the utility for specific causes of potential attrition.

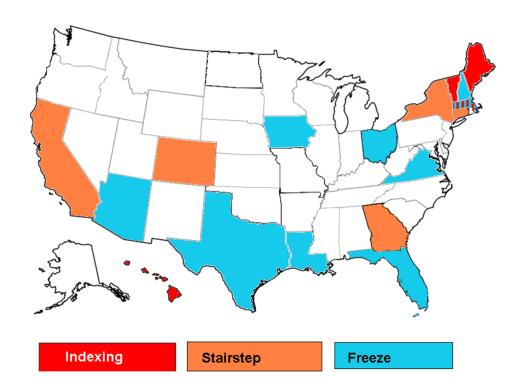


Figure 9a: Recent US Electric Multiyear Rate Cap Precedents by State

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The table considers only MRPs that weren't listed in Table 4 on decoupling true up precedents. Figures 9a and 9b cover all MRPs. Rate freezes without extensive supplemental funding from trackers are excluded from Table 8 and Figures 9a and 9b.

Table 8 Multiyear Price Cap Precedents^{1,2}

Services

			Services		
Jurisdiction	Company Name	Plan Term	Covered	Rate Escalation Provisions	Case Reference
				Current	
	ı		1		
	A D 11.		D - 11 - 1	Rate freeze with an adjustment to account for purchase of SCE's share of	D
4.7	Arizona Public Service	2012 2017	Bundled power	Four Corners generating facility, additional capex and other cost trackers,	Decision No. 73183,
AZ	Service	2012-2016	service	LRAM	May 2012
			D 11 1	Price Cap Index: Rates escalated by Global Insight forecast of CPI, less	D :: 10.00.010
64	D C.C.	2011 2012	Bundled power	0.5% productivity factor; supplemental funding for major plant additions	Decision 10-09-010;
CA	PacifiCorp	2011-2013	service	can be requested in annual filings.	September 2, 2010
	Public Service		D - 11 - 1		Desiries No. C12
60	Company of Colorado	2012 2014	Bundled power	Stainstan	Decision No. C12- 0494
СО	Florida Power &	2012-2014	service Bundled power	Stairstep	Docket No. 120015-
FL	Light	2012 2016	service	Pata franza with multiple sensy and other cost trackers	EI. December 2012
FL	Progress Energy	2013-2016	Bundled power	Rate freeze with multiple capex and other cost trackers	Docket No. 120022-
E	Florida	2012 2017	service	Data Francisco de la constanta	EI
FL	Fiorida	2012-2016	Service	Rate Freeze with one step plus capex and other cost trackers	El
			D 41 - 4	Stainton Bata in constitut for DSM and ancies according along	
GA	Gaargia Bayyar	2011-2013	Bundled power service	Stairstep: Rate increases permitted for DSM and major generation plant additions	Dooleat 21059
GA	Georgia Power MidAmerican	2001 - 2005, extended	Bundled power	auditions	Docket 31958 Dockets RPU-01-3
TA		, , , , , , , , , , , , , , , , , , ,	•	Deta Farana with analogo and other and to be	
IA	Energy	to 2013	service Bundled power	Rate Freeze with nuclear capex and other cost trackers	and RPU-2012-0001
Ι Α	Cleco	2009-2014	service	Pata franza with agray tracker	Order No. U-30689
LA	Central Maine	2009-2014	Power	Rate freeze with capex tracker	Order No. U-30689
ME		2000 2012	distribution	Daise Con Indon CDDDI 10/ companie AMI torology	Darlert 2007 215
ME	Power (III)	2009-2013		Price Cap Index: GDPPI - 1%, separate AMI tracker	Docket 2007-215
			Power		
