



Control Number: 49421



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SOAH DOCKET NO. 473-19-3864
PUC DOCKET NO. 49421

2019 JUN 24 PM 3:41

APPLICATION OF CENTERPOINT § BEFORE THE STATE OFFICE
ENERGY HOUSTON ELECTRIC, LLC § OF
FOR AUTHORITY TO CHANGE RATES § ADMINISTRATIVE HEARINGS

June 24, 2019

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**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**TEXAS COAST UTILITIES COALITION
REQUEST NO.: TCUC04-01**

QUESTION:

Regarding Robert McRae's Rebuttal Testimony:

Please state whether a reduction in the corporate federal-income-tax rate from 35% to 21% reduces CenterPoint Houston Electric's cash flow, because though CenterPoint Energy Houston Electric's rates for its services are calculated as if federal income taxes were paid at the rate of 35%, the federal income tax rate paid is less than 35%. If not, please explain in detail why a reduction in the corporate federal-income-tax rate from 35% to 21% reduces CenterPoint Houston Electric's cash flow.

ANSWER:

Yes, the reduction in the corporate federal income tax rate does reduce CenterPoint Energy Houston Electric's cash flows. The lowering of the tax rate caused a significant increase in excess deferred income taxes. As those excess deferred income taxes are returned to customers, this will create a cash outflow. This topic is specifically described in the rebuttal testimony of Robert B. McRae for PUC Docket No. 48226 which was previously submitted in response to Question No. TCUC 1-22. It has also been described in much detail in the rating agencies' reports on the impacts of tax reform which were submitted in response to Question No. TCUC 1-22 as well. In addition to the impacts of the reduction in the tax rate, changes to tax depreciation expense for utility assets will increase cash taxes, thus reducing cash flow.

SPONSOR (PREPARER):
Robert McRae (Robert McRae)

RESPONSIVE DOCUMENTS:
None

CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864
TEXAS COAST UTILITIES COALITION
REQUEST NO.: TCUC04-02

QUESTION:

Regarding Mr. McRae's rebuttal testimony at page 12, lines 8-10, and at Table 1 on pp. 12-13:

- a. Please confirm that the average equity ratio of 53.28% through the third quarter of 2018 that Mr. Hevert calculated for the companies in Mr. Hevert's proxy group, excludes short-term debt.
- b. Please provide the equity ratios for each company listed in Table 1 when calculated taking into account short-term debt.

ANSWER:

- a. The 53.28 percent average equity ratio through the third quarter of 2018 that Mr. Hevert calculated for the companies in Mr. Hevert's proxy group excludes short-term debt.
- b. Please see TCUC04-02 Attachment 1.

SPONSOR (PREPARER):

Robert B. Hevert (Robert B. Hevert)

RESPONSIVE DOCUMENTS:

Please see TCUC04-02 Attachment 1.xlsx

Proxy Group Equity Ratios Including Short-Term Debt

Company	Ticker	% Common Equity								
		2018Q4	2018Q3	2018Q2	2018Q1	2017Q4	2017Q3	2017Q2	2017Q1	Average
ALLETE, Inc	ALE	58 58%	58 50%	58 84%	61 53%	59 85%	57 78%	57 71%	58 46%	58 91%
Alliant Energy Corporation	LNT	52 17%	50 84%	50 78%	49 51%	49 56%	50 44%	49 68%	50 08%	50 38%
Ameren Corporation	AEE	52 24%	52 62%	51 88%	51 18%	52 25%	52 73%	52 18%	52 33%	52 17%
American Electric Power Company, Inc	AEP	47 87%	47 58%	47 22%	46 89%	47 95%	47 42%	47 75%	47 68%	47 54%
Avangrid, Inc	AGR	55 51%	54 64%	52 72%	53 73%	52 95%	52 32%	52 42%	52 75%	53 38%
Black Hills Corporation	BKH	50 59%	50 87%	51 44%	51 51%	52 12%	52 68%	51 44%	50 53%	51 40%
CMS Energy Corporation	CMS	49 83%	51 80%	52 75%	53 02%	51 44%	52 16%	52 86%	51 99%	51 98%
Consolidated Edison, Inc	ED	45 81%	45 91%	46 11%	46 59%	47 07%	48 14%	47 23%	47 98%	48 85%
DTE Energy Company	DTE	50 29%	49 41%	48 68%	49 27%	49 98%	49 23%	49 18%	49 67%	49 46%
Duke Energy Corporation	DUK	53 00%	53 29%	53 17%	53 58%	53 88%	53 56%	53 75%	53 82%	53 51%
El Paso Electric Company	EE	47 44%	48 57%	46 26%	46 55%	48 18%	48 20%	45 25%	45 60%	47 01%
Eversource Energy	ES	52 21%	50 03%	48 32%	51 12%	50 76%	53 06%	52 88%	53 43%	51 47%
Hawaiian Electric Industries, Inc	HE	57 55%	54 69%	54 28%	55 34%	57 33%	58 00%	56 96%	57 68%	56 48%
NextEra Energy, Inc	NEE	61 98%	64 37%	58 97%	58 20%	56 11%	60 10%	60 04%	58 82%	59 82%
NorthWestern Corporation	NWE	47 88%	48 36%	48 41%	47 48%	45 83%	45 40%	44 74%	45 64%	46 72%
OGE Energy Corp	OGE	53 20%	53 05%	54 25%	53 59%	53 36%	53 05%	52 74%	53 46%	53 34%
Otter Tail Corporation	OTTR	53 13%	53 49%	52 39%	51 52%	51 37%	51 75%	52 26%	52 85%	52 35%
Pinnacle West Capital Corporation	PNW	54 36%	53 68%	51 11%	51 84%	53 14%	52 88%	51 19%	52 54%	52 59%
PNM Resources, Inc	PNM	44 72%	48 01%	46 11%	45 40%	45 48%	47 58%	46 32%	46 13%	46 22%
Portland General Electric Company	POR	50 19%	50 51%	50 29%	50 14%	49 80%	50 17%	50 32%	50 28%	50 21%
Southern Company	SO	54 04%	51 21%	49 28%	48 56%	47 36%	49 92%	48 92%	50 80%	50 01%
WEC Energy Group, Inc	WEC	49 41%	52 92%	53 88%	57 75%	47 56%	54 45%	53 94%	53 44%	52 92%
Xcel Energy Inc	XEL	53 15%	53 13%	52 56%	53 73%	53 72%	53 05%	53 13%	54 13%	53 33%
Mean		52 18%	52 30%	51 47%	51 84%	51 39%	52 16%	51 63%	51 93%	51 86%

Operating Company Capital Structure

Operating Company	Parent	% Common Equity								
		2018Q4	2018Q3	2018Q2	2018Q1	2017Q4	2017Q3	2017Q2	2017Q1	Average
ALLETE (Minnesota Power)	ALE	61.39%	60.43%	60.33%	60.38%	60.04%	59.73%	59.16%	58.71%	60.02%
Superior Water, Light and Power Company	ALE	55.76%	56.58%	57.34%	62.68%	59.67%	55.83%	56.26%	58.21%	57.79%
Interstate Power and Light Company	LNT	53.05%	49.64%	50.47%	49.92%	50.31%	51.75%	50.89%	50.12%	50.77%
Wisconsin Power and Light Company	LNT	51.29%	52.04%	51.09%	49.09%	48.82%	49.13%	48.46%	50.03%	50.00%
Ameren Illinois Company	AEE	52.32%	51.98%	52.49%	52.35%	52.84%	53.31%	53.07%	53.44%	52.73%
Union Electric Company	AEE	52.16%	53.26%	51.28%	50.01%	51.65%	52.14%	51.28%	51.21%	51.62%
AEP Texas Central Company	AEP	NA	NA	NA	NA	NA	NA	NA	NA	NA
AEP Texas North Company	AEP	NA	NA	NA	NA	NA	NA	NA	NA	NA
AEP Texas Inc	AEP	43.71%	43.19%	43.20%	44.66%	45.14%	42.81%	47.09%	47.27%	44.63%
Appalachian Power Company	AEP	48.28%	48.70%	47.90%	47.85%	47.59%	47.87%	47.09%	47.04%	47.79%
Indiana Michigan Power Company	AEP	44.62%	44.53%	44.15%	43.78%	44.37%	44.96%	45.85%	46.52%	44.85%
Kentucky Power Company	AEP	44.94%	44.93%	44.46%	43.85%	43.25%	42.88%	43.17%	43.23%	43.84%
Kingsport Power Company	AEP	44.27%	46.09%	43.76%	43.57%	46.53%	44.13%	45.30%	42.59%	44.53%
Ohio Power Company	AEP	56.19%	53.50%	54.15%	52.91%	57.36%	55.24%	53.98%	56.48%	54.98%
Public Service Company of Oklahoma	AEP	47.20%	49.12%	46.40%	44.86%	45.76%	46.66%	45.67%	45.23%	46.37%
Southwestern Electric Power Company	AEP	46.97%	43.43%	46.72%	46.24%	47.30%	48.15%	47.53%	46.62%	46.62%
Wheeling Power Company	AEP	54.62%	54.70%	54.19%	54.27%	54.26%	54.13%	54.10%	54.10%	54.30%
Central Maine Power Company	AGR	63.21%	62.84%	62.28%	64.18%	63.81%	63.97%	63.27%	62.84%	63.30%
New York State Electric & Gas Corporation	AGR	53.50%	53.68%	49.19%	48.08%	47.49%	46.76%	49.97%	48.37%	49.63%
Rochester Gas and Electric Corporation	AGR	48.89%	48.16%	47.78%	50.80%	49.63%	48.94%	48.46%	45.83%	48.56%
United Illuminating Company	AGR	56.46%	53.89%	51.64%	51.84%	50.85%	49.62%	47.98%	53.98%	52.03%
Black Hills Colorado Electric Utility Company, LP	BKH	48.79%	48.67%	50.50%	50.33%	51.35%	50.61%	50.40%	46.85%	49.69%
Black Hills Power, Inc	BKH	51.44%	52.51%	52.23%	52.25%	52.53%	56.14%	53.26%	53.24%	52.95%
Cheyenne Light, Fuel and Power Company	BKH	51.54%	51.41%	51.58%	51.96%	52.48%	51.30%	50.66%	51.50%	51.56%
Consumers Energy Company	CMS	49.83%	51.80%	52.75%	53.02%	51.44%	52.16%	52.86%	51.99%	51.98%
Consolidated Edison Company of New York, Inc	ED	45.52%	46.57%	45.79%	47.01%	47.94%	49.18%	47.14%	48.75%	47.24%
Orange and Rockland Utilities, Inc	ED	46.10%	45.25%	46.43%	46.17%	46.20%	47.10%	47.31%	47.20%	46.47%
Rockland Electric Company	ED	NA	NA	NA	NA	NA	NA	NA	NA	NA
DTE Electric Company	DTE	50.29%	49.41%	48.68%	49.27%	49.98%	49.23%	49.18%	49.67%	49.46%
Duke Energy Carolinas, LLC	DUK	50.79%	50.78%	50.38%	51.60%	52.72%	52.78%	52.13%	52.45%	51.70%
Duke Energy Florida, LLC	DUK	49.60%	49.65%	48.79%	49.92%	49.25%	49.46%	47.74%	46.95%	48.92%
Duke Energy Indiana, LLC	DUK	52.19%	51.51%	51.23%	51.58%	50.91%	51.71%	51.89%	52.15%	51.65%
Duke Energy Kentucky, Inc	DUK	50.25%	51.51%	51.98%	52.02%	53.11%	50.69%	54.11%	54.81%	52.31%
Duke Energy Ohio, Inc	DUK	65.08%	65.55%	65.19%	64.73%	65.84%	65.79%	65.38%	65.36%	65.36%
Duke Energy Progress, LLC	DUK	50.12%	50.76%	51.43%	51.63%	51.46%	51.06%	51.24%	51.18%	51.11%
El Paso Electric Company	EE	47.44%	48.57%	46.26%	46.55%	48.18%	48.20%	45.25%	45.60%	47.01%
Kansas City Power & Light Company	EVRG	47.81%	47.53%	45.91%	46.57%	47.59%	48.74%	46.89%	47.37%	47.30%
Kansas Gas and Electric Company	EVRG	74.97%	74.91%	74.45%	74.29%	74.18%	74.21%	73.69%	73.49%	74.27%
KCP&L Greater Missouri Operations Company	EVRG	50.73%	51.50%	46.97%	47.18%	47.55%	50.69%	48.79%	48.42%	48.98%
Westar Energy (KPL)	EVRG	55.67%	56.61%	54.66%	56.30%	56.40%	57.25%	55.45%	56.16%	56.06%
Connecticut Light and Power Company	ES	56.18%	54.14%	53.67%	50.40%	53.26%	53.49%	53.95%	54.48%	53.70%
NSTAR Electric Company	ES	53.51%	53.57%	51.03%	50.92%	51.52%	52.87%	52.73%	54.29%	52.55%
Public Service Company of New Hampshire	ES	46.94%	42.37%	40.24%	52.03%	51.55%	54.77%	52.95%	53.47%	49.29%
Western Massachusetts Electric Company	ES	NA	NA	NA	NA	46.71%	51.10%	51.88%	51.46%	50.29%
Hawai Electric Light Company, Inc	HE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hawaiian Electric Company, Inc	HE	57.55%	54.69%	54.28%	55.34%	57.33%	58.00%	56.96%	57.68%	56.48%
Maui Electric Company, Limited	HE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Florida Power & Light Company	NEE	61.98%	64.37%	58.97%	58.20%	56.11%	60.10%	60.04%	58.82%	59.82%
NorthWestern Corporation	NWE	47.88%	48.36%	48.41%	47.48%	45.83%	45.40%	44.74%	45.64%	46.72%
Oklahoma Gas and Electric Company	OGE	53.20%	53.05%	54.25%	53.59%	53.36%	53.05%	52.74%	53.46%	53.34%
Otter Tail Power Company	OTTR	53.13%	53.49%	52.39%	51.52%	51.37%	51.75%	52.26%	52.85%	52.35%
Arizona Public Service Company	PNW	54.36%	53.68%	51.11%	51.84%	53.14%	52.88%	51.19%	52.54%	52.59%
Public Service Company of New Mexico	PNM	44.72%	48.01%	46.11%	45.40%	45.48%	47.58%	46.32%	46.13%	46.22%
Portland General Electric Company	POR	50.19%	50.51%	50.29%	50.14%	49.80%	50.17%	50.32%	50.28%	50.21%
Alabama Power Company	SO	47.77%	48.12%	47.50%	48.06%	47.06%	47.93%	47.25%	47.00%	47.59%
Georgia Power Company	SO	58.31%	57.02%	53.85%	53.81%	49.75%	49.52%	48.90%	50.36%	52.69%
Gulf Power Company	SO	59.73%	54.40%	53.23%	53.13%	53.34%	54.97%	52.97%	56.65%	54.80%
Mississippi Power Company	SO	50.34%	45.28%	42.53%	39.25%	39.29%	47.27%	46.57%	49.20%	44.96%
Upper Michigan Energy Resources Corporation	WEC	40.88%	47.87%	52.12%	64.23%	36.07%	NA	NA	NA	48.23%
Wisconsin Electric Power Company	WEC	54.83%	55.99%	55.86%	55.92%	54.05%	55.43%	55.07%	55.26%	55.30%
Wisconsin Public Service Corporation	WEC	52.52%	54.90%	53.67%	53.09%	52.56%	53.48%	52.81%	51.62%	53.08%
Northern States Power Company - MN	XEL	52.07%	52.51%	52.29%	52.58%	51.85%	51.96%	51.90%	52.42%	52.20%
Northern States Power Company - WI	XEL	52.09%	48.45%	52.90%	53.09%	53.01%	52.35%	53.56%	54.46%	52.49%
Public Service Company of Colorado	XEL	54.76%	56.04%	54.13%	55.85%	56.46%	55.60%	54.84%	56.78%	55.56%
Southwestern Public Service Company	XEL	53.68%	55.53%	50.93%	53.41%	53.55%	52.29%	52.21%	52.86%	53.06%
Mean		52.09%	51.99%	51.25%	51.75%	51.30%	51.97%	51.60%	51.91%	51.70%

Source S&P Global Market Intelligence

SNLTable

Company Name	SNL Institution Key	Ultimate Parent Company Name 201138
ALLETE (Minnesota Power)	4061513	ALLETE, Inc.
Superior Water, Light and Power Company	4063281	ALLETE, Inc.
Interstate Power and Light Company	4057087	Alliant Energy Corporation
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation
Ameren Illinois Company	4272394	Ameren Corporation
Union Electric Company	4057102	Ameren Corporation
AEP Texas Central Company	4056979	American Electric Power Company, Inc.
AEP Texas North Company	4057034	American Electric Power Company, Inc.
AEP Texas Inc	4056935	American Electric Power Company, Inc.
Appalachian Power Company	4056972	American Electric Power Company, Inc.
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc.
Kentucky Power Company	4057006	American Electric Power Company, Inc.
Kingsport Power Company	4060895	American Electric Power Company, Inc.
Ohio Power Company	4057015	American Electric Power Company, Inc.
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc.
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc.
Wheeling Power Company	4063994	American Electric Power Company, Inc.
Central Maine Power Company	4056978	Iberdrola, S A
New York State Electric & Gas Corporation	4004389	Iberdrola, S.A.
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A
United Illuminating Company	3004222	Iberdrola, S A
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation
Black Hills Power, Inc.	4065694	Black Hills Corporation
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation
Consumers Energy Company	4057081	CMS Energy Corporation
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc
Rockland Electric Company	4062660	Consolidated Edison, Inc
DTE Electric Company	4057083	DTE Energy Company
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation
Duke Energy Florida, LLC	4056998	Duke Energy Corporation
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation
Duke Energy Progress, LLC	4004192	Duke Energy Corporation
El Paso Electric Company	4056994	
Kansas City Power & Light Company	4072456	Eergy, Inc
Kansas Gas and Electric Company	4057089	Eergy, Inc
KCP&L Greater Missouri Operations Company	4000843	Eergy, Inc
Westar Energy (KPL)	4082573	Eergy, Inc.
Connecticut Light and Power Company	4056992	Eversource Energy
NSTAR Electric Company	4008369	Eversource Energy
Public Service Company of New Hampshire	4057022	Eversource Energy
Western Massachusetts Electric Company	4057035	Eversource Energy
Hawaii Electric Light Company, Inc.	4060446	Hawaiian Electric Industries, Inc
Hawaiian Electric Company, Inc.	4057001	Hawaiian Electric Industries, Inc
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc
Florida Power & Light Company	4056997	NextEra Energy, Inc
NorthWestern Corporation	4057053	
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp
Otter Tail Power Company	4147257	Otter Tail Corporation
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation
Public Service Company of New Mexico	4073320	PNM Resources, Inc.
Portland General Electric Company	4057019	
Alabama Power Company	4014956	Southern Company
Georgia Power Company	4004152	Southern Company
Gulf Power Company	4057000	Southern Company
Mississippi Power Company	4057010	Southern Company
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc
Northern States Power Company - MN	4057754	Xcel Energy Inc
Northern States Power Company - WI	4061925	Xcel Energy Inc
Public Service Company of Colorado	4057094	Xcel Energy Inc
Southwestern Public Service Company	4057027	Xcel Energy Inc

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Total Proprietary Capital (\$000) 201284 2018Q4
ALLETE (Minnesota Power)	4061513	ALLETE, Inc.	2,156,461
Superior Water, Light and Power Company	4063281	ALLETE, Inc.	52,061
Interstate Power and Light Company	4057087	Alliant Energy Corporation	3,234,635
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	2,175,425
Ameren Illinois Company	4272394	Ameren Corporation	3,773,346
Union Electric Company	4057102	Ameren Corporation	4,229,748
AEP Texas Central Company	4056979	American Electric Power Company, Inc	NA
AEP Texas North Company	4057034	American Electric Power Company, Inc.	NA
AEP Texas Inc	4056935	American Electric Power Company, Inc	2,580,521
Appalachian Power Company	4056972	American Electric Power Company, Inc	4,006,253
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc	2,352,848
Kentucky Power Company	4057006	American Electric Power Company, Inc.	732,879
Kingsport Power Company	4060895	American Electric Power Company, Inc	51,596
Ohio Power Company	4057015	American Electric Power Company, Inc.	2,297,416
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc	1,248,093
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc	2,315,251
Wheeling Power Company	4063994	American Electric Power Company, Inc	421,269
Central Maine Power Company	4056978	Iberdrola, S.A	1,890,714
New York State Electric & Gas Corporation	4004389	Iberdrola, S.A	1,453,804
Rochester Gas and Electric Corporation	4057096	Iberdrola, S.A	1,006,097
United Illuminating Company	3004222	Iberdrola, S.A	1,099,422
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation	397,162
Black Hills Power, Inc	4065694	Black Hills Corporation	404,245
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	235,073
Consumers Energy Company	4057081	CMS Energy Corporation	6,921,432
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc.	12,909,970
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc.	712,478
Rockland Electric Company	4062660	Consolidated Edison, Inc	287,482
DTE Electric Company	4057083	DTE Energy Company	6,797,686
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	11,687,177
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	6,098,449
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	4,320,251
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation	596,224
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation	3,455,424
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	8,440,734
El Paso Electric Company	4056994		1,183,128
Kansas City Power & Light Company	4072456	Eversource Energy, Inc.	2,493,301
Kansas Gas and Electric Company	4057089	Eversource Energy, Inc	2,907,333
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy, Inc.	1,178,137
Westar Energy (KPL)	4082573	Eversource Energy, Inc.	3,964,902
Connecticut Light and Power Company	4056992	Eversource Energy	4,315,518
NSTAR Electric Company	4008369	Eversource Energy	3,773,155
Public Service Company of New Hampshire	4057022	Eversource Energy	1,302,541
Western Massachusetts Electric Company	4057035	Eversource Energy	NA
Hawaii Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc	NA
Hawaiian Electric Company, Inc.	4057001	Hawaiian Electric Industries, Inc	NA
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	NA
Florida Power & Light Company	4056997	NextEra Energy, Inc	21,021,283
NorthWestern Corporation	4057053		1,942,381
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	3,603,266
Otter Tail Power Company	4147257	Otter Tail Corporation	591,073
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	5,661,007
Public Service Company of New Mexico	4073320	PNM Resources, Inc.	1,408,888
Portland General Electric Company	4057019		2,506,442
Alabama Power Company	4014956	Southern Company	7,768,130
Georgia Power Company	4004152	Southern Company	14,323,174
Gulf Power Company	4057000	Southern Company	1,920,031
Mississippi Power Company	4057010	Southern Company	1,609,100
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	133,088
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc	3,491,297
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	1,779,477
Northern States Power Company - MN	4057754	Xcel Energy Inc	5,573,159
Northern States Power Company - WI	4061925	Xcel Energy Inc	942,375
Public Service Company of Colorado	4057094	Xcel Energy Inc	6,298,264
Southwestern Public Service Company	4057027	Xcel Energy Inc	2,536,626

