

Attachment PEG-OC-7

Summary of Base Productivity Trend, Stretch Factor, and X Factor Decisions in North American PBR Proceedings¹

Applicable Services	Utilities	Jurisdiction	Term	Price Cap or Revenue Cap ⁶	Inflation Measure	Acknowledged Base Productivity Trend	Stretch Factor ²	X Factor ^{3,4}
Bundled Power Service	Central Maine Power (I)	Maine	1995-1999	Price Cap	GDPPI	NA	NA	0.9% (Average)
Oil Pipelines	All U.S. Interstate	United States	1995-2001	Price Cap	PPI-Finished Goods	NA	NA	1.00%
Power Distribution	Southern California Edison	California	1997-2002	Price Cap	CPI	NA	NA	1.48% (Average)
Gas Distribution	Boston Gas (I)	Massachusetts	1997-2003	Price Cap	GDPPI	0.40%	0.50%	0.50%
Power Distribution	Bangor Hydro Electric (I)	Maine	1998-2000	Price Cap	GDPPI	NA	NA	1.20%
Power Distribution	PacifiCorp (II)	Oregon	1998-2001	Revenue Cap	GDPPI	NA	NA	0.30%
Gas Distribution	Bangor Gas	Maine	2000-2009, extended to 2012	Price Cap	GDPPI	NA	NA	0.36% (Average)
Gas Distribution	Union Gas	Ontario	2001-2003	Price Cap	GDP-IPPI	NA	NA	2.50%
Oil Pipelines	All U.S.	United States	2001-2006	Price Cap	PPI-Finished Goods	NA	NA	0.00%
Power Distribution	Central Maine Power (II)	Maine	2001-2007	Price Cap	GDPPI	NA	NA	2.57% (Average)
Power Distribution	Southern California Edison	California	2002-2003	Revenue Cap	CPI	NA	NA	1.60%
Gas Distribution	Berkshire Gas	Massachusetts	2002-2011	Price Cap	GDPPI	0.40%	1.00%	1.00%
Gas Distribution	Blackstone Gas	Massachusetts	2004-2009	Price Cap	GDPPI	NA	NA	0.50%
Gas Distribution	Boston Gas (II)	Massachusetts	2004-2013, terminated in 2010	Price Cap	GDPPI	0.58%	0.30%	0.41%
Power Distribution	All Ontario Distributors	Ontario	2006-2009	Price Cap	GDP-IPPI	NA	NA	1.00%
Oil Pipelines	All U.S. Interstate	United States	2006-2011	Price Cap	PPI-Finished Goods	NA	NA	-1.30%
Power Distribution	NSTAR	Massachusetts	2006-2012	Price Cap	GDPPI	NA	NA	0.63% (Average)
Gas Distribution	Bay State Gas	Massachusetts	2006-2015, terminated in 2009	Price Cap	GDPPI	0.58%	0.40%	0.51%
Gas Distribution	Enbridge Gas	Ontario	2008-2012	Revenue Cap	GDP-IPPI	NA	NA	47% x Inflation (Average)
Gas Distribution	Union Gas	Ontario	2008-2012	Revenue Cap	GDP-IPPI	NA	NA	1.82%
Power Distribution	Central Vermont Pubic Service	Vermont	2009-2011, extended to 2013	Revenue Cap	CPI	1.03%	NA	1.00%
Power Distribution	Central Maine Power (III)	Maine	2009-2013	Price Cap	GDPPI	NA	NA	1.00%
Power Distribution	All Ontario Distributors	Ontario	2010-2013	Price Cap	GDP-IPPI	0.72%	0.40% (Average Across Firms)	1.12% (Average Across Firms)
Power Distribution	Green Mountain Power	Vermont	2010-2013	Revenue Cap	CPI	NA	NA	1.00%
Oil Pipelines	All U.S. Interstate	United States	2011-2016	Price Cap	PPI-Finished Goods	NA	NA	-2.65%
Gas Distribution	Union Gas	Ontario	2014-2018	Revenue Cap	GDP-IPPI	NA	NA	60% x Inflation
Oil Pipelines	All U.S. Interstate	United States	2016-2021	Price Cap	PPI-Finished Goods	NA	NA	-1.23%

Attachment PEG-OC-7 (continued)
Summary of Base Productivity Trend, Stretch Factor, and X Factor Decisions in

Applicable Services	Utilities	Jurisdiction	Term	Revenue Cap ⁶	Inflation Measure	Acknowledged Base Productivity	Stretch Factor ²	X Factor ^{3,4}
Power Distribution	Eversource Energy ⁵	Massachusetts	2018-2023	Revenue Cap	GDPPPI	-0.46%	0.25% if GDPPPI growth exceeds 2%	-1.44%
Gas Distribution	Amalco	Ontario	2019-2023	Price Cap	GDP-IPI	0.00%	0.30%	0.30%
Power Distribution	National Grid Electric ⁵	Massachusetts	2019-2024	Revenue Cap	GDPPPI	-0.13%	0%-0.55% depending on inflation and cost performance	-1.45%
Gas Distribution	National Grid Gas	Massachusetts	2021-2026	Revenue Cap	GDPPPI	NA	0.30%	-1.00%
Oil Pipelines	All U.S. Interstate	United States	2021-2026	Price Cap	PPI-Finished Goods	NA	NA	-0.78%
Bundled Power Service	Hawaiian Electric Companies ⁷	Hawaii	2021-2026	Revenue Cap	GDPPPI	NA	0.22% + \$6.61 million per year savings commitment across companies	0.44%
Gas Distribution	Eversource Gas	Massachusetts	2020-2030	Revenue Cap	GDPPPI	-0.27%	0.15%	-1.03%

¹ Shaded plans have expired.

² Some rate and revenue cap indexes have X factors that are not explicitly constructed from such components as a base productivity trend and a stretch factor. Many of these are the outcome of settlements.

³ X factors may not be the sum of the acknowledged productivity trend and a stretch factor, even when these are itemized, for reasons that include the following: (1) a macroeconomic inflation measure is employed in the attrition relief mechanism or (2) the X factor may incorporate additional adjustments to account for special business conditions.

⁴ North American X factors often include any stretch factor that has been explicitly or implicitly approved. However, X factors are sometimes exclusive of the stretch factor, as in Quebec. To ensure comparability across results, we add in the stretch factor to the X factor when it is approved separately.

⁵ The approved X factors for Eversource Energy and National Grid Electric had stretch factors that were contingent on inflation and/or other factors. To ensure consistency across examples, we have recalculated the X factor here, assuming that the midpoint consumer dividend will be applied in all years.

⁶ Productivity research to support X factors for price cap indexes typically uses billing determinants to measure output growth whereas research to support X factors for revenue caps typically uses cost drivers to measure output growth.

⁷ The 0.44% X factor for the Hawaiian Electric Companies is the sum of the 0.22% and PEG's estimate of the \$6.61 million per year savings commitment for the Hawaiian Electric Companies. The estimate is based on the estimated impact of both consumer dividends as decided in the Hawaii PUC's Decision on Rehearing in Hawaii PUC Docket 2018-0088.