	D 11: G .		distribution		
	Public Service		(generation		
NITT	Company of New	2010 2015	regulated	Stairstep: Rate increases allowed to account for distribution capital	DE 00 025
NH	Hampshire	2010-2015	separately)	additions in 2010-2013	DE 09-035
NITT	Unitil Energy	2011 2017	Power	Stairstep: Rate increases allowed to account for distribution capital	DE 10.055
NH	Systems	2011-2016	distribution	additions in 2011-2013	DE 10-055
OH	A ED OH	2012 2015	Power		Case No. 11-346-EL-
OH	AEP-OH	2012-2015	distribution	Rate Freeze supplemented by capex and other cost trackers	SSO, August 8, 2012
		2011 2014 1			Case Nos. 11-388-EL-
OH	Einst Enno Oli	2011-2014, later	Power	Det Form Management of the second of the sec	SSO, 12-1230-EL-
OH	First Energy Ohio	extended to 2016	distribution	Rate Freeze with capex and other cost trackers	SSO
	Windste Dlanks		D - 11 - 1		C N. DUE 2000
37.4	Virginia Electric Power	2010 2012	Bundled power	Data Farana with annual address and the days	Case No. PUE-2009- 00019
VA	Power	2010-2013	service	Rate Freeze with capex and other cost trackers	00019
	Garage Manageria				
VT	Green Mountain Power	2010-2013	Electric	Payanya can inday	Dooleat No. 7595
V 1	rowei	2010-2013	Electric	Revenue cap index	Docket No. 7585
	Central Vermont				
VT	Public Service	2011-2013	Electric	Revenue cap index	Docket No. 7627
V 1	1 ubiic Service	2011-2013	Electric	Revenue cap muex	DOCKET NO. 7027
	Vermont Gas				
VT	Systems	2012-2015	Gas	Revenue cap hybrid	Docket No. 7803
V1	Systems	2012-2013	Gas	Revenue cap nyona	DOCKET IVO. 7003
			Power		
Alberta	Enmax	2007-2013	distribution	Price Cap Index: Input Price Index -1.2%	Decision 2009-035
Alberta	Limax	2007-2013	distribution	The Cap mack. Input The mack -1.270	Decision 2007-033
				Revenue Per Customer Indexing: Input Price Index - 1.16%, separate	
Alberta	Altagas Utilities	2013-2017	Gas	capex trackers	Decision 2012-237
71100114	. magas Omnics	2015-2017	343	oupon audito	200131011 2012-23/
				Revenue Per Customer Indexing: Input Price Index - 1.16%, separate	
Alberta	ATCO Gas	2013-2017	Gas	capex trackers	Decision 2012-237
Aideita	EPCOR, Fortis	2015-2017	Power	cuper truckers	DOCISION 2012-23/
Alberta	Alberta	2013-2017	distribution	Price Cap Index: Input Price Index - 1.16%, separate capex trackers	Decision 2012-237
Northwest	Alberta	2013-2017	Bundled power	Trice Cap mack. Input Trice mack = 1.1070, separate capex trackers	DCC151011 2012-23/
Territories	Northland Utilities	2011-2013	service	Stairstep	Decision 17-2011
Northwest	Northland Utilities	2011-2013	Bundled power	Omnstep	Decision 1/=2011
Territories	(Yellowknife)	2011-2013	service	Stairstep	Decision 13-2011
	(Tenewkine)	2011-2013	301 1100	- Cambridge	Decision 13-2011