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Total Proprietary Capital (\$000) 201284 2018Q3
ALLETE (Minnesota Power)	4061513	ALLETE, Inc	2,117,338
Superior Water, Light and Power Company	4063281	ALLETE, Inc.	51,465
Interstate Power and Light Company	4057087	Alliant Energy Corporation	3,042,707
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	2,170,585
Ameren Illinois Company	4272394	Ameren Corporation	3,609,398
Union Electric Company	4057102	Ameren Corporation	4,355,829
AEP Texas Central Company	4056979	American Electric Power Company, Inc.	NA
AEP Texas North Company	4057034	American Electric Power Company, Inc.	NA
AEP Texas Inc	4056935	American Electric Power Company, Inc.	2,421,039
Appalachian Power Company	4056972	American Electric Power Company, Inc.	3,971,961
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc.	2,342,507
Kentucky Power Company	4057006	American Electric Power Company, Inc.	719,769
Kingsport Power Company	4060895	American Electric Power Company, Inc.	51,443
Ohio Power Company	4057015	American Electric Power Company, Inc.	2,209,318
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc.	1,267,426
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc.	2,313,693
Wheeling Power Company	4063994	American Electric Power Company, Inc.	422,586
Central Maine Power Company	4056978	Iberdrola, S A	1,863,185
New York State Electric & Gas Corporation	4004389	Iberdrola, S.A.	1,433,399
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A	977,231
United Illuminating Company	3004222	Iberdrola, S A	1,022,400
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation	395,272
Black Hills Power, Inc	4065694	Black Hills Corporation	394,518
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	228,165
Consumers Energy Company	4057081	CMS Energy Corporation	6,923,349
Consolidated Edison Company of New York, Inc.	4057080	Consolidated Edison, Inc	12,869,012
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc	689,802
Rockland Electric Company	4062660	Consolidated Edison, Inc	285,366
DTE Electric Company	4057083	DTE Energy Company	6,532,137
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	11,544,512
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	6,054,203
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	4,242,432
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation	588,296
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation	3,397,125
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	8,306,831
El Paso Electric Company	4056994		1,216,430
Kansas City Power & Light Company	4072456	Eergy, Inc	2,494,577
Kansas Gas and Electric Company	4057089	Eergy, Inc	2,898,040
KCP&L Greater Missouri Operations Company	4000843	Eergy, Inc	1,225,822
Westar Energy (KPL)	4082573	Eergy, Inc.	4,007,623
Connecticut Light and Power Company	4056992	Eversource Energy	4,037,804
NSTAR Electric Company	4008369	Eversource Energy	3,738,100
Public Service Company of New Hampshire	4057022	Eversource Energy	1,147,930
Western Massachusetts Electric Company	4057035	Eversource Energy	NA
Hawaii Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc	NA
Hawaiian Electric Company, Inc	4057001	Hawaiian Electric Industries, Inc	NA
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	NA
Florida Power & Light Company	4056997	NextEra Energy, Inc	21,115,342
NorthWestern Corporation	4057053		1,899,900
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	3,581,331
Otter Tail Power Company	4147257	Otter Tail Corporation	588,830
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	5,625,283
Public Service Company of New Mexico	4073320	PNM Resources, Inc	1,549,103
Portland General Electric Company	4057019		2,486,240
Alabama Power Company	4014956	Southern Company	7,876,543
Georgia Power Company	4004152	Southern Company	13,850,732
Gulf Power Company	4057000	Southern Company	1,604,255
Mississippi Power Company	4057010	Southern Company	1,476,172
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	122,594
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc.	3,544,711
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	1,805,634
Northern States Power Company - MN	4057754	Xcel Energy Inc	5,533,123
Northern States Power Company - WI	4061925	Xcel Energy Inc.	907,506
Public Service Company of Colorado	4057094	Xcel Energy Inc	6,238,765
Southwestern Public Service Company	4057027	Xcel Energy Inc	2,380,749

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Total Proprietary Capital (\$000) 201284 2018Q2
ALLETE (Minnesota Power)	4061513	ALLETE, Inc	2,109,457
Superior Water, Light and Power Company	4063281	ALLETE, Inc.	53,091
Interstate Power and Light Company	4057087	Alliant Energy Corporation	2,858,272
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	2,077,475
Ameren Illinois Company	4272394	Ameren Corporation	3,546,209
Union Electric Company	4057102	Ameren Corporation	4,237,438
AEP Texas Central Company	4056979	American Electric Power Company, Inc.	NA
AEP Texas North Company	4057034	American Electric Power Company, Inc.	NA
AEP Texas Inc	4056935	American Electric Power Company, Inc.	2,362,916
Appalachian Power Company	4056972	American Electric Power Company, Inc.	3,925,919
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc.	2,307,947
Kentucky Power Company	4057006	American Electric Power Company, Inc.	708,741
Kingsport Power Company	4060895	American Electric Power Company, Inc.	45,591
Ohio Power Company	4057015	American Electric Power Company, Inc.	2,233,461
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc.	1,219,787
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc.	2,243,132
Wheeling Power Company	4063994	American Electric Power Company, Inc.	414,045
Central Maine Power Company	4056978	Iberdrola, S A	1,811,995
New York State Electric & Gas Corporation	4004389	Iberdrola, S A	1,272,686
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A	962,185
United Illuminating Company	3004222	Iberdrola, S A	989,652
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation	425,268
Black Hills Power, Inc	4065694	Black Hills Corporation	391,173
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	230,752
Consumers Energy Company	4057081	CMS Energy Corporation	6,888,202
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc	12,624,564
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc	678,956
Rockland Electric Company	4062660	Consolidated Edison, Inc	276,694
DTE Electric Company	4057083	DTE Energy Company	6,341,989
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	11,297,503
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	5,895,296
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	4,217,053
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation	569,694
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation	3,300,545
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	8,258,009
El Paso Electric Company	4056994		1,157,139
Kansas City Power & Light Company	4072456	Eversource Energy, Inc.	2,433,386
Kansas Gas and Electric Company	4057089	Eversource Energy, Inc	2,828,756
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy, Inc	1,170,437
Westar Energy (KPL)	4082573	Eversource Energy, Inc	3,898,596
Connecticut Light and Power Company	4056992	Eversource Energy	3,938,875
NSTAR Electric Company	4008369	Eversource Energy	3,592,886
Public Service Company of New Hampshire	4057022	Eversource Energy	1,107,003
Western Massachusetts Electric Company	4057035	Eversource Energy	NA
Hawaiian Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc.	NA
Hawaiian Electric Company, Inc.	4057001	Hawaiian Electric Industries, Inc	NA
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	NA
Florida Power & Light Company	4056997	NextEra Energy, Inc	19,000,176
NorthWestern Corporation	4057053		1,897,731
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	3,581,106
Otter Tail Power Company	4147257	Otter Tail Corporation	579,841
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	5,285,516
Public Service Company of New Mexico	4073320	PNM Resources, Inc	1,469,538
Portland General Electric Company	4057019		2,464,719
Alabama Power Company	4014956	Southern Company	7,691,954
Georgia Power Company	4004152	Southern Company	12,702,382
Gulf Power Company	4057000	Southern Company	1,575,428
Mississippi Power Company	4057010	Southern Company	1,430,980
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	119,937
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc	3,521,444
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	1,727,946
Northern States Power Company - MN	4057754	Xcel Energy Inc	5,526,761
Northern States Power Company - WI	4061925	Xcel Energy Inc	894,313
Public Service Company of Colorado	4057094	Xcel Energy Inc	6,129,578
Southwestern Public Service Company	4057027	Xcel Energy Inc	2,159,146

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Total Proprietary Capital (\$000) 201284 2018Q1
ALLETE (Minnesota Power)	4061513	ALLETE, Inc	2,098,543
Superior Water, Light and Power Company	4063281	ALLETE, Inc.	52,898
Interstate Power and Light Company	4057087	Alliant Energy Corporation	2,718,621
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	1,921,455
Ameren Illinois Company	4272394	Ameren Corporation	3,424,329
Union Electric Company	4057102	Ameren Corporation	4,069,343
AEP Texas Central Company	4056979	American Electric Power Company, Inc	NA
AEP Texas North Company	4057034	American Electric Power Company, Inc.	NA
AEP Texas Inc	4056935	American Electric Power Company, Inc.	2,316,060
Appalachian Power Company	4056972	American Electric Power Company, Inc.	3,889,499
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc.	2,246,372
Kentucky Power Company	4057006	American Electric Power Company, Inc.	694,739
Kingsport Power Company	4060895	American Electric Power Company, Inc.	44,834
Ohio Power Company	4057015	American Electric Power Company, Inc	2,277,504
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc.	1,195,941
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc	2,225,376
Wheeling Power Company	4063994	American Electric Power Company, Inc	415,329
Central Maine Power Company	4056978	Iberdrola, S A	1,863,798
New York State Electric & Gas Corporation	4004389	Iberdrola, S.A.	1,257,244
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A	992,923
United Illuminating Company	3004222	Iberdrola, S A	960,454
Black Hills Colorado Electric, Inc.	4215172	Black Hills Corporation	422,339
Black Hills Power, Inc	4065694	Black Hills Corporation	390,021
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	232,069
Consumers Energy Company	4057081	CMS Energy Corporation	6,713,203
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc	12,662,198
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc.	681,470
Rockland Electric Company	4062660	Consolidated Edison, Inc.	273,136
DTE Electric Company	4057083	DTE Energy Company	6,293,342
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	11,438,785
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	5,722,954
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	4,199,216
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation	524,077
Duke Energy Ohio, Inc.	4057079	Duke Energy Corporation	3,149,222
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	8,126,159
El Paso Electric Company	4056994		1,138,269
Kansas City Power & Light Company	4072456	Eergy, Inc.	2,468,844
Kansas Gas and Electric Company	4057089	Eergy, Inc	2,805,834
KCP&L Greater Missouri Operations Company	4000843	Eergy, Inc	1,199,076
Westar Energy (KPL)	4082573	Eergy, Inc	3,909,712
Connecticut Light and Power Company	4056992	Eversource Energy	3,749,545
NSTAR Electric Company	4008369	Eversource Energy	3,497,346
Public Service Company of New Hampshire	4057022	Eversource Energy	1,385,957
Western Massachusetts Electric Company	4057035	Eversource Energy	NA
Hawaii Electric Light Company, Inc.	4060446	Hawaiian Electric Industries, Inc	NA
Hawaiian Electric Company, Inc	4057001	Hawaiian Electric Industries, Inc.	NA
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	NA
Florida Power & Light Company	4056997	NextEra Energy, Inc	18,374,364
NorthWestern Corporation	4057053		1,834,622
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	3,487,998
Otter Tail Power Company	4147257	Otter Tail Corporation	569,815
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	5,267,599
Public Service Company of New Mexico	4073320	PNM Resources, Inc.	1,441,688
Portland General Electric Company	4057019		2,449,142
Alabama Power Company	4014956	Southern Company	7,626,446
Georgia Power Company	4004152	Southern Company	13,419,690
Gulf Power Company	4057000	Southern Company	1,536,024
Mississippi Power Company	4057010	Southern Company	1,383,784
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	116,904
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc	3,488,333
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	1,645,450
Northern States Power Company - MN	4057754	Xcel Energy Inc.	5,522,848
Northern States Power Company - WI	4061925	Xcel Energy Inc	891,987
Public Service Company of Colorado	4057094	Xcel Energy Inc.	5,866,996
Southwestern Public Service Company	4057027	Xcel Energy Inc	2,130,239

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Total Proprietary Capital (\$000) 201284 2017Q4
ALLETE (Minnesota Power)	4061513	ALLETE, Inc	2,069,267
Superior Water, Light and Power Company	4063281	ALLETE, Inc	51,047
Interstate Power and Light Company	4057087	Alliant Energy Corporation	2,715,633
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	1,901,831
Ameren Illinois Company	4272394	Ameren Corporation	3,309,480
Union Electric Company	4057102	Ameren Corporation	4,080,977
AEP Texas Central Company	4056979	American Electric Power Company, Inc	NA
AEP Texas North Company	4057034	American Electric Power Company, Inc	NA
AEP Texas Inc.	4056935	American Electric Power Company, Inc	2,169,916
Appalachian Power Company	4056972	American Electric Power Company, Inc	3,804,481
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc	2,217,623
Kentucky Power Company	4057006	American Electric Power Company, Inc	670,263
Kingsport Power Company	4060895	American Electric Power Company, Inc	43,517
Ohio Power Company	4057015	American Electric Power Company, Inc	2,310,331
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc	1,215,336
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc	2,234,770
Wheeling Power Company	4063994	American Electric Power Company, Inc	415,197
Central Maine Power Company	4056978	Iberdrola, S.A	1,834,658
New York State Electric & Gas Corporation	4004389	Iberdrola, S.A.	1,197,260
Rochester Gas and Electric Corporation	4057096	Iberdrola, S.A	947,595
United Illuminating Company	3004222	Iberdrola, S.A	933,483
Black Hills Colorado Electric, Inc.	4215172	Black Hills Corporation	439,923
Black Hills Power, Inc	4065694	Black Hills Corporation	394,232
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	237,200
Consumers Energy Company	4057081	CMS Energy Corporation	6,489,226
Consolidated Edison Company of New York, Inc.	4057080	Consolidated Edison, Inc	12,438,861
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc	665,815
Rockland Electric Company	4062660	Consolidated Edison, Inc	272,915
DTE Electric Company	4057083	DTE Energy Company	6,268,943
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	11,365,886
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	5,617,925
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	4,099,984
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation	511,414
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation	3,174,239
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	7,948,667
El Paso Electric Company	4056994		1,160,566
Kansas City Power & Light Company	4072456	Eversource Energy, Inc	2,507,748
Kansas Gas and Electric Company	4057089	Eversource Energy, Inc	2,789,009
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy, Inc	1,189,160
Westar Energy (KPL)	4082573	Eversource Energy, Inc	3,908,122
Connecticut Light and Power Company	4056992	Eversource Energy	3,701,779
NSTAR Electric Company	4008369	Eversource Energy	2,837,008
Public Service Company of New Hampshire	4057022	Eversource Energy	1,350,594
Western Massachusetts Electric Company	4057035	Eversource Energy	652,071
Hawaii Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc	NA
Hawaiian Electric Company, Inc.	4057001	Hawaiian Electric Industries, Inc.	NA
Mau Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	NA
Florida Power & Light Company	4056997	NextEra Energy, Inc	17,039,981
NorthWestern Corporation	4057053		1,798,915
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	3,455,703
Otter Tail Power Company	4147257	Otter Tail Corporation	553,828
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	5,256,829
Public Service Company of New Mexico	4073320	PNM Resources, Inc.	1,433,702
Portland General Electric Company	4057019		2,416,205
Alabama Power Company	4014956	Southern Company	7,120,058
Georgia Power Company	4004152	Southern Company	11,931,474
Gulf Power Company	4057000	Southern Company	1,530,833
Mississippi Power Company	4057010	Southern Company	1,390,745
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	49,699
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc	3,414,373
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	1,625,930
Northern States Power Company - MN	4057754	Xcel Energy Inc.	5,475,570
Northern States Power Company - WI	4061925	Xcel Energy Inc.	876,589
Public Service Company of Colorado	4057094	Xcel Energy Inc.	5,828,323
Southwestern Public Service Company	4057027	Xcel Energy Inc	2,130,364

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Total Proprietary Capital (\$000) 201284 2017Q3
ALLETE (Minnesota Power)	4061513	ALLETE, Inc	2,043,517
Superior Water, Light and Power Company	4063281	ALLETE, Inc.	45,497
Interstate Power and Light Company	4057087	Alliant Energy Corporation	2,638,289
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	1,828,625
Ameren Illinois Company	4272394	Ameren Corporation	3,224,771
Union Electric Company	4057102	Ameren Corporation	4,117,608
AEP Texas Central Company	4056979	American Electric Power Company, Inc	NA
AEP Texas North Company	4057034	American Electric Power Company, Inc	NA
AEP Texas Inc	4056935	American Electric Power Company, Inc.	2,004,586
Appalachian Power Company	4056972	American Electric Power Company, Inc	3,740,810
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc	2,202,878
Kentucky Power Company	4057006	American Electric Power Company, Inc	662,164
Kingsport Power Company	4060895	American Electric Power Company, Inc	42,381
Ohio Power Company	4057015	American Electric Power Company, Inc	2,217,840
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc	1,232,465
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc	2,246,702
Wheeling Power Company	4063994	American Electric Power Company, Inc	412,952
Central Maine Power Company	4056978	Iberdrola, S A	1,847,116
New York State Electric & Gas Corporation	4004389	Iberdrola, S A	1,165,472
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A	921,620
United Illuminating Company	3004222	Iberdrola, S A	908,900
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation	427,149
Black Hills Power, Inc	4065694	Black Hills Corporation	877,373
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	229,257
Consumers Energy Company	4057081	CMS Energy Corporation	6,532,841
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc.	12,394,984
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc	666,402
Rockland Electric Company	4062660	Consolidated Edison, Inc	268,701
DTE Electric Company	4057083	DTE Energy Company	6,138,527
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	11,159,413
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	5,273,638
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	4,063,369
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation	464,112
Duke Energy Ohio, Inc.	4057079	Duke Energy Corporation	3,109,552
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	7,780,061
El Paso Electric Company	4056994		1,154,057
Kansas City Power & Light Company	4072456	Eergy, Inc.	2,535,026
Kansas Gas and Electric Company	4057089	Eergy, Inc	2,793,644
KCP&L Greater Missouri Operations Company	4000843	Eergy, Inc	1,327,711
Westar Energy (KPL)	4082573	Eergy, Inc.	3,929,004
Connecticut Light and Power Company	4056992	Eversource Energy	3,655,224
NSTAR Electric Company	4008369	Eversource Energy	2,781,232
Public Service Company of New Hampshire	4057022	Eversource Energy	1,463,998
Western Massachusetts Electric Company	4057035	Eversource Energy	695,394
Hawaii Electric Light Company, Inc.	4060446	Hawaiian Electric Industries, Inc	NA
Hawaiian Electric Company, Inc	4057001	Hawaiian Electric Industries, Inc	NA
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	NA
Florida Power & Light Company	4056997	NextEra Energy, Inc	17,346,278
NorthWestern Corporation	4057053		1,726,190
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	3,412,887
Otter Tail Power Company	4147257	Otter Tail Corporation	551,518
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	5,237,812
Public Service Company of New Mexico	4073320	PNM Resources, Inc.	1,523,246
Portland General Electric Company	4057019		2,402,289
Alabama Power Company	4014956	Southern Company	7,390,843
Georgia Power Company	4004152	Southern Company	12,272,685
Gulf Power Company	4057000	Southern Company	1,588,782
Mississippi Power Company	4057010	Southern Company	1,946,464
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	NA
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc	3,417,911
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	1,632,622
Northern States Power Company - MN	4057754	Xcel Energy Inc	5,440,694
Northern States Power Company - WI	4061925	Xcel Energy Inc	833,293
Public Service Company of Colorado	4057094	Xcel Energy Inc	5,626,852
Southwestern Public Service Company	4057027	Xcel Energy Inc	2,025,733

