

**BEFORE THE**  
**WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION**

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION	)	DOCKETS UE-190334, UG-190335, and UE-190222 ( <i>Consolidated</i> )
Complainant,	)	
v.	)	
AVISTA CORPORATION d/b/a AVISTA UTILITIES	)	
Respondent.	)	
_____	)	

**EXHIBIT MPG-4**  
**VALUATION METRICS**  
**OCTOBER 3, 2019**

## Avista Corporation

### Electric Utilities (Valuation Metrics)

Line	Company	Price to Earnings (P/E) Ratio <sup>1</sup>																		
		18-Year																		
		Average	2019 <sup>2</sup>	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
1	ALLETE	17.64	23.60	15.06	23.05	18.63	15.06	17.23	18.59	15.88	14.66	15.98	16.08	13.95	14.78	16.55	17.91	25.21	N/A	N/A
2	Alliant Energy	16.23	21.30	18.07	20.60	22.30	18.07	16.60	15.28	14.50	14.45	12.47	13.86	13.43	15.08	16.82	12.59	14.00	12.69	19.93
3	Ameren Corp.	15.96	22.60	17.55	20.60	18.29	17.55	16.71	16.52	13.35	11.93	9.66	9.26	14.21	17.45	19.39	16.72	16.28	13.51	15.78
4	American Electric Power	14.36	21.20	15.77	19.33	15.16	15.77	15.88	14.49	13.77	11.92	13.42	10.03	13.06	16.27	12.91	13.70	12.42	10.66	12.68
5	Avangrid, Inc.	30.35	22.10	40.94	27.27	20.49	40.94	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6	Avista Corp.	17.84	16.00	17.60	23.37	18.80	17.60	17.28	14.64	19.30	14.08	12.74	11.42	14.97	30.88	15.39	19.45	24.43	13.84	19.27
7	Black Hills	17.87	22.50	16.14	19.48	22.29	16.14	19.03	18.24	17.13	31.13	18.10	9.93	N/A	15.02	15.77	17.27	17.13	15.95	12.52
8	CenterPoint Energy	15.06	19.20	18.10	17.91	21.91	18.10	16.96	18.75	14.85	14.58	13.78	11.81	11.27	15.00	10.27	19.06	17.84	6.05	5.59
9	CMS Energy Corp.	17.16	22.60	18.29	21.32	20.94	18.29	17.30	16.32	15.07	13.62	12.46	13.56	10.87	26.84	22.18	12.60	12.39	N/A	N/A
10	Consol. Edison	15.56	20.90	15.59	19.77	18.80	15.59	15.90	14.72	15.39	15.08	13.30	12.55	12.29	13.78	15.49	15.13	18.21	14.30	13.28
11	Dominion Resources	18.44	21.00	22.14	22.17	21.33	22.14	22.97	19.25	18.91	17.27	14.35	12.74	13.78	20.63	15.98	24.89	15.07	15.24	12.05
12	DTE Energy	15.73	20.20	18.11	18.59	18.97	18.11	14.91	17.92	14.89	13.51	12.27	10.41	14.81	18.27	17.43	13.80	16.04	13.69	11.28
13	Duke Energy	17.02	17.60	18.22	19.93	21.25	18.22	17.91	17.45	17.46	13.76	12.69	13.32	17.28	16.13	N/A	N/A	N/A	N/A	N/A
14	Edison Int'l	14.01	14.80	14.77	17.23	17.92	14.77	13.05	12.70	9.71	11.81	10.32	9.72	12.36	16.03	12.99	11.74	37.59	6.97	7.78
15	El Paso Electric	17.64	25.50	18.33	21.78	18.66	18.33	16.38	15.88	14.47	12.60	10.72	10.79	11.89	15.26	16.92	26.72	22.03	18.26	22.99
16	Entergy Corp.	13.58	16.80	12.53	15.01	10.92	12.53	12.89	13.21	11.22	9.06	11.57	11.98	16.56	19.30	14.28	16.28	15.09	13.77	11.53
17	Eversource Energy	17.85	22.10	18.11	19.47	18.69	18.11	17.92	16.94	19.86	15.35	13.42	11.96	13.66	18.75	27.07	19.76	20.77	13.35	16.07
18	Evergy, Inc.	20.90	20.90	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19	Exelon Corp.	14.32	15.00	12.58	13.41	18.68	12.58	16.02	13.43	19.08	11.30	10.97	11.49	17.97	18.22	16.53	15.37	12.99	11.77	10.46
20	FirstEnergy Corp.	17.24	16.80	17.02	11.41	15.91	17.02	39.79	13.06	21.10	22.39	11.75	13.02	15.64	15.59	14.23	16.07	14.13	22.47	12.95
21	Fortis Inc.	19.11	19.00	18.00	16.81	21.60	18.00	24.29	19.97	20.12	18.79	18.22	16.36	17.48	21.14	17.68	N/A	N/A	N/A	N/A
22	Great Plains Energy	15.76	N/A	19.37	NMF	17.98	19.37	16.47	14.19	15.53	16.11	12.10	16.03	20.55	16.35	18.30	13.96	12.59	12.23	11.09
23	Hawaiian Elec.	18.36	22.30	20.40	20.69	13.56	20.40	15.88	16.21	15.81	17.09	18.59	19.79	23.16	21.57	20.33	18.27	19.18	13.76	13.47
24	IDACORP, Inc.	16.37	23.70	16.22	20.60	19.06	16.22	14.67	13.45	12.41	11.54	11.83	10.20	13.93	18.19	15.07	16.70	15.49	26.51	18.88
25	MGE Energy	18.68	25.10	20.28	29.36	24.90	20.28	17.19	17.01	17.23	15.82	14.98	15.14	14.22	15.01	15.88	22.40	17.98	17.55	15.96
26	NextEra Energy, Inc.	16.36	24.30	16.89	21.65	20.71	16.89	17.25	16.57	14.43	11.54	10.83	13.42	14.48	18.90	13.65	17.88	13.65	17.88	13.60
27	NorthWestern Corp	17.06	19.70	18.36	17.85	17.19	18.36	16.24	16.86	15.72	12.62	12.90	11.54	13.87	21.74	25.95	17.09	N/A	N/A	N/A
28	OGE Energy	15.32	19.80	17.69	18.32	17.68	17.69	18.27	17.69	15.16	14.37	13.31	10.83	12.41	13.75	13.68	14.95	14.13	11.84	14.12
29	Otter Tail Corp.	23.93	23.70	18.20	22.06	20.19	18.20	18.84	21.12	21.75	47.48	55.10	31.16	30.06	19.02	17.35	15.40	17.34	17.77	16.01
30	PG&E Corp.	17.39	N/A	26.40	18.28	21.13	26.40	15.00	23.67	20.70	15.46	15.80	13.01	12.08	16.85	14.84	15.37	13.81	9.50	N/A
31	Pinnacle West Capital	15.77	19.20	16.04	19.28	18.74	16.04	15.89	15.27	14.35	14.60	12.57	13.74	16.07	14.93	13.69	19.24	15.80	13.96	14.43
32	PNM Resources	18.02	22.50	16.85	20.43	19.83	16.85	18.68	16.13	14.97	14.53	14.05	18.09	N/A	35.65	15.57	17.38	15.02	14.73	15.08
33	Portland General	16.69	22.60	17.71	20.03	19.06	17.71	15.32	16.88	13.98	12.37	12.00	14.40	16.30	11.94	23.35	N/A	N/A	N/A	N/A
34	PPL Corp.	14.14	12.00	13.92	17.65	12.83	13.92	14.08	12.84	10.88	10.52	11.93	25.69	17.64	17.26	14.10	15.12	12.51	10.59	11.06
35	Public Serv. Enterprise	13.44	16.10	12.41	16.31	15.35	12.41	12.61	13.50	12.79	10.40	10.37	10.04	13.65	16.54	17.81	16.74	14.26	10.58	10.00
36	SCANA Corp.	14.00	N/A	14.67	14.46	16.80	14.67	13.68	14.43	14.80	13.67	12.93	11.63	12.67	14.96	15.42	14.44	13.57	13.05	12.17
37	Sempra Energy	15.42	23.60	19.73	24.33	24.37	19.73	21.87	19.68	14.89	11.77	12.60	10.09	11.80	14.01	11.50	11.79	8.65	8.96	8.19
38	Southern Co.	15.82	18.00	15.85	15.48	17.76	15.85	16.04	16.19	16.97	15.85	14.90	13.52	16.13	15.95	16.19	15.92	14.68	14.83	14.63
39	Vectren Corp.	17.10	N/A	17.92	23.54	19.18	17.92	19.98	20.66	15.02	15.83	15.10	12.89	16.79	15.33	18.92	15.11	17.57	14.80	14.16
40	WEC Energy Group	16.63	23.10	21.33	20.01	19.95	21.33	17.71	16.50	15.76	14.25	14.01	13.35	14.77	16.47	15.97	14.46	17.51	12.43	10.46
41	Westar Energy	15.75	N/A	18.45	23.40	21.59	18.45	15.36	14.04	13.43	14.78	12.96	14.95	16.96	14.10	12.18	14.79	17.44	10.78	14.02
42	Xcel Energy Inc.	17.12	23.50	16.54	20.20	18.48	16.54	15.44	15.04	14.82	14.24	14.13	12.66	13.69	16.65	14.80	15.36	13.65	11.62	40.80
43	Average	16.58	20.56	18.00	19.81	18.97	18.00	17.39	16.38	15.69	15.30	14.28	13.56	15.18	17.74	16.47	16.52	16.57	13.70	14.31
44	Median	16.00	21.20	17.71	19.97	18.80	17.71	16.54	16.27	15.04	14.31	12.91	12.82	14.21	16.41	15.88	15.92	15.29	13.60	13.47

Sources:

<sup>1</sup> The Value Line Investment Survey Investment Analyzer Software, downloaded on June 25, 2019.

<sup>2</sup> The Value Line Investment Survey, June 14, July 26, and August 16, 2019.

## Avista Corporation

### Electric Utilities (Valuation Metrics)

		Market Price to Cash Flow (MP/CF) Ratio <sup>1</sup>																		
Line	Company	18-Year																		
		Average (1)	2019 <sup>2/a</sup> (2)	2018 (3)	2017 (4)	2016 (5)	2015 (6)	2014 (7)	2013 (8)	2012 (9)	2011 (10)	2010 (11)	2009 (12)	2008 (13)	2007 (14)	2006 (15)	2005 (16)	2004 (17)	2003 (18)	2002 (19)
1	ALLETE	9.46	10.25	10.16	10.95	8.26	7.49	8.80	9.15	8.18	7.91	8.04	8.51	9.29	10.30	11.06	11.54	11.46	N/A	N/A
2	Alliant Energy	7.78	10.22	9.71	13.21	10.67	8.86	8.40	7.52	7.50	7.21	6.59	6.23	7.49	7.92	8.00	5.09	5.52	4.76	5.20
3	Ameren Corp.	7.00	8.75	7.95	8.38	7.44	6.87	6.95	6.61	5.48	5.02	4.23	4.25	6.35	7.69	8.57	8.57	8.24	6.74	7.96
4	American Electric Power	6.39	8.77	8.03	8.81	7.57	7.09	7.00	6.57	5.93	5.46	5.54	4.71	5.71	6.84	5.54	6.07	5.50	4.69	5.19
5	Avangrid, Inc.	9.94	9.46	10.24	10.14	8.56	11.30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6	Avista Corp.	6.74	7.30	10.14	9.35	7.63	6.76	7.30	6.21	6.88	6.40	5.80	4.06	5.12	7.58	5.30	6.58	7.58	5.36	5.90
7	Black Hills	7.76	10.27	8.83	9.20	9.33	8.06	8.81	8.03	6.04	7.85	6.16	4.25	11.26	7.62	6.92	7.57	6.69	6.89	5.92
8	CenterPoint Energy	5.12	6.29	8.45	6.97	5.96	5.75	6.25	6.56	5.15	5.39	4.70	4.05	4.29	5.17	3.94	4.70	4.26	2.08	2.16
9	CMS Energy Corp.	5.82	8.81	8.40	8.75	8.50	7.53	7.13	6.68	6.03	5.41	4.48	3.64	3.45	5.57	4.40	4.04	3.20	2.88	NMF
10	Consol. Edison	8.26	9.41	8.73	9.64	9.39	7.96	7.89	7.77	8.31	8.15	7.39	6.72	6.89	8.31	8.65	8.59	9.31	7.90	7.64
11	Dominion Resources	9.59	12.66	10.94	11.35	11.59	11.84	12.27	10.88	9.92	9.45	8.12	6.98	8.27	8.65	7.81	10.09	7.68	7.51	6.53
12	DTE Energy	6.37	9.31	8.54	9.05	8.64	8.52	6.42	6.65	5.91	5.18	4.69	3.59	4.90	5.73	5.21	5.54	6.00	5.62	5.20
13	Duke Energy	7.58	7.41	7.65	8.40	8.57	7.95	8.12	8.11	9.53	6.56	6.01	5.96	7.13	7.16	N/A	N/A	N/A	N/A	N/A
14	Edison Int'l	5.76	5.81	13.46	7.05	6.77	5.92	5.68	5.46	4.59	4.22	4.11	3.95	5.63	7.01	5.87	5.61	6.84	2.82	2.96
15	El Paso Electric	6.09	8.76	9.43	8.54	7.46	6.47	6.33	6.19	5.78	5.16	4.31	3.98	4.95	6.44	6.25	6.67	4.65	3.90	4.39
16	Entergy Corp.	5.70	5.60	4.92	4.66	4.01	4.11	4.21	4.03	4.23	3.90	4.66	5.68	7.96	9.21	7.16	8.76	7.12	6.84	5.57
17	Eversource Energy	6.83	9.90	9.16	10.36	10.14	10.12	10.14	8.08	9.30	6.99	4.97	4.61	4.12	6.18	6.02	3.55	3.78	2.85	2.75
18	Evergy, Inc.	8.06	8.06	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19	Exelon Corp.	6.08	5.17	5.05	4.45	4.80	4.70	5.09	4.61	5.54	5.86	5.10	5.98	9.65	9.89	8.62	7.97	6.29	5.71	4.97
20	FirstEnergy Corp.	6.44	7.87	8.84	4.76	5.12	5.38	7.43	6.15	7.42	7.33	4.49	4.91	7.58	7.89	7.53	6.04	5.15	6.90	5.10
21	Fortis Inc.	8.20	8.38	7.97	8.23	10.46	7.29	9.25	7.93	8.09	8.38	7.40	6.76	7.58	9.18	7.89	N/A	N/A	N/A	N/A
22	Great Plains Energy	6.89	N/A	N/A	14.62	8.63	6.66	6.45	5.73	6.09	5.74	4.49	5.06	7.71	7.13	7.68	6.70	6.52	5.92	5.14
23	Hawaiian Elec.	8.01	8.98	8.34	9.21	7.44	9.25	7.64	8.15	8.05	7.73	7.81	6.95	9.10	7.95	8.47	8.29	8.44	6.12	6.20
24	IDACORP, Inc.	8.35	12.29	11.72	11.56	10.95	9.37	8.59	7.78	7.05	6.64	6.52	5.31	7.10	8.23	7.73	7.55	7.15	7.27	7.53
25	MGE Energy	11.26	13.71	15.04	17.33	15.66	12.53	11.42	11.20	10.77	9.48	9.05	8.40	8.42	9.23	9.30	11.73	11.04	10.20	8.09
26	NextEra Energy, Inc.	7.81	12.44	10.76	11.62	9.23	7.93	7.98	7.60	7.58	5.98	5.33	6.09	7.34	9.02	6.51	6.71	6.71	5.97	5.77
27	NorthWestern Corp.	7.66	8.91	8.19	8.82	8.65	8.99	9.01	7.61	6.85	5.89	5.79	5.05	5.57	8.45	9.39	7.31	8.13	N/A	N/A
28	OGE Energy	7.89	10.10	9.36	10.52	9.03	9.25	10.65	9.93	7.35	7.48	6.61	5.37	6.43	7.58	7.50	7.04	6.73	5.62	5.39
29	Otter Tail Corp.	9.40	12.09	11.58	11.09	9.38	9.04	9.45	9.58	8.43	9.04	8.07	8.01	11.65	9.53	8.66	8.18	9.01	8.13	8.33
30	PG&E Corp.	5.55	N/A	- 5.65	7.09	7.26	7.24	5.65	6.84	5.86	5.32	5.42	4.71	4.61	5.84	5.28	5.07	5.13	4.05	14.69
31	Pinnacle West Capital	6.15	7.82	7.09	8.73	7.89	6.91	7.03	6.85	6.34	5.80	5.65	3.84	4.19	4.76	4.48	7.48	5.88	4.80	5.21
32	PNM Resources	6.80	7.98	7.57	7.40	7.64	6.95	7.48	6.47	5.80	4.94	4.58	4.53	7.10	10.67	7.50	7.62	6.84	5.55	5.72
33	Portland General	5.79	7.09	6.56	7.45	7.12	6.73	5.49	6.06	5.08	4.86	4.13	4.63	4.81	5.34	5.74	N/A	N/A	N/A	N/A
34	PPL Corp.	7.47	7.68	7.02	10.11	8.37	8.73	7.32	6.59	5.87	5.98	7.46	8.82	9.17	8.90	7.58	7.57	6.49	5.41	5.30
35	Public Serv. Enterprise	7.48	8.27	9.48	8.67	8.56	6.66	6.48	6.40	6.40	6.03	6.04	6.20	8.46	9.83	8.41	8.59	7.17	6.79	6.24
36	SCANA Corp.	7.09	N/A	N/A	8.26	9.59	8.33	7.50	7.49	7.40	6.75	6.52	5.88	6.38	7.15	7.03	5.40	6.86	6.59	6.36
37	Sempra Energy	7.93	11.07	10.10	10.65	10.88	9.99	10.77	9.37	7.26	6.13	6.53	6.07	7.07	8.61	7.22	6.96	5.16	4.85	4.00
38	Southern Co.	8.13	8.15	7.05	7.49	8.83	8.23	8.42	8.30	8.75	8.22	7.79	7.08	8.18	8.62	8.47	8.41	8.28	8.28	7.83
39	Vectren Corp.	7.08	N/A	N/A	10.32	8.60	7.82	7.57	6.82	5.79	5.81	5.58	5.24	6.90	6.53	7.37	7.06	7.63	7.27	6.92
40	WEC Energy Group	8.58	11.64	10.82	11.04	10.95	12.90	10.27	9.58	9.24	8.43	8.15	6.87	7.57	7.84	7.27	6.40	6.27	4.91	4.27
41	Westar Energy	6.91	N/A	N/A	10.87	10.86	9.05	7.93	7.23	6.71	6.67	5.51	5.32	7.09	6.88	5.81	7.00	6.54	4.24	2.94
42	Xcel Energy Inc.	6.59	8.78	7.90	8.50	8.10	7.62	7.31	7.00	6.85	6.47	6.28	5.43	5.71	6.51	5.54	5.62	5.31	4.27	5.46
43	Average	7.30	9.07	8.64	9.36	8.65	8.05	7.85	7.39	6.98	6.53	6.00	5.59	6.95	7.72	7.12	7.13	6.77	5.70	5.85
44	Median	7.17	8.78	8.73	9.05	8.57	7.93	7.54	7.12	6.85	6.27	5.80	5.35	7.09	7.76	7.37	7.04	6.71	5.62	5.52