Table 8 (continued) Multiyear Price Cap Precedents^{1,2}

Jurisdiction	Company Name	Plan Term	Services Covered	Rate Escalation Provisions	Case Reference		
Current							
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)	EB-2007-0673 (July 14, 2008, September 17, 2008, and January 28, 2009)		
Prince Edward Island	Maritime Electric	2013-2016	Bundled power	Stairstep: Bill defines rates for each year.	Bill 26 (2012) Electric Power (Energy Accord Continuation) Amendment Act		

Historic

			Services		
Jurisdiction	Company Name	Plan Term	Covered	Attrition Relief Mechanisms	Case Reference
	G: D : G D	2009-2011, extended	Bundled power	D: G I	D :: 00 10 041
CA	Sierra Pacific Power	to 2012	service	Price Cap Index	Decision 09-10-041
C.A	D C.C.	1994-1996, extended to 1999	Bundled power service	D'. C. I. I	Decision 93-12-106;
CA	PacifiCorp	10 1999	Service	Price Cap Index	December 3, 1993
		2007-2009, extended	Bundled power		Decisions 06-12-011
CA	PacifiCorp	to 2010	service	Price Cap Index	and 09-04-017
CA	Тастісогр	10 2010	SCIVICC	Thee cap macx	and 07-04-017
	San Diego Gas and				Decision 99-05-030:
CA	Electric	1999-2002	Electric & Gas	Price Cap Index	May 13, 1999
CA	Licettic	1777-2002	Licetife & Gas	The cap macx	Way 15, 1777
	Southern California				Decision 96-09-092;
CA	Edison	1997-2001	Electric	Price Cap Index	September 6, 1996
			Power		
CT	United Illuminating	2006-2008	Distribution	Stairstep	Docket 05-06-04
	Florida Power &		Bundled power	Rate Freeze with exception for new generating facilities after they are in	
FL	Light	2006-2009	service	service and multiple capex and other cost trackers	Docket 050045-EI
	Progress Energy		Bundled power	Rate freeze with 1 step to reflect generation brought in-service and	Docket No. 050078-
FL	Florida	2006-2009	service	multiple capex and other cost trackers	EI
GA	Atlanta Gas Light	2005-2010	Gas distribution	Base rate freeze featuring a broad-based capex tracker	Docket No. 18638-U
MA	Bay State Gas	2006-2009	Gas distribution	Price Cap Index	Docket DTE 05-27
MA	Berkshire Gas	2002-2012	Gas distribution	No adjustment until September 2004, then Price Cap Index	Docket D.T.E. 01-56
				and the second s	Docket D.P.U. 96-50-
					C (Phase I) May 16,
MA	Boston Gas (I)	1997-2001	Gas distribution	Price Cap Index	1997
	1			•	
MA	Boston Gas (II)	2004-2010	Gas distribution	Price Cap Index	Docket DTE 03-40
		November 1, 2004 -			
MA	Blackstone Gas	October 31, 2009	Gas distribution	Price Cap Index	Docket D.T.E. 04-79
				Rate Freeze between 2000 and 2005, Price Cap Index: 2006-2010,	
			Power	inflation adjustment made based on index of regional power distribution	Docket DTE 99-47
MA	National Grid	2000-2010	distribution	charges.	(November 29, 1999)
			Power	-	
MA	Nstar	2006-2012	distribution	Price Cap Index	Docket D.T.E. 05-85
		2000-2009, extended			Docket 970795 (June
ME	Bangor Gas	to 2012		Price Cap Index	26, 1998)
	Bangor Hydro		Power		Docket 97-116
ME	Electric (I)	1998-2000	distribution	Price Cap Index	(March 24, 1998)
1.00	Bangor Hydro	2002 2007	Power	Guitata a	D. 1. (N. 2001 112
ME	Electric (II)	2002-2007	Distribution	Stairstep	Docket No. 2001-410
1.65	Central Maine	400 # 4000	Bundled power		Docket 92-345 Phase
ME	Power (I)	1995-1999	service	Price Cap Index	II (January 10, 1995)
ME	Central Maine	2001 2007	Power	Drice Con Index	Docket 99-666
ME	Power (II)	2001-2007	distribution	Price Cap Index	(November 16, 2000)