SNLTable	SNL Institution Key	Ultimate Parent Company Name	Total Proprietary Capital (\$000)
Company Name		201138	201284
			2017Q2
ALLETE (Minnesota Power)	4061513	ALLETE, Inc	2,017,816
Superior Water, Light and Power Company	4063281	ALLETE, Inc	45,021
Interstate Power and Light Company	4057087	Alliant Energy Corporation	2,550,970
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	1,770,143
Ameren Illinois Company	4272394	Ameren Corporation	3,169,787
Union Electric Company	4057102	Ameren Corporation	4,043,383
AEP Texas Central Company	4056979	American Electric Power Company, Inc	NA
AEP Texas North Company	4057034	American Electric Power Company, Inc	NA
AEP Texas Inc	4056935	American Electric Power Company, Inc	1,940,007
Appalachian Power Company	4056972	American Electric Power Company, Inc	3,685,236
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc	2,168,869
Kentucky Power Company	4057006	American Electric Power Company, Inc	664,436
Kingsport Power Company	4060895	American Electric Power Company, Inc	40,942
Ohio Power Company	4057015	American Electric Power Company, Inc	2,135,463
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc	1,203,952
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc.	2,200,892
Wheeling Power Company	4063994	American Electric Power Company, Inc	412,605
Central Maine Power Company	4056978	Iberdrola, S A	1,792,041
New York State Electric & Gas Corporation	4004389	Iberdrola, S A	1,261,179
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A	904,271
United Illuminating Company	3004222	Iberdrola, S A	876,428
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation	427,867
Black Hills Power, Inc.	4065694	Black Hills Corporation	390,568
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	230,243
Consumers Energy Company	4057081	CMS Energy Corporation	6,462,212
Consolidated Edison Company of New York, Inc.	4057080	Consolidated Edison, Inc	11,958,312
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc.	654,084
Rockland Electric Company	4062660	Consolidated Edison, Inc.	263,189
DTE Electric Company	4057083	DTE Energy Company	6,026,643
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	10,942,809
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	5,151,971
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	4,092,810
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation	455,162
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation	3,053,742
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	7,659,343
El Paso Electric Company	4056994		1,104,543
Kansas City Power & Light Company	4072456	Eergy, Inc	2,469,813
Kansas Gas and Electric Company	4057089	Eergy, Inc	2,719,324
KCP&L Greater Missouri Operations Company	4000843	Eergy, Inc	1,297,777
Westar Energy (KPL)	4082573	Eergy, Inc.	3,825,529
Connecticut Light and Power Company	4056992	Eversource Energy	3,666,425
NSTAR Electric Company	4008369	Eversource Energy	2,766,067
Public Service Company of New Hampshire	4057022	Eversource Energy	1,430,095
Western Massachusetts Electric Company	4057035	Eversource Energy	687,196
Hawaii Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc.	NA
Hawaiian Electric Company, Inc	4057001	Hawaiian Electric Industries, Inc.	NA
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	NA
Florida Power & Light Company	4056997	NextEra Energy, Inc	17,180,445
NorthWestern Corporation	4057053		1,708,597
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	3,356,261
Otter Tail Power Company	4147257	Otter Tail Corporation	550,733
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	4,952,062
Public Service Company of New Mexico	4073320	PNM Resources, Inc	1,459,562
Portland General Electric Company	4057019		2,391,580
Alabama Power Company	4014956	Southern Company	6,987,815
Georgia Power Company	4004152	Southern Company	11,978,919
Gulf Power Company	4057000	Southern Company	1,553,384
Mississippi Power Company	4057010	Southern Company	1,905,885
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	NA
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc.	3,388,325
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	1,601,829
Northern States Power Company - MN	4057754	Xcel Energy Inc	5,457,955
Northern States Power Company - WI	4061925	Xcel Energy Inc.	821,651
Public Service Company of Colorado	4057094	Xcel Energy Inc.	5,456,609
Southwestern Public Service Company	4057027	Xcel Energy Inc	1,985,434

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Total Proprietary Capital (\$000) 201284 2017Q1
ALLETE (Minnesota Power)	4061513	ALLETE, Inc	2,002,273
Superior Water, Light and Power Company	4063281	ALLETE, Inc	44,581
Interstate Power and Light Company	4057087	Alliant Energy Corporation	2,447,128
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	1,763,399
Ameren Illinois Company	4272394	Ameren Corporation	3,112,779
Union Electric Company	4057102	Ameren Corporation	4,035,093
AEP Texas Central Company	4056979	American Electric Power Company, Inc	NA
AEP Texas North Company	4057034	American Electric Power Company, Inc	NA
AEP Texas Inc	4056935	American Electric Power Company, Inc.	1,890,691
Appalachian Power Company	4056972	American Electric Power Company, Inc	3,663,673
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc	2,189,231
Kentucky Power Company	4057006	American Electric Power Company, Inc	671,788
Kingsport Power Company	4060895	American Electric Power Company, Inc	38,400
Ohio Power Company	4057015	American Electric Power Company, Inc	2,138,473
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc.	1,201,210
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc	2,203,706
Wheeling Power Company	4063994	American Electric Power Company, Inc	412,518
Central Maine Power Company	4056978	Iberdrola, S A	1,758,886
New York State Electric & Gas Corporation	4004389	Iberdrola, S A	1,233,241
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A	816,847
United Illuminating Company	3004222	Iberdrola, S A	977,406
Black Hills Colorado Electric, Inc.	4215172	Black Hills Corporation	395,916
Black Hills Power, Inc.	4065694	Black Hills Corporation	390,257
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	230,463
Consumers Energy Company	4057081	CMS Energy Corporation	6,246,070
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc	11,991,412
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc	659,235
Rockland Electric Company	4062660	Consolidated Edison, Inc	260,710
DTE Electric Company	4057083	DTE Energy Company	5,995,901
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	10,869,219
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	4,991,028
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	4,136,571
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation	449,429
Duke Energy Ohio, Inc.	4057079	Duke Energy Corporation	3,049,261
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	7,505,577
El Paso Electric Company	4056994		1,081,492
Kansas City Power & Light Company	4072456	Eversource Energy, Inc.	2,493,874
Kansas Gas and Electric Company	4057089	Eversource Energy, Inc.	2,690,839
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy, Inc.	1,279,187
Westar Energy (KPL)	4082573	Eversource Energy, Inc.	3,805,793
Connecticut Light and Power Company	4056992	Eversource Energy	3,625,985
NSTAR Electric Company	4008369	Eversource Energy	2,733,898
Public Service Company of New Hampshire	4057022	Eversource Energy	1,403,557
Western Massachusetts Electric Company	4057035	Eversource Energy	678,957
Hawaii Electric Light Company, Inc.	4060446	Hawaiian Electric Industries, Inc.	NA
Hawaiian Electric Company, Inc.	4057001	Hawaiian Electric Industries, Inc	NA
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	NA
Florida Power & Light Company	4056997	NextEra Energy, Inc	16,654,384
NorthWestern Corporation	4057053		1,709,204
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	3,269,103
Otter Tail Power Company	4147257	Otter Tail Corporation	550,670
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	4,929,889
Public Service Company of New Mexico	4073320	PNM Resources, Inc	1,429,964
Portland General Electric Company	4057019		2,387,162
Alabama Power Company	4014956	Southern Company	6,922,133
Georgia Power Company	4004152	Southern Company	11,915,855
Gulf Power Company	4057000	Southern Company	1,700,869
Mississippi Power Company	4057010	Southern Company	2,959,056
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	NA
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc.	3,364,041
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	1,526,292
Northern States Power Company - MN	4057754	Xcel Energy Inc	5,424,286
Northern States Power Company - WI	4061925	Xcel Energy Inc	836,216
Public Service Company of Colorado	4057094	Xcel Energy Inc.	5,419,148
Southwestern Public Service Company	4057027	Xcel Energy Inc	1,975,060

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Preferred Stock Issued (\$000)	
			201247	2018Q4
ALLETE (Minnesota Power)	4061513	ALLETE, Inc		0
Superior Water, Light and Power Company	4063281	ALLETE, Inc		0
Interstate Power and Light Company	4057087	Alliant Energy Corporation	200,000	
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	0	
Ameren Illinois Company	4272394	Ameren Corporation	61,632	
Union Electric Company	4057102	Ameren Corporation	80,760	
AEP Texas Central Company	4056979	American Electric Power Company, Inc	NA	
AEP Texas North Company	4057034	American Electric Power Company, Inc	NA	
AEP Texas Inc	4056935	American Electric Power Company, Inc	0	
Appalachian Power Company	4056972	American Electric Power Company, Inc	0	
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc	0	
Kentucky Power Company	4057006	American Electric Power Company, Inc	0	
Kingsport Power Company	4060895	American Electric Power Company, Inc	0	
Ohio Power Company	4057015	American Electric Power Company, Inc.	0	
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc.	0	
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc.	0	
Wheeling Power Company	4063994	American Electric Power Company, Inc	0	
Central Maine Power Company	4056978	Iberdrola, S A	571	
New York State Electric & Gas Corporation	4004389	Iberdrola, S A	0	
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A	0	
United Illuminating Company	3004222	Iberdrola, S A	0	
Black Hills Colorado Electric, Inc.	4215172	Black Hills Corporation	0	
Black Hills Power, Inc.	4065694	Black Hills Corporation	0	
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	0	
Consumers Energy Company	4057081	CMS Energy Corporation	37,315	
Consolidated Edison Company of New York, Inc.	4057080	Consolidated Edison, Inc.	0	
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc.	0	
Rockland Electric Company	4062660	Consolidated Edison, Inc	0	
DTE Electric Company	4057083	DTE Energy Company	0	
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	0	
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	0	
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	0	
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation	0	
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation	0	
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	0	
El Paso Electric Company	4056994		0	
Kansas City Power & Light Company	4072456	Eversource Energy, Inc.	0	
Kansas Gas and Electric Company	4057089	Eversource Energy, Inc.	0	
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy, Inc	0	
Westar Energy (KPL)	4082573	Eversource Energy, Inc.	0	
Connecticut Light and Power Company	4056992	Eversource Energy	116,200	
NSTAR Electric Company	4008369	Eversource Energy	43,000	
Public Service Company of New Hampshire	4057022	Eversource Energy	0	
Western Massachusetts Electric Company	4057035	Eversource Energy	NA	
Hawaii Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc	NA	
Hawaiian Electric Company, Inc	4057001	Hawaiian Electric Industries, Inc	NA	
Mau Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	NA	
Florida Power & Light Company	4056997	NextEra Energy, Inc	0	
NorthWestern Corporation	4057053		0	
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	0	
Otter Tail Power Company	4147257	Otter Tail Corporation	0	
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	0	
Public Service Company of New Mexico	4073320	PNM Resources, Inc	11,529	
Portland General Electric Company	4057019		0	
Alabama Power Company	4014956	Southern Company	297,512	
Georgia Power Company	4004152	Southern Company	0	
Gulf Power Company	4057000	Southern Company	0	
Mississippi Power Company	4057010	Southern Company	0	
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	0	
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc	30,450	
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	0	
Northern States Power Company - MN	4057754	Xcel Energy Inc	0	
Northern States Power Company - WI	4061925	Xcel Energy Inc.	0	
Public Service Company of Colorado	4057094	Xcel Energy Inc	0	
Southwestern Public Service Company	4057027	Xcel Energy Inc	0	

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Preferred Stock Issued (\$000)	
			201247	2018Q3
ALLETE (Minnesota Power)	4061513	ALLETE, Inc		0
Superior Water, Light and Power Company	4063281	ALLETE, Inc.		0
Interstate Power and Light Company	4057087	Alliant Energy Corporation	200,000	
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	0	
Ameren Illinois Company	4272394	Ameren Corporation	61,632	
Union Electric Company	4057102	Ameren Corporation	80,760	
AEP Texas Central Company	4056979	American Electric Power Company, Inc	NA	
AEP Texas North Company	4057034	American Electric Power Company, Inc	NA	
AEP Texas Inc.	4056935	American Electric Power Company, Inc	0	
Appalachian Power Company	4056972	American Electric Power Company, Inc	0	
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc	0	
Kentucky Power Company	4057006	American Electric Power Company, Inc	0	
Kingsport Power Company	4060895	American Electric Power Company, Inc	0	
Ohio Power Company	4057015	American Electric Power Company, Inc	0	
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc	0	
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc	0	
Wheeling Power Company	4063994	American Electric Power Company, Inc	0	
Central Maine Power Company	4056978	Iberdrola, S A	571	
New York State Electric & Gas Corporation	4004389	Iberdrola, S A	0	
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A	0	
United Illuminating Company	3004222	Iberdrola, S A	0	
Black Hills Colorado Electric, Inc.	4215172	Black Hills Corporation	0	
Black Hills Power, Inc.	4065694	Black Hills Corporation	0	
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	0	
Consumers Energy Company	4057081	CMS Energy Corporation	37,315	
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc.	0	
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc.	0	
Rockland Electric Company	4062660	Consolidated Edison, Inc.	0	
DTE Electric Company	4057083	DTE Energy Company	0	
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	0	
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	0	
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	0	
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation	0	
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation	0	
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	0	
El Paso Electric Company	4056994		0	
Kansas City Power & Light Company	4072456	Eversource Energy, Inc.	0	
Kansas Gas and Electric Company	4057089	Eversource Energy, Inc	0	
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy, Inc	0	
Westar Energy (KPL)	4082573	Eversource Energy, Inc	0	
Connecticut Light and Power Company	4056992	Eversource Energy	116,200	
NSTAR Electric Company	4008369	Eversource Energy	43,000	
Public Service Company of New Hampshire	4057022	Eversource Energy	0	
Western Massachusetts Electric Company	4057035	Eversource Energy	NA	
Hawaii Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc.	NA	
Hawaiian Electric Company, Inc.	4057001	Hawaiian Electric Industries, Inc	NA	
Mau Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	NA	
Florida Power & Light Company	4056997	NextEra Energy, Inc.	0	
NorthWestern Corporation	4057053		0	
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	0	
Otter Tail Power Company	4147257	Otter Tail Corporation	0	
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	0	
Public Service Company of New Mexico	4073320	PNM Resources, Inc	11,529	
Portland General Electric Company	4057019		0	
Alabama Power Company	4014956	Southern Company	297,512	
Georgia Power Company	4004152	Southern Company	0	
Gulf Power Company	4057000	Southern Company	0	
Mississippi Power Company	4057010	Southern Company	33,421	
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	0	
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc	30,450	
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	0	
Northern States Power Company - MN	4057754	Xcel Energy Inc	0	
Northern States Power Company - WI	4061925	Xcel Energy Inc	0	
Public Service Company of Colorado	4057094	Xcel Energy Inc.	0	
Southwestern Public Service Company	4057027	Xcel Energy Inc	0	

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Preferred Stock Issued (\$000)	
			201247	2018Q2
ALLETE (Minnesota Power)	4061513	ALLETE, Inc		0
Superior Water, Light and Power Company	4063281	ALLETE, Inc.		0
Interstate Power and Light Company	4057087	Alliant Energy Corporation	200,000	
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	0	
Ameren Illinois Company	4272394	Ameren Corporation	61,632	
Union Electric Company	4057102	Ameren Corporation	80,760	
AEP Texas Central Company	4056979	American Electric Power Company, Inc	NA	
AEP Texas North Company	4057034	American Electric Power Company, Inc.	NA	
AEP Texas Inc.	4056935	American Electric Power Company, Inc	0	
Appalachian Power Company	4056972	American Electric Power Company, Inc	0	
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc	0	
Kentucky Power Company	4057006	American Electric Power Company, Inc	0	
Kingsport Power Company	4060895	American Electric Power Company, Inc	0	
Ohio Power Company	4057015	American Electric Power Company, Inc	0	
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc	0	
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc	0	
Wheeling Power Company	4063994	American Electric Power Company, Inc	0	
Central Maine Power Company	4056978	Iberdrola, S A	571	
New York State Electric & Gas Corporation	4004389	Iberdrola, S.A.	0	
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A	0	
United Illuminating Company	3004222	Iberdrola, S A	0	
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation	0	
Black Hills Power, Inc	4065694	Black Hills Corporation	0	
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	0	
Consumers Energy Company	4057081	CMS Energy Corporation	37,315	
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc.	0	
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc.	0	
Rockland Electric Company	4062660	Consolidated Edison, Inc	0	
DTE Electric Company	4057083	DTE Energy Company	0	
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	0	
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	0	
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	0	
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation	0	
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation	0	
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	0	
El Paso Electric Company	4056994		0	
Kansas City Power & Light Company	4072456	Eversource Energy, Inc.	0	
Kansas Gas and Electric Company	4057089	Eversource Energy, Inc	0	
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy, Inc	0	
Westar Energy (KPL)	4082573	Eversource Energy, Inc	0	
Connecticut Light and Power Company	4056992	Eversource Energy	116,200	
NSTAR Electric Company	4008369	Eversource Energy	43,000	
Public Service Company of New Hampshire	4057022	Eversource Energy	0	
Western Massachusetts Electric Company	4057035	Eversource Energy	NA	
Hawaiian Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc	NA	
Hawaiian Electric Company, Inc.	4057001	Hawaiian Electric Industries, Inc.	NA	
Mau Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	NA	
Florida Power & Light Company	4056997	NextEra Energy, Inc	0	
NorthWestern Corporation	4057053		0	
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	0	
Otter Tail Power Company	4147257	Otter Tail Corporation	0	
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	0	
Public Service Company of New Mexico	4073320	PNM Resources, Inc	11,529	
Portland General Electric Company	4057019		0	
Alabama Power Company	4014956	Southern Company	297,512	
Georgia Power Company	4004152	Southern Company	0	
Gulf Power Company	4057000	Southern Company	0	
Mississippi Power Company	4057010	Southern Company	33,421	
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	0	
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc	30,450	
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	0	
Northern States Power Company - MN	4057754	Xcel Energy Inc	0	
Northern States Power Company - WI	4061925	Xcel Energy Inc.	0	
Public Service Company of Colorado	4057094	Xcel Energy Inc.	0	
Southwestern Public Service Company	4057027	Xcel Energy Inc	0	

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Preferred Stock Issued (\$000) 201247	2018Q1
ALLETE (Minnesota Power)	4061513	ALLETE, Inc		0
Superior Water, Light and Power Company	4063281	ALLETE, Inc		0
Interstate Power and Light Company	4057087	Alliant Energy Corporation		200,000
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation		0
Ameren Illinois Company	4272394	Ameren Corporation		61,632
Union Electric Company	4057102	Ameren Corporation		80,760
AEP Texas Central Company	4056979	American Electric Power Company, Inc		NA
AEP Texas North Company	4057034	American Electric Power Company, Inc		NA
AEP Texas Inc	4056935	American Electric Power Company, Inc		0
Appalachian Power Company	4056972	American Electric Power Company, Inc		0
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc		0
Kentucky Power Company	4057006	American Electric Power Company, Inc		0
Kingsport Power Company	4060895	American Electric Power Company, Inc		0
Ohio Power Company	4057015	American Electric Power Company, Inc.		0
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc		0
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc.		0
Wheeling Power Company	4063994	American Electric Power Company, Inc.		0
Central Maine Power Company	4056978	Iberdrola, S A		571
New York State Electric & Gas Corporation	4004389	Iberdrola, S A		0
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A		0
United Illuminating Company	3004222	Iberdrola, S A		0
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation		0
Black Hills Power, Inc.	4065694	Black Hills Corporation		0
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation		0
Consumers Energy Company	4057081	CMS Energy Corporation		37,315
Consolidated Edison Company of New York, Inc.	4057080	Consolidated Edison, Inc.		0
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc		0
Rockland Electric Company	4062660	Consolidated Edison, Inc		0
DTE Electric Company	4057083	DTE Energy Company		0
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation		0
Duke Energy Florida, LLC	4056998	Duke Energy Corporation		0
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation		0
Duke Energy Kentucky, Inc.	4057103	Duke Energy Corporation		0
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation		0
Duke Energy Progress, LLC	4004192	Duke Energy Corporation		0
El Paso Electric Company	4056994			0
Kansas City Power & Light Company	4072456	Eversource Energy, Inc.		0
Kansas Gas and Electric Company	4057089	Eversource Energy, Inc		0
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy, Inc		0
Westar Energy (KPL)	4082573	Eversource Energy, Inc		0
Connecticut Light and Power Company	4056992	Eversource Energy		116,200
NSTAR Electric Company	4008369	Eversource Energy		43,000
Public Service Company of New Hampshire	4057022	Eversource Energy		0
Western Massachusetts Electric Company	4057035	Eversource Energy		NA
Hawaiian Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc		NA
Hawaiian Electric Company, Inc	4057001	Hawaiian Electric Industries, Inc		NA
Mau Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc		NA
Florida Power & Light Company	4056997	NextEra Energy, Inc		0
NorthWestern Corporation	4057053			0
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp		0
Otter Tail Power Company	4147257	Otter Tail Corporation		0
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation		0
Public Service Company of New Mexico	4073320	PNM Resources, Inc.		11,529
Portland General Electric Company	4057019			0
Alabama Power Company	4014956	Southern Company		297,512
Georgia Power Company	4004152	Southern Company		0
Gulf Power Company	4057000	Southern Company		0
Mississippi Power Company	4057010	Southern Company		33,421
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc		0
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc		30,450
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc		0
Northern States Power Company - MN	4057754	Xcel Energy Inc		0
Northern States Power Company - WI	4061925	Xcel Energy Inc		0
Public Service Company of Colorado	4057094	Xcel Energy Inc		0
Southwestern Public Service Company	4057027	Xcel Energy Inc		0

