

North American Regulated Utilities

AGA Conference May 2024 Investor Presentation

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Recent Publications

The Rationale Behind U.S. Utility Securitization And Reasons For Recent Growth



Plugged In: How EVs Supercharge Growth For North America's Investor-Owned Electric Regulated Utilities



A Closer Look At The Three Major California Investor-Owned Electric Utilities Amid 2023 Wildfire Season



Credit FAQ: What's Behind Our Recent Actions On Investor-Owned Utilities In Connecticut?



Record CapEx Fuels Growth Along With Credit Risk For North American Investor-Owned Utilities



North American Electric, Gas, And Water Regulated Utilities, Strongest To Weakest



Rising Risks: Outlook For North American Investor-Owned Regulated Utilities Weakens



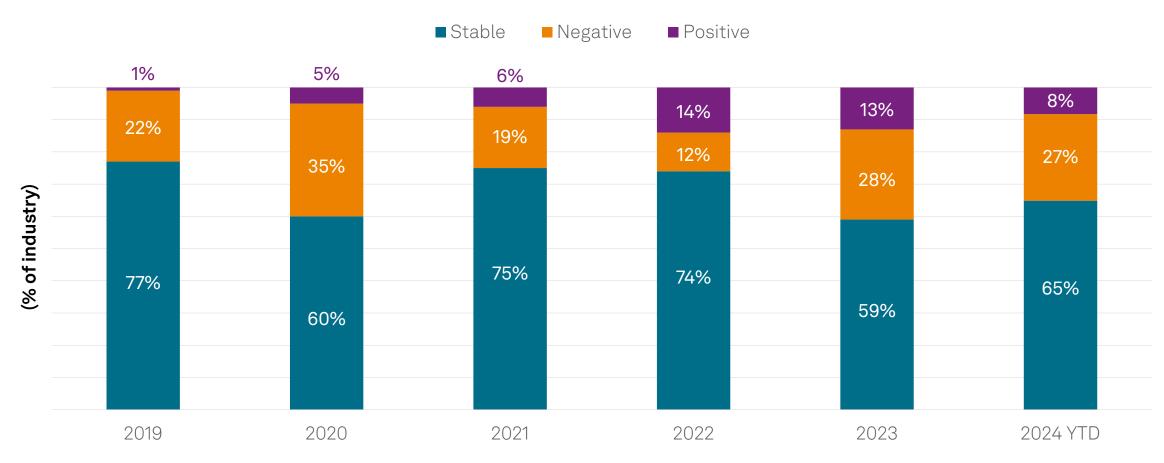
A Storm Is Brewing: Extreme Weather Events Pressure North American Utilities' Credit Quality



North American Utility Regulatory Jurisdictions Update: Ontario Remains Unchanged, Notable Developments Elsewhere



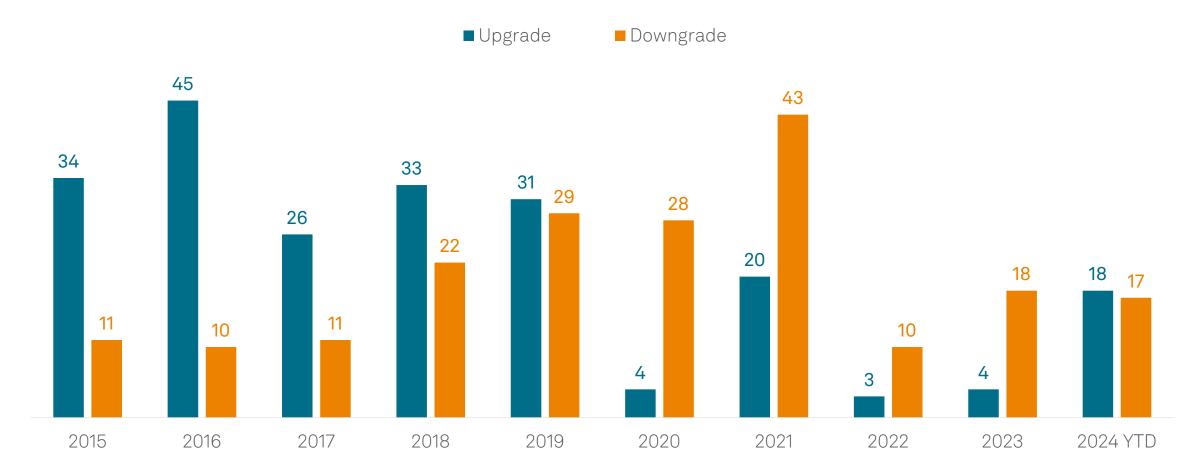
NA Regulated Utilities | Industry Outlook



Annual outlook is as of year-end. YTD—Year to date is as of May 6, 2024. Source: S&P Global Ratings.



NA Regulated Utilities | Upgrades And Downgrades

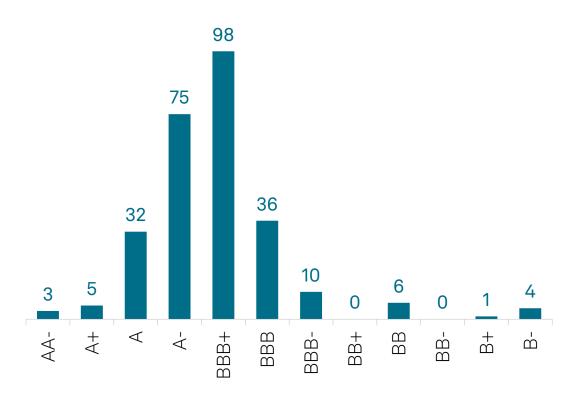


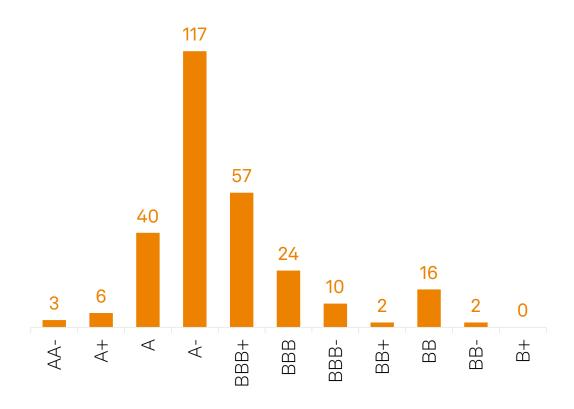
YTD—Year to date is as of May 6, 2024. Source: S&P Global Ratings.