Sources:

<sup>1</sup> The Value Line Investment Survey Investment Analyzer Software, downloaded on June 25, 2019.

<sup>2</sup> The Value Line Investment Survey, June 14, July 26, and August 16, 2019.

Note:

<sup>a</sup> Based on the average of the high and low price for 2019 and the projected 2019 Cash Flow per share, published in The Value Line Investment Survey, June 14, July 26, and August 16, 2019.

## Avista Corporation

### Electric Utilities (Valuation Metrics)

		Market Price to Book Value (MP/BV) Ratio <sup>1</sup>															
Line	Company	15-Year															
		Average (1)	2019 <sup>2b</sup> (2)	2018 (3)	2017 (4)	2016 (5)	2015 (6)	2014 (7)	2013 (8)	2012 (9)	2011 (10)	2010 (11)	2009 (12)	2008 (13)	2007 (14)	2006 (15)	2005 (16)
1	ALLETE	1.61	1.82	1.79	1.78	1.53	1.37	1.42	1.51	1.34	1.35	1.28	1.15	1.55	1.89	2.09	2.22
2	Alliant Energy	1.70	2.06	2.16	2.38	2.17	1.86	1.86	1.70	1.57	1.46	1.31	1.04	1.33	1.67	1.52	1.33
3	Ameren Corp.	1.45	2.11	1.95	1.93	1.67	1.46	1.45	1.29	1.18	0.90	0.83	0.78	1.25	1.60	1.62	1.68
4	American Electric Power	1.56	2.01	1.82	1.88	1.81	1.55	1.54	1.40	1.31	1.23	1.23	1.08	1.48	1.85	1.56	1.57
5	Avangrid, Inc.	0.90	1.02	1.02	0.93	0.83	0.72	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6	Avista Corp.	1.32	1.50	1.88	1.73	1.57	1.36	1.33	1.25	1.21	1.19	1.07	0.94	1.11	1.29	1.30	1.13
7	Black Hills	1.51	1.85	1.61	2.06	1.94	1.59	1.79	1.62	1.21	1.14	1.07	0.83	1.22	1.57	1.47	1.63
8	CenterPoint Energy	2.34	1.60	2.18	2.59	2.73	2.43	2.27	2.30	1.99	1.87	1.96	1.77	2.49	3.13	2.75	3.06
9	CMS Energy Corp.	2.01	2.95	2.81	2.93	2.72	2.43	2.26	2.09	1.91	1.66	1.48	1.10	1.23	1.82	1.42	1.32
10	Consol. Edison	1.41	1.55	1.49	1.63	1.58	1.42	1.34	1.38	1.47	1.38	1.22	1.08	1.17	1.47	1.47	1.52
11	Dominion Resources	2.62	2.17	2.40	2.94	3.15	3.34	3.55	2.97	2.84	2.37	2.01	1.80	2.42	2.69	2.07	2.50
12	DTE Energy	1.48	1.96	1.91	2.01	1.82	1.65	1.62	1.51	1.35	1.20	1.16	0.89	1.10	1.35	1.29	1.39
13	Duke Energy	1.20	1.41	1.33	1.41	1.35	1.29	1.28	1.19	1.12	1.11	1.00	0.91	1.06	1.15	N/A	N/A
14	Edison Int'l	1.67	1.79	1.97	2.17	1.92	1.76	1.68	1.57	1.53	1.24	1.07	1.04	1.56	2.05	1.80	1.93
15	El Paso Electric	1.59	1.94	1.94	1.87	1.68	1.48	1.52	1.49	1.59	1.64	1.17	0.98	1.33	1.69	1.71	1.76
16	Entergy Corp.	1.72	1.78	1.74	1.76	1.67	1.40	1.33	1.21	1.31	1.35	1.62	1.66	2.44	2.65	1.89	2.01
17	Eversource Energy	1.45	1.88	1.68	1.73	1.64	1.53	1.47	1.38	1.28	1.50	1.31	1.12	1.31	1.60	1.22	1.05
18	Evergy, Inc.	1.50	1.50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19	Exelon Corp.	2.23	1.42	1.31	1.20	1.20	1.14	1.28	1.17	1.46	1.95	2.07	2.57	4.39	4.79	3.89	3.60
20	FirstEnergy Corp.	1.93	2.74	2.67	3.53	2.37	1.16	1.15	1.28	1.44	1.33	1.36	1.54	2.52	2.23	1.92	1.64
21	Fortis Inc.	1.46	1.31	1.24	1.41	1.26	1.33	1.35	1.45	1.59	1.59	1.56	1.33	1.48	1.63	1.96	N/A
22	Great Plains Energy	1.21	N/A	N/A	1.33	1.17	1.12	1.11	1.02	0.96	0.93	0.87	0.80	1.11	1.66	1.77	1.86
23	Hawaiian Elec.	1.64	1.94	1.76	1.76	1.63	1.71	1.49	1.54	1.62	1.54	1.44	1.16	1.61	1.57	2.01	1.78
24	IDACORP, Inc.	1.42	2.00	1.96	1.94	1.76	1.54	1.45	1.33	1.19	1.17	1.13	0.92	1.09	1.26	1.37	1.22
25	MGE Energy	2.07	2.63	2.59	2.88	2.60	2.10	2.10	2.06	1.92	1.75	1.65	1.54	1.62	1.75	1.83	2.09
26	NextEra Energy, Inc.	2.03	2.76	2.32	2.35	2.30	2.09	2.15	1.93	1.74	1.55	1.49	1.70	2.06	2.34	1.80	1.93
27	NorthWestern Corp	1.46	1.65	1.48	1.64	1.68	1.60	1.54	1.56	1.42	1.35	1.22	1.07	1.15	1.48	1.65	1.42
28	OGE Energy	1.84	1.99	1.75	1.82	1.73	1.79	2.22	2.24	1.94	1.90	1.70	1.37	1.52	1.98	1.91	1.80
29	Otter Tail Corp.	1.83	2.59	2.49	2.33	1.90	1.78	1.90	1.96	1.58	1.35	1.19	1.18	1.71	1.93	1.76	1.74
30	PG&E Corp.	1.60	N/A	1.70	1.71	1.69	1.57	1.39	1.38	1.41	1.46	1.56	1.41	1.50	1.94	1.83	1.84
31	Pinnacle West Capital	1.41	1.87	1.74	1.91	1.72	1.52	1.44	1.47	1.39	1.25	1.14	0.95	1.00	1.26	1.26	1.25
32	PNM Resources	1.24	2.21	1.83	1.84	1.56	1.33	1.21	1.09	0.98	0.80	0.69	0.56	0.66	1.23	1.21	1.45
33	Portland General	1.32	1.72	1.56	1.69	1.56	1.42	1.37	1.28	1.14	1.09	0.94	0.92	1.05	1.32	1.36	N/A
34	PPL Corp.	2.12	1.75	1.81	2.40	2.46	2.24	1.64	1.55	1.58	1.47	1.61	2.10	3.19	3.05	2.43	2.50
35	Public Serv. Enterprise	1.91	1.87	1.81	1.68	1.67	1.58	1.57	1.44	1.46	1.59	1.67	1.78	2.58	2.99	2.46	2.45
36	SCANA Corp.	1.51	N/A	N/A	1.65	1.74	1.47	1.48	1.48	1.48	1.36	1.33	1.20	1.45	1.62	1.64	1.72
37	Sempra Energy	1.80	2.07	2.06	2.24	2.00	2.17	2.20	1.84	1.53	1.28	1.35	1.32	1.60	1.87	1.70	1.73
38	Southern Co.	2.04	1.93	1.89	2.07	2.01	1.99	2.02	2.04	2.15	1.99	1.83	1.73	2.12	2.24	2.23	2.35
39	Vectren Corp.	1.83	N/A	N/A	2.75	2.29	2.11	2.08	1.82	1.57	1.53	1.41	1.34	1.64	1.74	1.77	1.82
40	WEC Energy Group	1.90	2.34	2.11	2.10	2.09	1.82	2.34	2.21	2.05	1.81	1.65	1.40	1.57	1.77	1.71	1.62
41	Westar Energy	1.37	N/A	N/A	1.94	1.95	1.49	1.44	1.33	1.26	1.20	1.10	0.93	1.10	1.36	1.30	1.41
42	Xcel Energy Inc.	1.59	2.21	1.97	2.06	1.88	1.66	1.55	1.50	1.51	1.41	1.32	1.19	1.30	1.53	1.40	1.38
43	Average	1.69	1.94	1.88	2.00	1.85	1.67	1.68	1.60	1.51	1.43	1.35	1.25	1.63	1.90	1.78	1.80
44	Median	1.60	1.93	1.83	1.91	1.74	1.57	1.53	1.49	1.47	1.37	1.31	1.15	1.48	1.71	1.71	1.73

Sources:

<sup>1</sup> The Value Line Investment Survey Investment Analyzer Software, downloaded on June 25, 2019.

<sup>2</sup> The Value Line Investment Survey, June 14, July 26, and August 16, 2019.

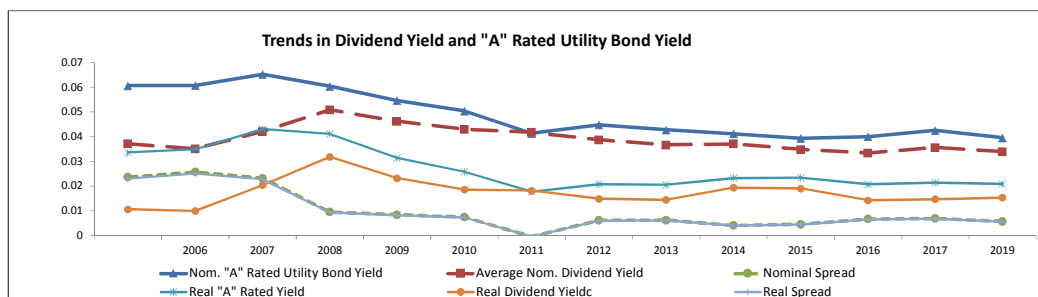
Notes:

<sup>b</sup> Based on the average of the high and low price for 2018 and the projected 2018 Book Value per share, published in The Value Line Investment Survey, June 14, July 26, and August 16, 2019.