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Preferred Stock Issued (\$000) 201247 2017Q4
ALLETE (Minnesota Power)	4061513	ALLETE, Inc	0
Superior Water, Light and Power Company	4063281	ALLETE, Inc.	0
Interstate Power and Light Company	4057087	Alliant Energy Corporation	200,000
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	0
Ameren Illinois Company	4272394	Ameren Corporation	61,632
Union Electric Company	4057102	Ameren Corporation	80,760
AEP Texas Central Company	4056979	American Electric Power Company, Inc.	NA
AEP Texas North Company	4057034	American Electric Power Company, Inc	NA
AEP Texas Inc	4056935	American Electric Power Company, Inc.	0
Appalachian Power Company	4056972	American Electric Power Company, Inc	0
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc	0
Kentucky Power Company	4057006	American Electric Power Company, Inc.	0
Kingsport Power Company	4060895	American Electric Power Company, Inc.	0
Ohio Power Company	4057015	American Electric Power Company, Inc.	0
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc	0
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc	0
Wheeling Power Company	4063994	American Electric Power Company, Inc	0
Central Maine Power Company	4056978	Iberdrola, S A	571
New York State Electric & Gas Corporation	4004389	Iberdrola, S.A.	0
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A	0
United Illuminating Company	3004222	Iberdrola, S A	0
Black Hills Colorado Electric, Inc.	4215172	Black Hills Corporation	0
Black Hills Power, Inc	4065694	Black Hills Corporation	0
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	0
Consumers Energy Company	4057081	CMS Energy Corporation	37,315
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc.	0
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc	0
Rockland Electric Company	4062660	Consolidated Edison, Inc	0
DTE Electric Company	4057083	DTE Energy Company	0
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	0
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	0
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	0
Duke Energy Kentucky, Inc.	4057103	Duke Energy Corporation	0
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation	0
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	0
El Paso Electric Company	4056994		0
Kansas City Power & Light Company	4072456	Eversource Energy, Inc.	0
Kansas Gas and Electric Company	4057089	Eversource Energy, Inc	0
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy, Inc	0
Westar Energy (KPL)	4082573	Eversource Energy, Inc	0
Connecticut Light and Power Company	4056992	Eversource Energy	116,200
NSTAR Electric Company	4008369	Eversource Energy	43,000
Public Service Company of New Hampshire	4057022	Eversource Energy	0
Western Massachusetts Electric Company	4057035	Eversource Energy	0
Hawaiian Electric Light Company, Inc.	4060446	Hawaiian Electric Industries, Inc.	NA
Hawaiian Electric Company, Inc.	4057001	Hawaiian Electric Industries, Inc	NA
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	NA
Florida Power & Light Company	4056997	NextEra Energy, Inc.	0
NorthWestern Corporation	4057053		0
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	0
Otter Tail Power Company	4147257	Otter Tail Corporation	0
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	0
Public Service Company of New Mexico	4073320	PNM Resources, Inc	11,529
Portland General Electric Company	4057019		0
Alabama Power Company	4014956	Southern Company	297,512
Georgia Power Company	4004152	Southern Company	0
Gulf Power Company	4057000	Southern Company	0
Mississippi Power Company	4057010	Southern Company	33,421
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	0
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc.	30,450
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	0
Northern States Power Company - MN	4057754	Xcel Energy Inc	0
Northern States Power Company - WI	4061925	Xcel Energy Inc.	0
Public Service Company of Colorado	4057094	Xcel Energy Inc	0
Southwestern Public Service Company	4057027	Xcel Energy Inc	0

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Preferred Stock Issued (\$000) 201247	2017Q3
ALLETE (Minnesota Power)	4061513	ALLETE, Inc.		0
Superior Water, Light and Power Company	4063281	ALLETE, Inc		0
Interstate Power and Light Company	4057087	Alliant Energy Corporation		200,000
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation		0
Ameren Illinois Company	4272394	Ameren Corporation		61,632
Union Electric Company	4057102	Ameren Corporation		80,760
AEP Texas Central Company	4056979	American Electric Power Company, Inc		NA
AEP Texas North Company	4057034	American Electric Power Company, Inc		NA
AEP Texas Inc	4056935	American Electric Power Company, Inc		0
Appalachian Power Company	4056972	American Electric Power Company, Inc		0
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc		0
Kentucky Power Company	4057006	American Electric Power Company, Inc		0
Kingsport Power Company	4060895	American Electric Power Company, Inc		0
Ohio Power Company	4057015	American Electric Power Company, Inc		0
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc.		0
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc.		0
Wheeling Power Company	4063994	American Electric Power Company, Inc		0
Central Maine Power Company	4056978	Iberdrola, S A		571
New York State Electric & Gas Corporation	4004389	Iberdrola, S A		0
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A		0
United Illuminating Company	3004222	Iberdrola, S A		0
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation		0
Black Hills Power, Inc	4065694	Black Hills Corporation		0
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation		0
Consumers Energy Company	4057081	CMS Energy Corporation		37,315
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc.		0
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc		0
Rockland Electric Company	4062660	Consolidated Edison, Inc.		0
DTE Electric Company	4057083	DTE Energy Company		0
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation		0
Duke Energy Florida, LLC	4056998	Duke Energy Corporation		0
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation		0
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation		0
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation		0
Duke Energy Progress, LLC	4004192	Duke Energy Corporation		0
El Paso Electric Company	4056994			0
Kansas City Power & Light Company	4072456	Eversource Energy		0
Kansas Gas and Electric Company	4057089	Eversource Energy		0
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy		0
Westar Energy (KPL)	4082573	Eversource Energy		0
Connecticut Light and Power Company	4056992	Eversource Energy		116,200
NSTAR Electric Company	4008369	Eversource Energy		43,000
Public Service Company of New Hampshire	4057022	Eversource Energy		0
Western Massachusetts Electric Company	4057035	Eversource Energy		0
Hawaiian Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc		NA
Hawaiian Electric Company, Inc	4057001	Hawaiian Electric Industries, Inc		NA
Mau Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc		NA
Florida Power & Light Company	4056997	NextEra Energy, Inc		0
NorthWestern Corporation	4057053			0
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp		0
Otter Tail Power Company	4147257	Otter Tail Corporation		0
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation		0
Public Service Company of New Mexico	4073320	PNM Resources, Inc		11,529
Portland General Electric Company	4057019			0
Alabama Power Company	4014956	Southern Company		535,512
Georgia Power Company	4004152	Southern Company		270,000
Gulf Power Company	4057000	Southern Company		0
Mississippi Power Company	4057010	Southern Company		33,421
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc		NA
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc		30,450
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc		0
Northern States Power Company - MN	4057754	Xcel Energy Inc		0
Northern States Power Company - WI	4061925	Xcel Energy Inc		0
Public Service Company of Colorado	4057094	Xcel Energy Inc		0
Southwestern Public Service Company	4057027	Xcel Energy Inc		0

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Preferred Stock Issued (\$000) 201247	2017Q2
ALLETE (Minnesota Power)	4061513	ALLETE, Inc.		0
Superior Water, Light and Power Company	4063281	ALLETE, Inc.		0
Interstate Power and Light Company	4057087	Alliant Energy Corporation		200,000
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation		0
Ameren Illinois Company	4272394	Ameren Corporation		61,632
Union Electric Company	4057102	Ameren Corporation		80,760
AEP Texas Central Company	4056979	American Electric Power Company, Inc.		NA
AEP Texas North Company	4057034	American Electric Power Company, Inc.		NA
AEP Texas Inc	4056935	American Electric Power Company, Inc.		0
Appalachian Power Company	4056972	American Electric Power Company, Inc.		0
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc.		0
Kentucky Power Company	4057006	American Electric Power Company, Inc.		0
Kingsport Power Company	4060895	American Electric Power Company, Inc.		0
Ohio Power Company	4057015	American Electric Power Company, Inc.		0
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc.		0
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc.		0
Wheeling Power Company	4063994	American Electric Power Company, Inc.		0
Central Maine Power Company	4056978	Iberdrola, S A		571
New York State Electric & Gas Corporation	4004389	Iberdrola, S A		0
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A		0
United Illuminating Company	3004222	Iberdrola, S A		0
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation		0
Black Hills Power, Inc	4065694	Black Hills Corporation		0
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation		0
Consumers Energy Company	4057081	CMS Energy Corporation		37,315
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc		0
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc		0
Rockland Electric Company	4062660	Consolidated Edison, Inc		0
DTE Electric Company	4057083	DTE Energy Company		0
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation		0
Duke Energy Florida, LLC	4056998	Duke Energy Corporation		0
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation		0
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation		0
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation		0
Duke Energy Progress, LLC	4004192	Duke Energy Corporation		0
El Paso Electric Company	4056994			0
Kansas City Power & Light Company	4072456	Evergy, Inc		0
Kansas Gas and Electric Company	4057089	Evergy, Inc		0
KCP&L Greater Missouri Operations Company	4000843	Evergy, Inc		0
Westar Energy (KPL)	4082573	Evergy, Inc.		0
Connecticut Light and Power Company	4056992	Eversource Energy		116,200
NSTAR Electric Company	4008369	Eversource Energy		43,000
Public Service Company of New Hampshire	4057022	Eversource Energy		0
Western Massachusetts Electric Company	4057035	Eversource Energy		0
Hawaii Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc		NA
Hawaiian Electric Company, Inc.	4057001	Hawaiian Electric Industries, Inc.		NA
Mau Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc.		NA
Florida Power & Light Company	4056997	NextEra Energy, Inc		0
NorthWestern Corporation	4057053			0
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp		0
Otter Tail Power Company	4147257	Otter Tail Corporation		0
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation		0
Public Service Company of New Mexico	4073320	PNM Resources, Inc		11,529
Portland General Electric Company	4057019			0
Alabama Power Company	4014956	Southern Company		285,512
Georgia Power Company	4004152	Southern Company		270,000
Gulf Power Company	4057000	Southern Company		0
Mississippi Power Company	4057010	Southern Company		33,421
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc		NA
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc		30,450
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc		0
Northern States Power Company - MN	4057754	Xcel Energy Inc		0
Northern States Power Company - WI	4061925	Xcel Energy Inc.		0
Public Service Company of Colorado	4057094	Xcel Energy Inc		0
Southwestern Public Service Company	4057027	Xcel Energy Inc		0

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Preferred Stock Issued (\$000) 201247	2017Q1
ALLETE (Minnesota Power)	4061513	ALLETE, Inc		0
Superior Water, Light and Power Company	4063281	ALLETE, Inc.		0
Interstate Power and Light Company	4057087	Alliant Energy Corporation		200,000
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation		0
Ameren Illinois Company	4272394	Ameren Corporation		61,632
Union Electric Company	4057102	Ameren Corporation		80,760
AEP Texas Central Company	4056979	American Electric Power Company, Inc		NA
AEP Texas North Company	4057034	American Electric Power Company, Inc		NA
AEP Texas Inc.	4056935	American Electric Power Company, Inc.		0
Appalachian Power Company	4056972	American Electric Power Company, Inc		0
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc		0
Kentucky Power Company	4057006	American Electric Power Company, Inc		0
Kingsport Power Company	4060895	American Electric Power Company, Inc		0
Ohio Power Company	4057015	American Electric Power Company, Inc		0
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc.		0
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc		0
Wheeling Power Company	4063994	American Electric Power Company, Inc		0
Central Maine Power Company	4056978	Iberdrola, S A		571
New York State Electric & Gas Corporation	4004389	Iberdrola, S A		0
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A		0
United Illuminating Company	3004222	Iberdrola, S A		0
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation		0
Black Hills Power, Inc.	4065694	Black Hills Corporation		0
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation		0
Consumers Energy Company	4057081	CMS Energy Corporation		37,315
Consolidated Edison Company of New York, Inc.	4057080	Consolidated Edison, Inc		0
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc		0
Rockland Electric Company	4062660	Consolidated Edison, Inc		0
DTE Electric Company	4057083	DTE Energy Company		0
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation		0
Duke Energy Florida, LLC	4056998	Duke Energy Corporation		0
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation		0
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation		0
Duke Energy Ohio, Inc.	4057079	Duke Energy Corporation		0
Duke Energy Progress, LLC	4004192	Duke Energy Corporation		0
El Paso Electric Company	4056994			0
Kansas City Power & Light Company	4072456	Eversource Energy		0
Kansas Gas and Electric Company	4057089	Eversource Energy		0
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy		0
Westar Energy (KPL)	4082573	Eversource Energy		0
Connecticut Light and Power Company	4056992	Eversource Energy		116,200
NSTAR Electric Company	4008369	Eversource Energy		43,000
Public Service Company of New Hampshire	4057022	Eversource Energy		0
Western Massachusetts Electric Company	4057035	Eversource Energy		0
Hawaiian Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc		NA
Hawaiian Electric Company, Inc	4057001	Hawaiian Electric Industries, Inc		NA
Mau Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc		NA
Florida Power & Light Company	4056997	NextEra Energy, Inc		0
NorthWestern Corporation	4057053			0
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp		0
Otter Tail Power Company	4147257	Otter Tail Corporation		0
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation		0
Public Service Company of New Mexico	4073320	PNM Resources, Inc		11,529
Portland General Electric Company	4057019			0
Alabama Power Company	4014956	Southern Company		285,512
Georgia Power Company	4004152	Southern Company		270,000
Gulf Power Company	4057000	Southern Company		150,000
Mississippi Power Company	4057010	Southern Company		33,421
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc		NA
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc.		30,450
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc		0
Northern States Power Company - MN	4057754	Xcel Energy Inc		0
Northern States Power Company - WI	4061925	Xcel Energy Inc.		0
Public Service Company of Colorado	4057094	Xcel Energy Inc		0
Southwestern Public Service Company	4057027	Xcel Energy Inc		0

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Total Long-term Debt (\$000)	
			201292	2018Q4
ALLETE (Minnesota Power)	4061513	ALLETE, Inc.	1,356,389	
Superior Water, Light and Power Company	4063281	ALLETE, Inc.	39,500	
Interstate Power and Light Company	4057087	Alliant Energy Corporation	2,635,380	
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	1,953,011	
Ameren Illinois Company	4272394	Ameren Corporation	3,310,035	
Union Electric Company	4057102	Ameren Corporation	3,751,502	
AEP Texas Central Company	4056979	American Electric Power Company, Inc	NA	
AEP Texas North Company	4057034	American Electric Power Company, Inc	NA	
AEP Texas Inc	4056935	American Electric Power Company, Inc.	3,106,567	
Appalachian Power Company	4056972	American Electric Power Company, Inc	4,085,297	
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc	2,919,741	
Kentucky Power Company	4057006	American Electric Power Company, Inc	870,000	
Kingsport Power Company	4060895	American Electric Power Company, Inc	50,000	
Ohio Power Company	4057015	American Electric Power Company, Inc	1,677,282	
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc	1,290,562	
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc.	2,613,646	
Wheeling Power Company	4063994	American Electric Power Company, Inc	350,000	
Central Maine Power Company	4056978	Iberdrola, S A	1,099,994	
New York State Electric & Gas Corporation	4004389	Iberdrola, S A	1,223,334	
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A	1,051,862	
United Illuminating Company	3004222	Iberdrola, S A	847,960	
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation	350,000	
Black Hills Power, Inc.	4065694	Black Hills Corporation	342,769	
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	202,000	
Consumers Energy Company	4057081	CMS Energy Corporation	6,809,306	
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc	14,258,015	
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc	759,201	
Rockland Electric Company	4062660	Consolidated Edison, Inc	0	
DTE Electric Company	4057083	DTE Energy Company	6,541,391	
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	10,883,793	
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	6,089,107	
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	3,791,127	
Duke Energy Kentucky, Inc.	4057103	Duke Energy Corporation	551,481	
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation	1,619,348	
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	8,108,191	
El Paso Electric Company	4056994		1,288,021	
Kansas City Power & Light Company	4072456	Eversource Energy, Inc.	2,544,607	
Kansas Gas and Electric Company	4057089	Eversource Energy, Inc	970,877	
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy, Inc	975,114	
Westar Energy (KPL)	4082573	Eversource Energy, Inc	2,745,763	
Connecticut Light and Power Company	4056992	Eversource Energy	3,275,576	
NSTAR Electric Company	4008369	Eversource Energy	2,962,491	
Public Service Company of New Hampshire	4057022	Eversource Energy	1,415,349	
Western Massachusetts Electric Company	4057035	Eversource Energy	NA	
Hawaiian Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc	NA	
Hawaiian Electric Company, Inc.	4057001	Hawaiian Electric Industries, Inc	NA	
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	NA	
Florida Power & Light Company	4056997	NextEra Energy, Inc	11,636,301	
NorthWestern Corporation	4057053		2,114,637	
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	3,169,826	
Otter Tail Power Company	4147257	Otter Tail Corporation	512,000	
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	4,752,874	
Public Service Company of New Mexico	4073320	PNM Resources, Inc	1,665,324	
Portland General Electric Company	4057019		2,487,382	
Alabama Power Company	4014956	Southern Company	8,168,774	
Georgia Power Company	4004152	Southern Company	9,946,153	
Gulf Power Company	4057000	Southern Company	1,294,597	
Mississippi Power Company	4057010	Southern Company	1,587,028	
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	150,000	
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc.	2,715,643	
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	1,324,322	
Northern States Power Company - MN	4057754	Xcel Energy Inc	4,979,364	
Northern States Power Company - WI	4061925	Xcel Energy Inc.	815,642	
Public Service Company of Colorado	4057094	Xcel Energy Inc.	4,885,966	
Southwestern Public Service Company	4057027	Xcel Energy Inc.	2,146,459	

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Total Long-term Debt (\$000)	
			201292	2018Q3
ALLETE (Minnesota Power)	4061513	ALLETE, Inc	1,386,630	
Superior Water, Light and Power Company	4063281	ALLETE, Inc.	39,500	
Interstate Power and Light Company	4057087	Alliant Energy Corporation	2,884,220	
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	1,954,086	
Ameren Illinois Company	4272394	Ameren Corporation	3,123,272	
Union Electric Company	4057102	Ameren Corporation	3,751,350	
AEP Texas Central Company	4056979	American Electric Power Company, Inc	NA	
AEP Texas North Company	4057034	American Electric Power Company, Inc.	NA	
AEP Texas Inc.	4056935	American Electric Power Company, Inc	3,106,393	
Appalachian Power Company	4056972	American Electric Power Company, Inc	4,085,127	
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc	2,918,511	
Kentucky Power Company	4057006	American Electric Power Company, Inc.	870,000	
Kingsport Power Company	4060895	American Electric Power Company, Inc	50,000	
Ohio Power Company	4057015	American Electric Power Company, Inc	1,677,194	
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc	1,290,600	
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc.	3,013,565	
Wheeling Power Company	4063994	American Electric Power Company, Inc	350,000	
Central Maine Power Company	4056978	Iberdrola, S A	1,039,990	
New York State Electric & Gas Corporation	4004389	Iberdrola, S A	1,223,296	
Rochester Gas and Electric Corporation	4057096	Iberdrola, S.A	1,051,852	
United Illuminating Company	3004222	Iberdrola, S A	733,500	
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation	350,000	
Black Hills Power, Inc	4065694	Black Hills Corporation	342,768	
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	202,000	
Consumers Energy Company	4057081	CMS Energy Corporation	6,103,220	
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc	13,760,292	
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc	734,193	
Rockland Electric Company	4062660	Consolidated Edison, Inc	0	
DTE Electric Company	4057083	DTE Energy Company	6,541,179	
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	10,386,048	
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	6,138,923	
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	3,793,471	
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation	451,469	
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation	1,618,918	
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	8,057,937	
El Paso Electric Company	4056994		1,288,022	
Kansas City Power & Light Company	4072456	Eversource Energy	2,544,516	
Kansas Gas and Electric Company	4057089	Eversource Energy	970,858	
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy	975,114	
Westar Energy (KPL)	4082573	Eversource Energy	2,745,625	
Connecticut Light and Power Company	4056992	Eversource Energy	3,275,579	
NSTAR Electric Company	4008369	Eversource Energy	2,962,672	
Public Service Company of New Hampshire	4057022	Eversource Energy	1,514,832	
Western Massachusetts Electric Company	4057035	Eversource Energy	NA	
Hawaiian Electric Light Company, Inc.	4060446	Hawaiian Electric Industries, Inc.	NA	
Hawaiian Electric Company, Inc.	4057001	Hawaiian Electric Industries, Inc	NA	
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	NA	
Florida Power & Light Company	4056997	NextEra Energy, Inc	11,481,434	
NorthWestern Corporation	4057053		2,028,637	
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	3,169,721	
Otter Tail Power Company	4147257	Otter Tail Corporation	512,000	
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	4,853,643	
Public Service Company of New Mexico	4073320	PNM Resources, Inc	1,665,300	
Portland General Electric Company	4057019		2,435,970	
Alabama Power Company	4014956	Southern Company	8,168,502	
Georgia Power Company	4004152	Southern Company	10,336,266	
Gulf Power Company	4057000	Southern Company	1,294,498	
Mississippi Power Company	4057010	Southern Company	1,743,856	
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	100,000	
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc	2,416,841	
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	1,174,549	
Northern States Power Company - MN	4057754	Xcel Energy Inc	4,979,106	
Northern States Power Company - WI	4061925	Xcel Energy Inc.	965,616	
Public Service Company of Colorado	4057094	Xcel Energy Inc.	4,885,671	
Southwestern Public Service Company	4057027	Xcel Energy Inc.	1,848,351	