Table 8 (continued) Multiyear Price Cap Precedents^{1,2}

Historic

			Services		
Jurisdiction	Company Name	Plan Term	Covered	Rate Escalation Provisions	Case Reference
		0 - 1 - 1 1001			Case 90-G-0981,
NY	Brooklyn Union Gas	October 1, 1991 - September 30, 1994	Gas distribution	Stairstan	Opinion 91-21, October 9, 1991
IN I	Brooklyn Chlon Gas	September 30, 1994	Gas distribution	Statisticp	Case 93-G-0941,
		October 1, 1994 -			Opinion 94-22,
NY	Brooklyn Union Gas	September 30, 1997	Gas distribution	Stairstep	October 18, 1994
					Case 05-E-0934 &
	Central Hudson Gas	July 1, 2006 - June 30,			Case 05-G-0935; July
NY	& Electric	2009	Electric & Gas	Stairstep	24, 2006
		0 1 4 4004			Case 93-G-0996,
NY	Consolidated Edison	October 1, 1994 - September 30, 1997	Gas Distribution	Stainston	Opinion 94-21, October 12, 1994
IN Y	Consolidated Edison	April 1, 2005 - March	Power	Stanstep	Case 04-E-0572,
NY	Consolidated Edison	31, 2008	distribution	Stairstep	March 24, 2005
		,			Case 93-G-0002,
	Long Island	December 1, 1993-			Opinion 93-23,
NY	Lighting Company	November 30, 1996	Gas distribution	Stairstep	December 23, 1993
	N. V. I Co.	D 1 1002			Case 92-G-1086,
NY	New York State Electric & Gas	December 1, 1993 - August 31, 1995	Gas	Stairstep	Opinion 93-22, November 9, 1993
INI	Electric & Gas		Gas	Statisticp	November 9, 1993
		August 1, 1995 - July 31, 1998, Years 2 and			Case 94-M-0349,
	New York State	3 not implemented			Opinion 95-27,
NY	Electric & Gas	due to restructuring	Electric	Stairstep	September 27, 1995
		July 1, 1990 -		•	Case 29327, Opinion
NY	Niagara Mohawk	December 31, 1992	Gas	Stairstep	89-37, June 28, 1991
	Orange & Rockland	November 1, 2003-			Case 02-G-1553,
NY	Utilities Utilities	October 31, 2006	Gas	Stairstep	October 23, 2003
.,,	Orange & Rockland	November 1, 2006 -	Gus	Sunsep	Case 05-G-1494,
NY	Utilities	October 31, 2009	Gas	Stairstep	October 20, 2006
					Case 92-G-0741,
	Rochester Gas &	July 1, 1993 - June 30,			Opinion No. 93-19;
NY	Electric	1996	Gas	Stairstep	August 24, 1993
	Cincinnati Gas &		Power		
ОН	Electric	2009-2011	generation	Stairstep	Case 08-920-EL-SSO
	Dayton Power &		Power		Case No. 08-1094-EL-
ОН	Light	2009-2012	Distribution	Rate freeze supplemented by capex and other cost trackers	SSO (June 2009)
	Green Mountain				
VT	Power	2007-2010	Electric	Stairstep	Docket No. 7176
X //T	Vermont Gas	2007.2012	6	W 1.:1	D. 1.137 7100
VT	Systems Northwestern	2007-2012	Gas Bundled power	Hybrid	Docket No. 7109 Decision U98060
Alberta	Utilities	1999-2002	service	Stairstep	(March 31, 1998)
	2	-,,, 2002			City of Edmonton
		2002-2005,			Distribution Tariff
		Terminated	Power		Bylaw 12367 (August
Alberta	EPCOR	12/31/2003	distribution	Price Cap Index	18, 2000)
		2006-2009, extended	Bundled power		
ВС	Fortis BC	to 2011	service	Revenue Cap Hybrid	Order G-58-06
	All Ontario	2011	Power		0.401 0 50 00
Ontario	distributors	2000-2003	distribution	Price Cap Index	RP-1999-0034
	All Ontario		Power	-	EB-2006-0089
Ontario	Distributors	2006-2009	Distribution	Price Cap Index	(December 20, 2006)
		2001 2002	G 11	D: G I	RP-1999-0017 (July
Ontario	Union Gas	2001-2003	Gas distribution	Price Cap Index	21, 2001)

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

MRPs with revenue decoupling and broad-based revenue cap escalators are detailed in Table 4.

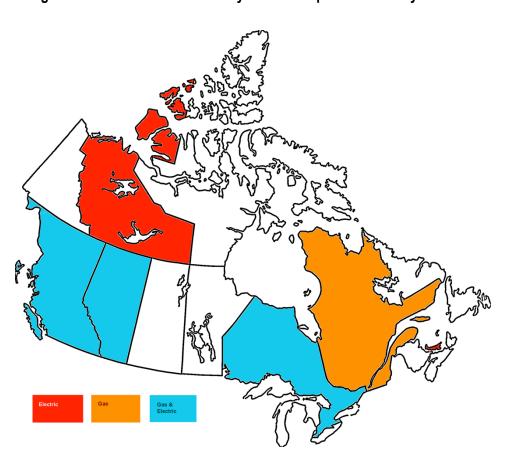


Figure 9b: Recent Canadian Multiyear Rate Cap Precedents by Province

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 pro forma cost of service. When revenue and cost are not balanced a utility's realized ROE deviates from the target set by regulators, and earnings surpluses or deficits occur. FRPs have earnings true up mechanisms that adjust rates so that earnings variances are substantially reduced or eliminated. Regulatory cost is reduced by limiting review of costs and revenues.