## Avista Corporation

### Electric Utilities (Valuation Metrics)

Line	Company	Dividend Yield <sup>1</sup>														
		14-Year Average (1)	2019 <sup>2a</sup> (2)	2018 (3)	2017 (4)	2016 (5)	2015 (6)	2014 (7)	2013 (8)	2012 (9)	2011 (10)	2010 (11)	2009 (12)	2008 (13)	2007 (14)	2006 (15)
1	ALLETE	3.95%	3.00%	2.99%	2.97%	3.56%	3.97%	3.92%	3.89%	4.49%	4.58%	5.03%	5.79%	4.37%	3.60%	3.16%
2	Alliant Energy	3.77%	3.16%	3.20%	3.07%	3.21%	3.60%	3.53%	3.74%	4.07%	4.28%	4.61%	5.73%	4.10%	3.13%	3.32%
3	Ameren Corp.	4.50%	2.77%	3.04%	3.12%	3.50%	3.96%	4.02%	4.61%	4.97%	5.28%	5.76%	5.98%	6.21%	4.88%	4.93%
4	American Electric Power	4.10%	3.37%	3.60%	3.42%	3.54%	3.80%	3.83%	4.23%	4.58%	4.96%	4.90%	5.50%	4.20%	3.40%	4.06%
5	Avangrid, Inc.	3.76%	3.51%	3.49%	3.79%	4.26%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6	Avista Corp.	3.75%	3.63%	2.93%	3.14%	3.39%	3.99%	3.97%	4.51%	4.55%	4.54%	4.76%	4.49%	3.39%	2.68%	2.52%
7	Black Hills	3.77%	2.87%	3.31%	2.75%	2.87%	3.55%	2.84%	3.19%	4.39%	4.64%	4.79%	6.17%	4.21%	3.40%	3.79%
8	CenterPoint Energy	4.52%	3.93%	4.09%	4.79%	4.70%	5.06%	3.94%	3.57%	4.04%	4.27%	5.29%	6.37%	4.98%	3.87%	4.39%
9	CMS Energy Corp.	3.29%	2.89%	3.03%	2.88%	2.99%	3.36%	3.59%	3.76%	4.16%	4.25%	3.98%	3.97%	2.69%	1.16%	N/A
10	Consol. Edison	4.45%	3.61%	3.68%	3.40%	3.62%	4.12%	4.38%	4.25%	4.07%	4.46%	5.16%	5.99%	5.67%	4.84%	5.04%
11	Domino Resources	4.06%	5.00%	4.72%	3.88%	3.82%	3.66%	3.43%	3.78%	4.06%	4.13%	4.41%	5.20%	3.77%	3.32%	3.60%
12	DTE Energy	4.17%	3.24%	3.34%	3.15%	3.34%	3.53%	3.54%	3.84%	4.19%	4.68%	4.75%	6.29%	5.24%	4.36%	4.86%
13	Duke Energy	4.75%	4.31%	4.54%	4.15%	4.26%	4.34%	4.26%	4.45%	4.68%	5.21%	5.71%	6.25%	5.16%	4.44%	N/A
14	Edison Int'l	3.08%	3.92%	3.84%	2.87%	2.81%	2.83%	2.62%	2.85%	2.97%	3.37%	3.66%	3.95%	2.69%	2.21%	2.58%
15	El Paso Electric	2.73%	2.65%	2.55%	2.49%	2.75%	3.13%	2.97%	2.99%	2.87%	2.11%	N/A	N/A	N/A	N/A	N/A
16	Entergy Corp.	4.12%	4.00%	4.41%	4.49%	4.55%	4.59%	4.47%	5.07%	4.91%	4.85%	4.20%	3.97%	2.52%	2.39%	2.82%
17	Eversource Energy	3.33%	3.02%	3.32%	3.14%	3.22%	3.34%	3.40%	3.48%	3.52%	3.23%	3.64%	4.16%	3.25%	2.60%	3.27%
18	Evergy, Inc.	3.39%	3.39%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19	Exelon Corp.	3.85%	3.06%	3.32%	3.51%	3.75%	3.88%	3.69%	4.69%	5.73%	4.96%	4.95%	4.26%	2.78%	2.48%	2.83%
20	FirstEnergy Corp.	4.38%	3.75%	5.17%	4.62%	4.31%	4.23%	4.26%	4.26%	4.90%	5.23%	5.76%	5.09%	3.21%	3.12%	3.40%
21	Fortis Inc.	3.69%	3.87%	4.07%	3.69%	3.80%	3.76%	3.88%	3.84%	3.64%	3.58%	3.80%	4.21%	3.76%	3.01%	2.79%
22	Great Plains Energy	4.52%	N/A	N/A	3.58%	3.64%	3.76%	3.62%	3.84%	4.08%	4.15%	4.49%	5.03%	6.96%	5.94%	5.60%
23	Hawaiian Elec.	4.63%	3.20%	3.54%	3.65%	3.99%	4.05%	4.76%	4.72%	4.70%	5.04%	5.51%	6.89%	5.00%	5.18%	4.59%
24	IDACORP, Inc.	3.22%	2.62%	2.61%	2.58%	2.77%	3.06%	3.12%	3.21%	3.26%	3.10%	3.44%	4.46%	3.95%	3.55%	3.39%
25	NGE Energy	3.20%	2.14%	2.16%	1.95%	2.23%	2.78%	2.78%	2.91%	3.25%	3.63%	3.98%	4.36%	4.24%	4.14%	4.25%
26	NextEra Energy, Inc.	3.17%	2.62%	2.68%	2.79%	2.91%	3.01%	3.00%	3.30%	3.65%	3.96%	3.90%	3.55%	3.02%	2.65%	3.40%
27	NorthWestern Corp.	4.10%	3.49%	3.86%	3.52%	3.43%	3.61%	3.30%	3.66%	4.17%	4.51%	4.93%	5.75%	5.38%	4.09%	3.65%
28	OGE Energy	3.63%	3.77%	3.98%	3.61%	3.87%	3.51%	2.63%	2.48%	2.94%	3.06%	3.68%	4.96%	4.52%	3.77%	3.99%
29	Otter Tail Corp.	4.16%	2.83%	2.92%	3.12%	3.87%	4.33%	4.14%	4.11%	5.21%	5.57%	5.68%	5.38%	3.63%	3.46%	3.92%
30	PG&E Corp.	3.70%	N/A	N/A	2.42%	3.22%	3.45%	3.96%	4.20%	4.25%	4.24%	4.08%	4.26%	4.01%	3.07%	3.22%
31	Pinnacle West Capital	4.53%	3.35%	3.55%	3.16%	3.46%	3.88%	4.09%	3.98%	5.32%	4.81%	5.43%	6.76%	6.17%	4.75%	4.67%
32	PNM Resources	3.26%	2.57%	2.79%	2.53%	2.69%	2.90%	2.79%	2.99%	2.96%	3.19%	4.09%	4.76%	4.85%	3.36%	3.21%
33	Portland General	3.70%	3.04%	3.27%	2.92%	3.06%	3.27%	3.34%	3.67%	4.11%	4.37%	5.20%	5.36%	4.28%	3.34%	2.54%
34	PPL Corp.	4.45%	5.44%	5.61%	4.24%	4.25%	4.55%	4.45%	4.81%	5.07%	5.10%	5.12%	4.51%	3.10%	2.69%	3.41%
35	Public Serv. Enterprise	3.81%	3.37%	3.49%	3.74%	3.78%	3.81%	3.92%	4.35%	4.55%	4.24%	4.30%	4.30%	3.26%	2.73%	3.47%
36	SCANA Corp.	4.37%	N/A	N/A	4.03%	3.29%	3.90%	4.05%	4.15%	4.25%	4.78%	4.93%	5.67%	4.92%	4.29%	4.21%
37	Sempra Energy	2.95%	3.12%	3.20%	2.92%	2.92%	2.71%	2.61%	3.03%	3.71%	3.65%	3.08%	3.23%	2.62%	2.08%	2.47%
38	Southern Co.	4.74%	4.87%	5.27%	4.63%	4.42%	4.78%	4.69%	4.61%	4.29%	4.63%	5.13%	5.52%	4.58%	4.39%	4.52%
39	Vectren Corp.	4.38%	N/A	N/A	2.79%	3.31%	3.60%	3.62%	4.15%	4.82%	5.06%	5.53%	5.85%	4.79%	4.53%	4.52%
40	WEC Energy Group	3.07%	3.14%	3.38%	3.31%	3.35%	3.49%	3.40%	3.49%	3.24%	3.35%	2.97%	3.16%	2.41%	2.14%	2.18%
41	Westar Energy	4.37%	N/A	N/A	3.00%	2.90%	3.73%	3.88%	4.27%	4.57%	4.84%	5.32%	6.27%	5.22%	4.16%	4.28%
42	Xcel Energy Inc.	3.93%	2.95%	3.25%	3.10%	3.33%	3.69%	3.83%	3.86%	3.90%	4.20%	4.54%	4.70%	4.05%	4.40%	
43	Average	3.90%	3.39%	3.56%	3.34%	3.49%	3.71%	3.66%	3.87%	4.18%	4.30%	4.63%	5.09%	4.21%	3.51%	3.71%
44	Median	3.87%	3.24%	3.36%	3.15%	3.43%	3.71%	3.76%	3.85%	4.18%	4.42%	4.76%	5.14%	4.21%	3.40%	3.60%
45	20-Yr Treasury Yields <sup>3</sup>	3.41%	2.57%	3.02%	2.65%	2.23%	2.55%	3.07%	3.12%	2.54%	3.62%	4.03%	4.11%	4.36%	4.91%	4.99%
46	20-Yr TIPS <sup>3</sup>	1.26%	0.73%	0.94%	0.75%	0.66%	0.78%	0.87%	0.75%	0.21%	1.19%	1.73%	2.21%	2.19%	2.36%	2.31%
47	Implied Inflation <sup>3</sup>	2.12%	1.83%	2.06%	1.89%	1.56%	1.75%	2.19%	2.35%	2.33%	2.40%	2.26%	1.85%	2.13%	2.49%	2.62%
48	Real Dividend Yield <sup>d</sup>	1.74%	1.53%	1.47%	1.42%	1.90%	1.93%	1.44%	1.49%	1.81%	1.86%	2.32%	3.18%	2.04%	0.99%	1.06%
<b>Utility</b>																
49	Nominal "A" Rated Yield <sup>d</sup>	4.88%	3.95%	4.25%	4.00%	3.93%	4.12%	4.28%	4.48%	4.13%	5.04%	5.46%	6.04%	6.53%	6.07%	6.07%
50	Real "A" Rated Yield	2.70%	2.08%	2.14%	2.07%	2.34%	2.33%	2.04%	2.08%	1.76%	2.58%	3.13%	4.11%	4.31%	3.49%	3.36%
<b>Spreads (Utility Bond - Stock)</b>																
51	Nominal Spread <sup>d</sup>	0.98%	0.56%	0.69%	0.66%	0.44%	0.40%	0.61%	0.61%	-0.05%	0.74%	0.84%	0.95%	2.32%	2.57%	2.36%
52	Real Spread <sup>d</sup>	0.96%	0.55%	0.68%	0.65%	0.44%	0.40%	0.60%	0.59%	-0.05%	0.72%	0.82%	0.93%	2.27%	2.50%	2.30%
<b>Spreads (Treasury Bond - Stock)</b>																
53	Nominal <sup>f</sup>	-0.49%	-0.82%	-0.54%	-0.69%	-1.26%	-1.17%	-0.59%	-0.75%	-1.64%	-0.68%	-0.60%	-0.98%	0.15%	1.40%	1.28%
54	Real <sup>f</sup>	-0.48%	-0.80%	-0.53%	-0.68%	-1.24%	-1.15%	-0.58%	-0.73%	-1.60%	-0.67%	-0.58%	-0.97%	0.15%	1.37%	1.25%



Sources:

<sup>1</sup> The Value Line Investment Survey Investment Analyzer Software, downloaded on June 25, 2019.

<sup>2</sup> The Value Line Investment Survey, June 14, July 26, and August 16, 2019.

<sup>3</sup> St. Louis Federal Reserve: Economic Research, <http://research.stlouisfed.org>.

<sup>4</sup> [www.moodys.com](http://www.moodys.com), Bond Yields and Key Indicators, through August 30, 2019.

Notes:

<sup>a</sup> Based on the average of the high and low price for 2017 and the projected 2017 Dividends Declared per share, published in the Value Line Investment Survey, June 14, July 26, and August 16, 2019.

<sup>b</sup> Line 47 = (1 + Line 45) / (1 + Line 46) - 1.

<sup>c</sup> Line 48 = (1 + Line 43) / (1 + Line 47) - 1.

<sup>d</sup> The spread being measured here is the nominal A-rated utility bond yield over the average nominal utility dividend yield; (Line 49 - Line 43).

<sup>e</sup> The spread being measured here is the real A-rated utility bond yield over the average real utility dividend yield; (Line 50 - Line 48).

<sup>f</sup> The spread being measured here is the nominal 20-Year Treasury yield over the average nominal utility dividend yield; (Line 45 - Line 43).

<sup>g</sup> The spread being measured here is the real 20-Year TIPS yield over the average real utility dividend yield; (Line 48 - Line 46).

## Avista Corporation

### Electric Utilities (Valuation Metrics)

Line	Company	Dividend per Share <sup>1</sup>														
		14-Year														
		Average (1)	2019 <sup>2</sup> (2)	2018 (3)	2017 (4)	2016 (5)	2015 (6)	2014 (7)	2013 (8)	2012 (9)	2011 (10)	2010 (11)	2009 (12)	2008 (13)	2007 (14)	2006 (15)
1	ALLETE	1.90	2.35	2.24	2.14	2.08	2.02	1.96	1.90	1.84	1.78	1.76	1.72	1.64	1.45	
2	Alliant Energy	0.96	1.42	1.34	1.26	1.18	1.10	1.02	0.94	0.90	0.85	0.79	0.75	0.70	0.58	
3	Ameren Corp.	1.86	1.93	1.85	1.78	1.72	1.66	1.61	1.60	1.60	1.56	1.54	1.54	2.54	2.54	
4	American Electric Power	1.99	2.72	2.53	2.39	2.27	2.15	2.03	1.95	1.88	1.85	1.71	1.64	1.64	1.58	
5	Avangrid, Inc.	1.74	1.76	1.74	1.73	1.73	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
6	Avista Corp.	1.11	1.55	1.49	1.43	1.37	1.32	1.27	1.22	1.16	1.10	1.00	0.81	0.69	0.60	
7	Black Hills	1.58	2.05	1.93	1.81	1.68	1.62	1.56	1.52	1.48	1.46	1.44	1.42	1.40	1.37	
8	CenterPoint Energy	0.90	1.16	1.12	1.35	1.03	0.99	0.95	0.83	0.81	0.79	0.78	0.76	0.73	0.68	
9	CMS Energy Corp.	0.95	1.53	1.43	1.33	1.24	1.16	1.08	1.02	0.96	0.84	0.66	0.50	0.36	0.20	
10	Consol. Edison	2.53	2.96	2.86	2.76	2.68	2.60	2.52	2.46	2.42	2.40	2.38	2.36	2.34	2.32	
11	Dominion Resources	2.30	3.67	3.34	3.04	2.80	2.59	2.40	2.25	2.11	1.97	1.83	1.75	1.58	1.46	
12	DTE Energy	2.67	3.84	3.59	3.36	3.06	2.84	2.69	2.59	2.42	2.32	2.18	2.12	2.12	2.08	
13	Duke Energy	3.13	3.75	3.64	3.49	3.36	3.24	3.15	3.09	3.03	2.97	2.91	2.82	2.70	2.58	
14	Edison Int'l	1.59	2.45	2.43	2.23	1.98	1.73	1.48	1.37	1.31	1.29	1.27	1.25	1.23	1.18	
15	El Paso Electric	1.16	1.52	1.42	1.32	1.23	1.17	1.11	1.05	0.97	0.66	N/A	N/A	N/A	N/A	
16	Entergy Corp.	3.20	3.66	3.58	3.50	3.42	3.34	3.32	3.32	3.32	3.32	3.24	3.00	3.00	2.58	
17	Eversource Energy	1.38	2.14	2.02	1.90	1.78	1.67	1.57	1.47	1.32	1.10	1.03	0.95	0.83	0.78	
18	Energy, Inc.	1.94	1.94	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
19	Exelon Corp.	1.66	1.45	1.38	1.31	1.26	1.24	1.24	1.46	2.10	2.10	2.10	2.10	2.05	1.82	
20	FirstEnergy Corp.	1.83	1.52	1.82	1.44	1.44	1.44	1.44	1.65	2.20	2.20	2.20	2.20	2.20	1.85	
21	Fortis Inc.	1.27	1.85	1.75	1.65	1.55	1.43	1.30	1.25	1.21	1.17	1.12	1.04	1.00	0.82	
22	Great Plains Energy	1.11	N/A	N/A	1.10	1.06	1.00	0.94	0.88	0.86	0.84	0.83	0.83	1.66	1.66	
23	Hawaiian Elec.	1.24	1.28	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	
24	IDACORP, Inc.	1.65	2.56	2.40	2.24	2.08	1.92	1.76	1.57	1.37	1.20	1.20	1.20	1.20	1.20	
25	MGE Energy	1.10	1.38	1.32	1.26	1.21	1.16	1.11	1.07	1.04	1.01	0.99	0.97	0.96	0.94	
26	NextEra Energy, Inc.	2.78	5.00	4.44	3.93	3.48	3.08	2.90	2.64	2.40	2.20	2.00	1.89	1.78	1.64	
27	NorthWestern Corp	1.65	2.30	2.20	2.10	2.00	1.92	1.60	1.52	1.48	1.44	1.36	1.34	1.32	1.24	
28	OGE Energy	0.95	1.54	1.40	1.27	1.16	1.05	0.95	0.85	0.80	0.76	0.73	0.71	0.70	0.68	
29	Otter Tail Corp.	1.23	1.40	1.34	1.28	1.25	1.23	1.21	1.19	1.19	1.19	1.19	1.19	1.19	1.15	
30	PG&E Corp.	1.70	N/A	N/A	1.55	1.93	1.82	1.82	1.82	1.82	1.82	1.82	1.68	1.56	1.44	
31	Pinnacle West Capital	2.38	3.04	2.87	2.70	2.56	2.44	2.33	2.23	2.67	2.10	2.10	2.10	2.10	2.03	
32	PNM Resources	0.77	1.18	1.09	0.99	0.88	0.80	0.76	0.68	0.58	0.50	0.50	0.50	0.61	0.91	
33	Portland General	1.12	1.52	1.43	1.34	1.26	1.18	1.12	1.10	1.08	1.06	1.04	1.01	0.97	0.93	
34	PPL Corp.	1.44	1.65	1.64	1.58	1.52	1.50	1.49	1.47	1.44	1.40	1.40	1.38	1.34	1.22	
35	Public Serv. Enterprise	1.47	1.88	1.80	1.72	1.64	1.56	1.48	1.44	1.42	1.37	1.37	1.33	1.29	1.17	
36	SCANA Corp.	2.00	N/A	N/A	2.45	2.30	2.18	2.10	2.03	1.98	1.94	1.90	1.88	1.84	1.76	
37	Sempra Energy	2.36	3.87	3.58	3.29	3.02	2.80	2.64	2.52	2.40	1.92	1.56	1.56	1.37	1.24	
38	Southern Co.	1.98	2.46	2.38	2.30	2.22	2.15	2.08	2.01	1.94	1.87	1.80	1.73	1.66	1.60	
39	Vectren Corp.	1.42	N/A	N/A	1.71	1.62	1.54	1.46	1.43	1.41	1.39	1.37	1.35	1.31	1.27	
40	WEC Energy Group	1.33	2.36	2.21	2.08	1.98	1.74	1.56	1.45	1.20	1.04	0.80	0.68	0.54	0.50	
41	Westar Energy	1.30	N/A	N/A	1.60	1.52	1.44	1.40	1.36	1.32	1.28	1.24	1.20	1.16	1.08	
42	Xcel Energy Inc.	1.17	1.62	1.52	1.44	1.36	1.28	1.20	1.11	1.07	1.03	1.00	0.97	0.94	0.91	
43	<b>Average</b>	<b>1.66</b>	<b>2.22</b>	<b>2.12</b>	<b>1.97</b>	<b>1.86</b>	<b>1.76</b>	<b>1.67</b>	<b>1.61</b>	<b>1.59</b>	<b>1.51</b>	<b>1.47</b>	<b>1.42</b>	<b>1.42</b>	<b>1.36</b>	
44	<b>Industry Average Growth</b>	<b>4.40%</b>	<b>4.84%</b>	<b>7.61%</b>	<b>6.14%</b>	<b>5.60%</b>	<b>5.24%</b>	<b>3.58%</b>	<b>1.23%</b>	<b>5.69%</b>	<b>2.49%</b>	<b>3.36%</b>	<b>-0.08%</b>	<b>5.06%</b>	<b>6.45%</b>	