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Total Long-term Debt (\$000) 201292	2018Q2
ALLETE (Minnesota Power)	4061513	ALLETE, Inc	1,386,870	
Superior Water, Light and Power Company	4063281	ALLETE, Inc	39,500	
Interstate Power and Light Company	4057087	Alliant Energy Corporation	2,608,781	
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	1,954,768	
Ameren Illinois Company	4272394	Ameren Corporation	3,123,105	
Union Electric Company	4057102	Ameren Corporation	3,949,855	
AEP Texas Central Company	4056979	American Electric Power Company, Inc	NA	
AEP Texas North Company	4057034	American Electric Power Company, Inc	NA	
AEP Texas Inc.	4056935	American Electric Power Company, Inc	3,106,218	
Appalachian Power Company	4056972	American Electric Power Company, Inc	4,097,164	
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc	2,919,975	
Kentucky Power Company	4057006	American Electric Power Company, Inc	870,000	
Kingsport Power Company	4060895	American Electric Power Company, Inc	50,000	
Ohio Power Company	4057015	American Electric Power Company, Inc	1,677,106	
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc	1,290,637	
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc	2,438,475	
Wheeling Power Company	4063994	American Electric Power Company, Inc	350,000	
Central Maine Power Company	4056978	Iberdrola, S A	1,039,986	
New York State Electric & Gas Corporation	4004389	Iberdrola, S A	1,223,258	
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A	1,051,842	
United Illuminating Company	3004222	Iberdrola, S A	733,500	
Black Hills Colorado Electric, Inc.	4215172	Black Hills Corporation	350,000	
Black Hills Power, Inc.	4065694	Black Hills Corporation	342,767	
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	202,000	
Consumers Energy Company	4057081	CMS Energy Corporation	6,109,870	
Consolidated Edison Company of New York, Inc.	4057080	Consolidated Edison, Inc	14,395,881	
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc	659,184	
Rockland Electric Company	4062660	Consolidated Edison, Inc	0	
DTE Electric Company	4057083	DTE Energy Company	6,540,966	
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	10,386,434	
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	6,188,739	
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	3,793,329	
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation	451,456	
Duke Energy Ohio, Inc.	4057079	Duke Energy Corporation	1,618,487	
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	7,257,799	
El Paso Electric Company	4056994		1,288,023	
Kansas City Power & Light Company	4072456	Eversource Energy	2,544,424	
Kansas Gas and Electric Company	4057089	Eversource Energy	970,840	
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy	1,079,114	
Westar Energy (KPL)	4082573	Eversource Energy	2,745,488	
Connecticut Light and Power Company	4056992	Eversource Energy	3,275,581	
NSTAR Electric Company	4008369	Eversource Energy	2,962,853	
Public Service Company of New Hampshire	4057022	Eversource Energy	1,525,065	
Western Massachusetts Electric Company	4057035	Eversource Energy	NA	
Hawaii Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc	NA	
Hawaiian Electric Company, Inc	4057001	Hawaiian Electric Industries, Inc	NA	
Mau Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	NA	
Florida Power & Light Company	4056997	NextEra Energy, Inc	12,230,862	
NorthWestern Corporation	4057053		2,022,637	
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	3,020,366	
Otter Tail Power Company	4147257	Otter Tail Corporation	512,000	
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	4,555,652	
Public Service Company of New Mexico	4073320	PNM Resources, Inc.	1,665,300	
Portland General Electric Company	4057019		2,435,956	
Alabama Power Company	4014956	Southern Company	8,168,231	
Georgia Power Company	4004152	Southern Company	10,405,882	
Gulf Power Company	4057000	Southern Company	1,294,399	
Mississippi Power Company	4057010	Southern Company	1,788,408	
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	100,000	
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc	2,416,444	
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	1,174,523	
Northern States Power Company - MN	4057754	Xcel Energy Inc	4,978,814	
Northern States Power Company - WI	4061925	Xcel Energy Inc	766,288	
Public Service Company of Colorado	4057094	Xcel Energy Inc.	5,185,372	
Southwestern Public Service Company	4057027	Xcel Energy Inc	1,848,319	

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Total Long-term Debt (\$000) 201292	2018Q1
ALLETE (Minnesota Power)	4061513	ALLETE, Inc.	1,377,107	
Superior Water, Light and Power Company	4063281	ALLETE, Inc.	27,500	
Interstate Power and Light Company	4057087	Alliant Energy Corporation	2,526,888	
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	1,954,655	
Ameren Illinois Company	4272394	Ameren Corporation	2,836,844	
Union Electric Company	4057102	Ameren Corporation	3,705,061	
AEP Texas Central Company	4056979	American Electric Power Company, Inc	NA	
AEP Texas North Company	4057034	American Electric Power Company, Inc	NA	
AEP Texas Inc	4056935	American Electric Power Company, Inc	2,637,707	
Appalachian Power Company	4056972	American Electric Power Company, Inc	3,992,618	
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc	2,570,111	
Kentucky Power Company	4057006	American Electric Power Company, Inc.	870,000	
Kingsport Power Company	4060895	American Electric Power Company, Inc	50,000	
Ohio Power Company	4057015	American Electric Power Company, Inc	2,027,012	
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc	1,290,673	
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc.	2,438,386	
Wheeling Power Company	4063994	American Electric Power Company, Inc	350,000	
Central Maine Power Company	4056978	Iberdrola, S.A	1,039,982	
New York State Electric & Gas Corporation	4004389	Iberdrola, S.A	1,049,221	
Rochester Gas and Electric Corporation	4057096	Iberdrola, S.A	961,583	
United Illuminating Company	3004222	Iberdrola, S.A	733,500	
Black Hills Colorado Electric, Inc.	4215172	Black Hills Corporation	350,000	
Black Hills Power, Inc	4065694	Black Hills Corporation	342,766	
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	202,000	
Consumers Energy Company	4057081	CMS Energy Corporation	5,889,246	
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc	13,358,758	
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc.	659,174	
Rockland Electric Company	4062660	Consolidated Edison, Inc	0	
DTE Electric Company	4057083	DTE Energy Company	6,018,119	
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	10,686,180	
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	5,740,212	
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	3,793,186	
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation	451,444	
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation	1,618,057	
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	7,257,548	
El Paso Electric Company	4056994		1,163,024	
Kansas City Power & Light Company	4072456	Eversource Energy	2,544,333	
Kansas Gas and Electric Company	4057089	Eversource Energy	970,821	
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy	1,079,114	
Westar Energy (KPL)	4082573	Eversource Energy	2,745,350	
Connecticut Light and Power Company	4056992	Eversource Energy	3,575,577	
NSTAR Electric Company	4008369	Eversource Energy	2,963,034	
Public Service Company of New Hampshire	4057022	Eversource Energy	1,006,495	
Western Massachusetts Electric Company	4057035	Eversource Energy	NA	
Hawaiian Electric Light Company, Inc.	4060446	Hawaiian Electric Industries, Inc.	NA	
Hawaiian Electric Company, Inc.	4057001	Hawaiian Electric Industries, Inc	NA	
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	NA	
Florida Power & Light Company	4056997	NextEra Energy, Inc	11,636,615	
NorthWestern Corporation	4057053		2,029,637	
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	3,020,258	
Otter Tail Power Company	4147257	Otter Tail Corporation	512,000	
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	4,637,542	
Public Service Company of New Mexico	4073320	PNM Resources, Inc.	1,665,273	
Portland General Electric Company	4057019		2,435,945	
Alabama Power Company	4014956	Southern Company	7,671,745	
Georgia Power Company	4004152	Southern Company	11,521,532	
Gulf Power Company	4057000	Southern Company	1,294,300	
Mississippi Power Company	4057010	Southern Company	1,790,334	
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	50,000	
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc	2,665,984	
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	1,174,498	
Northern States Power Company - MN	4057754	Xcel Energy Inc	4,978,537	
Northern States Power Company - WI	4061925	Xcel Energy Inc.	766,220	
Public Service Company of Colorado	4057094	Xcel Energy Inc	4,486,801	
Southwestern Public Service Company	4057027	Xcel Energy Inc	1,848,286	

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Total Long-term Debt (\$000) 201292	2017Q4
ALLETE (Minnesota Power)	4061513	ALLETE, Inc	1,377,343	
Superior Water, Light and Power Company	4063281	ALLETE, Inc.	27,500	
Interstate Power and Light Company	4057087	Alliant Energy Corporation	2,484,863	
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	1,961,532	
Ameren Illinois Company	4272394	Ameren Corporation	2,836,678	
Union Electric Company	4057102	Ameren Corporation	3,704,909	
AEP Texas Central Company	4056979	American Electric Power Company, Inc	NA	
AEP Texas North Company	4057034	American Electric Power Company, Inc	NA	
AEP Texas Inc.	4056935	American Electric Power Company, Inc.	2,637,574	
Appalachian Power Company	4056972	American Electric Power Company, Inc	4,004,156	
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc	2,569,371	
Kentucky Power Company	4057006	American Electric Power Company, Inc	870,000	
Kingsport Power Company	4060895	American Electric Power Company, Inc	50,000	
Ohio Power Company	4057015	American Electric Power Company, Inc	1,629,863	
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc	1,290,709	
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc	2,370,937	
Wheeling Power Company	4063994	American Electric Power Company, Inc	350,000	
Central Maine Power Company	4056978	Iberdrola, S A	1,039,979	
New York State Electric & Gas Corporation	4004389	Iberdrola, S.A.	1,049,042	
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A	961,573	
United Illuminating Company	3004222	Iberdrola, S A	733,500	
Black Hills Colorado Electric, Inc.	4215172	Black Hills Corporation	350,000	
Black Hills Power, Inc	4065694	Black Hills Corporation	342,765	
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	202,000	
Consumers Energy Company	4057081	CMS Energy Corporation	5,895,659	
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc	13,358,362	
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc	659,163	
Rockland Electric Company	4062660	Consolidated Edison, Inc	0	
DTE Electric Company	4057083	DTE Energy Company	6,017,926	
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	10,088,893	
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	5,790,015	
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	3,793,044	
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation	451,432	
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation	1,617,626	
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	7,257,297	
El Paso Electric Company	4056994		1,163,025	
Kansas City Power & Light Company	4072456	Eversource Energy, Inc	2,594,504	
Kansas Gas and Electric Company	4057089	Eversource Energy, Inc	970,802	
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy, Inc	1,080,239	
Westar Energy (KPL)	4082573	Eversource Energy, Inc	2,745,213	
Connecticut Light and Power Company	4056992	Eversource Energy	3,076,786	
NSTAR Electric Company	4008369	Eversource Energy	2,394,905	
Public Service Company of New Hampshire	4057022	Eversource Energy	1,006,481	
Western Massachusetts Electric Company	4057035	Eversource Energy	568,310	
Hawaii Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc	NA	
Hawaiian Electric Company, Inc	4057001	Hawaiian Electric Industries, Inc	NA	
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	NA	
Florida Power & Light Company	4056997	NextEra Energy, Inc	11,391,476	
NorthWestern Corporation	4057053		1,806,637	
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	3,020,149	
Otter Tail Power Company	4147257	Otter Tail Corporation	412,000	
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	4,635,875	
Public Service Company of New Mexico	4073320	PNM Resources, Inc.	1,665,246	
Portland General Electric Company	4057019		2,435,931	
Alabama Power Company	4014956	Southern Company	7,671,504	
Georgia Power Company	4004152	Southern Company	11,900,844	
Gulf Power Company	4057000	Southern Company	1,294,202	
Mississippi Power Company	4057010	Southern Company	2,093,117	
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	50,000	
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc	2,665,512	
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	1,174,472	
Northern States Power Company - MN	4057754	Xcel Energy Inc.	4,978,265	
Northern States Power Company - WI	4061925	Xcel Energy Inc.	766,153	
Public Service Company of Colorado	4057094	Xcel Energy Inc	4,486,528	
Southwestern Public Service Company	4057027	Xcel Energy Inc	1,848,254	

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Total Long-term Debt (\$000) 201292	2017Q3
ALLETE (Minnesota Power)	4061513	ALLETE, Inc.	1,377,655	
Superior Water, Light and Power Company	4063281	ALLETE, Inc.	27,500	
Interstate Power and Light Company	4057087	Alliant Energy Corporation	2,269,482	
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	1,662,114	
Ameren Illinois Company	4272394	Ameren Corporation	2,590,118	
Union Electric Company	4057102	Ameren Corporation	3,704,757	
AEP Texas Central Company	4056979	American Electric Power Company, Inc.	NA	
AEP Texas North Company	4057034	American Electric Power Company, Inc.	NA	
AEP Texas Inc	4056935	American Electric Power Company, Inc.	2,678,218	
Appalachian Power Company	4056972	American Electric Power Company, Inc.	4,003,984	
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc.	2,518,890	
Kentucky Power Company	4057006	American Electric Power Company, Inc.	870,000	
Kingsport Power Company	4060895	American Electric Power Company, Inc.	50,000	
Ohio Power Company	4057015	American Electric Power Company, Inc.	1,629,772	
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc.	1,290,743	
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc.	2,370,829	
Wheeling Power Company	4063994	American Electric Power Company, Inc.	350,000	
Central Maine Power Company	4056978	Iberdrola, S A	1,039,975	
New York State Electric & Gas Corporation	4004389	Iberdrola, S A	1,248,970	
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A	961,563	
United Illuminating Company	3004222	Iberdrola, S A	763,500	
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation	350,000	
Black Hills Power, Inc.	4065694	Black Hills Corporation	685,527	
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	202,000	
Consumers Energy Company	4057081	CMS Energy Corporation	5,701,563	
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc	12,659,448	
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc	659,153	
Rockland Electric Company	4062660	Consolidated Edison, Inc	0	
DTE Electric Company	4057083	DTE Energy Company	6,017,733	
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	9,514,452	
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	5,389,818	
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	3,795,247	
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation	451,419	
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation	1,617,196	
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	7,457,046	
El Paso Electric Company	4056994		1,163,026	
Kansas City Power & Light Company	4072456	Eversource Energy	2,594,414	
Kansas Gas and Electric Company	4057089	Eversource Energy	970,783	
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy	1,080,239	
Westar Energy (KPL)	4082573	Eversource Energy	2,745,075	
Connecticut Light and Power Company	4056992	Eversource Energy	3,076,782	
NSTAR Electric Company	4008369	Eversource Energy	2,440,791	
Public Service Company of New Hampshire	4057022	Eversource Energy	1,006,469	
Western Massachusetts Electric Company	4057035	Eversource Energy	568,544	
Hawaiian Electric Light Company, Inc.	4060446	Hawaiian Electric Industries, Inc	NA	
Hawaiian Electric Company, Inc	4057001	Hawaiian Electric Industries, Inc.	NA	
Mauui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	NA	
Florida Power & Light Company	4056997	NextEra Energy, Inc	10,186,512	
NorthWestern Corporation	4057053		1,806,612	
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	3,020,032	
Otter Tail Power Company	4147257	Otter Tail Corporation	412,000	
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	4,636,079	
Public Service Company of New Mexico	4073320	PNM Resources, Inc.	1,665,219	
Portland General Electric Company	4057019		2,385,920	
Alabama Power Company	4014956	Southern Company	7,446,985	
Georgia Power Company	4004152	Southern Company	11,837,321	
Gulf Power Company	4057000	Southern Company	1,301,479	
Mississippi Power Company	4057010	Southern Company	2,130,065	
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	NA	
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc	2,665,040	
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	1,299,446	
Northern States Power Company - MN	4057754	Xcel Energy Inc	4,977,981	
Northern States Power Company - WI	4061925	Xcel Energy Inc	666,354	
Public Service Company of Colorado	4057094	Xcel Energy Inc.	4,486,249	
Southwestern Public Service Company	4057027	Xcel Energy Inc	1,848,220	

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Total Long-term Debt (\$000)	
			201292	2017Q2
ALLETE (Minnesota Power)	4061513	ALLETE, Inc	1,392,809	
Superior Water, Light and Power Company	4063281	ALLETE, Inc.	27,500	
Interstate Power and Light Company	4057087	Alliant Energy Corporation	2,268,311	
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	1,663,081	
Ameren Illinois Company	4272394	Ameren Corporation	2,589,976	
Union Electric Company	4057102	Ameren Corporation	3,704,605	
AEP Texas Central Company	4056979	American Electric Power Company, Inc	NA	
AEP Texas North Company	4057034	American Electric Power Company, Inc	NA	
AEP Texas Inc.	4056935	American Electric Power Company, Inc	1,982,271	
Appalachian Power Company	4056972	American Electric Power Company, Inc	4,015,754	
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc	2,518,410	
Kentucky Power Company	4057006	American Electric Power Company, Inc.	869,972	
Kingsport Power Company	4060895	American Electric Power Company, Inc	40,000	
Ohio Power Company	4057015	American Electric Power Company, Inc	1,629,688	
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc	1,290,777	
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc.	2,370,721	
Wheeling Power Company	4063994	American Electric Power Company, Inc	350,000	
Central Maine Power Company	4056978	Iberdrola, S A	1,039,971	
New York State Electric & Gas Corporation	4004389	Iberdrola, S.A	1,248,967	
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A	961,553	
United Illuminating Company	3004222	Iberdrola, S A	803,500	
Black Hills Colorado Electric, Inc.	4215172	Black Hills Corporation	350,000	
Black Hills Power, Inc	4065694	Black Hills Corporation	342,763	
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	202,000	
Consumers Energy Company	4057081	CMS Energy Corporation	5,703,303	
Consolidated Edison Company of New York, Inc.	4057080	Consolidated Edison, Inc	12,659,063	
Orange and Rockland Utilities, Inc.	4057093	Consolidated Edison, Inc	659,143	
Rockland Electric Company	4062660	Consolidated Edison, Inc	0	
DTE Electric Company	4057083	DTE Energy Company	5,877,737	
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	9,514,796	
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	5,639,607	
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	3,795,120	
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation	361,407	
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation	1,616,765	
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	6,655,272	
El Paso Electric Company	4056994		1,196,327	
Kansas City Power & Light Company	4072456	Eversource Energy, Inc.	2,625,325	
Kansas Gas and Electric Company	4057089	Eversource Energy, Inc	970,764	
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy, Inc	1,080,239	
Westar Energy (KPL)	4082573	Eversource Energy, Inc	2,744,937	
Connecticut Light and Power Company	4056992	Eversource Energy	2,929,767	
NSTAR Electric Company	4008369	Eversource Energy	2,440,728	
Public Service Company of New Hampshire	4057022	Eversource Energy	1,076,452	
Western Massachusetts Electric Company	4057035	Eversource Energy	568,778	
Hawaiian Electric Light Company, Inc.	4060446	Hawaiian Electric Industries, Inc	NA	
Hawaiian Electric Company, Inc.	4057001	Hawaiian Electric Industries, Inc	NA	
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	NA	
Florida Power & Light Company	4056997	NextEra Energy, Inc	10,186,033	
NorthWestern Corporation	4057053		1,806,608	
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	3,005,905	
Otter Tail Power Company	4147257	Otter Tail Corporation	445,000	
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	4,336,180	
Public Service Company of New Mexico	4073320	PNM Resources, Inc.	1,640,192	
Portland General Electric Company	4057019		2,360,905	
Alabama Power Company	4014956	Southern Company	7,482,876	
Georgia Power Company	4004152	Southern Company	11,005,753	
Gulf Power Company	4057000	Southern Company	1,301,380	
Mississippi Power Company	4057010	Southern Company	2,132,012	
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	NA	
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc	2,664,568	
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	1,299,417	
Northern States Power Company - MN	4057754	Xcel Energy Inc	4,883,618	
Northern States Power Company - WI	4061925	Xcel Energy Inc	666,321	
Public Service Company of Colorado	4057094	Xcel Energy Inc.	4,485,969	
Southwestern Public Service Company	4057027	Xcel Energy Inc	1,650,491	

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Total Long-term Debt (\$000) 201292	2017Q1
ALLETE (Minnesota Power)	4061513	ALLETE, Inc.	1,408,039	
Superior Water, Light and Power Company	4063281	ALLETE, Inc.	27,500	
Interstate Power and Light Company	4057087	Alliant Energy Corporation	2,226,741	
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	1,663,738	
Ameren Illinois Company	4272394	Ameren Corporation	2,589,834	
Union Electric Company	4057102	Ameren Corporation	3,730,775	
AEP Texas Central Company	4056979	American Electric Power Company, Inc	NA	
AEP Texas North Company	4057034	American Electric Power Company, Inc	NA	
AEP Texas Inc	4056935	American Electric Power Company, Inc	1,982,198	
Appalachian Power Company	4056972	American Electric Power Company, Inc	3,942,251	
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc	2,230,197	
Kentucky Power Company	4057006	American Electric Power Company, Inc	869,931	
Kingsport Power Company	4060895	American Electric Power Company, Inc	40,000	
Ohio Power Company	4057015	American Electric Power Company, Inc	1,629,603	
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc	1,290,810	
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc.	2,355,613	
Wheeling Power Company	4063994	American Electric Power Company, Inc	350,000	
Central Maine Power Company	4056978	Iberdrola, S.A	1,039,967	
New York State Electric & Gas Corporation	4004389	Iberdrola, S.A	1,248,964	
Rochester Gas and Electric Corporation	4057096	Iberdrola, S.A	661,534	
United Illuminating Company	3004222	Iberdrola, S.A	803,500	
Black Hills Colorado Electric, Inc.	4215172	Black Hills Corporation	350,000	
Black Hills Power, Inc	4065694	Black Hills Corporation	342,762	
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	202,000	
Consumers Energy Company	4057081	CMS Energy Corporation	5,709,030	
Consolidated Edison Company of New York, Inc.	4057080	Consolidated Edison, Inc	12,160,540	
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc	659,133	
Rockland Electric Company	4062660	Consolidated Edison, Inc	0	
DTE Electric Company	4057083	DTE Energy Company	5,877,535	
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	9,514,554	
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	5,639,393	
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	3,794,977	
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation	361,394	
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation	1,616,335	
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	6,657,290	
El Paso Electric Company	4056994		1,196,328	
Kansas City Power & Light Company	4072456	Evergy, Inc.	2,576,043	
Kansas Gas and Electric Company	4057089	Evergy, Inc	970,746	
KCP&L Greater Missouri Operations Company	4000843	Evergy, Inc	1,080,239	
Westar Energy (KPL)	4082573	Evergy, Inc	2,744,800	
Connecticut Light and Power Company	4056992	Eversource Energy	2,929,549	
NSTAR Electric Company	4008369	Eversource Energy	2,090,933	
Public Service Company of New Hampshire	4057022	Eversource Energy	1,076,435	
Western Massachusetts Electric Company	4057035	Eversource Energy	569,012	
Hawaii Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc	NA	
Hawaiian Electric Company, Inc	4057001	Hawaiian Electric Industries, Inc.	NA	
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	NA	
Florida Power & Light Company	4056997	NextEra Energy, Inc	10,185,553	
NorthWestern Corporation	4057053		1,806,603	
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	2,845,826	
Otter Tail Power Company	4147257	Otter Tail Corporation	445,000	
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	4,336,076	
Public Service Company of New Mexico	4073320	PNM Resources, Inc	1,640,165	
Portland General Electric Company	4057019		2,360,894	
Alabama Power Company	4014956	Southern Company	7,482,666	
Georgia Power Company	4004152	Southern Company	11,481,380	
Gulf Power Company	4057000	Southern Company	1,086,783	
Mississippi Power Company	4057010	Southern Company	2,985,086	
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc.	NA	
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc.	2,664,095	
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	1,299,388	
Northern States Power Company - MN	4057754	Xcel Energy Inc	4,883,327	
Northern States Power Company - WI	4061925	Xcel Energy Inc	666,255	
Public Service Company of Colorado	4057094	Xcel Energy Inc	4,087,337	
Southwestern Public Service Company	4057027	Xcel Energy Inc	1,650,428	