NA Regulated Utilities Ratings Distribution | Credit Quality Has Weakened

YTD 2024 YE 2020

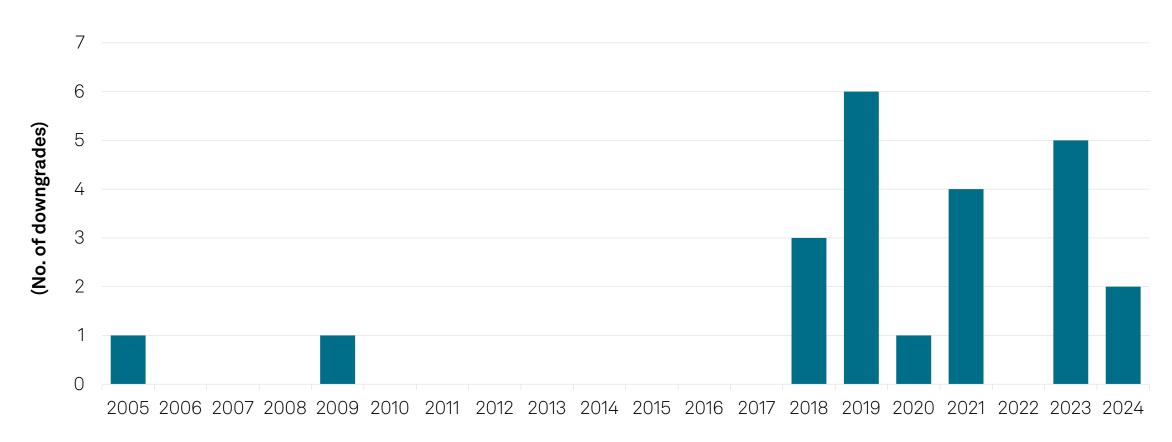




YTD—Year to date is as of May 6, 2024. YE—Year end. Source: S&P Global Ratings.



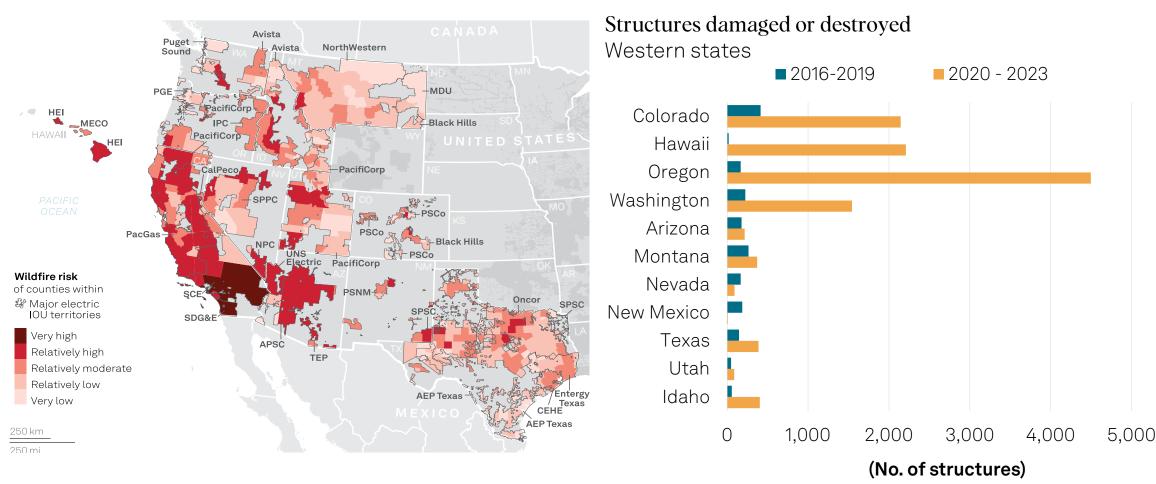
NA Regulated Utilities | Downgrades Attributed To Physical Risks



As of May 6, 2024. Source: S&P Global Ratings.



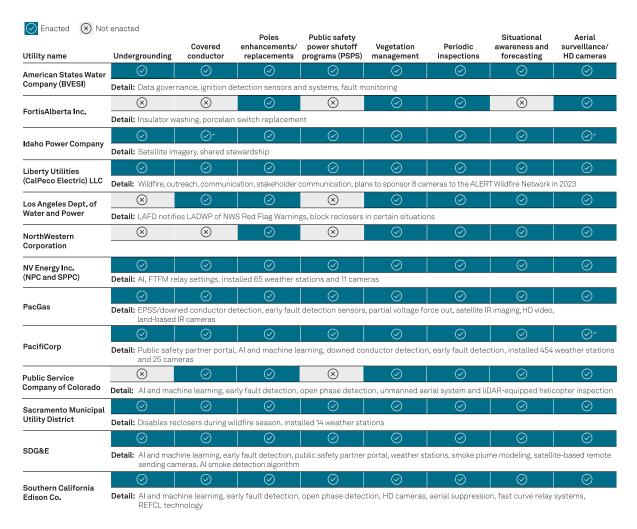
NA Regulated Utilities | Wildfire Risk Has Increased



Sources: Company documents. Federal Emergency Management Agency (FEMA). S&P Global Market Intelligence.



NA Regulated Utilities | Wildfire Mitigation and Recovery

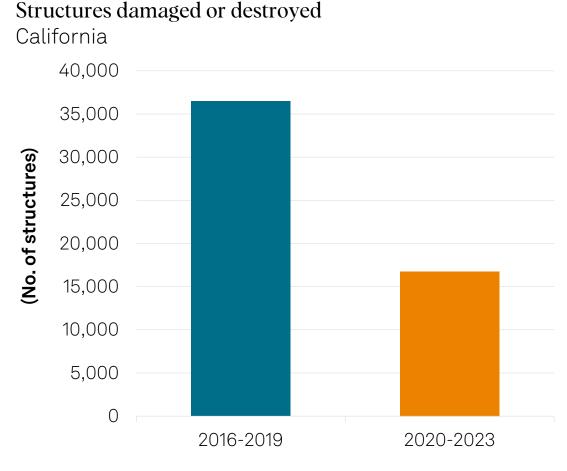


Rate payers Insurance Self-insurance Wildfire fund Securitization

Sources: Company documents. As of October 2023.