Sources:

<sup>1</sup> The Value Line Investment Survey Investment Analyzer Software, downloaded on June 25, 2019.

<sup>2</sup> The Value Line Investment Survey, June 14, July 26, and August 16, 2019.

Notes:

PG&E is excluded from 2017, 2018 and 2019 average calculations due to their Dividend Suspension.

## Avista Corporation

### Electric Utilities (Valuation Metrics)

Line	Company	Earnings per Share <sup>1</sup>														
		14-Year Average (1)	2019 <sup>2</sup> (2)	2018 (3)	2017 (4)	2016 (5)	2015 (6)	2014 (7)	2013 (8)	2012 (9)	2011 (10)	2010 (11)	2009 (12)	2008 (13)	2007 (14)	2006 (15)
1	ALLETE	2.86	3.50	3.38	3.13	3.14	3.38	2.90	2.63	2.58	2.65	2.19	1.89	2.82	3.08	2.77
2	Alliant Energy	1.57	2.25	2.19	1.99	1.65	1.69	1.74	1.65	1.53	1.38	1.38	0.95	1.27	1.35	1.03
3	Ameren Corp.	2.71	3.30	3.32	2.77	2.68	2.38	2.40	2.10	2.41	2.47	2.77	2.78	2.88	2.98	2.66
4	American Electric Power	3.31	4.10	3.90	3.62	4.23	3.59	3.34	3.18	2.98	3.13	2.60	2.97	2.99	2.86	2.86
5	Avangrid, Inc.	1.73	2.20	1.92	1.67	1.98	0.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6	Avista Corp.	1.74	2.85	2.07	1.95	2.15	1.89	1.84	1.85	1.32	1.72	1.65	1.58	1.36	0.72	1.47
7	Black Hills	2.39	3.55	3.47	3.38	2.63	2.83	2.89	2.61	1.97	1.01	1.66	2.32	0.18	2.68	2.21
8	CenterPoint Energy	1.22	1.50	0.74	1.57	1.00	1.08	1.42	1.24	1.35	1.27	1.07	1.01	1.30	1.17	1.33
9	CMS Energy Corp.	1.57	2.50	2.32	2.17	1.98	1.89	1.74	1.66	1.53	1.45	1.33	0.93	1.23	0.64	0.64
10	Consol. Edison	3.72	4.05	4.55	4.10	3.94	4.05	3.62	3.93	3.86	3.57	3.47	3.14	3.36	3.48	2.95
11	Dominion Resources	2.87	2.00	3.25	3.53	3.44	3.20	3.05	3.09	2.75	2.76	2.89	2.64	3.04	2.13	2.40
12	DTE Energy	4.19	6.25	6.17	5.73	4.83	4.44	5.10	3.76	3.88	3.67	3.74	3.24	2.73	2.66	2.45
13	Duke Energy	3.85	5.00	4.13	4.22	3.71	4.10	4.13	3.98	3.71	4.14	4.02	3.39	3.03	3.60	2.73
14	Edison Int'l	3.49	4.75	-1.26	4.51	3.94	4.15	4.33	3.78	4.55	3.23	3.35	3.24	3.68	3.32	3.28
15	El Paso Electric	2.07	2.60	2.07	2.42	2.39	2.03	2.27	2.20	2.26	2.48	2.07	1.50	1.73	1.63	1.27
16	Entergy Corp.	6.00	5.80	5.88	5.19	6.88	5.81	5.77	4.96	6.02	7.55	6.66	6.30	6.20	5.60	5.36
17	Eversource Energy	2.36	3.45	3.25	3.11	2.96	2.76	2.58	2.49	1.89	2.22	2.10	1.91	1.86	1.59	0.82
18	Evergy, Inc.	2.80	2.80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19	Exelon Corp.	3.00	3.00	2.07	2.78	1.80	2.54	2.10	2.31	1.92	3.75	3.87	4.29	4.10	4.03	3.50
20	FirstEnergy Corp.	2.68	2.55	1.33	2.73	2.10	2.00	0.85	2.97	2.13	1.88	3.25	3.32	4.38	4.22	3.82
21	Fortis Inc.	1.83	2.70	2.52	2.66	1.89	2.11	1.38	1.63	1.65	1.74	1.62	1.51	1.52	1.29	1.36
22	Great Plains Energy	1.33	N/A	N/A	-0.06	1.61	1.37	1.57	1.62	1.35	1.25	1.53	1.03	1.16	1.85	1.62
23	Hawaiian Elec.	1.52	2.00	1.85	1.64	2.29	1.50	1.64	1.62	1.67	1.44	1.21	0.91	1.07	1.11	1.33
24	IDACORP, Inc.	3.37	4.40	4.49	4.21	3.94	3.87	3.85	3.64	3.37	3.36	2.95	2.64	2.18	1.86	2.35
25	MGE Energy	1.95	2.75	2.43	2.20	2.18	2.06	2.32	2.16	1.86	1.76	1.67	1.47	1.59	1.51	1.37
26	NextEra Energy, Inc.	5.13	7.75	6.67	6.50	5.78	6.06	5.60	4.83	4.56	4.82	4.74	3.97	4.07	3.27	3.23
27	NorthWestern Corp	2.55	3.70	3.40	3.34	3.39	2.90	2.99	2.46	2.26	2.53	2.14	2.02	1.77	1.44	1.31
28	OGE Energy	1.69	2.15	2.12	1.92	1.69	1.69	1.98	1.94	1.79	1.73	1.50	1.33	1.25	1.32	1.23
29	Otter Tail Corp.	1.38	2.15	2.06	1.86	1.60	1.56	1.55	1.37	1.05	0.45	0.38	0.71	1.09	1.78	1.69
30	PG&E Corp.	1.49	N/A	-13.25	3.50	2.83	2.00	3.06	1.83	2.07	2.78	2.82	3.03	3.22	2.78	2.76
31	Pinnacle West Capital	3.50	4.85	4.54	4.43	3.95	3.92	3.58	3.66	3.50	2.99	3.08	2.26	2.12	2.96	3.17
32	PNM Resources	1.31	2.20	1.66	1.92	1.65	1.64	1.45	1.41	1.31	1.08	0.87	0.58	0.11	0.76	1.72
33	Portland General	1.92	2.45	2.37	2.29	2.16	2.04	2.18	1.77	1.87	1.95	1.66	1.31	1.39	2.33	1.14
34	PPL Corp.	2.36	2.40	2.58	2.11	2.79	2.37	2.38	2.38	2.61	2.61	2.29	1.19	2.45	2.63	2.29
35	Public Serv. Enterprise	2.86	3.80	2.76	2.82	2.83	3.30	2.99	2.45	2.44	3.11	3.07	3.08	2.90	2.59	1.85
36	SCANA Corp.	3.30	N/A	N/A	4.20	4.16	3.81	3.79	3.39	3.15	2.97	2.98	2.85	2.95	2.74	2.59
37	Sempra Energy	4.63	5.90	5.48	4.63	4.24	5.23	4.63	4.22	4.35	4.47	4.02	4.78	4.43	4.26	4.23
38	Southern Co.	2.64	3.05	3.00	3.21	2.83	2.84	2.77	2.70	2.67	2.55	2.36	2.32	2.25	2.28	2.10
39	Vectren Corp.	1.94	N/A	N/A	2.60	2.55	2.39	2.02	1.66	1.94	1.73	1.64	1.79	1.63	1.83	1.44
40	WEC Energy Group	2.34	3.52	3.34	3.14	2.96	2.34	2.59	2.51	2.35	2.18	1.92	1.60	1.52	1.42	1.32
41	Westar Energy	1.96	N/A	N/A	2.27	2.43	2.09	2.35	2.27	2.15	1.79	1.80	1.28	1.31	1.84	1.88
42	Xcel Energy Inc.	1.89	2.60	2.47	2.30	2.21	2.10	2.03	1.91	1.85	1.72	1.56	1.49	1.46	1.35	1.35
43	<b>Average</b>	<b>2.65</b>	<b>3.42</b>	<b>3.01</b>	<b>3.02</b>	<b>2.91</b>	<b>2.78</b>	<b>2.77</b>	<b>2.60</b>	<b>2.51</b>	<b>2.53</b>	<b>2.45</b>	<b>2.26</b>	<b>2.29</b>	<b>2.32</b>	<b>2.17</b>
44	<b>Industry Average Growth</b>	<b>3.63%</b>	<b>13.33%</b>	<b>-0.18%</b>	<b>3.68%</b>	<b>4.86%</b>	<b>0.28%</b>	<b>6.70%</b>	<b>3.34%</b>	<b>-0.86%</b>	<b>3.54%</b>	<b>8.08%</b>	<b>-1.11%</b>	<b>-1.47%</b>	<b>6.98%</b>	

Sources:

<sup>1</sup> The Value Line Investment Survey Investment Analyzer Software, downloaded on June 25, 2019.

<sup>2</sup> The Value Line Investment Survey, June 14, July 26, and August 16, 2019.

Notes:

PG&E is excluded from 2017, 2018, and 2019 average calculations due to their Dividend Suspension.

## Avista Corporation

### Electric Utilities (Valuation Metrics)

Line	Company	Cash Flow / Capital Spending				3 - 5 yr Projection (5)
		2017 (1)	2018 (2)	2019 (3)	2020 (4)	
1	ALLETE	1.61x	1.22x	0.73x	1.13x	1.76x
2	Alliant Energy	0.49x	N/A	0.65x	0.71x	0.85x
3	Ameren Corp.	0.75x	0.80x	0.81x	0.64x	0.98x
4	American Electric Power	0.67x	0.68x	0.68x	0.77x	0.88x
5	Avangrid, Inc.	0.57x	0.85x	0.68x	0.56x	0.69x
6	Avista Corp.	0.77x	0.78x	0.94x	0.86x	1.00x
7	Black Hills	1.17x	0.87x	0.55x	0.77x	1.22x
8	CenterPoint Energy	1.22x	0.98x	0.97x	1.05x	1.15x
9	CMS Energy Corp.	0.89x	0.77x	0.78x	0.76x	1.00x
10	Consol. Edison	0.76x	0.82x	0.80x	0.77x	0.90x
11	Dominion Resources	0.81x	1.04x	0.78x	1.00x	1.23x
12	DTE Energy	0.94x	0.84x	0.68x	1.07x	1.23x
13	Duke Energy	0.87x	0.81x	0.78x	0.86x	1.08x
14	Edison Int'l	0.94x	0.34x	0.73x	0.78x	0.83x
15	El Paso Electric	1.04x	0.86x	0.94x	1.01x	0.94x
16	Entergy Corp.	0.76x	0.73x	0.73x	0.95x	1.06x
17	Eversource Energy	0.79x	0.83x	0.78x	0.95x	1.26x
18	Evergy, Inc.	N/A	1.17x	1.25x	1.26x	1.61x
19	Exelon Corp.	1.06x	1.05x	1.20x	1.32x	1.52x
20	FirstEnergy Corp.	1.03x	0.76x	0.94x	1.02x	1.19x
21	Fortis Inc.	0.76x	0.72x	0.67x	0.75x	0.87x
22	Hawaiian Elec.	0.81x	0.85x	1.14x	1.12x	1.17x
23	IDACORP, Inc.	1.33x	1.42x	1.25x	1.27x	1.31x
24	MGE Energy	1.19x	0.66x	0.73x	0.77x	0.81x
25	NextEra Energy, Inc.	0.53x	0.56x	0.82x	0.94x	1.13x
26	NorthWestern Corp	1.21x	1.23x	1.11x	1.11x	1.38x
27	OGE Energy	0.81x	1.30x	1.29x	1.45x	1.67x
28	Otter Tail Corp.	1.10x	1.49x	0.80x	0.42x	1.73x
29	PG&E Corp.	0.82x	-0.58x	N/A	N/A	N/A
30	Pinnacle West Capital	0.76x	1.06x	1.04x	1.11x	1.21x
31	PNM Resources	0.84x	0.82x	0.72x	0.69x	0.90x
32	Portland General	1.07x	1.00x	1.05x	1.05x	1.59x
33	PPL Corp.	0.82x	0.93x	0.92x	1.06x	1.54x
34	Public Serv. Enterprise	0.64x	0.70x	1.13x	1.10x	1.29x
35	Sempra Energy	0.67x	0.80x	0.66x	0.93x	1.46x
36	Southern Co.	0.90x	0.83x	0.87x	1.01x	1.38x
37	WEC Energy Group	0.92x	0.90x	0.68x	0.68x	1.10x
38	Xcel Energy Inc.	0.84x	0.77x	0.68x	0.96x	1.10x
39	Average	0.90x	0.86x	0.86x	0.94x	1.19x
40	Median	0.84x	0.83x	0.80x	0.95x	1.17x

Sources:

The Value Line Investment Survey Investment Analyzer Software,  
downloaded on June 25, 2019.