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Notes Payable (\$000) 201304	2018Q4
ALLETE (Minnesota Power)	4061513	ALLETE, Inc	0	0
Superior Water, Light and Power Company	4063281	ALLETE, Inc	0	0
Interstate Power and Light Company	4057087	Alliant Energy Corporation	50,400	50,400
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	105,500	105,500
Ameren Illinois Company	4272394	Ameren Corporation	72,450	72,450
Union Electric Company	4057102	Ameren Corporation	54,600	54,600
AEP Texas Central Company	4056979	American Electric Power Company, Inc	NA	NA
AEP Texas North Company	4057034	American Electric Power Company, Inc	NA	NA
AEP Texas Inc	4056935	American Electric Power Company, Inc	0	0
Appalachian Power Company	4056972	American Electric Power Company, Inc	0	0
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc	0	0
Kentucky Power Company	4057006	American Electric Power Company, Inc	0	0
Kingsport Power Company	4060895	American Electric Power Company, Inc	0	0
Ohio Power Company	4057015	American Electric Power Company, Inc	0	0
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc	0	0
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc	0	0
Wheeling Power Company	4063994	American Electric Power Company, Inc	0	0
Central Maine Power Company	4056978	Iberdrola, S.A.	0	0
New York State Electric & Gas Corporation	4004389	Iberdrola, S.A.	0	0
Rochester Gas and Electric Corporation	4057096	Iberdrola, S.A.	0	0
United Illuminating Company	3004222	Iberdrola, S.A.	0	0
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation	0	0
Black Hills Power, Inc.	4065694	Black Hills Corporation	0	0
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	0	0
Consumers Energy Company	4057081	CMS Energy Corporation	96,866	96,866
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc	1,192,233	1,192,233
Orange and Rockland Utilities, Inc.	4057093	Consolidated Edison, Inc	53,456	53,456
Rockland Electric Company	4062660	Consolidated Edison, Inc	0	0
DTE Electric Company	4057083	DTE Energy Company	156,384	156,384
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	0	0
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	0	0
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	0	0
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation	0	0
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation	0	0
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	0	0
El Paso Electric Company	4056994		23,000	23,000
Kansas City Power & Light Company	4072456	Evergy, Inc	176,850	176,850
Kansas Gas and Electric Company	4057089	Evergy, Inc	0	0
KCP&L Greater Missouri Operations Company	4000843	Evergy, Inc	150,000	150,000
Westar Energy (KPL)	4082573	Evergy, Inc	411,700	411,700
Connecticut Light and Power Company	4056992	Eversource Energy	0	0
NSTAR Electric Company	4008369	Eversource Energy	278,500	278,500
Public Service Company of New Hampshire	4057022	Eversource Energy	0	0
Western Massachusetts Electric Company	4057035	Eversource Energy	NA	NA
Hawaii Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc	NA	NA
Hawaiian Electric Company, Inc	4057001	Hawaiian Electric Industries, Inc	NA	NA
Mau Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	NA	NA
Florida Power & Light Company	4056997	NextEra Energy, Inc	1,256,000	1,256,000
NorthWestern Corporation	4057053		0	0
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	0	0
Otter Tail Power Company	4147257	Otter Tail Corporation	9,384	9,384
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	0	0
Public Service Company of New Mexico	4073320	PNM Resources, Inc.	42,400	42,400
Portland General Electric Company	4057019		0	0
Alabama Power Company	4014956	Southern Company	0	0
Georgia Power Company	4004152	Southern Company	0	0
Gulf Power Company	4057000	Southern Company	0	0
Mississippi Power Company	4057010	Southern Company	449	449
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc.	0	0
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc	134,925	134,925
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc.	284,353	284,353
Northern States Power Company - MN	4057754	Xcel Energy Inc	150,000	150,000
Northern States Power Company - WI	4061925	Xcel Energy Inc	51,000	51,000
Public Service Company of Colorado	4057094	Xcel Energy Inc.	307,000	307,000
Southwestern Public Service Company	4057027	Xcel Energy Inc	42,000	42,000

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Notes Payable (\$000) 201304	2018Q3
ALLETE (Minnesota Power)	4061513	ALLETE, Inc		0
Superior Water, Light and Power Company	4063281	ALLETE, Inc		0
Interstate Power and Light Company	4057087	Alliant Energy Corporation		0
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation		38,400
Ameren Illinois Company	4272394	Ameren Corporation		108,375
Union Electric Company	4057102	Ameren Corporation		0
AEP Texas Central Company	4056979	American Electric Power Company, Inc		NA
AEP Texas North Company	4057034	American Electric Power Company, Inc		NA
AEP Texas Inc.	4056935	American Electric Power Company, Inc		0
Appalachian Power Company	4056972	American Electric Power Company, Inc		0
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc		0
Kentucky Power Company	4057006	American Electric Power Company, Inc		0
Kingsport Power Company	4060895	American Electric Power Company, Inc		0
Ohio Power Company	4057015	American Electric Power Company, Inc		0
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc		0
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc		0
Wheeling Power Company	4063994	American Electric Power Company, Inc		0
Central Maine Power Company	4056978	Iberdrola, S.A		0
New York State Electric & Gas Corporation	4004389	Iberdrola, S.A.		0
Rochester Gas and Electric Corporation	4057096	Iberdrola, S.A.		0
United Illuminating Company	3004222	Iberdrola, S.A.		0
Black Hills Colorado Electric, Inc.	4215172	Black Hills Corporation		0
Black Hills Power, Inc	4065694	Black Hills Corporation		0
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation		0
Consumers Energy Company	4057081	CMS Energy Corporation		279,810
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc		1,004,365
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc		79,970
Rockland Electric Company	4062660	Consolidated Edison, Inc		0
DTE Electric Company	4057083	DTE Energy Company		52,420
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation		0
Duke Energy Florida, LLC	4056998	Duke Energy Corporation		0
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation		0
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation		0
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation		0
Duke Energy Progress, LLC	4004192	Duke Energy Corporation		0
El Paso Electric Company	4056994			0
Kansas City Power & Light Company	4072456	Eversource Energy		209,200
Kansas Gas and Electric Company	4057089	Eversource Energy		0
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy		140,400
Westar Energy (KPL)	4082573	Eversource Energy		326,300
Connecticut Light and Power Company	4056992	Eversource Energy		0
NSTAR Electric Company	4008369	Eversource Energy		240,500
Public Service Company of New Hampshire	4057022	Eversource Energy		0
Western Massachusetts Electric Company	4057035	Eversource Energy		NA
Hawaii Electric Light Company, Inc.	4060446	Hawaiian Electric Industries, Inc		NA
Hawaiian Electric Company, Inc	4057001	Hawaiian Electric Industries, Inc		NA
Mau Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc		NA
Florida Power & Light Company	4056997	NextEra Energy, Inc		205,000
NorthWestern Corporation	4057053			0
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp		0
Otter Tail Power Company	4147257	Otter Tail Corporation		0
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation		0
Public Service Company of New Mexico	4073320	PNM Resources, Inc.		0
Portland General Electric Company	4057019			0
Alabama Power Company	4014956	Southern Company		3,495
Georgia Power Company	4004152	Southern Company		0
Gulf Power Company	4057000	Southern Company		0
Mississippi Power Company	4057010	Southern Company		0
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc.		0
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc.		345,962
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc		308,817
Northern States Power Company - MN	4057754	Xcel Energy Inc		24,000
Northern States Power Company - WI	4061925	Xcel Energy Inc		0
Public Service Company of Colorado	4057094	Xcel Energy Inc		0
Southwestern Public Service Company	4057027	Xcel Energy Inc		35,000

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Notes Payable (\$000) 201304	2018Q2
ALLETE (Minnesota Power)	4061513	ALLETE, Inc.	0	0
Superior Water, Light and Power Company	4063281	ALLETE, Inc.	0	0
Interstate Power and Light Company	4057087	Alliant Energy Corporation	0	0
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	26,400	26,400
Ameren Illinois Company	4272394	Ameren Corporation	0	0
Union Electric Company	4057102	Ameren Corporation	0	0
AEP Texas Central Company	4056979	American Electric Power Company, Inc	NA	NA
AEP Texas North Company	4057034	American Electric Power Company, Inc	NA	NA
AEP Texas Inc	4056935	American Electric Power Company, Inc	0	0
Appalachian Power Company	4056972	American Electric Power Company, Inc	0	0
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc	0	0
Kentucky Power Company	4057006	American Electric Power Company, Inc	0	0
Kingsport Power Company	4060895	American Electric Power Company, Inc	0	0
Ohio Power Company	4057015	American Electric Power Company, Inc	0	0
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc	0	0
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc	0	0
Wheeling Power Company	4063994	American Electric Power Company, Inc	0	0
Central Maine Power Company	4056978	Iberdrola, S A	0	0
New York State Electric & Gas Corporation	4004389	Iberdrola, S A.	0	0
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A	-454	-454
United Illuminating Company	3004222	Iberdrola, S A	0	0
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation	0	0
Black Hills Power, Inc	4065694	Black Hills Corporation	0	0
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	0	0
Consumers Energy Company	4057081	CMS Energy Corporation	0	0
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc	549,761	549,761
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc	103,949	103,949
Rockland Electric Company	4062660	Consolidated Edison, Inc	0	0
DTE Electric Company	4057083	DTE Energy Company	131,091	131,091
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	0	0
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	0	0
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	0	0
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation	0	0
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation	0	0
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	0	0
El Paso Electric Company	4056994		56,000	56,000
Kansas City Power & Light Company	4072456	Evergy, Inc.	322,400	322,400
Kansas Gas and Electric Company	4057089	Evergy, Inc	0	0
KCP&L Greater Missouri Operations Company	4000843	Evergy, Inc	208,700	208,700
Westar Energy (KPL)	4082573	Evergy, Inc	488,200	488,200
Connecticut Light and Power Company	4056992	Eversource Energy	0	0
NSTAR Electric Company	4008369	Eversource Energy	443,810	443,810
Public Service Company of New Hampshire	4057022	Eversource Energy	0	0
Western Massachusetts Electric Company	4057035	Eversource Energy	NA	NA
Hawaii Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc	NA	NA
Hawaiian Electric Company, Inc.	4057001	Hawaiian Electric Industries, Inc	NA	NA
Mauui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	NA	NA
Florida Power & Light Company	4056997	NextEra Energy, Inc	986,930	986,930
NorthWestern Corporation	4057053		0	0
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp.	0	0
Otter Tail Power Company	4147257	Otter Tail Corporation	14,875	14,875
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	499,949	499,949
Public Service Company of New Mexico	4073320	PNM Resources, Inc	33,600	33,600
Portland General Electric Company	4057019		0	0
Alabama Power Company	4014956	Southern Company	3,463	3,463
Georgia Power Company	4004152	Southern Company	0	0
Gulf Power Company	4057000	Southern Company	0	0
Mississippi Power Company	4057010	Southern Company	100,000	100,000
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	0	0
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc	341,800	341,800
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	317,154	317,154
Northern States Power Company - MN	4057754	Xcel Energy Inc	0	0
Northern States Power Company - WI	4061925	Xcel Energy Inc	30,000	30,000
Public Service Company of Colorado	4057094	Xcel Energy Inc	0	0
Southwestern Public Service Company	4057027	Xcel Energy Inc	132,000	132,000

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Notes Payable (\$000) 201304	2018Q1
ALLETE (Minnesota Power)	4061513	ALLETE, Inc		0
Superior Water, Light and Power Company	4063281	ALLETE, Inc		0
Interstate Power and Light Company	4057087	Alliant Energy Corporation		0
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation		30,600
Ameren Illinois Company	4272394	Ameren Corporation		224,300
Union Electric Company	4057102	Ameren Corporation		282,300
AEP Texas Central Company	4056979	American Electric Power Company, Inc		NA
AEP Texas North Company	4057034	American Electric Power Company, Inc		NA
AEP Texas Inc.	4056935	American Electric Power Company, Inc		0
Appalachian Power Company	4056972	American Electric Power Company, Inc		0
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc		0
Kentucky Power Company	4057006	American Electric Power Company, Inc		0
Kingsport Power Company	4060895	American Electric Power Company, Inc		0
Ohio Power Company	4057015	American Electric Power Company, Inc		0
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc		0
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc		0
Wheeling Power Company	4063994	American Electric Power Company, Inc		0
Central Maine Power Company	4056978	Iberdrola, S.A.		0
New York State Electric & Gas Corporation	4004389	Iberdrola, S.A.		0
Rochester Gas and Electric Corporation	4057096	Iberdrola, S.A.		0
United Illuminating Company	3004222	Iberdrola, S.A.		0
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation		0
Black Hills Power, Inc	4065694	Black Hills Corporation		0
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation		0
Consumers Energy Company	4057081	CMS Energy Corporation		0
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc		913,581
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc		114,926
Rockland Electric Company	4062660	Consolidated Edison, Inc		0
DTE Electric Company	4057083	DTE Energy Company		381,412
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation		0
Duke Energy Florida, LLC	4056998	Duke Energy Corporation		0
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation		0
Duke Energy Kentucky, Inc.	4057103	Duke Energy Corporation		0
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation		0
Duke Energy Progress, LLC	4004192	Duke Energy Corporation		0
El Paso Electric Company	4056994			144,000
Kansas City Power & Light Company	4072456	Eversource Energy		288,322
Kansas Gas and Electric Company	4057088	Eversource Energy		0
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy		235,500
Westar Energy (KPL)	4082573	Eversource Energy		289,800
Connecticut Light and Power Company	4056992	Eversource Energy		0
NSTAR Electric Company	4008369	Eversource Energy		367,000
Public Service Company of New Hampshire	4057022	Eversource Energy		0
Western Massachusetts Electric Company	4057035	Eversource Energy		NA
Hawaii Electric Light Company, Inc.	4060446	Hawaiian Electric Industries, Inc		NA
Hawaiian Electric Company, Inc	4057001	Hawaiian Electric Industries, Inc.		NA
Mau Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc		NA
Florida Power & Light Company	4056997	NextEra Energy, Inc		1,560,720
NorthWestern Corporation	4057053			0
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp		0
Otter Tail Power Company	4147257	Otter Tail Corporation		24,138
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation		255,500
Public Service Company of New Mexico	4073320	PNM Resources, Inc.		0
Portland General Electric Company	4057019			0
Alabama Power Company	4014956	Southern Company		248,329
Georgia Power Company	4004152	Southern Company		0
Gulf Power Company	4057000	Southern Company		0
Mississippi Power Company	4057010	Southern Company		300,000
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc.		0
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc		59,997
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc.		279,347
Northern States Power Company - MN	4057754	Xcel Energy Inc		0
Northern States Power Company - WI	4061925	Xcel Energy Inc.		22,000
Public Service Company of Colorado	4057094	Xcel Energy Inc.		95,000
Southwestern Public Service Company	4057027	Xcel Energy Inc		10,000

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 20138	Notes Payable (\$000)	
			201304	2017Q4
ALLETE (Minnesota Power)	4061513	ALLETE, Inc		0
Superior Water, Light and Power Company	4063281	ALLETE, Inc.		0
Interstate Power and Light Company	4057087	Alliant Energy Corporation		0
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation		25,000
Ameren Illinois Company	4272394	Ameren Corporation		62,300
Union Electric Company	4057102	Ameren Corporation		39,100
AEP Texas Central Company	4056979	American Electric Power Company, Inc		NA
AEP Texas North Company	4057034	American Electric Power Company, Inc		NA
AEP Texas Inc.	4056935	American Electric Power Company, Inc.		0
Appalachian Power Company	4056972	American Electric Power Company, Inc		0
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc		0
Kentucky Power Company	4057006	American Electric Power Company, Inc.		0
Kingsport Power Company	4060895	American Electric Power Company, Inc		0
Ohio Power Company	4057015	American Electric Power Company, Inc		0
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc		0
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc		0
Wheeling Power Company	4063994	American Electric Power Company, Inc		0
Central Maine Power Company	4056978	Iberdrola, S.A		40
New York State Electric & Gas Corporation	4004389	Iberdrola, S.A		150,050
Rochester Gas and Electric Corporation	4057096	Iberdrola, S.A.		50
United Illuminating Company	3004222	Iberdrola, S A		0
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation		0
Black Hills Power, Inc.	4065694	Black Hills Corporation		0
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation		0
Consumers Energy Company	4057081	CMS Energy Corporation		169,869
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc		149,977
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc		95,973
Rockland Electric Company	4062660	Consolidated Edison, Inc		0
DTE Electric Company	4057083	DTE Energy Company		239,419
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation		0
Duke Energy Florida, LLC	4056998	Duke Energy Corporation		0
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation		0
Duke Energy Kentucky, Inc.	4057103	Duke Energy Corporation		0
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation		0
Duke Energy Progress, LLC	4004192	Duke Energy Corporation		0
El Paso Electric Company	4056994			85,000
Kansas City Power & Light Company	4072456	Eergy, Inc		167,513
Kansas Gas and Electric Company	4057089	Eergy, Inc		0
KCP&L Greater Missouri Operations Company	4000843	Eergy, Inc		209,300
Westar Energy (KPL)	4082573	Eergy, Inc		275,700
Connecticut Light and Power Company	4056992	Eversource Energy		0
NSTAR Electric Company	4008369	Eversource Energy		234,000
Public Service Company of New Hampshire	4057022	Eversource Energy		0
Western Massachusetts Electric Company	4057035	Eversource Energy		0
Hawaiian Electric Light Company, Inc.	4060446	Hawaiian Electric Industries, Inc.		NA
Hawaiian Electric Company, Inc	4057001	Hawaiian Electric Industries, Inc		NA
Mauui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc		NA
Florida Power & Light Company	4056997	NextEra Energy, Inc		1,936,837
NorthWestern Corporation	4057053			319,556
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp		0
Otter Tail Power Company	4147257	Otter Tail Corporation		112,371
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation		0
Public Service Company of New Mexico	4073320	PNM Resources, Inc		39,800
Portland General Electric Company	4057019			0
Alabama Power Company	4014956	Southern Company		3,401
Georgia Power Company	4004152	Southern Company		150,000
Gulf Power Company	4057000	Southern Company		0
Mississippi Power Company	4057010	Southern Company		4,205
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc.		0
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc.		210,868
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc		293,200
Northern States Power Company - MN	4057754	Xcel Energy Inc		20,000
Northern States Power Company - WI	4061925	Xcel Energy Inc.		11,000
Public Service Company of Colorado	4057094	Xcel Energy Inc		0
Southwestern Public Service Company	4057027	Xcel Energy Inc		0

SNLTable		Ultimate Parent Company Name		Notes Payable (\$000)
Company Name	SNL Institution Key		201304	2017Q3
ALLETE (Minnesota Power)	4061513	ALLETE, Inc	0	0
Superior Water, Light and Power Company	4063281	ALLETE, Inc.	0	0
Interstate Power and Light Company	4057087	Alliant Energy Corporation	4,000	0
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	224,600	0
Ameren Illinois Company	4272394	Ameren Corporation	169,100	0
Union Electric Company	4057102	Ameren Corporation	0	0
AEP Texas Central Company	4056979	American Electric Power Company, Inc	NA	0
AEP Texas North Company	4057034	American Electric Power Company, Inc	NA	0
AEP Texas Inc.	4056935	American Electric Power Company, Inc	0	0
Appalachian Power Company	4056972	American Electric Power Company, Inc	0	0
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc	0	0
Kentucky Power Company	4057006	American Electric Power Company, Inc	0	0
Kingsport Power Company	4060895	American Electric Power Company, Inc	0	0
Ohio Power Company	4057015	American Electric Power Company, Inc	0	0
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc	0	0
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc.	0	0
Wheeling Power Company	4063994	American Electric Power Company, Inc	0	0
Central Maine Power Company	4056978	Iberdrola, S A	0	0
New York State Electric & Gas Corporation	4004389	Iberdrola, S.A.	0	0
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A	0	0
United Illuminating Company	3004222	Iberdrola, S A	0	0
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation	0	0
Black Hills Power, Inc	4065694	Black Hills Corporation	0	0
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	0	0
Consumers Energy Company	4057081	CMS Energy Corporation	229,760	0
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc.	146,989	0
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc	68,984	0
Rockland Electric Company	4062660	Consolidated Edison, Inc	0	0
DTE Electric Company	4057083	DTE Energy Company	313,033	0
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	0	0
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	0	0
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	0	0
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation	0	0
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation	0	0
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	0	0
El Paso Electric Company	4056994		77,000	0
Kansas City Power & Light Company	4072456	Eversource Energy	72,000	0
Kansas Gas and Electric Company	4057089	Eversource Energy	0	0
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy	175,900	0
Westar Energy (KPL)	4082573	Eversource Energy	189,100	0
Connecticut Light and Power Company	4056992	Eversource Energy	0	0
NSTAR Electric Company	4008369	Eversource Energy	0	0
Public Service Company of New Hampshire	4057022	Eversource Energy	0	0
Western Massachusetts Electric Company	4057035	Eversource Energy	0	0
Hawaiian Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc	NA	0
Hawaiian Electric Company, Inc.	4057001	Hawaiian Electric Industries, Inc.	NA	0
Mau Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	NA	0
Florida Power & Light Company	4056997	NextEra Energy, Inc	1,329,000	0
NorthWestern Corporation	4057053		269,738	0
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	0	0
Otter Tail Power Company	4147257	Otter Tail Corporation	102,220	0
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	31,800	0
Public Service Company of New Mexico	4073320	PNM Resources, Inc	0	0
Portland General Electric Company	4057019		0	0
Alabama Power Company	4014956	Southern Company	0	0
Georgia Power Company	4004152	Southern Company	400,000	0
Gulf Power Company	4057000	Southern Company	0	0
Mississippi Power Company	4057010	Southern Company	4,165	0
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	NA	0
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc	59,000	0
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	120,800	0
Northern States Power Company - MN	4057754	Xcel Energy Inc	0	0
Northern States Power Company - WI	4061925	Xcel Energy Inc.	92,000	0
Public Service Company of Colorado	4057094	Xcel Energy Inc.	0	0
Southwestern Public Service Company	4057027	Xcel Energy Inc	0	0