NA Regulated Utilities | Wildfire Mitigation Efforts



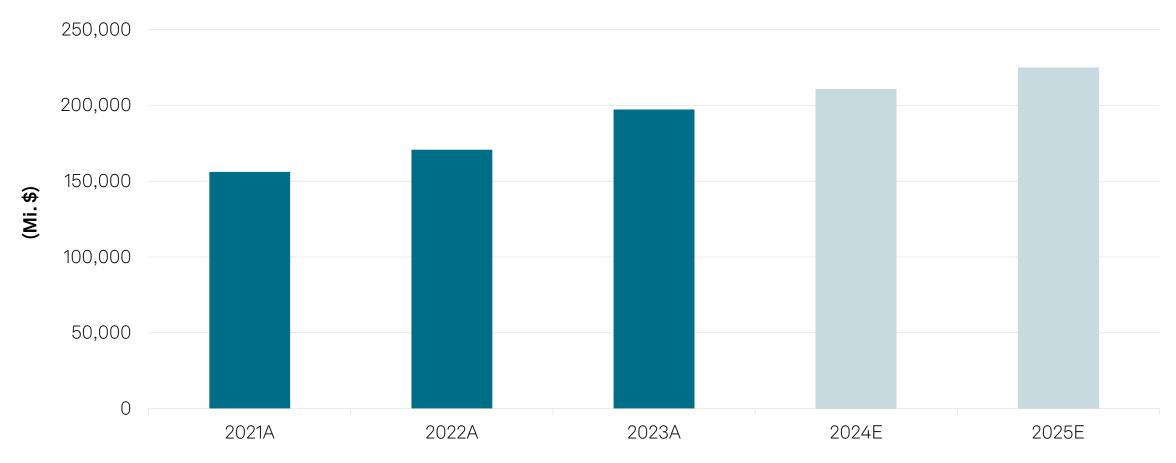
Recent updates



Sources: Company documents.



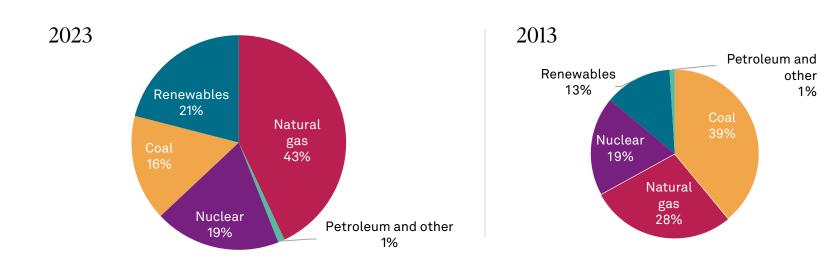
NA Regulated Utilities | Rising Capital Expenditures

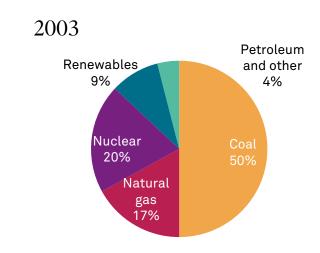


As of May. 06, 2024. A- Actual. E- Estimate. Capital expenditures represent North American investor-owned electric gas, and water utilities. Source: S&P Global Ratings.

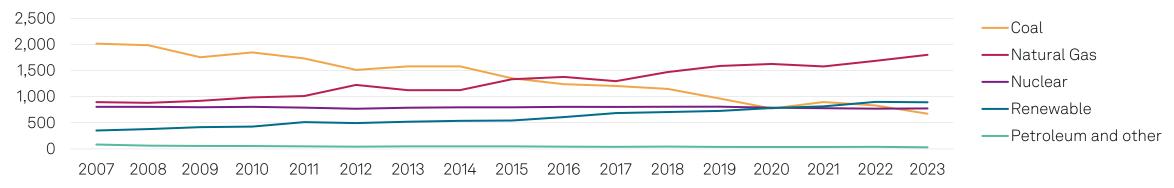


Transformation Of U.S. Generation





Generation mix 2007-2023 (Bil. Killowatt-hours)



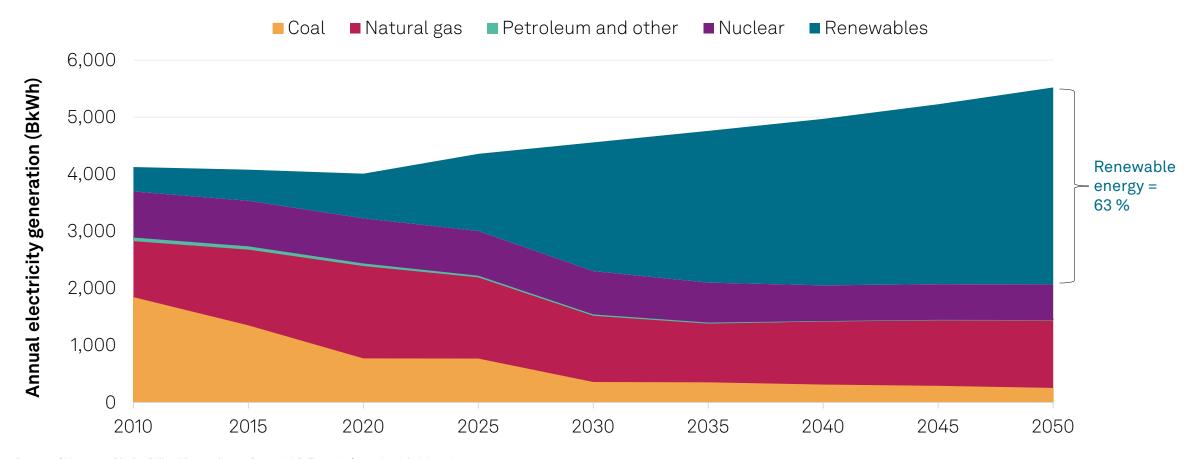
other

1%

Data as of May. 7, 2024. Source: U.S. Energy Information Administration.