The Value Line Investment Survey, June 14, July 26, and August 16, 2019.

Notes:

Based on the projected Cash Flow per share and Capital Spending per share.



## Avista Corporation

### Electric Utilities (Valuation Metrics)

Line	Company	Percent Dividends to Book Value <sup>1</sup>														
		14-Year Average (1)	2019 <sup>2a</sup> (2)	2018 (3)	2017 (4)	2016 (5)	2015 (6)	2014 (7)	2013 (8)	2012 (9)	2011 (10)	2010 (11)	2009 (12)	2008 (13)	2007 (14)	2006 (15)
1	ALLETE	6.00%	5.46%	5.35%	5.29%	5.45%	5.45%	5.59%	5.86%	6.04%	6.18%	6.46%	6.67%	6.78%	6.80%	6.62%
2	Alliant Energy	6.27%	6.51%	6.90%	7.32%	6.96%	6.70%	6.56%	6.36%	6.37%	6.26%	6.06%	5.98%	5.48%	5.23%	5.04%
3	Ameren Corp.	6.06%	5.86%	5.92%	6.01%	5.86%	5.78%	5.82%	5.93%	5.87%	4.76%	4.79%	4.66%	7.74%	7.84%	7.97%
4	American Electric Power	6.20%	6.79%	6.56%	6.43%	6.42%	5.90%	5.91%	5.91%	5.99%	6.10%	6.04%	5.97%	6.23%	6.28%	6.32%
5	Avangrid, Inc.	2.84%	3.57%	3.57%	3.54%	3.53%	0.00%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6	Avista Corp.	4.91%	5.43%	5.52%	5.41%	5.33%	5.38%	5.33%	5.65%	5.51%	5.42%	5.07%	4.23%	3.77%	3.44%	3.26%
7	Black Hills	5.33%	5.31%	5.31%	5.67%	5.55%	5.66%	5.06%	5.17%	5.31%	5.30%	5.14%	5.10%	5.15%	5.34%	5.58%
8	CenterPoint Energy	10.30%	6.27%	8.94%	12.39%	12.82%	12.30%	8.96%	8.23%	8.05%	7.97%	10.36%	11.28%	12.40%	12.12%	12.09%
9	CMS Energy Corp.	6.32%	8.55%	8.52%	8.43%	8.14%	8.16%	8.10%	7.86%	7.94%	7.05%	5.90%	4.38%	3.31%	2.11%	0.00%
10	Consol. Edison	6.14%	5.60%	5.49%	5.55%	5.72%	5.84%	5.87%	5.88%	5.97%	6.15%	6.27%	6.47%	6.60%	7.12%	7.40%
11	Dominion Resources	10.45%	10.86%	11.31%	11.41%	12.04%	12.20%	12.16%	11.24%	11.50%	9.81%	8.86%	9.38%	9.14%	8.95%	7.46%
12	DTE Energy	5.91%	6.35%	6.38%	6.34%	6.09%	5.81%	5.72%	5.79%	5.66%	5.60%	5.49%	5.59%	5.76%	5.91%	6.28%
13	Duke Energy	5.22%	6.08%	6.04%	5.85%	5.73%	5.61%	5.45%	5.28%	5.22%	5.81%	5.72%	5.66%	5.45%	5.12%	0.00%
14	Edison Int'l	5.01%	7.04%	7.56%	6.23%	5.39%	4.97%	4.41%	4.48%	4.54%	4.16%	3.90%	4.12%	4.19%	4.53%	4.65%
15	El Paso Electric	2.94%	5.13%	4.94%	4.67%	4.62%	4.63%	4.53%	4.46%	4.72%	3.47%	0.00%	0.00%	0.00%	0.00%	0.00%
16	Entergy Corp.	6.71%	7.13%	7.65%	7.90%	7.58%	6.44%	5.95%	6.15%	6.42%	6.53%	6.82%	6.59%	7.13%	6.34%	5.34%
17	Eversource Energy	4.86%	5.68%	5.57%	5.43%	5.27%	5.12%	4.99%	4.82%	4.49%	4.86%	4.75%	4.66%	4.26%	4.16%	4.00%
18	Energy, Inc.	5.10%	5.10%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19	Exelon Corp.	7.60%	4.34%	4.34%	4.23%	4.51%	4.42%	4.72%	5.49%	8.38%	9.68%	10.25%	10.96%	12.21%	11.87%	11.02%
20	FirstEnergy Corp.	8.36%	10.27%	13.82%	16.34%	10.21%	4.91%	4.88%	5.44%	7.03%	6.93%	7.85%	7.84%	8.10%	6.96%	6.54%
21	Fortis Inc.	5.35%	5.08%	5.03%	5.19%	4.80%	5.00%	5.22%	5.58%	5.81%	5.70%	5.91%	5.60%	5.55%	4.90%	5.47%
22	Great Plains Energy	5.31%	N/A	N/A	4.78%	4.27%	4.21%	4.02%	3.91%	3.93%	3.84%	3.90%	4.03%	7.76%	9.13%	9.94%
23	Hawaiian Elec.	7.38%	6.23%	6.24%	6.43%	6.51%	6.91%	7.10%	7.27%	7.62%	7.77%	7.91%	7.96%	8.08%	8.11%	9.22%
24	IDACORP, Inc.	4.48%	5.25%	5.11%	5.02%	4.87%	4.70%	4.53%	4.26%	3.91%	3.62%	3.87%	4.11%	4.32%	4.48%	4.66%
25	MGE Energy	6.29%	5.62%	5.60%	5.61%	5.79%	5.82%	5.84%	6.01%	6.22%	6.36%	6.56%	6.72%	6.87%	7.24%	7.77%
26	NextEra Energy, Inc.	6.33%	7.22%	6.22%	6.56%	6.69%	6.29%	6.45%	6.37%	6.33%	6.12%	5.82%	6.03%	6.23%	6.22%	6.12%
27	NorthWestern Corp	5.85%	5.76%	5.70%	5.76%	5.77%	5.78%	5.08%	5.71%	5.90%	6.08%	6.01%	6.13%	6.21%	6.06%	6.00%
28	OGE Energy	6.57%	7.49%	6.96%	6.59%	6.70%	6.30%	5.84%	5.56%	5.70%	5.81%	6.24%	6.79%	6.89%	7.47%	7.61%
29	Otter Tail Corp.	7.25%	7.33%	7.29%	7.27%	7.34%	7.70%	7.86%	8.07%	8.25%	7.52%	6.77%	6.33%	6.22%	6.67%	6.90%
30	PG&E Corp.	5.29%	N/A	0.00%	4.15%	5.44%	5.40%	5.50%	5.80%	6.00%	6.20%	6.38%	6.03%	6.01%	5.96%	5.88%
31	Pinnacle West Capital	6.14%	6.27%	6.16%	6.03%	5.93%	5.91%	5.89%	5.84%	7.38%	6.00%	6.20%	6.42%	6.15%	5.98%	5.87%
32	PNM Resources	3.73%	5.67%	5.12%	4.67%	4.18%	3.85%	3.37%	3.26%	2.89%	2.55%	2.84%	2.65%	3.20%	4.13%	3.89%
33	Portland General	4.69%	5.24%	5.09%	4.94%	4.78%	4.64%	4.56%	4.70%	4.70%	4.78%	4.90%	4.93%	4.48%	4.42%	3.45%
34	PPL Corp.	8.91%	9.51%	10.13%	10.18%	10.44%	10.19%	7.28%	7.43%	8.00%	7.48%	8.24%	9.47%	9.89%	8.20%	8.27%
35	Public Serv. Enterprise	6.93%	6.31%	6.31%	6.27%	6.31%	6.03%	6.14%	6.28%	6.66%	6.75%	7.20%	7.66%	8.40%	8.15%	8.54%
36	SCANA Corp.	6.44%	N/A	N/A	6.67%	5.74%	5.72%	6.01%	6.14%	6.29%	6.48%	6.54%	6.80%	7.12%	6.94%	6.89%
37	Sempra Energy	5.26%	6.45%	6.59%	6.53%	5.83%	5.89%	5.74%	5.60%	5.66%	4.68%	4.16%	4.27%	4.18%	3.89%	4.19%
38	Southern Co.	9.52%	9.41%	9.95%	9.59%	8.89%	9.53%	9.48%	9.39%	9.22%	9.22%	9.38%	9.55%	9.74%	9.83%	10.07%
39	Vectren Corp.	7.71%	N/A	N/A	7.67%	7.60%	7.57%	7.51%	7.55%	7.57%	7.74%	7.78%	7.84%	7.85%	7.86%	7.97%
40	WEC Energy Group	5.98%	7.36%	7.12%	6.94%	7.00%	6.35%	7.96%	7.71%	6.65%	6.05%	4.92%	4.42%	3.78%	3.77%	3.72%
41	Westar Energy	5.71%	N/A	N/A	5.82%	5.66%	5.57%	5.60%	5.70%	5.77%	5.81%	5.84%	5.83%	5.75%	5.64%	5.56%
42	Xcel Energy Inc.	6.12%	6.52%	6.39%	6.38%	6.26%	6.13%	5.94%	5.78%	5.88%	5.91%	5.97%	6.09%	6.13%	6.19%	6.16%
43	Average	6.27%	6.49%	6.51%	6.67%	6.44%	6.12%	6.07%	6.10%	6.28%	6.11%	6.08%	6.13%	6.36%	6.28%	6.09%
44	Median	6.05%	6.27%	6.22%	6.23%	5.83%	5.81%	5.83%	5.82%	5.99%	6.09%	6.02%	6.03%	6.21%	6.21%	6.14%

Sources:

<sup>1</sup> The Value Line Investment Survey Investment Analyzer Software, downloaded on June 25, 2019.

<sup>2</sup> The Value Line Investment Survey, June 14, July 26, and August 16, 2019.

<sup>a</sup> Based on the projected 2019 Dividend Declared per share and Book Value per share, published in The Value Line Investment Survey, June 14, July 26, and August 16, 2019.

## Avista Corporation

### Electric Utilities (Valuation Metrics)

		Dividends to Earnings Ratio <sup>1</sup>														
Line	Company	14-Year														
		Average (1)	2019 <sup>2b</sup> (2)	2018 (3)	2017 (4)	2016 (5)	2015 (6)	2014 (7)	2013 (8)	2012 (9)	2011 (10)	2010 (11)	2009 (12)	2008 (13)	2007 (14)	2006 (15)
1	ALLETE	0.68	0.67	0.66	0.68	0.66	0.60	0.68	0.72	0.71	0.67	0.80	0.93	0.61	0.53	0.52
2	Alliant Energy	0.61	0.63	0.61	0.63	0.72	0.65	0.59	0.57	0.59	0.62	0.57	0.79	0.55	0.47	0.56
3	Ameren Corp.	0.69	0.58	0.56	0.64	0.64	0.70	0.67	0.76	0.66	0.63	0.56	0.55	0.88	0.85	0.95
4	American Electric Power	0.60	0.66	0.65	0.66	0.54	0.60	0.61	0.61	0.63	0.59	0.66	0.55	0.55	0.55	0.52
5	Avangrid, Inc.	0.90	0.80	0.91	1.03	0.87	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6	Avista Corp.	0.65	0.54	0.72	0.73	0.64	0.70	0.69	0.66	0.88	0.64	0.61	0.51	0.51	0.83	0.39
7	Black Hills	1.18	0.58	0.56	0.54	0.64	0.57	0.54	0.58	0.75	1.45	0.87	0.61	7.78	0.51	0.60
8	CenterPoint Energy	0.77	0.77	1.51	0.86	1.03	0.92	0.67	0.67	0.60	0.62	0.73	0.75	0.56	0.58	0.45
9	CMS Energy Corp.	0.55	0.61	0.62	0.61	0.63	0.61	0.62	0.61	0.63	0.58	0.50	0.54	0.29	0.31	N/A
10	Consol. Edison	0.68	0.73	0.63	0.67	0.68	0.64	0.70	0.63	0.63	0.67	0.69	0.75	0.70	0.67	0.78
11	Dominion Resources	0.82	1.84	1.03	0.86	0.81	0.81	0.79	0.73	0.77	0.71	0.63	0.66	0.52	0.69	0.58
12	DTE Energy	0.66	0.61	0.58	0.59	0.63	0.64	0.53	0.69	0.62	0.63	0.58	0.65	0.78	0.80	0.85
13	Duke Energy	0.80	0.75	0.88	0.83	0.91	0.79	0.76	0.78	0.82	0.72	0.72	0.83	0.89	0.72	N/A
14	Edison Int'l	0.23	0.52	- 1.93	0.50	0.50	0.42	0.34	0.36	0.29	0.40	0.38	0.38	0.33	0.35	0.34
15	El Paso Electric	0.51	0.58	0.68	0.54	0.51	0.57	0.49	0.48	0.43	0.27	N/A	N/A	N/A	N/A	N/A
16	Entergy Corp.	0.54	0.63	0.61	0.67	0.50	0.57	0.58	0.67	0.55	0.44	0.49	0.48	0.48	0.46	0.40
17	Eversource Energy	0.59	0.62	0.62	0.61	0.60	0.61	0.61	0.59	0.70	0.50	0.49	0.50	0.44	0.49	0.88
18	Evergy, Inc.	0.69	0.69	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19	Exelon Corp.	0.58	0.48	0.67	0.47	0.70	0.49	0.59	0.63	1.09	0.56	0.54	0.49	0.50	0.45	0.47
20	FirstEnergy Corp.	0.80	0.60	1.37	0.53	0.69	0.72	1.69	0.56	1.03	1.17	0.68	0.66	0.50	0.49	0.48
21	Fortis Inc.	0.70	0.69	0.69	0.62	0.82	0.68	0.94	0.77	0.73	0.67	0.69	0.69	0.66	0.64	0.49
22	Great Plains Energy	- 0.82	N/A	N/A	-18.33	0.66	0.73	0.60	0.54	0.63	0.67	0.54	0.81	1.43	0.90	1.02
23	Hawaiian Elec.	0.87	0.64	0.67	0.76	0.54	0.83	0.76	0.77	0.74	0.86	1.02	1.36	1.16	1.12	0.93
24	IDACORP, Inc.	0.49	0.58	0.53	0.53	0.53	0.50	0.46	0.43	0.41	0.36	0.41	0.45	0.55	0.65	0.51
25	MGE Energy	0.57	0.50	0.54	0.57	0.56	0.56	0.48	0.50	0.56	0.57	0.60	0.66	0.60	0.62	0.68
26	NextEra Energy, Inc.	0.53	0.65	0.67	0.60	0.60	0.51	0.52	0.55	0.53	0.46	0.42	0.48	0.44	0.50	0.46
27	NorthWestern Corp	0.67	0.62	0.65	0.63	0.59	0.66	0.54	0.62	0.65	0.57	0.64	0.66	0.75	0.89	0.95
28	OGE Energy	0.56	0.72	0.66	0.66	0.68	0.62	0.48	0.44	0.45	0.44	0.49	0.54	0.56	0.52	0.55
29	Otter Tail Corp.	1.16	0.65	0.65	0.69	0.78	0.79	0.78	0.87	1.13	2.64	3.13	1.68	1.09	0.66	0.68
30	PG&E Corp.	0.65	N/A	N/A	0.44	0.68	0.91	0.59	0.99	0.88	0.65	0.65	0.55	0.48	0.52	0.48
31	Pinnacle West Capital	0.70	0.63	0.63	0.61	0.65	0.62	0.65	0.61	0.76	0.70	0.68	0.93	0.99	0.71	0.64
32	PNM Resources	0.95	0.54	0.65	0.52	0.53	0.49	0.52	0.48	0.44	0.46	0.57	0.86	5.50	1.20	0.50
33	Portland General	0.59	0.62	0.60	0.59	0.58	0.58	0.51	0.62	0.57	0.54	0.62	0.77	0.70	0.40	0.59
34	PPL Corp.	0.63	0.69	0.64	0.75	0.54	0.63	0.63	0.62	0.55	0.54	0.61	1.16	0.55	0.46	0.48
35	Public Serv. Enterprise	0.52	0.49	0.65	0.61	0.58	0.47	0.49	0.59	0.58	0.44	0.45	0.43	0.44	0.45	0.62
36	SCANA Corp.	0.61	N/A	N/A	0.58	0.55	0.57	0.55	0.60	0.63	0.65	0.64	0.66	0.62	0.64	0.65
37	Sempra Energy	0.50	0.66	0.65	0.71	0.71	0.54	0.57	0.60	0.55	0.43	0.39	0.33	0.31	0.29	0.28
38	Southern Co.	0.75	0.81	0.79	0.72	0.79	0.76	0.75	0.75	0.73	0.73	0.76	0.75	0.74	0.70	0.73
39	Vectren Corp.	0.75	N/A	N/A	0.66	0.64	0.64	0.72	0.86	0.72	0.80	0.84	0.75	0.80	0.69	0.85
40	WEC Energy Group	0.53	0.67	0.66	0.66	0.67	0.74	0.60	0.58	0.51	0.48	0.42	0.42	0.36	0.35	0.35
41	Westar Energy	0.68	N/A	N/A	0.70	0.63	0.69	0.60	0.60	0.61	0.72	0.69	0.94	0.89	0.59	0.52
42	Xcel Energy Inc.	0.62	0.62	0.62	0.63	0.62	0.61	0.59	0.58	0.58	0.60	0.64	0.65	0.64	0.67	0.65
43	Average	0.64	0.67	0.64	0.18	0.65	0.64	0.64	0.63	0.66	0.67	0.68	0.70	0.95	0.61	0.61
44	Median	0.62	0.63	0.65	0.63	0.64	0.63	0.60	0.61	0.63	0.62	0.62	0.66	0.60	0.59	0.56