The earnings true up mechanism in an FRP calculates the revenue adjustment necessary to reduce or eliminate earnings variances. Some compare the earned ROE to the target (a/k/a benchmark) ROE and then calculate the rate adjustment needed to reduce the ROE variance. Another approach is to adjust rates for the difference between revenue and a pro forma cost of service that is calculated using a rate of return target. Both approaches often add interest on the variance to the revenue adjustment.

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 an FRP earnings true up mechanism and the earnings *sharing* mechanisms found in some multiyear rate plans. ESMs also frequently have sizable deadbands.

Expedited review of operating prudence does not always extend to major investment programs. In state-regulated FRPs for retail 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 sometimes recovered through a separate tracker. Mechanisms are sometimes added to an FRP to encourage better operating performance in targeted areas. An example is a limit on the escalation of O&M expenses using an indexing formula.

Formula rates have been used at the FERC and its predecessor agency to regulate interstate services of gas and electric utilities since at least 1950. Use of FRPs 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 9 and Figure 10⁷. It can be seen that FRPs for retail utility services are operative today in several Southeast and South Central states. Alabama was an early innovator, approving "Rate Stabilization and Equalization" plans for Alabama Power and Alabama Gas in the early 1980s. Formula rates are, additionally, now used to regulate electric utilities in Mississippi, some gas and electric utilities in Louisiana, and some gas utilities in Oklahoma, Texas, and South Carolina. Utilities in other states have cost trackers that act like formula rates to recover their transmission costs from retail customers. Most of the recent approvals of formula rates have been for gas distribution, as this is one means of avoiding the frequent rate cases that declining average use can trigger. However, formula rates were recently authorized for electric utilities in Illinois and two are now operating under FRPs there.

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⁷ Some plans labeled as formula rates do not qualify for inclusion in this table and figure based on our definition.