U.S. Generation Transformation | 2010 - 2050

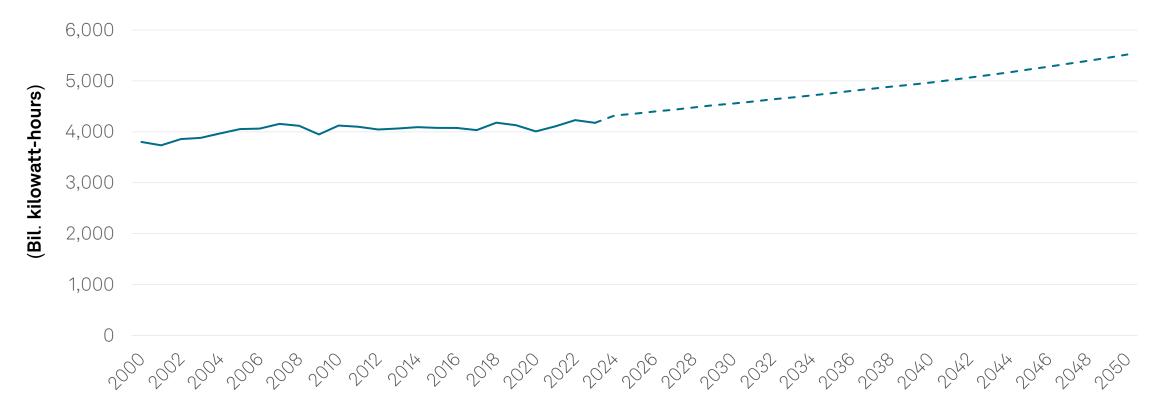


Data as of May 2024. BkWh—Billion kilowatt-hours. Source: U.S. Energy Information Administration.



NA Regulated Utilities | Forecast Electricity Demand

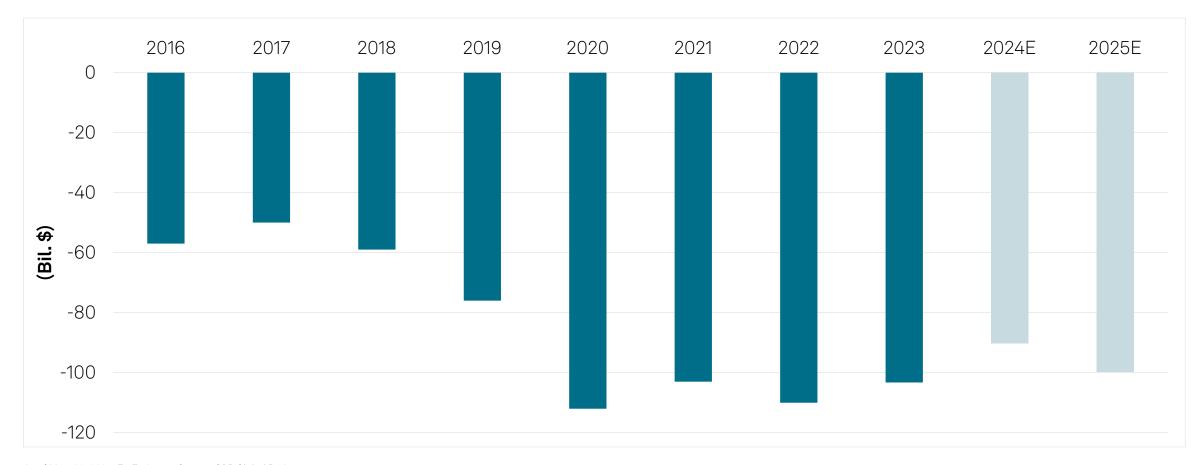
Net electricity generation 2000-2050



Data as of May. 10, 2024. Source: U.S. Energy Information Administration.



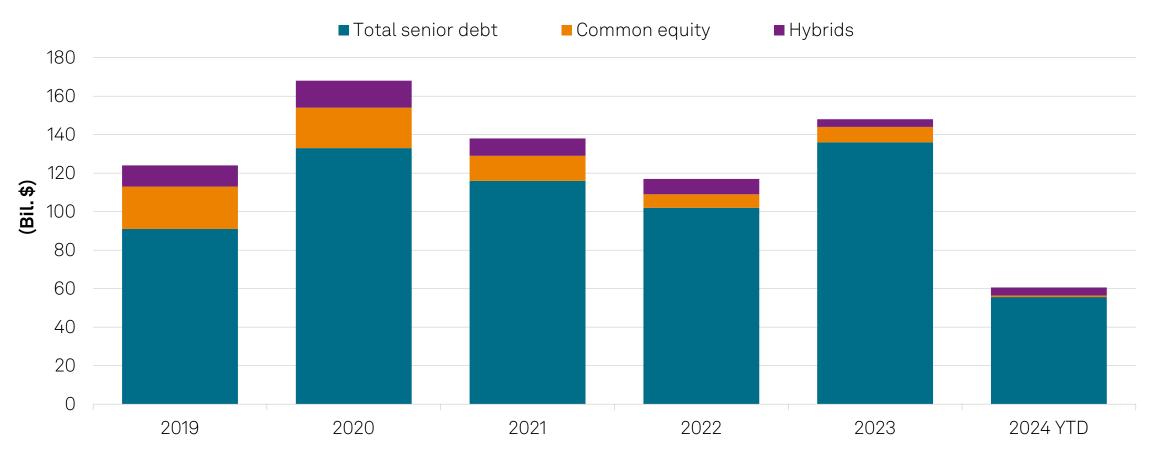
NA Regulated Utilities | Negative Discretionary Cash Flows



As of May. 06, 2024. E- Estimate. Source: S&P Global Ratings.



NA Regulated Utilities | Capital Market Issuance

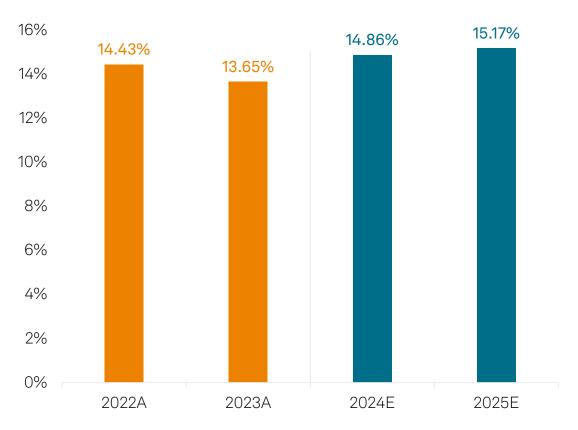


Senior debt includes first-mortgage bonds and senior unsecured. Hybrids includes junior subordinated debt, preferreds, subordinated debt, and equity units. YTD—Year to date as May 6, 2024. Sources: S&P Global Ratings. S&P Market Intelligence.