Sources:

<sup>1</sup> The Value Line Investment Survey Investment Analyzer Software, downloaded on June 25, 2019.

<sup>2</sup> The Value Line Investment Survey, June 14, July 26, and August 16, 2019.

Note:

<sup>b</sup> Based on the projected 2019 Dividends Declared per share and Earnings per share, published in The Value Line Investment Survey, June 14, July 26, and August 16, 2019.

## Avista Corporation

### Electric Utilities (Valuation Metrics)

#### Cash Flow to Capital Spending Ratio <sup>1</sup>

Line	Company	14-Year														
		Average (1)	2019 <sup>2c</sup> (2)	2018 (3)	2017 (4)	2016 (5)	2015 (6)	2014 (7)	2013 (8)	2012 (9)	2011 (10)	2010 (11)	2009 (12)	2008 (13)	2007 (14)	2006 (15)
1	ALLETE	0.84	0.73	1.22	1.61	1.32	1.16	0.45	0.67	0.49	0.77	0.63	0.39	0.46	0.65	1.23
2	Alliant Energy	0.77	0.65	N/A	0.49	N/A	0.81	0.91	1.01	0.57	0.91	0.67	0.39	0.57	1.04	1.27
3	Ameren Corp.	0.92	0.81	0.80	0.75	0.75	0.75	0.75	0.89	1.07	1.31	1.36	0.81	0.66	0.97	1.21
4	American Electric Power	0.87	0.68	0.68	0.67	0.85	0.85	0.87	0.91	1.07	1.19	1.24	1.02	0.70	0.77	0.75
5	Avangrid, Inc.	0.77	0.68	0.85	0.57	0.86	0.89	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6	Avista Corp.	0.90	0.94	0.78	0.77	0.84	0.76	0.80	0.86	0.80	0.90	0.99	1.15	0.97	0.73	1.36
7	Black Hills	0.65	0.55	0.87	1.17	0.71	0.64	0.70	0.74	0.71	0.40	0.41	0.61	0.35	0.76	0.55
8	CenterPoint Energy	1.09	0.97	0.98	1.22	1.12	0.92	1.20	1.18	1.37	1.12	0.88	0.99	1.16	0.98	1.08
9	CMS Energy Corp.	0.88	0.78	0.77	0.89	0.81	0.81	0.74	0.82	0.82	1.05	1.13	0.97	1.11	0.55	1.07
10	Consol. Edison	0.82	0.80	0.82	0.76	0.65	0.76	0.88	0.86	1.01	0.98	0.90	0.75	0.70	0.81	0.74
11	Dominion Resources	0.78	0.78	1.04	0.81	0.65	0.64	0.63	0.77	0.73	0.79	0.87	0.75	0.83	0.74	0.85
12	DTE Energy	1.02	0.68	0.84	0.94	0.93	0.84	1.02	0.96	0.93	1.09	1.51	1.50	0.98	1.07	1.03
13	Duke Energy	0.90	0.78	0.81	0.87	0.82	0.96	1.20	1.09	0.87	0.89	0.78	0.77	0.71	1.09	0.97
14	Edison Int'l	0.77	0.73	0.34	0.94	0.91	0.80	0.83	0.80	0.76	0.61	0.60	0.79	0.93	0.88	0.93
15	El Paso Electric	0.88	0.94	0.86	1.04	0.85	0.67	0.69	0.79	0.85	1.03	0.98	0.68	0.78	0.84	1.26
16	Entergy Corp.	1.01	0.73	0.73	0.76	1.08	1.05	1.19	1.03	0.88	1.15	1.24	1.02	0.93	1.14	1.13
17	Eversource Energy	0.86	0.78	0.83	0.79	0.87	0.91	0.90	1.13	0.86	0.80	1.05	0.96	0.77	0.68	0.67
18	Evergy, Inc.	1.25	1.25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19	Exelon Corp.	1.26	1.20	1.05	1.06	0.76	0.82	0.93	1.07	0.98	1.19	1.66	1.66	1.61	1.84	1.86
20	FirstEnergy Corp.	1.05	0.94	0.76	1.03	0.94	0.93	0.54	0.91	0.85	1.05	1.32	1.22	0.95	1.56	1.75
21	Fortis Inc.	0.68	0.67	0.72	0.76	0.76	0.65	0.60	0.77	0.72	0.66	0.68	0.63	0.66	0.57	0.63
22	Great Plains Energy	0.79	N/A	N/A	0.78	1.17	0.90	0.79	0.91	0.86	1.03	0.86	0.50	0.35	0.69	0.64
23	Hawaiian Elec.	1.07	1.14	0.85	0.81	1.37	0.98	1.03	0.92	0.99	1.30	1.50	0.79	0.87	1.15	1.23
24	IDACORP, Inc.	1.08	1.25	1.42	1.33	1.16	1.15	1.21	1.34	1.24	0.86	0.78	0.96	0.82	0.64	0.89
25	MGE Energy	1.10	0.73	0.66	1.19	1.44	1.60	1.31	0.96	1.05	1.56	1.57	1.13	0.87	0.59	0.80
26	NextEra Energy, Inc.	0.64	0.82	0.56	0.53	0.63	0.71	0.76	0.69	0.39	0.58	0.69	0.60	0.63	0.56	0.73
27	NorthWestern Corp	1.06	1.11	1.23	1.21	1.13	1.01	0.93	0.92	0.88	1.04	0.76	0.88	1.27	1.23	1.29
28	OGE Energy	0.87	1.29	1.30	0.81	1.00	1.18	1.19	0.69	0.63	0.51	0.69	0.61	0.60	0.79	0.84
29	Otter Tail Corp.	0.89	0.80	1.49	1.10	0.84	0.74	0.70	0.67	0.85	1.16	1.09	0.56	0.37	0.65	1.44
30	PG&E Corp.	0.70	N/A	- 0.58	0.82	0.73	0.69	0.80	0.56	0.68	0.83	0.85	0.78	0.84	1.02	1.12
31	Pinnacle West Capital	0.96	1.04	1.06	0.76	0.81	0.92	0.97	0.87	0.96	0.91	0.97	1.06	0.86	0.99	1.28
32	PNM Resources	0.70	0.72	0.82	0.84	0.57	0.57	0.63	0.80	0.87	0.77	0.82	0.70	0.44	0.43	0.89
33	Portland General	0.85	1.05	1.00	1.07	0.88	0.80	0.47	0.59	1.28	1.25	0.81	0.44	0.77	0.72	0.78
34	PPL Corp.	0.97	0.92	0.93	0.82	1.00	0.72	0.75	0.69	0.91	1.07	1.11	1.07	1.25	1.13	1.18
35	Public Serv. Enterprise	1.12	1.13	0.70	0.64	0.61	0.80	1.04	0.93	0.96	1.30	1.23	1.41	1.34	1.64	1.94
36	SCANA Corp.	0.86	N/A	N/A	0.86	0.66	0.83	0.90	0.83	0.77	0.88	0.86	0.76	0.76	0.92	1.26
37	Sempra Energy	0.80	0.66	0.80	0.67	0.56	0.81	0.74	0.84	0.73	0.72	0.90	1.02	0.87	0.90	0.93
38	Southern Co.	0.88	0.87	0.83	0.90	0.77	0.88	0.80	0.86	0.93	0.94	0.93	0.78	0.87	0.91	1.00
39	Vectren Corp.	1.00	N/A	N/A	0.82	0.87	0.95	0.98	1.05	1.13	1.20	1.31	0.83	0.82	0.98	1.00
40	WEC Energy Group	0.96	0.68	0.90	0.92	1.20	0.97	1.37	1.42	1.30	1.02	0.97	0.89	0.61	0.56	0.69
41	Westar Energy	0.72	N/A	N/A	0.91	0.63	0.86	0.70	0.72	0.67	0.71	0.88	0.68	0.36	0.48	1.00
42	Xcel Energy Inc.	0.76	0.68	0.77	0.84	0.79	0.63	0.68	0.60	0.76	0.83	0.76	0.89	0.75	0.71	0.90
43	Average	0.89	0.86	0.85	0.89	0.88	0.86	0.87	0.88	0.88	0.96	0.98	0.86	0.80	0.88	1.05
44	Median	0.86	0.80	0.83	0.84	0.84	0.83	0.82	0.86	0.87	0.96	0.90	0.80	0.80	0.82	1.00

Sources:

<sup>1</sup> The Value Line Investment Survey Investment Analyzer Software, downloaded on June 25, 2019.

<sup>2</sup> The Value Line Investment Survey, June 14, July 26, and August 16, 2019.

Notes:

<sup>c</sup> Based on the projected 2019 Cash Flow per share and Capital Spending per share, published in The Value Line Investment Survey, June 14, July 26, and August 16, 2019.

## Avista Corporation

### Natural Gas Utilities (Valuation Metrics)

#### Price to Earnings (P/E) Ratio <sup>1</sup>

Line	Company	14-Year														
		Average (1)	2019 <sup>2</sup> (2)	2018 (3)	2017 (4)	2016 (5)	2015 (6)	2014 (7)	2013 (8)	2012 (9)	2011 (10)	2010 (11)	2009 (12)	2008 (13)	2007 (14)	2006 (15)
1	Atmos Energy	16.88	23.20	21.75	22.04	20.80	17.50	16.09	15.87	15.93	14.36	13.21	12.54	13.59	15.87	13.52
2	Chesapeake Utilities	18.30	27.10	22.94	27.84	21.77	19.15	17.70	15.62	14.81	14.16	12.21	14.20	14.15	16.72	17.85
3	New Jersey Resources	17.20	23.70	15.64	22.38	21.25	16.61	11.73	15.98	16.83	16.76	14.98	14.93	12.27	21.61	16.13
4	NiSource Inc.	20.00	21.60	19.34	NMF	23.18	37.34	22.74	18.89	17.87	19.36	15.33	14.34	12.07	18.82	19.16
5	Northwest Nat. Gas	20.70	28.90	26.63	NMF	26.92	23.69	20.69	19.38	21.08	19.02	16.97	15.17	18.08	16.74	15.85
6	ONE Gas Inc.	22.15	26.00	23.06	23.47	22.74	19.79	17.83	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7	South Jersey Inds.	19.24	30.10	22.64	27.92	21.71	17.95	18.03	18.90	16.94	18.48	16.81	14.96	15.90	17.18	11.86
8	Southwest Gas	17.70	20.10	20.61	22.21	21.64	19.35	17.86	15.76	15.00	15.69	13.97	12.20	20.27	17.26	15.94
9	Spire Inc.	16.60	22.00	16.74	19.82	19.61	16.49	19.80	21.25	14.46	13.05	13.74	13.39	14.31	14.19	13.60
10	UGI Corp.	15.88	20.40	17.77	20.84	19.33	17.71	15.81	15.44	16.38	15.03	10.86	10.30	13.30	15.14	13.97
11	WGL Holdings Inc.	16.71	N/A	N/A	25.40	20.05	16.99	15.15	18.25	15.27	16.97	15.11	12.58	13.66	15.60	15.46
12	Average	18.08	24.31	20.71	23.55	21.73	20.23	17.58	17.53	16.46	16.29	14.32	13.46	14.76	16.91	15.33
13	Median	17.75	23.45	21.18	22.38	21.64	17.95	17.83	17.11	16.15	16.22	14.48	13.80	13.91	16.73	15.66

#### Market Price to Cash Flow (MP/CF) Ratio <sup>1</sup>

Line	Company	14-Year														
		Average (1)	2019 <sup>2a</sup> (2)	2018 (3)	2017 (4)	2016 (5)	2015 (6)	2014 (7)	2013 (8)	2012 (9)	2011 (10)	2010 (11)	2009 (12)	2008 (13)	2007 (14)	2006 (15)
14	Atmos Energy	8.58	12.89	12.02	11.99	11.36	9.30	8.79	7.72	7.02	6.87	6.15	5.76	6.48	7.44	6.36
15	Chesapeake Utilities	9.67	13.22	12.24	13.78	12.06	10.16	9.25	8.12	7.46	7.35	6.36	9.48	7.88	8.58	9.40
16	New Jersey Resources	12.05	15.31	11.44	14.45	13.94	11.71	8.95	11.29	12.29	12.71	11.32	11.34	9.15	13.76	11.01
17	NiSource Inc.	7.87	8.77	8.91	12.11	8.56	10.38	10.56	8.71	7.81	6.81	5.09	4.06	4.87	6.69	6.87
18	Northwest Nat. Gas	13.09	12.37	11.75	59.72	11.57	9.46	8.84	8.61	9.48	9.08	8.94	8.26	8.75	8.54	7.83
19	ONE Gas Inc.	10.80	12.60	11.85	11.89	11.10	9.19	8.16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
20	South Jersey Inds.	11.00	14.02	10.72	12.33	10.88	10.70	10.57	11.57	10.95	11.98	10.78	9.57	10.38	11.23	8.32
21	Southwest Gas	6.31	8.20	9.32	9.10	7.41	6.56	6.35	5.94	5.55	5.60	4.91	3.84	4.89	5.42	5.28
22	Spire Inc.	9.64	10.88	9.60	10.39	10.32	8.47	12.03	13.76	8.80	8.08	8.12	8.58	8.95	8.46	8.46
23	UGI Corp.	7.79	10.36	9.01	10.09	9.02	8.47	7.49	6.55	6.30	7.51	6.02	5.74	7.11	7.92	7.48
24	WGL Holdings Inc.	9.17	N/A	N/A	12.92	11.36	9.59	8.46	9.83	9.03	9.52	8.34	7.17	7.68	8.39	7.81
25	Average	9.52	11.86	10.69	16.25	10.69	9.45	9.04	9.21	8.47	8.55	7.60	7.38	7.62	8.64	7.88
26	Median	9.20	12.48	11.08	12.11	11.10	9.46	8.84	8.66	8.31	7.80	7.24	7.71	7.78	8.42	7.82