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Notes Payable (\$000) 201304 2017Q2
ALLETE (Minnesota Power)	4061513	ALLETE, Inc.	0
Superior Water, Light and Power Company	4063281	ALLETE, Inc.	0
Interstate Power and Light Company	4057087	Alliant Energy Corporation	0
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	212,500
Ameren Illinois Company	4272394	Ameren Corporation	158,700
Union Electric Company	4057102	Ameren Corporation	60,000
AEP Texas Central Company	4056979	American Electric Power Company, Inc.	NA
AEP Texas North Company	4057034	American Electric Power Company, Inc.	NA
AEP Texas Inc.	4056935	American Electric Power Company, Inc.	0
Appalachian Power Company	4056972	American Electric Power Company, Inc.	0
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc.	0
Kentucky Power Company	4057006	American Electric Power Company, Inc.	0
Kingsport Power Company	4060895	American Electric Power Company, Inc.	0
Ohio Power Company	4057015	American Electric Power Company, Inc.	0
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc.	0
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc.	0
Wheeling Power Company	4063994	American Electric Power Company, Inc.	0
Central Maine Power Company	4056978	Iberdrola, S.A.	0
New York State Electric & Gas Corporation	4004389	Iberdrola, S.A.	0
Rochester Gas and Electric Corporation	4057096	Iberdrola, S.A.	0
United Illuminating Company	3004222	Iberdrola, S.A.	0
Black Hills Colorado Electric, Inc.	4215172	Black Hills Corporation	0
Black Hills Power, Inc.	4065694	Black Hills Corporation	0
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	0
Consumers Energy Company	4057081	CMS Energy Corporation	0
Consolidated Edison Company of New York, Inc.	4057080	Consolidated Edison, Inc.	749,601
Orange and Rockland Utilities, Inc.	4057093	Consolidated Edison, Inc.	48,981
Rockland Electric Company	4062660	Consolidated Edison, Inc.	0
DTE Electric Company	4057083	DTE Energy Company	327,487
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	0
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	0
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	0
Duke Energy Kentucky, Inc.	4057103	Duke Energy Corporation	0
Duke Energy Ohio, Inc.	4057079	Duke Energy Corporation	0
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	0
El Paso Electric Company	4056994		140,000
Kansas City Power & Light Company	4072456	Eversource Energy, Inc.	171,800
Kansas Gas and Electric Company	4057089	Eversource Energy, Inc.	0
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy, Inc.	252,800
Westar Energy (KPL)	4082573	Eversource Energy, Inc.	329,200
Connecticut Light and Power Company	4056992	Eversource Energy	0
NSTAR Electric Company	4008369	Eversource Energy	0
Public Service Company of New Hampshire	4057022	Eversource Energy	0
Western Massachusetts Electric Company	4057035	Eversource Energy	0
Hawaiian Electric Light Company, Inc.	4060446	Hawaiian Electric Industries, Inc.	NA
Hawaiian Electric Company, Inc.	4057001	Hawaiian Electric Industries, Inc.	NA
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc.	NA
Florida Power & Light Company	4056997	NextEra Energy, Inc.	1,250,200
NorthWestern Corporation	4057053		303,658
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	0
Otter Tail Power Company	4147257	Otter Tail Corporation	58,000
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	385,700
Public Service Company of New Mexico	4073320	PNM Resources, Inc.	38,000
Portland General Electric Company	4057019		0
Alabama Power Company	4014956	Southern Company	0
Georgia Power Company	4004152	Southern Company	800,000
Gulf Power Company	4057000	Southern Company	0
Mississippi Power Company	4057010	Southern Company	16,626
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc.	NA
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc.	74,986
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc.	132,000
Northern States Power Company - MN	4057754	Xcel Energy Inc	83,000
Northern States Power Company - WI	4061925	Xcel Energy Inc	46,000
Public Service Company of Colorado	4057094	Xcel Energy Inc	0
Southwestern Public Service Company	4057027	Xcel Energy Inc	106,000

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Notes Payable (\$000) 201304	2017Q1
ALLETE (Minnesota Power)	4061513	ALLETE, Inc		0
Superior Water, Light and Power Company	4063281	ALLETE, Inc		0
Interstate Power and Light Company	4057087	Alliant Energy Corporation		9,200
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation		91,200
Ameren Illinois Company	4272394	Ameren Corporation		68,000
Union Electric Company	4057102	Ameren Corporation		36,100
AEP Texas Central Company	4056979	American Electric Power Company, Inc		NA
AEP Texas North Company	4057034	American Electric Power Company, Inc		NA
AEP Texas Inc.	4056935	American Electric Power Company, Inc		0
Appalachian Power Company	4056972	American Electric Power Company, Inc		0
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc		0
Kentucky Power Company	4057006	American Electric Power Company, Inc		0
Kingsport Power Company	4060895	American Electric Power Company, Inc		0
Ohio Power Company	4057015	American Electric Power Company, Inc		0
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc		0
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc.		0
Wheeling Power Company	4063994	American Electric Power Company, Inc		0
Central Maine Power Company	4056978	Iberdrola, S.A.		0
New York State Electric & Gas Corporation	4004389	Iberdrola, S.A.		0
Rochester Gas and Electric Corporation	4057096	Iberdrola, S.A.		0
United Illuminating Company	3004222	Iberdrola, S.A.		0
Black Hills Colorado Electric, Inc.	4215172	Black Hills Corporation		0
Black Hills Power, Inc	4065694	Black Hills Corporation		0
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation		0
Consumers Energy Company	4057081	CMS Energy Corporation		0
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc		444,906
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc		57,985
Rockland Electric Company	4062660	Consolidated Edison, Inc		0
DTE Electric Company	4057083	DTE Energy Company		61,173
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation		0
Duke Energy Florida, LLC	4056998	Duke Energy Corporation		0
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation		0
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation		0
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation		0
Duke Energy Progress, LLC	4004192	Duke Energy Corporation		0
El Paso Electric Company	4056994			94,000
Kansas City Power & Light Company	4072456	Evergy, Inc		195,300
Kansas Gas and Electric Company	4057089	Evergy, Inc		0
KCP&L Greater Missouri Operations Company	4000843	Evergy, Inc		259,400
Westar Energy (KPL)	4082573	Evergy, Inc		226,300
Connecticut Light and Power Company	4056992	Eversource Energy		0
NSTAR Electric Company	4008369	Eversource Energy		174,500
Public Service Company of New Hampshire	4057022	Eversource Energy		0
Western Massachusetts Electric Company	4057035	Eversource Energy		0
Hawaiian Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc		NA
Hawaiian Electric Company, Inc	4057001	Hawaiian Electric Industries, Inc.		NA
Mau Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc		NA
Florida Power & Light Company	4056997	NextEra Energy, Inc		1,474,000
NorthWestern Corporation	4057053			228,901
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp		0
Otter Tail Power Company	4147257	Otter Tail Corporation		46,351
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation		116,497
Public Service Company of New Mexico	4073320	PNM Resources, Inc		16,200
Portland General Electric Company	4057019			0
Alabama Power Company	4014956	Southern Company		0
Georgia Power Company	4004152	Southern Company		0
Gulf Power Company	4057000	Southern Company		100,000
Mississippi Power Company	4057010	Southern Company		35,560
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc		NA
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc.		34,997
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc.		131,000
Northern States Power Company - MN	4057754	Xcel Energy Inc		39,000
Northern States Power Company - WI	4061925	Xcel Energy Inc		33,000
Public Service Company of Colorado	4057094	Xcel Energy Inc.		31,000
Southwestern Public Service Company	4057027	Xcel Energy Inc		111,000

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Notes Payable to Associated Companies (\$000) 2013Q6	2018Q4
ALLETE (Minnesota Power)	4061513	ALLETE, Inc		0
Superior Water, Light and Power Company	4063281	ALLETE, Inc		1,800
Interstate Power and Light Company	4057087	Alliant Energy Corporation		0
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation		7,728
Ameren Illinois Company	4272394	Ameren Corporation		0
Union Electric Company	4057102	Ameren Corporation		0
AEP Texas Central Company	4056979	American Electric Power Company, Inc		NA
AEP Texas North Company	4057034	American Electric Power Company, Inc.		NA
AEP Texas Inc.	4056935	American Electric Power Company, Inc		216,042
Appalachian Power Company	4056972	American Electric Power Company, Inc		205,641
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc		1,063
Kentucky Power Company	4057006	American Electric Power Company, Inc		27,871
Kingsport Power Company	4060895	American Electric Power Company, Inc		14,948
Ohio Power Company	4057015	American Electric Power Company, Inc		114,094
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc		105,451
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc		0
Wheeling Power Company	4063994	American Electric Power Company, Inc		0
Central Maine Power Company	4056978	Iberdrola, S.A		0
New York State Electric & Gas Corporation	4004389	Iberdrola, S.A		40,375
Rochester Gas and Electric Corporation	4057096	Iberdrola, S.A		0
United Illuminating Company	3004222	Iberdrola, S.A		0
Black Hills Colorado Electric, Inc.	4215172	Black Hills Corporation		66,826
Black Hills Power, Inc	4065694	Black Hills Corporation		38,847
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation		19,060
Consumers Energy Company	4057081	CMS Energy Corporation		25,913
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc.		0
Orange and Rockland Utilities, Inc.	4057093	Consolidated Edison, Inc		20,350
Rockland Electric Company	4062660	Consolidated Edison, Inc		0
DTE Electric Company	4057083	DTE Energy Company		22,452
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation		438,690
Duke Energy Florida, LLC	4056998	Duke Energy Corporation		108,258
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation		166,718
Duke Energy Kentucky, Inc.	4057103	Duke Energy Corporation		38,875
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation		234,906
Duke Energy Progress, LLC	4004192	Duke Energy Corporation		293,651
El Paso Electric Company	4056994			0
Kansas City Power & Light Company	4072456	Eversource Energy, Inc.		0
Kansas Gas and Electric Company	4057089	Eversource Energy, Inc		0
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy, Inc		19,330
Westar Energy (KPL)	4082573	Eversource Energy, Inc.		0
Connecticut Light and Power Company	4056992	Eversource Energy		0
NSTAR Electric Company	4008369	Eversource Energy		0
Public Service Company of New Hampshire	4057022	Eversource Energy		57,000
Western Massachusetts Electric Company	4057035	Eversource Energy		NA
Hawaii Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc.		NA
Hawaiian Electric Company, Inc.	4057001	Hawaiian Electric Industries, Inc		NA
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc		NA
Florida Power & Light Company	4056997	NextEra Energy, Inc		0
NorthWestern Corporation	4057053			0
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp		0
Otter Tail Power Company	4147257	Otter Tail Corporation		0
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation		0
Public Service Company of New Mexico	4073320	PNM Resources, Inc		19,800
Portland General Electric Company	4057019			0
Alabama Power Company	4014956	Southern Company		0
Georgia Power Company	4004152	Southern Company		294,425
Gulf Power Company	4057000	Southern Company		0
Mississippi Power Company	4057010	Southern Company		0
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc		42,502
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc		0
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc		0
Northern States Power Company - MN	4057754	Xcel Energy Inc		1,450
Northern States Power Company - WI	4061925	Xcel Energy Inc		0
Public Service Company of Colorado	4057094	Xcel Energy Inc		9,390
Southwestern Public Service Company	4057027	Xcel Energy Inc		0

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Notes Payable to Associated Companies (\$000) 201306	2018Q3
ALLETE (Minnesota Power)	4061513	ALLETE, Inc.		0
Superior Water, Light and Power Company	4063281	ALLETE, Inc		0
Interstate Power and Light Company	4057087	Alliant Energy Corporation		0
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation		7,522
Ameren Illinois Company	4272394	Ameren Corporation		45,250
Union Electric Company	4057102	Ameren Corporation		0
AEP Texas Central Company	4056979	American Electric Power Company, Inc		NA
AEP Texas North Company	4057034	American Electric Power Company, Inc		NA
AEP Texas Inc	4056935	American Electric Power Company, Inc		77,806
Appalachian Power Company	4056972	American Electric Power Company, Inc		98,508
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc		0
Kentucky Power Company	4057006	American Electric Power Company, Inc.		12,059
Kingsport Power Company	4060895	American Electric Power Company, Inc		10,183
Ohio Power Company	4057015	American Electric Power Company, Inc		242,902
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc		22,004
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc.		0
Wheeling Power Company	4063994	American Electric Power Company, Inc		0
Central Maine Power Company	4056978	Iberdrola, S A		61,525
New York State Electric & Gas Corporation	4004389	Iberdrola, S.A		13,375
Rochester Gas and Electric Corporation	4057096	Iberdrola, S.A		0
United Illuminating Company	3004222	Iberdrola, S A		141,130
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation		66,823
Black Hills Power, Inc.	4065694	Black Hills Corporation		13,973
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation		13,619
Consumers Energy Company	4057081	CMS Energy Corporation		25,655
Consolidated Edison Company of New York, Inc.	4057080	Consolidated Edison, Inc		0
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc		20,350
Rockland Electric Company	4062660	Consolidated Edison, Inc		0
DTE Electric Company	4057083	DTE Energy Company		93,290
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation		803,772
Duke Energy Florida, LLC	4056998	Duke Energy Corporation		0
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation		200,522
Duke Energy Kentucky, Inc.	4057103	Duke Energy Corporation		102,357
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation		166,132
Duke Energy Progress, LLC	4004192	Duke Energy Corporation		0
El Paso Electric Company	4056994			0
Kansas City Power & Light Company	4072456	Eversource Energy, Inc		0
Kansas Gas and Electric Company	4057089	Eversource Energy, Inc		0
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy, Inc		38,930
Westar Energy (KPL)	4082573	Eversource Energy, Inc		0
Connecticut Light and Power Company	4056992	Eversource Energy		45,900
NSTAR Electric Company	4008369	Eversource Energy		0
Public Service Company of New Hampshire	4057022	Eversource Energy		46,600
Western Massachusetts Electric Company	4057035	Eversource Energy		NA
Hawaii Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc.		NA
Hawaiian Electric Company, Inc.	4057001	Hawaiian Electric Industries, Inc		NA
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc		NA
Florida Power & Light Company	4056997	NextEra Energy, Inc		0
NorthWestern Corporation	4057053			0
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp		0
Otter Tail Power Company	4147257	Otter Tail Corporation		0
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation		0
Public Service Company of New Mexico	4073320	PNM Resources, Inc		0
Portland General Electric Company	4057019			0
Alabama Power Company	4014956	Southern Company		0
Georgia Power Company	4004152	Southern Company		102,180
Gulf Power Company	4057000	Southern Company		49,976
Mississippi Power Company	4057010	Southern Company		0
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc		33,502
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc.		0
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc.		0
Northern States Power Company - MN	4057754	Xcel Energy Inc		1,450
Northern States Power Company - WI	4061925	Xcel Energy Inc		0
Public Service Company of Colorado	4057094	Xcel Energy Inc		8,530
Southwestern Public Service Company	4057027	Xcel Energy Inc		23,000

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Notes Payable to Associated Companies (\$000) 201306	2018Q2
ALLETE (Minnesota Power)	4061513	ALLETE, Inc		0
Superior Water, Light and Power Company	4063281	ALLETE, Inc		0
Interstate Power and Light Company	4057087	Alliant Energy Corporation		0
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation		7,322
Ameren Illinois Company	4272394	Ameren Corporation		31,275
Union Electric Company	4057102	Ameren Corporation		0
AEP Texas Central Company	4056979	American Electric Power Company, Inc		NA
AEP Texas North Company	4057034	American Electric Power Company, Inc.		NA
AEP Texas Inc.	4056935	American Electric Power Company, Inc		0
Appalachian Power Company	4056972	American Electric Power Company, Inc		172,705
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc		0
Kentucky Power Company	4057006	American Electric Power Company, Inc		15,435
Kingsport Power Company	4060895	American Electric Power Company, Inc		8,582
Ohio Power Company	4057015	American Electric Power Company, Inc		213,858
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc.		118,439
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc		119,910
Wheeling Power Company	4063994	American Electric Power Company, Inc		0
Central Maine Power Company	4056978	Iberdrola, S A		57,125
New York State Electric & Gas Corporation	4004389	Iberdrola, S A		91,350
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A		0
United Illuminating Company	3004222	Iberdrola, S A		193,455
Black Hills Colorado Electric, Inc.	4215172	Black Hills Corporation		66,837
Black Hills Power, Inc	4065694	Black Hills Corporation		15,063
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation		14,603
Consumers Energy Company	4057081	CMS Energy Corporation		25,655
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc		0
Orange and Rockland Utilities, Inc.	4057093	Consolidated Edison, Inc		20,350
Rockland Electric Company	4062660	Consolidated Edison, Inc		0
DTE Electric Company	4057083	DTE Energy Company		14,996
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation		740,036
Duke Energy Florida, LLC	4056998	Duke Energy Corporation		0
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation		221,037
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation		74,892
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation		143,953
Duke Energy Progress, LLC	4004192	Duke Energy Corporation		540,122
El Paso Electric Company	4056994			0
Kansas City Power & Light Company	4072456	Eversource Energy, Inc.		0
Kansas Gas and Electric Company	4057089	Eversource Energy, Inc		0
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy, Inc		33,400
Westar Energy (KPL)	4082573	Eversource Energy, Inc		0
Connecticut Light and Power Company	4056992	Eversource Energy		24,000
NSTAR Electric Company	4008369	Eversource Energy		0
Public Service Company of New Hampshire	4057022	Eversource Energy		118,700
Western Massachusetts Electric Company	4057035	Eversource Energy		NA
Hawaii Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc		NA
Hawaiian Electric Company, Inc.	4057001	Hawaiian Electric Industries, Inc.		NA
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc		NA
Florida Power & Light Company	4056997	NextEra Energy, Inc		0
NorthWestern Corporation	4057053			0
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp		0
Otter Tail Power Company	4147257	Otter Tail Corporation		0
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation		0
Public Service Company of New Mexico	4073320	PNM Resources, Inc		4,900
Portland General Electric Company	4057019			0
Alabama Power Company	4014956	Southern Company		0
Georgia Power Company	4004152	Southern Company		480,000
Gulf Power Company	4057000	Southern Company		89,938
Mississippi Power Company	4057010	Southern Company		0
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc		10,202
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc		0
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc		0
Northern States Power Company - MN	4057754	Xcel Energy Inc		63,450
Northern States Power Company - WI	4061925	Xcel Energy Inc.		0
Public Service Company of Colorado	4057094	Xcel Energy Inc		8,830
Southwestern Public Service Company	4057027	Xcel Energy Inc		100,000

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Notes Payable to Associated Companies (\$000) 201306	2018Q1
ALLETE (Minnesota Power)	4061513	ALLETE, Inc.		0
Superior Water, Light and Power Company	4063281	ALLETE, Inc.		4,000
Interstate Power and Light Company	4057087	Alliant Energy Corporation		0
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation		7,127
Ameren Illinois Company	4272394	Ameren Corporation		0
Union Electric Company	4057102	Ameren Corporation		0
AEP Texas Central Company	4056979	American Electric Power Company, Inc		NA
AEP Texas North Company	4057034	American Electric Power Company, Inc		NA
AEP Texas Inc	4056935	American Electric Power Company, Inc		232,729
Appalachian Power Company	4056972	American Electric Power Company, Inc		245,892
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc		314,084
Kentucky Power Company	4057006	American Electric Power Company, Inc		19,793
Kingsport Power Company	4060895	American Electric Power Company, Inc		8,061
Ohio Power Company	4057015	American Electric Power Company, Inc		0
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc		179,142
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc		148,612
Wheeling Power Company	4063994	American Electric Power Company, Inc		0
Central Maine Power Company	4056978	Iberdrola, S A		0
New York State Electric & Gas Corporation	4004389	Iberdrola, S A		308,450
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A		0
United Illuminating Company	3004222	Iberdrola, S A		158,600
Black Hills Colorado Electric, Inc.	4215172	Black Hills Corporation		66,839
Black Hills Power, Inc	4065694	Black Hills Corporation		13,643
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation		12,566
Consumers Energy Company	4057081	CMS Energy Corporation		25,268
Consolidated Edison Company of New York, Inc.	4057080	Consolidated Edison, Inc.		0
Orange and Rockland Utilities, Inc.	4057093	Consolidated Edison, Inc		20,350
Rockland Electric Company	4062660	Consolidated Edison, Inc		0
DTE Electric Company	4057083	DTE Energy Company		80,177
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation		44,993
Duke Energy Florida, LLC	4056998	Duke Energy Corporation		0
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation		148,671
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation		32,007
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation		97,637
Duke Energy Progress, LLC	4004192	Duke Energy Corporation		354,253
El Paso Electric Company	4056994			0
Kansas City Power & Light Company	4072456	Eversy, Inc		0
Kansas Gas and Electric Company	4057089	Eversy, Inc		0
KCP&L Greater Missouri Operations Company	4000843	Eversy, Inc		27,869
Westar Energy (KPL)	4082573	Eversy, Inc		0
Connecticut Light and Power Company	4056992	Eversource Energy		0
NSTAR Electric Company	4008369	Eversource Energy		0
Public Service Company of New Hampshire	4057022	Eversource Energy		271,300
Western Massachusetts Electric Company	4057035	Eversource Energy		NA
Hawaii Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc.		NA
Hawaiian Electric Company, Inc	4057001	Hawaiian Electric Industries, Inc		NA
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc		NA
Florida Power & Light Company	4056997	NextEra Energy, Inc		0
NorthWestern Corporation	4057053			0
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp		0
Otter Tail Power Company	4147257	Otter Tail Corporation		0
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation		0
Public Service Company of New Mexico	4073320	PNM Resources, Inc		54,600
Portland General Electric Company	4057019			0
Alabama Power Company	4014956	Southern Company		0
Georgia Power Company	4004152	Southern Company		0
Gulf Power Company	4057000	Southern Company		60,972
Mississippi Power Company	4057010	Southern Company		0
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc		15,102
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc.		0
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc		0
Northern States Power Company - MN	4057754	Xcel Energy Inc		1,450
Northern States Power Company - WI	4061925	Xcel Energy Inc		0
Public Service Company of Colorado	4057094	Xcel Energy Inc		55,850
Southwestern Public Service Company	4057027	Xcel Energy Inc		0