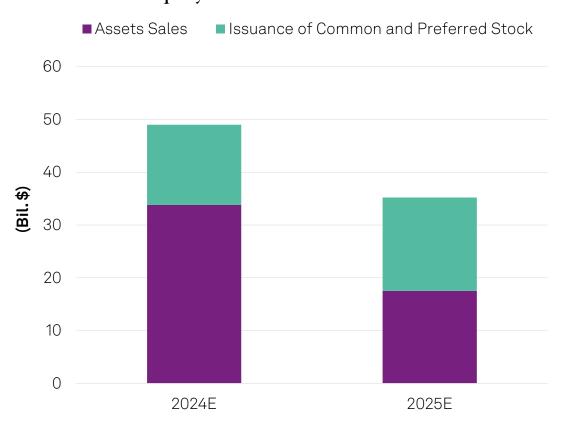


Maintaining Financial Performance | Predicated On Balanced Funding

FFO to debt (average)



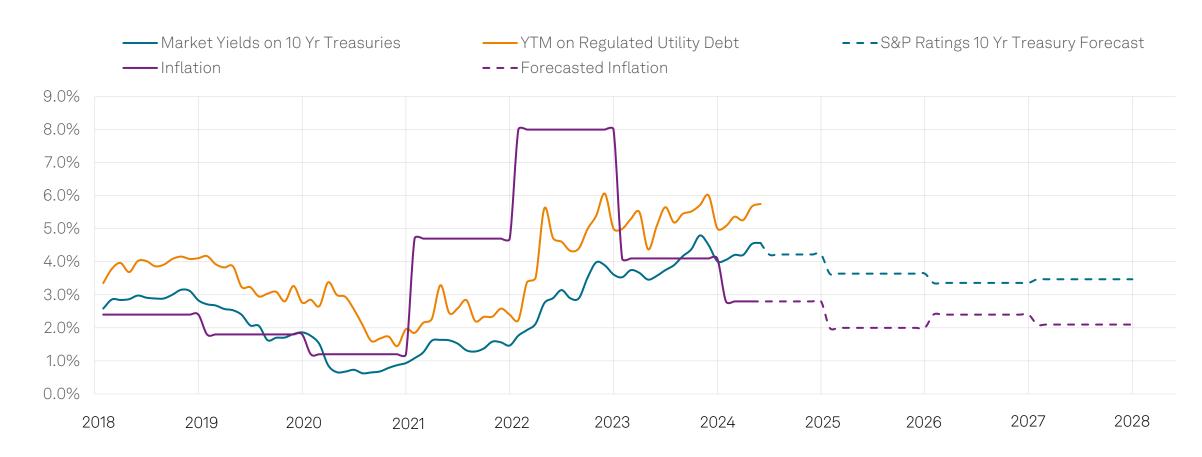
Asset sales and equity issuance



Data as of May. 6, 2024. FFO- Funds from operations. E—Estimate. Source: S&P Global Ratings



10 Year Treasury Yields | Utility Debt Yields | Inflation



Data as of May. 7, 2024. Sources: Federal Reserve Economic Data. Bureau of Economic Analysis. Bureau of Labor Statistics. S&P Capital IQ. S&P Global Ratings: Persistent Above-Target Inflation Will Delay The Start Of Rate Cuts In The U.S.. Economic Outlook U.S. Q2 2024: Heading For An Encore.



S&P Global Ratings | Macroeconomic Outlook

GDP will grow

Recession risk at

Unemployment rate at

The Fed funds rate averages about

2.5%

26%

3.9%

5.3%

In 2024

For the next 12 months

In 2024

In 2024

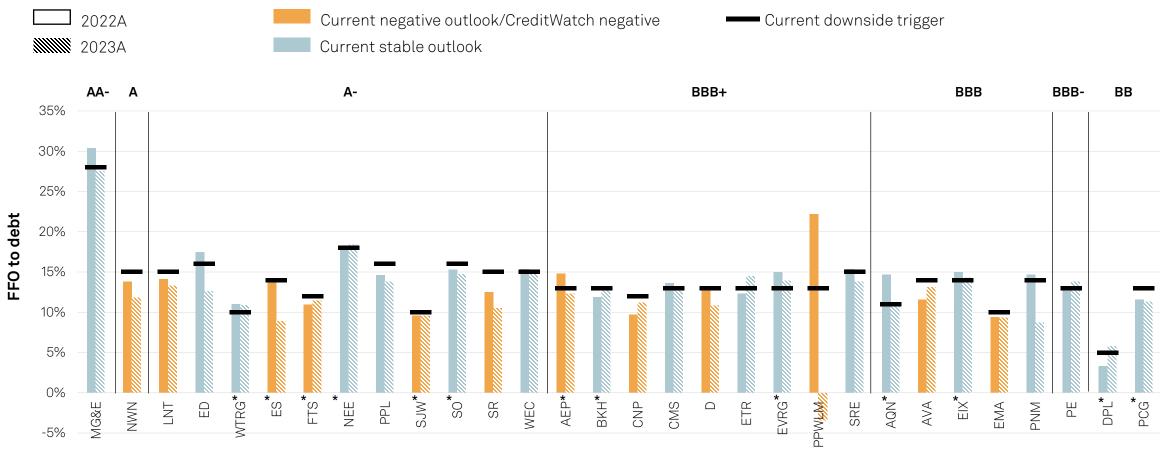
Economic forecast summary – United States

Key indicators	2023	2024f	2025f	2026f	2027f
GDP (Real, YOY%)	2.5	2.5	1.5	1.7	1.9
CPI (Average, YOY%)	4.1	2.8	2.0	2.4	2.1
Unemployment (%)	3.6	3.9	4.2	4.2	3.9
Consumer spending (Real, YOY%)	2.2	2.3	1.9	2.0	2.3
Federal funds rate average (%)	5.0	5.3	4.6	3.3	2.9
10-year Treasury yield (%)	4.0	4.2	3.6	3.4	3.5

As of May. 7, 2024.YOY—Year over year. f—Forecast. Sources: S&P Global Ratings: (1) Persistent Above-Target Inflation Will Delay The Start Of Rate Cuts In The U.S., (2) Economic Outlook U.S. Q2 2024: Heading For An Encore, (3) U.S. Business Cycle Barometer: Recession Risk Moderates, But Growth Is Limited By Potential



NA Regulated Utilities | Minimal Financial Cushion



Data as of May. 9, 2024. FFO--Funds from operations. MG&E—Madison Gas & Electric. NWN--Northwest Natural Holding Co. LNT--Alliant Energy Corp. ED--Consolidated Edison Inc. WTRG--Essential Utilities, Inc. ES--Eversource Energy. FTS--Fortis Inc. NEE--NextEra Energy Inc. PPL--PPL Corp. SJW—SJW Group. SO—The Southern Co. SR--Spire Inc. WEC--WEC Energy Group, Inc. AEP--American Electric Power Co, Inc. BKH--Black Hills Corp. CNP--CenterPoint Energy Inc. CMS--CMS Energy Corp. D--Dominion Energy Inc. ETR--Entergy Corp. EVRG--Evergy Inc. PPWLM---PacifiCorp. SRE--Sempra. AQN--Algonquin Power & Utilities Corp. EVX--Edison International. EMA--Emera Inc. PNM—PNM Resources, Inc. PE--Puget Energy, Inc. DPL--DPL Inc. PCG—PG&E Corp.