#### Market Price to Book Value (MP/BV) Ratio <sup>1</sup>

Line	Company	14-Year														
		Average (1)	2019 <sup>2b</sup> (2)	2018 (3)	2017 (4)	2016 (5)	2015 (6)	2014 (7)	2013 (8)	2012 (9)	2011 (10)	2010 (11)	2009 (12)	2008 (13)	2007 (14)	2006 (15)
27	Atmos Energy	1.55	2.00	2.03	2.16	2.11	1.72	1.55	1.39	1.28	1.30	1.18	1.05	1.20	1.40	1.34
28	Chesapeake Utilities	1.94	2.44	2.50	2.51	2.28	2.19	2.12	1.83	1.66	1.61	1.40	1.37	1.64	1.84	1.85
29	New Jersey Resources	2.29	2.75	2.63	2.70	2.52	2.28	2.13	2.05	2.33	2.31	2.09	2.16	1.92	2.17	2.01
30	NiSource Inc.	1.45	1.66	1.92	1.96	1.84	1.95	1.94	1.58	1.37	1.15	0.92	0.69	0.94	1.16	1.19
31	Northwest Nat. Gas	1.89	2.40	2.35	2.41	1.92	1.63	1.59	1.56	1.72	1.70	1.78	1.73	1.96	2.05	1.69
32	ONE Gas Inc.	1.64	2.03	1.93	1.89	1.67	1.26	1.07	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
33	South Jersey Inds.	2.10	1.83	2.11	2.29	1.79	1.77	2.07	2.27	2.21	2.59	2.38	1.95	2.08	2.21	1.93
34	Southwest Gas	1.56	1.75	1.79	2.13	1.96	1.68	1.68	1.61	1.51	1.43	1.24	0.97	1.20	1.46	1.46
35	Spire Inc.	1.55	1.62	1.63	1.65	1.64	1.44	1.33	1.34	1.51	1.46	1.39	1.68	1.71	1.66	1.71
36	UGI Corp.	2.03	2.39	2.30	2.62	2.41	2.29	1.97	1.69	1.45	1.75	1.55	1.66	2.01	2.16	2.21
37	WGL Holdings Inc.	1.81	N/A	N/A	2.69	2.45	2.15	1.69	1.71	1.66	1.63	1.50	1.45	1.59	1.64	1.59
38	Average	1.81	2.09	2.12	2.27	2.05	1.85	1.74	1.70	1.67	1.69	1.54	1.47	1.62	1.78	1.70
39	Median	1.77	2.01	2.07	2.29	1.96	1.77	1.69	1.65	1.58	1.62	1.45	1.56	1.67	1.75	1.70

Sources:

<sup>1</sup> The Value Line Investment Survey Investment Analyzer Software, downloaded on June 25, 2019.

<sup>2</sup> The Value Line Investment Survey, May 31, 2019.

Notes:

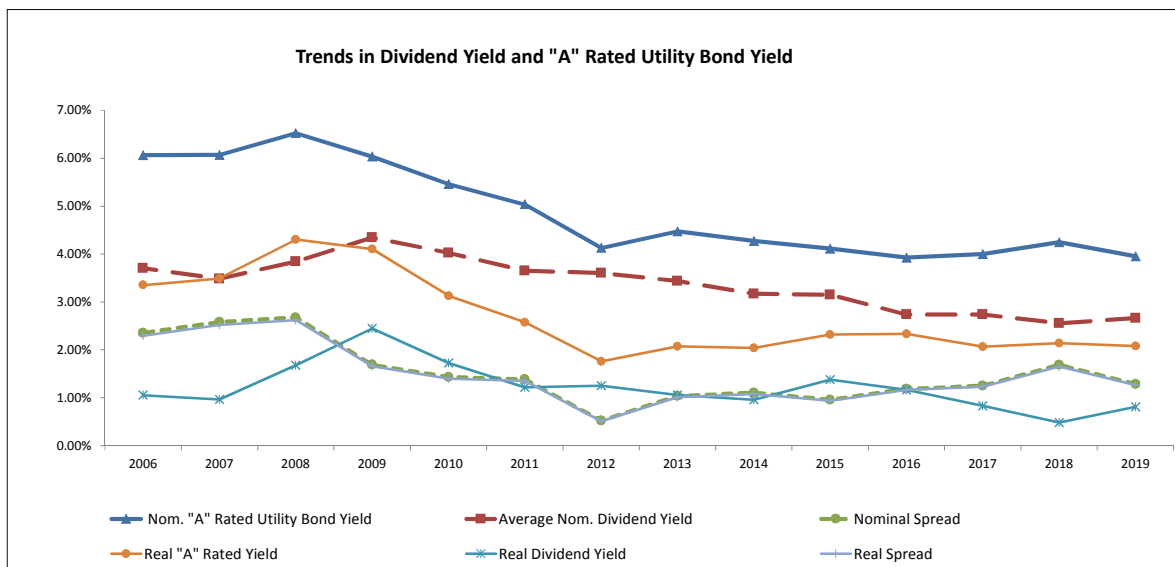
<sup>a</sup> Based on the average of the high and low price for 2018 and the projected 2018 Cash Flow per share, published in The Value Line Investment Survey, May 31, 2019.

<sup>b</sup> Based on the average of the high and low price for 2018 and the projected 2018 Book Value per share, published in The Value Line Investment Survey, May 31, 2019.

## Avista Corporation

### Natural Gas Utilities (Valuation Metrics)

Line	Company	Dividend Yield <sup>1</sup>														
		14-Year Average (1)	2019 <sup>2a</sup> (2)	2018 (3)	2017 (4)	2016 (5)	2015 (6)	2014 (7)	2013 (8)	2012 (9)	2011 (10)	2010 (11)	2009 (12)	2008 (13)	2007 (14)	2006 (15)
1	Atmos Energy	3.62%	2.17%	2.27%	2.39%	2.39%	2.88%	3.11%	3.53%	4.13%	4.19%	4.70%	5.34%	4.78%	4.16%	4.66%
2	Chesapeake Utilities	2.92%	1.79%	1.69%	1.91%	1.91%	2.18%	2.44%	2.87%	3.25%	3.36%	3.91%	4.09%	4.10%	3.62%	3.76%
3	New Jersey Resources	3.19%	2.47%	2.69%	2.86%	2.86%	3.14%	3.50%	3.71%	3.38%	3.33%	3.69%	3.46%	3.35%	3.02%	3.19%
4	NISource Inc.	4.05%	2.99%	2.79%	2.76%	2.76%	3.53%	2.69%	3.30%	3.84%	4.53%	5.66%	7.64%	5.69%	4.29%	4.21%
5	Northwest Nat. Gas	3.58%	3.03%	3.02%	3.28%	3.28%	4.01%	4.14%	4.22%	3.83%	3.85%	3.63%	3.73%	3.27%	3.12%	3.73%
6	ONE Gas Inc.	2.40%	2.41%	2.37%	2.32%	2.32%	2.71%	2.28%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7	South Jersey Inds.	3.32%	3.98%	3.20%	3.64%	3.64%	3.95%	3.40%	3.14%	3.22%	2.81%	3.00%	3.43%	3.08%	2.81%	3.15%
8	Southwest Gas	2.84%	2.74%	2.46%	2.62%	2.62%	2.87%	2.72%	2.69%	2.75%	2.78%	3.15%	4.01%	3.19%	2.56%	2.60%
9	Spire Inc.	3.81%	2.98%	3.09%	3.08%	3.08%	3.53%	3.78%	3.96%	4.11%	4.31%	4.70%	3.91%	3.94%	4.43%	4.34%
10	UGI Corp.	2.79%	2.08%	2.01%	2.35%	2.35%	2.50%	2.61%	3.01%	3.68%	3.30%	3.48%	3.23%	2.85%	2.69%	2.96%
11	WGL Holdings Inc.	3.84%	N/A	2.56%	2.94%	2.94%	3.41%	4.24%	3.94%	3.89%	4.06%	4.37%	4.62%	4.22%	4.19%	4.48%
12	<b>Average</b>	<b>3.37%</b>	<b>2.66%</b>	<b>2.56%</b>	<b>2.74%</b>	<b>2.74%</b>	<b>3.16%</b>	<b>3.17%</b>	<b>3.44%</b>	<b>3.61%</b>	<b>3.65%</b>	<b>4.03%</b>	<b>4.35%</b>	<b>3.85%</b>	<b>3.49%</b>	<b>3.71%</b>
13	<b>Median</b>	<b>3.30%</b>	<b>2.60%</b>	<b>2.56%</b>	<b>2.76%</b>	<b>2.76%</b>	<b>3.14%</b>	<b>3.11%</b>	<b>3.42%</b>	<b>3.75%</b>	<b>3.60%</b>	<b>3.80%</b>	<b>3.96%</b>	<b>3.65%</b>	<b>3.37%</b>	<b>3.75%</b>
14	20-Yr Treasury Yields <sup>3</sup>	3.41%	2.57%	3.02%	2.65%	2.23%	2.55%	3.07%	3.12%	2.54%	3.62%	4.03%	4.11%	4.36%	4.91%	4.99%
15	20-Yr TIPS <sup>3</sup>	1.26%	0.73%	0.94%	0.75%	0.66%	0.78%	0.87%	0.75%	0.21%	1.19%	1.73%	2.21%	2.19%	2.36%	2.31%
16	Implied Inflation <sup>4</sup>	2.12%	1.83%	2.06%	1.89%	1.56%	1.75%	2.19%	2.35%	2.33%	2.40%	2.26%	1.85%	2.13%	2.49%	2.62%
17	<b>Real Dividend Yield<sup>5</sup></b>	<b>1.22%</b>	<b>0.81%</b>	<b>0.48%</b>	<b>0.83%</b>	<b>1.17%</b>	<b>1.38%</b>	<b>0.96%</b>	<b>1.06%</b>	<b>1.25%</b>	<b>1.22%</b>	<b>1.73%</b>	<b>2.45%</b>	<b>1.68%</b>	<b>0.97%</b>	<b>1.06%</b>
<b>Utility</b>																
18	<b>Nominal "A" Rated Yield<sup>6</sup></b>	<b>4.88%</b>	<b>3.95%</b>	<b>4.25%</b>	<b>4.00%</b>	<b>3.93%</b>	<b>4.12%</b>	<b>4.28%</b>	<b>4.48%</b>	<b>4.13%</b>	<b>5.04%</b>	<b>5.46%</b>	<b>6.04%</b>	<b>6.53%</b>	<b>6.07%</b>	<b>6.07%</b>
19	<b>Real "A" Rated Yield</b>	<b>2.70%</b>	<b>2.08%</b>	<b>2.14%</b>	<b>2.07%</b>	<b>2.34%</b>	<b>2.33%</b>	<b>2.04%</b>	<b>2.08%</b>	<b>1.76%</b>	<b>2.58%</b>	<b>3.13%</b>	<b>4.11%</b>	<b>4.31%</b>	<b>3.49%</b>	<b>3.36%</b>
<b>Spreads (Utility Bond - Stock)</b>																
20	<b>Nominal<sup>7</sup></b>	<b>1.51%</b>	<b>1.29%</b>	<b>1.69%</b>	<b>1.26%</b>	<b>1.19%</b>	<b>0.96%</b>	<b>1.11%</b>	<b>1.04%</b>	<b>0.52%</b>	<b>1.39%</b>	<b>1.43%</b>	<b>1.69%</b>	<b>2.68%</b>	<b>2.59%</b>	<b>2.36%</b>
21	<b>Real<sup>8</sup></b>	<b>1.48%</b>	<b>1.27%</b>	<b>1.66%</b>	<b>1.23%</b>	<b>1.17%</b>	<b>0.94%</b>	<b>1.08%</b>	<b>1.01%</b>	<b>0.51%</b>	<b>1.36%</b>	<b>1.40%</b>	<b>1.66%</b>	<b>2.62%</b>	<b>2.52%</b>	<b>2.30%</b>
<b>Spreads (Treasury Bond - Stock)</b>																
22	<b>Nominal<sup>9</sup></b>	<b>0.04%</b>	<b>-0.09%</b>	<b>0.46%</b>	<b>-0.09%</b>	<b>-0.52%</b>	<b>-0.61%</b>	<b>-0.10%</b>	<b>-0.32%</b>	<b>-1.06%</b>	<b>-0.03%</b>	<b>0.00%</b>	<b>-0.24%</b>	<b>0.51%</b>	<b>1.42%</b>	<b>1.28%</b>
23	<b>Real<sup>9</sup></b>	<b>0.04%</b>	<b>-0.09%</b>	<b>0.45%</b>	<b>-0.09%</b>	<b>-0.51%</b>	<b>-0.60%</b>	<b>-0.10%</b>	<b>-0.31%</b>	<b>-1.04%</b>	<b>-0.03%</b>	<b>0.00%</b>	<b>-0.23%</b>	<b>0.50%</b>	<b>1.39%</b>	<b>1.25%</b>



**Sources:**

<sup>1</sup> The Value Line Investment Survey Investment Analyzer Software, downloaded on June 25, 2019.  
<sup>2</sup> The Value Line Investment Survey, May 31, 2019.

<sup>3</sup> St. Louis Federal Reserve: Economic Research, <http://research.stlouisfed.org>.

<sup>4</sup> [www.moodys.com](http://www.moodys.com), Bond Yields and Key Indicators, through August 30, 2019.

**Notes:**

<sup>a</sup> Based on the average of the high and low price for 2019 and the projected 2019 Dividends Declared per share, published in The Value Line Investment Survey, May 31, 2019.

<sup>b</sup> Line 16 = (1 + Line 14) / (1 + Line 15) - 1.

<sup>c</sup> Line 17 = (1 + Line 12) / (1 + Line 16) - 1.

<sup>d</sup> The spread being measured here is the nominal A-rated utility bond yield over the average nominal utility dividend yield; (Line 18 - Line 12).

<sup>e</sup> The spread being measured here is the real A-rated utility bond yield over the average real utility dividend yield; (Line 19 - Line 17).

<sup>f</sup> The spread being measured here is the nominal 20-Year Treasury yield over the average nominal utility dividend yield; (Line 14 - Line 12).

<sup>g</sup> The spread being measured here is the real 20-Year TIPS yield over the average real utility dividend yield; (Line 15 - Line 17).