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

Table 9 Retail Formula Rate Plan Precedents¹

Jurisdiction	Company Name	Services	Plan Name	Plan Term	Case Reference
		Curre	nt		
AL	Alabama Power	Bundled Power Service	Rate Stabilization & Equalization Factor (Rate RSE)	2006-open	Dockets No. 18117 and 18416 (October 2005)
AL	Alabama Gas	Gas	Rate Stabilization & Equalization Factor (Rate RSE)	2008-2014	Dockets No. 18406 and 18328 (December 2007)
AL	Mobile Gas Service	Gas	Rate Stabilization & Equalization Factor (Rate RSE)	2009-2013	Docket 28101 (December 2009)
GA	Atmos Energy	Gas	Georgia Rate Adjustment Mechanism (GRAM)	2012-open	Docket 34764 (December 2011)
			Rate Modernization Action Plan - Pricing		
IL	Ameren Illinois	Power Distribution	(Rate MAP-P) Rate Delivery Service Pricing and Performance	2011-2017	Case 12-0001 (September 2012)
IL	Commonwealth Edison	Power Distribution	(Rate DSPP)	2011-2017	Case 11-0721 (May 2012)
LA	Atmos Energy - Louisiana Gas Service	Gas	Rate Stabilization Plan	2006-open	Docket No. U-21484 (May 2006)
LA	Atmos Energy - Trans Louisiana Gas	Gas	Rate Stabilization Plan	2006-open	Docket No. U-28814 and U-28588 and U-28587(May 2006)
LA	Entergy New Orleans	Electric and Gas	Formula Rate Plan	2010-2012	Docket No. UD-08-03 (April 2009)
MS	Atmos Energy Corp	Gas	Stable/Rate Rider	2009-present	Docket No. 05-UN-0503 (December 2009)
MS	Centerpoint Energy Entex	Gas	Rate Regulation Adjustment Rider	2008-open	Docket No. 07-UN-548 (December 2007)
MS	Entergy Mississippi	Bundled Power Service	Formula Rate Plan 5 (FRP 5)	2010-open	Docket No. 2009-UN-388 (March 2010)
MS	Mississippi Power	Bundled Power Service	Performance Evaluation Plan - 5 (PEP-5)	2010-open	Docket No. 2003-UN-0898 (November 2009)
OK	Centerpoint Energy Arkla	Gas	Performance Based Rate of Change Plan	2010-open	Docket No. 201000030 (July 2010)
OK	Oklahoma Natural Gas	Gas	Performance Based Rate of Change Plan	2010-2013	Docket No. 200800348 (April 2009)
SC	Piedmont Gas	Gas	NA	2005-present	Docket No. 2005-125-G (September 2005)
SC	South Carolina Electric and Gas	Gas	NA Cost of Service	2005-present	Docket No. 2005-113-G (October 2005) Gas Utility Docket 9791 (October
TX	Centerpoint Energy-Texas Coast Division	Gas	Adjustment Clause	2008-open	2008)
TX	Atmos Energy-Mid Texas Division	Gas	Rate Review Mechanism	2008 - conclusion of rate case to be filed on or before June 1, 2013	Various Resolutions/Ordinances across cities in service territory, including City of Fort Worth Ordinance 17989-02-2008
TX	Atmos Energy West Texas Division	Gas	Rate Review Mechanism	2009 - conclusion of rate case to be filed on or before June 1, 2013	Various Resolutions/Ordinances across cities in service territory
TX	Texas Gas Service - North Service Area	Gas	Cost of Service Adjustment Tariff	2009-open	Various Resolutions/Ordinances in service territory and Gas Utility Docket 9839 (April 2009)
		Histor	·ic		
AL	Alabama Power	Bundled Power Service	Rate Stabilization & Equalization Factor (Rate RSE)	2002-2006	Dockets No. 18117 and 18416 (March 2002)
AL	Alabama Power	Bundled Power Service	Rate Stabilization & Equalization Factor (Rate RSE)	1998-2002	Dockets No. 18117 and 18416 (March 1998)
AL	Alabama Power	Bundled Power Service	Rate Stabilization & Equalization Factor (Rate RSE)	1990-1998	Dockets No. 18117 and 18416 (March 1990)
AL	Alabama Power	Bundled Power Service	Rate Stabilization & Equalization Factor (Rate RSE)	1985-1990	Dockets No. 18117 and 18416 (June 1985)
AL	Alabama Power	Bundled Power Service	Rate Stabilization & Equalization Factor (Rate RSE)	1982-1985	Dockets No. 18117 and 18416 (November 1982)
AL	Alabama Gas	Gas	Rate Stabilization & Equalization Factor (Rate RSE)	2002-2007	Dockets No. 18046 and 18328 (June 2002)