Source: S&P Global Ratings.



^{*}Downside trigger was revised since 2022, please refer to the appendix on page 36 for details.

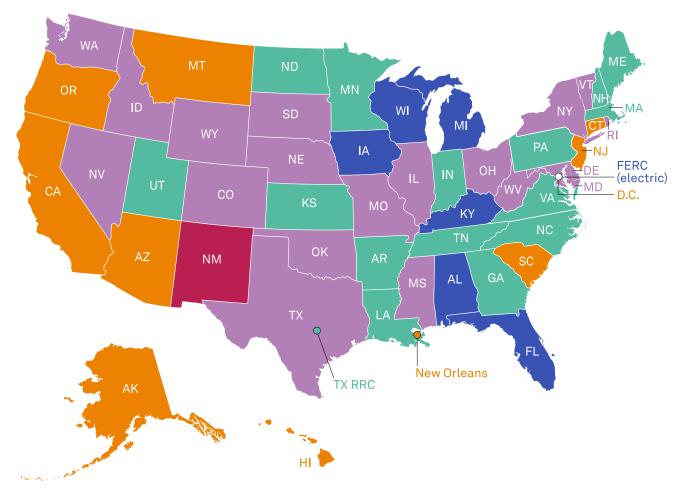
U.S. Monthly Electric Bill For Residential Customers



Source: U.S. Energy Information Administration (EIA), 2023 data is preliminary.



U.S. Regulatory Jurisdiction Assessment



Most credit supportive

Highly credit supportive

Very credit supportive

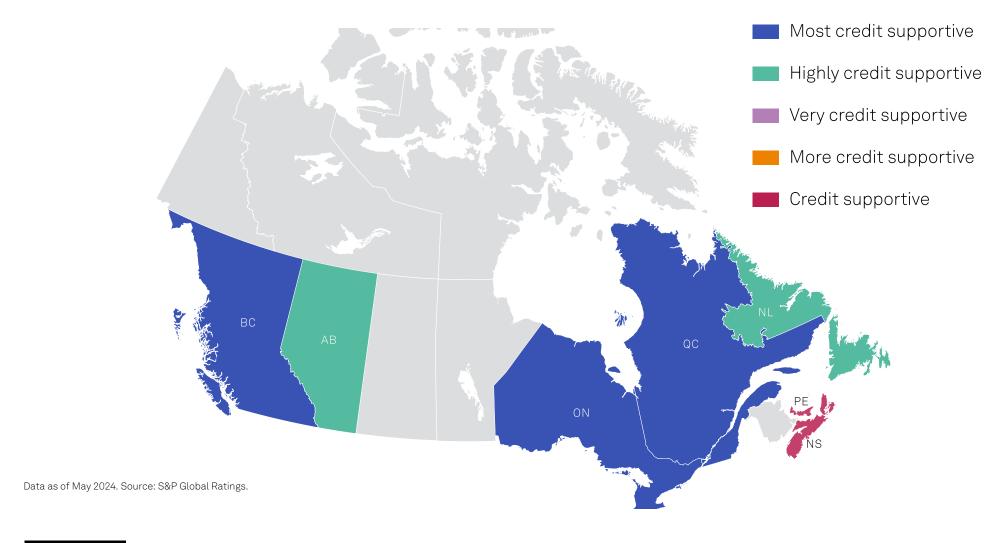
More credit supportive

Credit supportive

Data as of May 2024. Source: S&P Global Ratings.



Canada Regulatory Jurisdiction Assessment





Changes To NA Regulated Utility Jurisdictions

Nova Scotia



- Political interference undermining regulatory construct; breaching regulator's independence;
- Bill 212 limits nonfuel rate increases to 1.8% through 2024. The bill further limits ROE to 9.25% and caps equity ratio at 40%; and
- The Utilities Act amended to increase the annual utility penalty cap to \$25 million from \$1 million.

Most credit supportive (strong)

Highly credit supportive (strong/adequate)

Very credit supportive (strong/adequate)

More credit supportive (strong/adequate)

Credit supportive (adequate)

Changes To NA Regulated Utility Jurisdictions

Mississippi



- Post-Kemper regulation allows for timely cost recovery, minimizing regulatory lag and improving the utility's ability to earn their authorized ROE; and
- Continuation of the performance evaluation plan (PEP), mechanisms to recover system reliability costs, future test years, and the jurisdiction's support to build storm reserves shows a very supportive regulatory jurisdiction.

Most credit supportive (strong)

Highly credit supportive (strong/adequate)

Very credit supportive (strong/adequate)

More credit supportive (strong/adequate)

Credit supportive (adequate)

Changes To NA Regulated Utility Jurisdictions

Oregon



- In 2023, a Multnomah County class action jury verdict against PacifiCorp found the company liable for damages related to four 2020 wildfires;
- The jury found that the company acted in a grossly negligent and reckless manner, awarding the 17 plaintiffs \$4 million in economic damages, \$68 million in noneconomic damages, and \$18 million in punitive damages; and
- The jury also found that a broader absent class affected by the fires could bring claims against the company.

Most credit supportive (strong)

Highly credit supportive (strong/adequate)

Very credit supportive (strong/adequate)

More credit supportive (strong/adequate)

Credit supportive (adequate)

Recent Notable Developments

Ontario



- Local distribution companies' (LDCs) weakening financial performance due to regulatory lag associated with rising transmission costs and higher wholesale market service charges; and
- Lower than average approved equity layers and average approved ROE.

Most credit supportive (strong)

Highly credit supportive (strong/adequate)

Very credit supportive (strong/adequate)

More credit supportive (strong/adequate)

Credit supportive (adequate)

Toronto Hydro Corporation

Entegrus Powerlines Inc.

Windsor Canada Utilities Ltd.

Alectra Inc.

Grandbridge Energy Inc.

London Hydro Inc.

Recent Notable Developments

Connecticut



- Senate Bill 7 gives the commission greater latitude in determining whether companies over earn, prohibits the commission from reauthorizing the electric system improvements charge, and allows discretion for the use of decoupling; and
- Recent rate case order materially deviated from our base case.