## Avista Corporation

### Natural Gas Utilities (Valuation Metrics)

		Dividend per Share <sup>1</sup>														
Line	Company	14-Year														
		Average (1)	2019 <sup>2</sup> (2)	2018 (3)	2017 (4)	2016 (5)	2015 (6)	2014 (7)	2013 (8)	2012 (9)	2011 (10)	2010 (11)	2009 (12)	2008 (13)	2007 (14)	2006 (15)
1	Atmos Energy	1.45	2.10	1.40	1.38	1.68	1.56	1.48	1.40	1.38	1.36	1.34	1.32	1.30	1.28	1.26
2	Chesapeake Utilities	0.99	1.55	1.01	0.96	1.19	1.12	1.07	1.01	0.96	0.91	0.87	0.83	0.81	0.78	0.77
3	New Jersey Resources	0.76	1.17	0.81	0.77	0.98	0.93	0.86	0.81	0.77	0.72	0.68	0.62	0.56	0.51	0.48
4	NISource Inc.	0.90	0.80	0.98	0.94	0.64	0.83	1.02	0.98	0.94	0.92	0.92	0.92	0.92	0.92	0.92
5	Northwest Nat. Gas	1.72	1.93	1.83	1.79	1.87	1.86	1.85	1.83	1.79	1.75	1.68	1.60	1.52	1.44	1.39
6	ONE Gas Inc.	1.36	2.00	N/A	N/A	1.40	1.20	0.84	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7	South Jersey Inds.	0.80	1.20	0.90	0.83	1.06	1.02	0.96	0.90	0.83	0.75	0.68	0.61	0.56	0.51	0.46
8	Southwest Gas	1.26	2.18	1.32	1.18	1.80	1.62	1.46	1.32	1.18	1.06	1.00	0.95	0.90	0.86	0.82
9	Spire Inc.	1.69	2.37	1.70	1.66	1.96	1.84	1.76	1.70	1.66	1.61	1.57	1.53	1.49	1.45	1.40
10	UGI Corp.	0.70	1.12	0.74	0.71	0.93	0.89	0.79	0.74	0.71	0.68	0.60	0.52	0.50	0.48	0.46
11	WGL Holdings Inc.	1.59	N/A	1.66	1.59	1.93	1.83	1.72	1.66	1.59	1.55	1.50	1.47	1.41	1.37	1.35
12	<b>Average</b>	<b>1.19</b>	<b>1.64</b>	<b>1.24</b>	<b>1.18</b>	<b>1.40</b>	<b>1.34</b>	<b>1.25</b>	<b>1.24</b>	<b>1.18</b>	<b>1.13</b>	<b>1.08</b>	<b>1.04</b>	<b>1.00</b>	<b>0.96</b>	<b>0.93</b>
13	<b>Industry Average Growth</b>	<b>4.91%</b>	<b>32.92%</b>	<b>4.67%</b>	<b>-15.92%</b>	<b>5.03%</b>	<b>6.50%</b>	<b>1.58%</b>	<b>4.67%</b>	<b>4.35%</b>	<b>4.34%</b>	<b>4.47%</b>	<b>4.20%</b>	<b>3.83%</b>	<b>3.13%</b>	

Sources:

<sup>1</sup> The Value Line Investment Survey Investment Analyzer Software, downloaded on June 25, 2019.

<sup>2</sup> The Value Line Investment Survey, May 31, 2019.

## Avista Corporation

### Natural Gas Utilities (Valuation Metrics)

Line	Company	Earnings per Share <sup>1</sup>														
		14-Year														
		Average (1)	2019 <sup>2</sup> (2)	2018 (3)	2017 (4)	2016 (5)	2015 (6)	2014 (7)	2013 (8)	2012 (9)	2011 (10)	2010 (11)	2009 (12)	2008 (13)	2007 (14)	2006 (15)
1	Atmos Energy	2.73	4.30	4.00	3.60	3.38	3.09	2.96	2.50	2.10	2.26	2.16	1.97	2.00	1.94	2.00
2	Chesapeake Utilities	2.20	3.45	3.45	2.68	2.86	2.68	2.47	2.26	1.99	1.91	1.82	1.43	1.39	1.29	1.15
3	New Jersey Resources	1.53	2.05	2.72	1.73	1.61	1.78	2.08	1.37	1.36	1.29	1.23	1.20	1.35	0.78	0.93
4	NiSource Inc.	1.13	1.30	1.30	0.39	1.00	0.63	1.67	1.57	1.37	1.05	1.06	0.84	1.34	1.14	1.14
5	Northwest Nat. Gas	2.08	2.40	2.33	-1.94	2.12	1.96	2.16	2.24	2.22	2.39	2.73	2.83	2.57	2.76	2.35
6	ONE Gas Inc.	2.77	3.40	3.25	3.02	2.65	2.24	2.07	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7	South Jersey Inds.	1.32	1.10	1.38	1.23	1.34	1.44	1.57	1.52	1.52	1.45	1.35	1.19	1.14	1.05	1.23
8	Southwest Gas	2.75	4.20	3.68	3.62	3.18	2.92	3.01	3.11	2.86	2.43	2.27	1.94	1.39	1.95	1.98
9	Spire Inc.	2.91	3.85	4.33	3.43	3.24	3.16	2.35	2.02	2.79	2.86	2.43	2.92	2.64	2.31	2.37
10	UGI Corp.	1.74	2.50	2.74	2.29	2.05	2.01	1.92	1.59	1.17	1.37	1.59	1.57	1.33	1.18	1.10
11	WGL Holdings Inc.	2.56	N/A	N/A	3.11	3.27	3.16	2.68	2.31	2.68	2.25	2.27	2.53	2.44	2.09	1.94
12	<b>Average</b>	<b>2.11</b>	<b>2.86</b>	<b>2.92</b>	<b>2.11</b>	<b>2.43</b>	<b>2.28</b>	<b>2.27</b>	<b>2.05</b>	<b>2.01</b>	<b>1.93</b>	<b>1.89</b>	<b>1.84</b>	<b>1.76</b>	<b>1.65</b>	<b>1.62</b>
13	<b>Industry Average Growth</b>	<b>4.99%</b>	<b>-2.16%</b>	<b>38.59%</b>	<b>-13.26%</b>	<b>6.50%</b>	<b>0.54%</b>	<b>10.67%</b>	<b>2.13%</b>	<b>4.13%</b>	<b>1.87%</b>	<b>2.61%</b>	<b>4.79%</b>	<b>6.67%</b>	<b>1.82%</b>	

Sources:

<sup>1</sup> The Value Line Investment Survey Investment Analyzer Software, downloaded on June 25, 2019.

<sup>2</sup> The Value Line Investment Survey, May 31, 2019.

# Avista Corporation

## Natural Gas Utilities (Valuation Metrics)

<u>Line</u>	<u>Company</u>	<u>Cash Flow / Capital Spending</u>				<u>3 - 5 yr</u>
		<u>2017</u> (1)	<u>2018</u> (2)	<u>2019</u> (3)	<u>2020</u> (4)	<u>Projection</u> (5)
1	Atmos Energy	0.62x	0.55x	0.53x	0.54x	0.67x
2	Chesapeake Utilities	0.50x	0.39x	0.66x	0.68x	0.76x
3	New Jersey Resources	0.70x	0.85x	1.41x	1.44x	1.61x
4	NiSource Inc.	0.41x	0.58x	0.66x	0.70x	0.73x
5	Northwest Nat. Gas	0.14x	0.71x	0.77x	0.82x	1.02x
6	ONE Gas Inc.	0.87x	0.84x	0.78x	0.81x	1.01x
7	South Jersey Inds.	0.81x	0.73x	0.48x	0.55x	0.58x
8	Southwest Gas	0.68x	0.56x	0.62x	0.64x	0.65x
9	Spire Inc.	0.72x	0.77x	0.65x	0.62x	0.75x
10	UGI Corp.	1.29x	1.64x	1.33x	1.45x	1.52x
12	Average	0.68x	0.76x	0.79x	0.83x	0.93x
13	Median	0.69x	0.72x	0.66x	0.69x	0.76x

Sources:

The Value Line Investment Survey Investment Analyzer Software,  
downloaded on June 25, 2019.

The Value Line Investment Survey, May 31, 2019.

Notes:

Based on the projected Cash Flow per share and Capital Spending per share.



## Avista Corporation

### Natural Gas Utilities (Valuation Metrics)

#### Percent Dividends to Book Value <sup>1</sup>

Line	Company	14-Year														
		Average (1)	2019 <sup>2a</sup> (2)	2018 (3)	2017 (4)	2016 (5)	2015 (6)	2014 (7)	2013 (8)	2012 (9)	2011 (10)	2010 (11)	2009 (12)	2008 (13)	2007 (14)	2006 (15)
1	Atmos Energy	5.23%	4.35%	4.53%	4.90%	5.04%	4.96%	4.81%	4.92%	5.28%	5.44%	5.55%	5.61%	5.75%	5.82%	6.25%
2	Chesapeake Utilities	5.34%	4.36%	4.39%	4.23%	4.35%	4.78%	5.18%	5.25%	5.39%	5.42%	5.49%	5.60%	6.71%	6.66%	6.95%
3	New Jersey Resources	7.17%	6.78%	6.87%	7.26%	7.21%	7.16%	7.45%	7.60%	7.86%	7.69%	7.72%	7.48%	6.42%	6.54%	6.40%
4	NiSource Inc.	5.36%	4.95%	5.96%	5.46%	5.08%	6.89%	5.22%	5.22%	5.25%	5.19%	5.22%	5.25%	5.34%	4.97%	5.02%
5	Northwest Nat. Gas	6.63%	7.27%	7.16%	7.27%	6.30%	6.53%	6.58%	6.59%	6.57%	6.55%	6.44%	6.43%	6.41%	6.39%	6.32%
6	ONE Gas Inc.	3.97%	4.87%	4.73%	4.48%	3.88%	3.41%	2.44%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7	South Jersey Inds.	6.91%	7.27%	7.63%	7.34%	6.53%	6.98%	7.04%	7.12%	7.09%	7.26%	7.13%	6.69%	6.40%	6.22%	6.09%
8	Southwest Gas	4.37%	4.81%	4.90%	5.25%	5.14%	4.82%	4.57%	4.33%	4.16%	3.98%	3.90%	3.89%	3.83%	3.74%	3.80%
9	Spire Inc.	5.90%	4.84%	5.06%	5.09%	5.06%	5.07%	5.04%	5.31%	6.22%	6.30%	6.53%	6.56%	6.74%	7.33%	7.43%
10	UGI Corp.	5.47%	4.97%	4.82%	5.28%	5.65%	5.72%	5.14%	5.07%	5.35%	5.77%	5.41%	5.35%	5.72%	5.82%	6.54%
11	WGL Holdings Inc.	6.86%	N/A	N/A	6.88%	7.21%	7.33%	7.14%	6.73%	6.45%	6.60%	6.57%	6.72%	6.71%	6.88%	7.13%
12	Average	5.83%	5.45%	5.60%	5.77%	5.59%	5.78%	5.51%	5.82%	5.96%	6.02%	6.00%	5.96%	6.00%	6.04%	6.19%
13	Median	5.67%	4.91%	4.98%	5.28%	5.14%	5.72%	5.18%	5.28%	5.80%	6.03%	5.99%	6.02%	6.41%	6.30%	6.36%

#### Dividends to Earnings Ratio <sup>1</sup>

Line	Company	14-Year														
		Average (1)	2019 <sup>2b</sup> (2)	2018 (3)	2017 (4)	2016 (5)	2015 (6)	2014 (7)	2013 (8)	2012 (9)	2011 (10)	2010 (11)	2009 (12)	2008 (13)	2007 (14)	2006 (15)
1	Atmos Energy	0.57	0.49	0.49	0.50	0.50	0.50	0.50	0.56	0.66	0.60	0.62	0.67	0.65	0.66	0.63
2	Chesapeake Utilities	0.49	0.45	0.40	0.47	0.42	0.42	0.43	0.45	0.48	0.48	0.48	0.58	0.58	0.61	0.67
3	New Jersey Resources	0.54	0.57	0.41	0.60	0.61	0.52	0.41	0.59	0.57	0.56	0.55	0.52	0.41	0.65	0.51
4	NiSource Inc.	0.86	0.62	0.60	1.79	0.64	1.32	0.61	0.62	0.69	0.88	0.87	1.10	0.69	0.81	0.81
5	Northwest Nat. Gas	0.61	0.80	0.81	- 0.97	0.88	0.95	0.86	0.82	0.81	0.73	0.62	0.57	0.59	0.52	0.59
6	ONE Gas Inc.	0.53	0.59	0.57	0.56	0.53	0.54	0.41	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7	South Jersey Inds.	0.64	1.09	0.82	0.89	0.79	0.71	0.61	0.59	0.54	0.52	0.50	0.51	0.49	0.48	0.37
8	Southwest Gas	0.50	0.52	0.57	0.55	0.57	0.55	0.49	0.42	0.41	0.44	0.44	0.49	0.65	0.44	0.41
9	Spire Inc.	0.62	0.62	0.52	0.61	0.60	0.58	0.75	0.84	0.59	0.56	0.65	0.52	0.56	0.63	0.59
10	UGI Corp.	0.43	0.45	0.37	0.42	0.45	0.44	0.41	0.46	0.60	0.50	0.38	0.33	0.38	0.41	0.41
11	WGL Holdings Inc.	0.64	N/A	N/A	0.65	0.59	0.58	0.64	0.72	0.59	0.69	0.66	0.58	0.58	0.65	0.69
12	Average	0.59	0.62	0.55	0.55	0.60	0.65	0.56	0.61	0.59	0.59	0.58	0.59	0.56	0.59	0.57
13	Median	0.57	0.58	0.54	0.56	0.59	0.55	0.50	0.59	0.59	0.56	0.58	0.54	0.58	0.62	0.59

#### Cash Flow to Capital Spending Ratio <sup>1</sup>

Line	Company	14-Year														
		Average (1)	2019 <sup>2c</sup> (2)	2018 (3)	2017 (4)	2016 (5)	2015 (6)	2014 (7)	2013 (8)	2012 (9)	2011 (10)	2010 (11)	2009 (12)	2008 (13)	2007 (14)	2006 (15)
1	Atmos Energy	0.68	0.53	0.55	0.62	0.59	0.60	0.65	0.55	0.59	0.68	0.77	0.78	0.81	0.94	0.82
2	Chesapeake Utilities	0.73	0.66	0.39	0.50	0.50	0.53	0.71	0.65	0.79	1.12	1.10	1.14	0.83	0.82	0.45
3	New Jersey Resources	1.40	1.41	0.85	0.70	0.59	0.67	1.79	1.46	1.48	1.51	1.55	1.75	2.11	1.67	2.14
4	NiSource Inc.	0.78	0.66	0.58	0.41	0.59	0.53	0.56	0.57	0.65	0.75	1.11	1.06	0.94	1.11	1.37
5	Northwest Nat. Gas	0.98	0.77	0.71	0.14	1.01	1.12	1.15	0.98	1.01	1.33	0.55	1.02	1.35	1.21	1.34
6	ONE Gas Inc.	0.84	0.78	0.84	0.87	0.92	0.86	0.79	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7	South Jersey Inds.	0.87	0.48	0.73	0.81	0.76	0.50	0.53	0.51	0.58	0.70	0.75	1.01	1.67	1.70	1.40
8	Southwest Gas	0.88	0.62	0.56	0.68	0.83	0.84	0.99	1.05	0.90	0.82	1.37	1.28	0.85	0.78	0.72
9	Spire Inc.	1.15	0.65	0.77	0.72	0.96	0.92	0.98	0.78	0.95	1.53	1.61	1.93	1.64	1.42	1.28
10	UGI Corp.	1.48	1.33	1.64	1.29	1.35	1.48	1.53	1.32	1.52	1.28	1.36	1.52	1.72	1.62	1.69
11	WGL Holdings Inc.	1.02	N/A	N/A	0.61	0.56	0.60	0.63	0.71	0.93	1.02	1.60	1.60	1.60	1.17	1.18
12	Average	0.99	0.79	0.76	0.67	0.79	0.79	0.94	0.86	0.94	1.07	1.18	1.31	1.35	1.24	1.24
13	Median	0.96	0.66	0.72	0.68	0.76	0.67	0.79	0.74	0.92	1.07	1.23	1.21	1.48	1.19	1.31

Sources:

<sup>1</sup> The Value Line Investment Survey Investment Analyzer Software, downloaded on June 25, 2019.

<sup>2</sup> The Value Line Investment Survey, May 31, 2019.

Notes:

<sup>a</sup> Based on the projected 2019 Dividends Declared per share and Book Value per share, published in The Value Line Investment Survey, May 31, 2019.

<sup>b</sup> Based on the projected 2019 Dividends Declared per share and Earnings per share, published in The Value Line Investment Survey, May 31, 2019.

<sup>c</sup> Based on the projected 2019 Cash Flow per share and Capital Spending per share, published in The Value Line Investment Survey, May 31, 2019.