Table 9 (continued) Retail Formula Rate Plan Precedents¹

Jurisdiction	Company Name	Services	Plan Name	Plan Term	Case Reference
AL	Alabama Gas	Gas	Rate Stabilization & Equalization Factor (Rate RSE)	1996-2001	Dockets No. 18046 and 18328 (October 1996)
AL	Alabama Gas	Gas	Rate Stabilization & Equalization Factor (Rate RSE)	1991-1995	Dockets No. 18046 and 18328 (December 1990)
AL	Alabama Gas	Gas	Rate Stabilization & Equalization Factor (Rate RSE)	1987-1990	Dockets No. 18046 and 18328 (September 1987)
AL	Alabama Gas	Gas	Rate Stabilization & Equalization Factor (Rate RSE)	1985-1987	Dockets No. 18046 and 18328 (May 1985)
AL	Alabama Gas	Gas	Rate Stabilization & Equalization Factor (Rate RSE)	1983-1985	Dockets No. 18046 and 18328 (January 1983)
AL	Mobile Gas Service	Gas	Rate Stabilization & Equalization Factor (Rate RSE)	2005-2009	Docket 28101 (June 2005)
AL	Mobile Gas Service	Gas	Rate Stabilization & Equalization Factor (Rate RSE)	2001-2005	Docket 28101 (June 2002)
LA LA	Atmos Energy - Louisiana Gas Service Entergy New Orleans	Gas Electric only	Rate Stabilization Plan Formula Rate Plan	2001-2003 2004-2006	Docket No. U-21484 (January 2001) Docket No. UD-01-04 (May 2003)
LA	Entergy New Orleans	Electric only	Formula Rate Fian	2004-2000	Docket No. OD-01-04 (May 2003)
MS	Atmos Energy Corp	Gas	Stable/Rate Rider	2006-2009	Docket No. 05-UN-0503 (October 2005)
MS	Atmos Energy Corp	Gas	Stable/Rate Rider	1992-2006	Docket 92-UA-0230 (September 1992)
MS	Centerpoint Energy Entex	Gas	Rate Regulation Adjustment Rider	1996-2007	Docket No. 96-UN-0202 (September 1996)
MS	Entergy Mississippi	Bundled Power Service	Formula Rate Plan 1 (FRP 1)	1995	Docket No. 93-UA-0301 (March 1994)
MS	Mississippi Power	Bundled Power Service	Performance Evaluation Plan - 4A (PEP- 4A)	2009	Docket No. 06-UN-0511 (January 2009)
MS	Mississippi Power	Bundled Power Service	Performance Evaluation Plan - 4 (PEP-4)	2004-2009	Docket No. 03-UN-0898 (May 2004)
MS	Mississippi Power	Bundled Power Service	Performance Evaluation Plan - 3 (PEP-3)	2002-2004	Docket No. 01-UN-0826 (October 2002)
MS	Mississippi Power	Bundled Power Service	Performance Evaluation Plan - 2A (PEP-2A)	2001-2002	Docket No. 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	Performance Evaluation Plan - 1 (PEP-1)	1991-1992	Docket No. 90-UN-0287 (December 1990)
MS	Mississippi Power	Bundled Power Service	Performance Evaluation Plan	1986-1990	Docket No. U-4761 (August 1986)
OK	Centerpoint Energy Arkla	Gas	Performance Based Rate of Change Plan	2008-2010	Docket No. 200800062 (July 2008)
OK	Centerpoint Energy Arkla	Gas	Performance Based Rate of Change Plan	2004-2008	Docket No. 200400187 (November 2004)

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

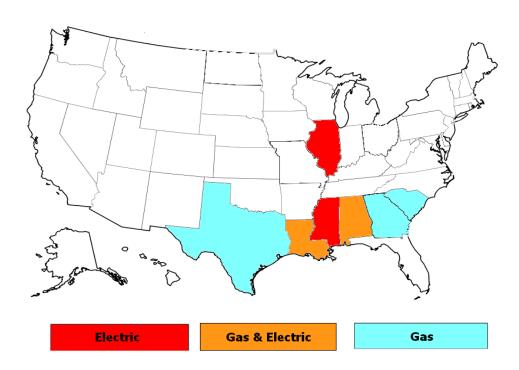


Figure 10: Current Retail Formula Rate Precedents by State

VII. Conclusions

Regulation of North American energy utilities is evolving to remedy the chronic underearning and frequent rate cases that traditional regulation tends to produce under modern operating conditions. Innovations continue, while some older forms of Altreg are again finding favor. This brief survey has not considered all noteworthy approaches to Altreg. Here are some of the other approaches that merit recognition:

- Regulatory assets can provide delayed compensation with interest for the annual cost of newly used and useful plant that doesn't automatically produce revenue.
- Attrition adjustments to rates can provide some compensation for an ongoing tendency of cost growth to exceed billing determinant growth. See, for example, a recent decision of the Washington Utilities and Transportation Commission in a rate case for Avista⁹.
- Utilities can be permitted to file rate cases on a limited set of issues, such as additions to generation plant, that are salient causes of potential attrition.

The variety of Altreg approaches that have been established reflects the varied circumstances of individual utilities. Some are vertically integrated, while others are more specialized wire companies. Investment needs and trends in average use vary greatly. No single Altreg approach is right for every situation. The availability of multiple remedies for the underlying problems increases the chance that an approach has already been tried that fits the regulatory inclinations of a particular jurisdiction. 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 make smart investments, reduce long run costs, and improve service quality without rate shock or unnecessarily frequent rate cases. Utilities can be encouraged to promote energy efficiency and peak load management aggressively. Regulators and stakeholders to regulation across the US should give priority attention to these options and consider which Altreg combinations work best in their situation.

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Washington Utilities and Transportation Commission, Dockets UE-120436/UG-120437, Order 09, December 26, 2012.