Most credit supportive (strong)

Highly credit supportive (strong/adequate)

Very credit supportive (strong/adequate)

More credit supportive (strong/adequate)

Credit supportive (adequate)

The United Illuminating Co. Aquarion Co.

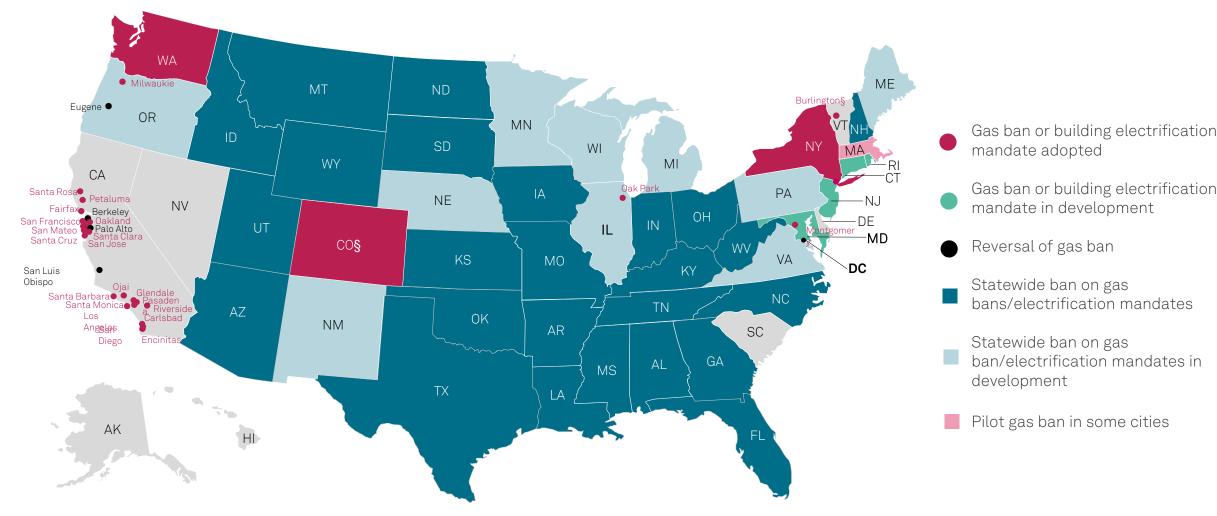
Connecticut Light & Power Co Yankee Gas Services Co.

Connecticut Natural Gas Corp. Avangrid, Inc.

Connecticut Water Service Inc. SJW Group

Southern Connecticut Gas Co. Eversource Energy

Current State Of Gas Bans And Electrification Mandates



Data as of April 26, 2024. *Municipalities shown on map are a subset of municipalities in the US that have gas ban policies or electric reach codes in place. §Colorado and Burlington mandates target emissions requirements set out in respective laws or regulations. Source: S&P Commodity Insights



	Algonquin Power & Utilities Corp.	ALLETE Inc.	Alliant Energy Corp.	AltaGas Ltd.	Ameren Corp.	American Electric Power Co. Inc.	American Water Works Co. Inc.	American States Water Co.	Atmos Energy Corp.	AVANGRID Inc.
Rating/Outlook	BBB/Stable	BBB/Negative	A-/Negative	BBB- /Stable	BBB+/ Stable	BBB+/Negative	A/Stable	A/Stable	A-/Stable	BBB+/Stable
Upgrade trigger	> 13%	N/A	N/A	> 15%	> 18%	N/A	> 16%	> 25%	> 22%	> 20% *
Downgrade trigger	< 11%	< 17%	< 15%	< 10%	< 13%	< 13%	< 12%	< 20%	< 16%	< 17% *
FFO/debt (%)										
2023A	11.2	19.6	13.3	10.7	15.3	12.3	14.3	19.3	21.1	17.9 *
2024E	11-13	17 – 19	14- 17	11 – 13	16 – 17	12 – 15	13 – 14	20 – 23	21 – 22	19 – 20 *
2025E	11-13	17 – 19	14– 17	11 – 13	16 – 17	14 – 16	12 – 14	22 – 25	20 – 21	19 – 20 *
2026E	11-13	17 – 19	14– 17	11 – 13	16 – 17	13 – 15	12 – 14	23 – 26	19 – 20	19 – 20 *

^{*}Reflects parent Iberdrola S.A.'s upgrade and downgrade triggers and metrics. Source: S&P Global as of May. 13, 2024.



	Avista Corp.	Berkshire Hathaway Energy Co.	Black Hills Corp.	CenterPoint Energy Inc.	Cleco Corporate Holdings LLC	CMS Energy Corp.	Consolidated Edison Inc.	Dominion Energy Inc.	DPL Inc.	DTE Energy Co.
Rating/Outlook	BBB/ Negative	A/Stable	BBB+/ Stable	BBB+/ Negative	BBB-/ WatchPos	BBB+/Stable	A-/Stable	BBB+/ Negative	BB/Stable	BBB+/Stable
Upgrade Trigger	N/A	> 21%	> 17%	N/A	> 23%	>16%	> 21%	N/A	>8%	> 18%
Downgrade Trigger	< 14%	< 13%	< 13%	< 12%	N/A	< 13%	< 16%	< 13%	< 5%	< 13%
FFO/Debt (%)										
2023A	13.1	11.3	12.9	11.2	4.1	12.7	12.6	10.8	5.8	16.2
2024E	13 – 14	16 – 17	13 – 14	12 – 13	13 – 15	13 – 15	17 – 19	17 – 18	4 – 7	14 – 16
2025E	14 – 16	15 – 17	13 – 14	12 – 13	13 – 15	13 – 15	17 – 19	13 – 14	4 – 7	14 – 16
2026E	14 – 16	15 – 17	13 – 14	12 – 13	13 – 15	13 – 15	17 – 19	13 – 14	5 – 8	14 – 16



	Duke Energy Corp.	Edison International	Emera Inc.	Energir Inc.	Entergy Corp.	Essential Utilities Inc.	Evergy Inc.	Eversource Energy	Exelon Corp.	FirstEnergy Corp.
Rating/Outlook	BBB+/ Stable	BBB/Stable	BBB/ Negative	A/Stable	BBB+/Stabl e	A-/Stable	BBB+/Stable	A-/Negative	BBB+/ Positive	BBB/ Positive
Upgrade Trigger	>16%	> 20%	N/A	> 20%	> 18%	> 12%	> 16%	N/A	> 13%	> 12%
Downgrade Trigger	< 12%	< 14%	< 10%	< 14%	< 13%	< 10%	< 13%	< 14%	N/A	N/A
FFO/Debt (%)										
2023A	13.3	14.3	9.3	16.8	14.5	10.9	13.9	8.9	12.9	10.4
2024E	12 – 14	15 – 17	9 – 11	16 – 19	14 – 17	10 – 12	14 – 16	13 – 15	13 – 14	12 – 14
2025E	12 – 14	15 – 17	9 – 11	16 – 19	14 – 17	10 – 12	14 – 16	13 – 15	13 – 14	13 – 15
2026E	12 – 14	15 – 17	9 – 11	16 – 19	14 – 17	10 – 12	14 – 16	13 – 15	13 – 14	13 – 15



	Fortis Inc.	Hawaiian Electric Industries Inc.	Hydro One Ltd.	IDACORP Inc.	MDU Resources Group Inc.	Madison Gas & Electric Co.	NextEra Energy Inc.	NiSource Inc.	Northwest Natural Holding Co.	NorthWestern Corp.
Rating/Outlook	A-/Negative	B-/Negative	A/Positive	BBB/Stable	BBB/ Negative	AA-/Stable	A-/Stable	BBB+/ Stable	A/Negative	BBB/Stable
Upgrade Trigger	N/A	N/A	> 11%	> 20%	N/A	> 40%	> 25%	>16%	N/A	> 22%
Downgrade Trigger	< 12%	N/A	N/A	< 14%	< 15%	< 28%	< 18%	< 13%	< 15%	< 14%
FFO/Debt (%)										
2023A	11.4	14.1	13.2	14.5	18.6	27.5	18.4	14.0	11.8	13.4
2024E	11 – 12	14 – 17	12 – 13	15 – 18	16 – 17	27 – 29	18 – 20	14 – 16	14 – 16	14 – 16
2025E	11 – 13	14 – 17	12 – 13	15 – 18	14 – 15	27 – 29	18 – 20	14 – 16	14 – 16	14 – 16
2026E	11 – 13	14 – 17	12 – 13	15 – 18	15 – 16	27 – 29	18 – 20	14 – 16	14 – 16	14 – 16



	OGE Energy Corp.	Oncor Electric Delivery Co. LLC	ONE Gas Inc.	Ontario Power Generation Inc.	Otter Tail Corp.	PacifiCorp	Portland General Electric Co.	PG&E Corp.	Pinnacle West Capital Corp.	PNM Resources Inc.
Rating/Outlook	BBB+/ Stable	A/Stable	A-/Stable	BBB+/Stable	BBB/Stable	BBB+/ Negative	BBB+/ Stable	BB/Stable	BBB+/ Stable	BBB/Stable
Upgrade Trigger	> 18%	> 18%	> 23%	> 20%	> 31%	N/A	>18%	>13%	>19%	> 21%
Downgrade Trigger	< 13%	< 13%	< 16%	< 13%	< 21%	< 13%	< 15%	< 13%	< 13%	< 14%
FFO/Debt (%)										
2023A	18.3	14.1	20.4	19.8	41.7	(3.4)	16.2	11.3	15.7	8.7
2024E	16 – 18	13 – 14	18 – 20	13 – 14	26 – 42	13 – 15	18 – 20	13 – 15	17 – 19	14 – 15
2025E	17 – 19	13 – 14	18 – 20	13 – 14	26 – 42	13 – 15	16 – 18	16 – 18	17 – 19	14 – 15
2026E	17 – 19	13 – 14	18 – 20	13 – 14	26 – 42	13 – 15	19 – 21	17 – 19	17 – 19	14 – 15



	PPL Corp.	Puget Energy Inc.	Sempra	SJW Group	Southern Co.	Southwest Gas Holdings Inc.	Spire Inc.	WEC Energy Group Inc.	Xcel Energy Inc.
Rating/Outlook	A-/Stable	BBB-/Stable	BBB+ /Stable	A-/Negative	A-/Stable	BBB-/Positive	A-/Negative	A-/Stable	BBB+/Negative
Upgrade Trigger	> 21%	>16%	> 25%	N/A	> 21%	>10%	N/A	> 20%	N/A
Downgrade Trigger	< 16%	< 13%	< 15%	< 10%	< 16%	N/A	< 15%	< 15%	< 13%
FFO/Debt (%)									
2023A	13.8	13.8	13.8	9.6	14.7	12.0	10.5	15.3	16.2
2024E	17 – 19	14- 16	15 – 16	10 – 11	16 – 17	10 – 12	13 – 14	15 – 16	15 – 16
2025E	17 – 19	14 – 16	15 – 16	10 – 11	16 – 17	10 – 12	13 – 14	15 – 16	15 – 16
2026E	17 – 19	14 – 16	15 – 16	10 – 11	16 – 17	10 – 12	14 – 15	15 – 16	15 – 16



Appendix

- NextEra Energy's (NEE) downside trigger was revised on March 16, 2023, to 18% from 20%
- Algonquin Power and Utilities Corp.'s (AQN) downside trigger was revised on August 15, 2023, to 11% from 14%, predicated on the sale of the renewable business
- DPL Inc.'s (DPL) downside trigger was revised on August 18, 2023, to 5%
- Fortis Inc.'s (FTS) downside trigger was revised on November 03, 2023, to 12% from 10.5%
- SJW Group's (SJW) downside trigger was revised on September 19, 2023, to 10% from 9%
- Evergy Inc. (EVRG) was downgraded to 'BBB+' from 'A-' on November 29, 2023, and downside trigger was revised to 13%
- Eversource Energy's (ES) downside trigger was revised on January 11, 2024, to 14% from 13%
- PG&E Corp. (PCG) was upgraded to 'BB' from 'BB-' on February 24, 2024, and downgrade trigger was revised to 13%
- American Electric Power (AEP) was downgraded to 'BBB+' from 'A-' on March 04, 2024, and downside trigger was revised to 13%
- Essential Utilities, Inc. (WTRG) was downgraded to 'A-' from 'A' on March 19, 2024, and downside trigger was revised to 10%
- Edison International's (EIX) downside trigger was revised on April 22, 2024, to 14% from 15%
- The Southern Co. (SO) was upgraded to 'A-' from 'BBB+' on May 02, 2024, and downgrade trigger was revised to 16%
- Black Hills Corp.'s (BKH) downside trigger was revised on May 09, 2024, to 13%

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