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Notes Payable to Associated Companies (\$000) 201306	2017Q4
ALLETE (Minnesota Power)	4061513	ALLETE, Inc.		0
Superior Water, Light and Power Company	4063281	ALLETE, Inc.		7,000
Interstate Power and Light Company	4057087	Alliant Energy Corporation		0
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation		7,094
Ameren Illinois Company	4272394	Ameren Corporation		0
Union Electric Company	4057102	Ameren Corporation		0
AEP Texas Central Company	4056979	American Electric Power Company, Inc		NA
AEP Texas North Company	4057034	American Electric Power Company, Inc		NA
AEP Texas Inc.	4056935	American Electric Power Company, Inc		0
Appalachian Power Company	4056972	American Electric Power Company, Inc		186,019
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc		211,574
Kentucky Power Company	4057006	American Electric Power Company, Inc		9,641
Kingsport Power Company	4060895	American Electric Power Company, Inc		0
Ohio Power Company	4057015	American Electric Power Company, Inc		87,811
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc		149,560
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc		118,680
Wheeling Power Company	4063994	American Electric Power Company, Inc		0
Central Maine Power Company	4056978	Iberdrola, S.A		0
New York State Electric & Gas Corporation	4004389	Iberdrola, S.A		124,643
Rochester Gas and Electric Corporation	4057096	Iberdrola, S.A		0
United Illuminating Company	3004222	Iberdrola, S.A		168,900
Black Hills Colorado Electric, Inc.	4215172	Black Hills Corporation		66,834
Black Hills Power, Inc	4065694	Black Hills Corporation		13,487
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation		12,788
Consumers Energy Company	4057081	CMS Energy Corporation		25,268
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc.		0
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc		20,350
Rockland Electric Company	4062660	Consolidated Edison, Inc		0
DTE Electric Company	4057083	DTE Energy Company		16,025
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation		103,631
Duke Energy Florida, LLC	4056998	Duke Energy Corporation		0
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation		160,806
Duke Energy Kentucky, Inc.	4057103	Duke Energy Corporation		0
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation		29,356
Duke Energy Progress, LLC	4004192	Duke Energy Corporation		239,986
El Paso Electric Company	4056994			0
Kansas City Power & Light Company	4072456	Eversource Energy, Inc.		0
Kansas Gas and Electric Company	4057089	Eversource Energy, Inc		0
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy, Inc		22,338
Westar Energy (KPL)	4082573	Eversource Energy, Inc		0
Connecticut Light and Power Company	4056992	Eversource Energy		69,500
NSTAR Electric Company	4008369	Eversource Energy		0
Public Service Company of New Hampshire	4057022	Eversource Energy		262,900
Western Massachusetts Electric Company	4057035	Eversource Energy		175,700
Hawaii Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc		NA
Hawaiian Electric Company, Inc.	4057001	Hawaiian Electric Industries, Inc		NA
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc		NA
Florida Power & Light Company	4056997	NextEra Energy, Inc		0
NorthWestern Corporation	4057053			0
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp		0
Otter Tail Power Company	4147257	Otter Tail Corporation		0
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation		0
Public Service Company of New Mexico	4073320	PNM Resources, Inc		0
Portland General Electric Company	4057019			0
Alabama Power Company	4014956	Southern Company		0
Georgia Power Company	4004152	Southern Company		0
Gulf Power Company	4057000	Southern Company		44,983
Mississippi Power Company	4057010	Southern Company		0
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc		38,102
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc.		0
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc		0
Northern States Power Company - MN	4057754	Xcel Energy Inc		86,450
Northern States Power Company - WI	4061925	Xcel Energy Inc.		0
Public Service Company of Colorado	4057094	Xcel Energy Inc		7,200
Southwestern Public Service Company	4057027	Xcel Energy Inc		0

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Notes Payable to Associated Companies (\$000) 201306	2017Q3
ALLETE (Minnesota Power)	4061513	ALLETE, Inc.		0
Superior Water, Light and Power Company	4063281	ALLETE, Inc		8,500
Interstate Power and Light Company	4057087	Alliant Energy Corporation		0
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation		6,907
Ameren Illinois Company	4272394	Ameren Corporation		10,750
Union Electric Company	4057102	Ameren Corporation		0
AEP Texas Central Company	4056979	American Electric Power Company, Inc		NA
AEP Texas North Company	4057034	American Electric Power Company, Inc		NA
AEP Texas Inc	4056935	American Electric Power Company, Inc.		0
Appalachian Power Company	4056972	American Electric Power Company, Inc		69,542
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc		177,515
Kentucky Power Company	4057006	American Electric Power Company, Inc		12,209
Kingsport Power Company	4060895	American Electric Power Company, Inc		3,655
Ohio Power Company	4057015	American Electric Power Company, Inc		167,645
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc		117,976
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc.		48,293
Wheeling Power Company	4063994	American Electric Power Company, Inc		0
Central Maine Power Company	4056978	Iberdrola, S A		0
New York State Electric & Gas Corporation	4004389	Iberdrola, S.A		77,840
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A		0
United Illuminating Company	3004222	Iberdrola, S.A		159,150
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation		66,829
Black Hills Power, Inc	4065694	Black Hills Corporation		0
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation		15,606
Consumers Energy Company	4057081	CMS Energy Corporation		25,318
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc.		0
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc		20,350
Rockland Electric Company	4062660	Consolidated Edison, Inc		0
DTE Electric Company	4057083	DTE Energy Company		0
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation		468,178
Duke Energy Florida, LLC	4056998	Duke Energy Corporation		0
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation		0
Duke Energy Kentucky, Inc.	4057103	Duke Energy Corporation		0
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation		0
Duke Energy Progress, LLC	4004192	Duke Energy Corporation		0
El Paso Electric Company	4056994			0
Kansas City Power & Light Company	4072456	Eversource Energy, Inc		0
Kansas Gas and Electric Company	4057089	Eversource Energy, Inc		0
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy, Inc		35,409
Westar Energy (KPL)	4082573	Eversource Energy, Inc		0
Connecticut Light and Power Company	4056992	Eversource Energy		0
NSTAR Electric Company	4008369	Eversource Energy		0
Public Service Company of New Hampshire	4057022	Eversource Energy		202,300
Western Massachusetts Electric Company	4057035	Eversource Energy		96,900
Hawaii Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc		NA
Hawaiian Electric Company, Inc.	4057001	Hawaiian Electric Industries, Inc		NA
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc		NA
Florida Power & Light Company	4056997	NextEra Energy, Inc		0
NorthWestern Corporation	4057053			0
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp		0
Otter Tail Power Company	4147257	Otter Tail Corporation		0
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation		0
Public Service Company of New Mexico	4073320	PNM Resources, Inc		0
Portland General Electric Company	4057019			0
Alabama Power Company	4014956	Southern Company		0
Georgia Power Company	4004152	Southern Company		0
Gulf Power Company	4057000	Southern Company		0
Mississippi Power Company	4057010	Southern Company		0
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc		NA
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc.		0
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc		0
Northern States Power Company - MN	4057754	Xcel Energy Inc		51,450
Northern States Power Company - WI	4061925	Xcel Energy Inc		0
Public Service Company of Colorado	4057094	Xcel Energy Inc		7,200
Southwestern Public Service Company	4057027	Xcel Energy Inc		0

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Notes Payable to Associated Companies (\$000) 201306	2017Q2
ALLETE (Minnesota Power)	4061513	ALLETE, Inc.		0
Superior Water, Light and Power Company	4063281	ALLETE, Inc.		7,500
Interstate Power and Light Company	4057087	Alliant Energy Corporation		0
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation		6,725
Ameren Illinois Company	4272394	Ameren Corporation		0
Union Electric Company	4057102	Ameren Corporation		0
AEP Texas Central Company	4056979	American Electric Power Company, Inc		NA
AEP Texas North Company	4057034	American Electric Power Company, Inc		NA
AEP Texas Inc	4056935	American Electric Power Company, Inc.		197,690
Appalachian Power Company	4056972	American Electric Power Company, Inc		124,740
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc		43,448
Kentucky Power Company	4057006	American Electric Power Company, Inc		4,581
Kingsport Power Company	4060895	American Electric Power Company, Inc		9,442
Ohio Power Company	4057015	American Electric Power Company, Inc		190,527
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc		141,353
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc		58,556
Wheeling Power Company	4063994	American Electric Power Company, Inc		0
Central Maine Power Company	4056978	Iberdrola, S A		0
New York State Electric & Gas Corporation	4004389	Iberdrola, S.A		13,500
Rochester Gas and Electric Corporation	4057096	Iberdrola, S.A		0
United Illuminating Company	3004222	Iberdrola, S.A		146,800
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation		71,103
Black Hills Power, Inc	4065694	Black Hills Corporation		0
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation		22,218
Consumers Energy Company	4057081	CMS Energy Corporation		25,318
Consolidated Edison Company of New York, Inc.	4057080	Consolidated Edison, Inc		0
Orange and Rockland Utilities, Inc.	4057093	Consolidated Edison, Inc		20,350
Rockland Electric Company	4062660	Consolidated Edison, Inc		0
DTE Electric Company	4057083	DTE Energy Company		23,534
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation		534,413
Duke Energy Florida, LLC	4056998	Duke Energy Corporation		0
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation		0
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation		24,544
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation		0
Duke Energy Progress, LLC	4004192	Duke Energy Corporation		632,769
El Paso Electric Company	4056994			0
Kansas City Power & Light Company	4072456	Eversource Energy		0
Kansas Gas and Electric Company	4057089	Eversource Energy		0
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy		29,226
Westar Energy (KPL)	4082573	Eversource Energy		0
Connecticut Light and Power Company	4056992	Eversource Energy		101,100
NSTAR Electric Company	4008369	Eversource Energy		0
Public Service Company of New Hampshire	4057022	Eversource Energy		194,100
Western Massachusetts Electric Company	4057035	Eversource Energy		68,700
Hawaii Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc		NA
Hawaiian Electric Company, Inc.	4057001	Hawaiian Electric Industries, Inc.		NA
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc		NA
Florida Power & Light Company	4056997	NextEra Energy, Inc		0
NorthWestern Corporation	4057053			0
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp		1,456
Otter Tail Power Company	4147257	Otter Tail Corporation		0
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation		0
Public Service Company of New Mexico	4073320	PNM Resources, Inc		0
Portland General Electric Company	4057019			0
Alabama Power Company	4014956	Southern Company		0
Georgia Power Company	4004152	Southern Company		428,085
Gulf Power Company	4057000	Southern Company		77,933
Mississippi Power Company	4057010	Southern Company		0
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc		NA
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc		0
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc		0
Northern States Power Company - MN	4057754	Xcel Energy Inc		92,450
Northern States Power Company - WI	4061925	Xcel Energy Inc		0
Public Service Company of Colorado	4057094	Xcel Energy Inc.		7,200
Southwestern Public Service Company	4057027	Xcel Energy Inc		61,000

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Notes Payable to Associated Companies (\$000) 201306	2017Q1
ALLETE (Minnesota Power)	4061513	ALLETE, Inc		0
Superior Water, Light and Power Company	4063281	ALLETE, Inc.		4,500
Interstate Power and Light Company	4057087	Alliant Energy Corporation		0
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation		6,548
Ameren Illinois Company	4272394	Ameren Corporation		0
Union Electric Company	4057102	Ameren Corporation		0
AEP Texas Central Company	4056979	American Electric Power Company, Inc		NA
AEP Texas North Company	4057034	American Electric Power Company, Inc.		NA
AEP Texas Inc.	4056935	American Electric Power Company, Inc		126,479
Appalachian Power Company	4056972	American Electric Power Company, Inc		182,378
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc		286,795
Kentucky Power Company	4057006	American Electric Power Company, Inc		12,172
Kingsport Power Company	4060895	American Electric Power Company, Inc		11,762
Ohio Power Company	4057015	American Electric Power Company, Inc		18,307
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc		163,700
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc		167,894
Wheeling Power Company	4063994	American Electric Power Company, Inc		0
Central Maine Power Company	4056978	Iberdrola, S A		0
New York State Electric & Gas Corporation	4004389	Iberdrola, S.A		67,500
Rochester Gas and Electric Corporation	4057096	Iberdrola, S.A		304,100
United Illuminating Company	3004222	Iberdrola, S.A		29,700
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation		99,165
Black Hills Power, Inc.	4065694	Black Hills Corporation		0
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation		14,998
Consumers Energy Company	4057081	CMS Energy Corporation		25,411
Consolidated Edison Company of New York, Inc.	4057080	Consolidated Edison, Inc.		0
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc		20,350
Rockland Electric Company	4062660	Consolidated Edison, Inc		0
DTE Electric Company	4057083	DTE Energy Company		137,038
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation		337,478
Duke Energy Florida, LLC	4056998	Duke Energy Corporation		0
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation		0
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation		9,227
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation		0
Duke Energy Progress, LLC	4004192	Duke Energy Corporation		501,826
El Paso Electric Company	4056994			0
Kansas City Power & Light Company	4072456	Eversy, Inc		0
Kansas Gas and Electric Company	4057089	Eversy, Inc		0
KCP&L Greater Missouri Operations Company	4000843	Eversy, Inc		23,042
Westar Energy (KPL)	4082573	Eversy, Inc.		0
Connecticut Light and Power Company	4056992	Eversource Energy		3,400
NSTAR Electric Company	4008369	Eversource Energy		0
Public Service Company of New Hampshire	4057022	Eversource Energy		144,900
Western Massachusetts Electric Company	4057035	Eversource Energy		71,400
Hawaii Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc		NA
Hawaiian Electric Company, Inc	4057001	Hawaiian Electric Industries, Inc		NA
Mau Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc		NA
Florida Power & Light Company	4056997	NextEra Energy, Inc		0
NorthWestern Corporation	4057053			0
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp		0
Otter Tail Power Company	4147257	Otter Tail Corporation		0
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation		0
Public Service Company of New Mexico	4073320	PNM Resources, Inc.		0
Portland General Electric Company	4057019			0
Alabama Power Company	4014956	Southern Company		0
Georgia Power Company	4004152	Southern Company		0
Gulf Power Company	4057000	Southern Company		0
Mississippi Power Company	4057010	Southern Company		0
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc		NA
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc.		0
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc.		0
Northern States Power Company - MN	4057754	Xcel Energy Inc		1,450
Northern States Power Company - WI	4061925	Xcel Energy Inc.		0
Public Service Company of Colorado	4057094	Xcel Energy Inc		7,200
Southwestern Public Service Company	4057027	Xcel Energy Inc		0

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Common Equity 2018Q4
ALLETE (Minnesota Power)	4061513	ALLETE, Inc.	2,156,461
Superior Water, Light and Power Company	4063281	ALLETE, Inc.	52,061
Interstate Power and Light Company	4057087	Alliant Energy Corporation	3,034,635
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	2,175,425
Ameren Illinois Company	4272394	Ameren Corporation	3,711,714
Union Electric Company	4057102	Ameren Corporation	4,148,988
AEP Texas Central Company	4056979	American Electric Power Company, Inc	#VALUE!
AEP Texas North Company	4057034	American Electric Power Company, Inc	#VALUE!
AEP Texas Inc	4056935	American Electric Power Company, Inc	2,580,521
Appalachian Power Company	4056972	American Electric Power Company, Inc	4,006,253
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc	2,352,848
Kentucky Power Company	4057006	American Electric Power Company, Inc.	732,879
Kingsport Power Company	4060895	American Electric Power Company, Inc	51,596
Ohio Power Company	4057015	American Electric Power Company, Inc	2,297,416
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc	1,248,093
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc	2,315,251
Wheeling Power Company	4063994	American Electric Power Company, Inc	421,269
Central Maine Power Company	4056978	Iberdrola, S A	1,890,143
New York State Electric & Gas Corporation	4004389	Iberdrola, S A	1,453,804
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A	1,006,097
United Illuminating Company	3004222	Iberdrola, S A	1,099,422
Black Hills Colorado Electric, Inc.	4215172	Black Hills Corporation	397,162
Black Hills Power, Inc	4065694	Black Hills Corporation	404,245
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	235,073
Consumers Energy Company	4057081	CMS Energy Corporation	6,884,117
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc	12,909,970
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc	712,478
Rockland Electric Company	4062660	Consolidated Edison, Inc	287,482
DTE Electric Company	4057083	DTE Energy Company	6,797,686
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	11,687,177
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	6,098,449
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	4,320,251
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation	596,224
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation	3,455,424
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	8,440,734
El Paso Electric Company	4056994		1,183,128
Kansas City Power & Light Company	4072456	Evergy, Inc	2,493,301
Kansas Gas and Electric Company	4057089	Evergy, Inc	2,907,333
KCP&L Greater Missouri Operations Company	4000843	Evergy, Inc	1,178,137
Westar Energy (KPL)	4082573	Evergy, Inc	3,964,902
Connecticut Light and Power Company	4056992	Eversource Energy	4,199,318
NSTAR Electric Company	4008369	Eversource Energy	3,730,155
Public Service Company of New Hampshire	4057022	Eversource Energy	1,302,541
Western Massachusetts Electric Company	4057035	Eversource Energy	#VALUE!
Hawaii Electric Light Company, Inc.	4060446	Hawaiian Electric Industries, Inc	#VALUE!
Hawaiian Electric Company, Inc	4057001	Hawaiian Electric Industries, Inc	#VALUE!
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	#VALUE!
Florida Power & Light Company	4056997	NextEra Energy, Inc	21,021,283
NorthWestern Corporation	4057053		1,942,381
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	3,603,266
Otter Tail Power Company	4147257	Otter Tail Corporation	591,073
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	5,661,007
Public Service Company of New Mexico	4073320	PNM Resources, Inc	1,397,359
Portland General Electric Company	4057019		2,506,442
Alabama Power Company	4014956	Southern Company	7,470,618
Georgia Power Company	4004152	Southern Company	14,323,174
Gulf Power Company	4057000	Southern Company	1,920,031
Mississippi Power Company	4057010	Southern Company	1,609,100
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	133,088
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc.	3,460,847
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	1,779,477
Northern States Power Company - MN	4057754	Xcel Energy Inc	5,573,159
Northern States Power Company - WI	4061925	Xcel Energy Inc.	942,375
Public Service Company of Colorado	4057094	Xcel Energy Inc.	6,298,264
Southwestern Public Service Company	4057027	Xcel Energy Inc.	2,536,626

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Common Equity 2018Q3
ALLETE (Minnesota Power)	4061513	ALLETE, Inc.	2,117,338
Superior Water, Light and Power Company	4063281	ALLETE, Inc.	51,465
Interstate Power and Light Company	4057087	Alliant Energy Corporation	2,842,707
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	2,170,585
Ameren Illinois Company	4272394	Ameren Corporation	3,547,766
Union Electric Company	4057102	Ameren Corporation	4,275,069
AEP Texas Central Company	4056979	American Electric Power Company, Inc	#VALUE!
AEP Texas North Company	4057034	American Electric Power Company, Inc	#VALUE!
AEP Texas Inc	4056935	American Electric Power Company, Inc	2,421,039
Appalachian Power Company	4056972	American Electric Power Company, Inc	3,971,961
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc	2,342,507
Kentucky Power Company	4057006	American Electric Power Company, Inc	719,769
Kingsport Power Company	4060895	American Electric Power Company, Inc	51,443
Ohio Power Company	4057015	American Electric Power Company, Inc	2,209,318
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc	1,267,426
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc.	2,313,693
Wheeling Power Company	4063994	American Electric Power Company, Inc	422,586
Central Maine Power Company	4056978	Iberdrola, S A	1,862,614
New York State Electric & Gas Corporation	4004389	Iberdrola, S A	1,433,399
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A	977,231
United Illuminating Company	3004222	Iberdrola, S A	1,022,400
Black Hills Colorado Electric, Inc.	4215172	Black Hills Corporation	395,272
Black Hills Power, Inc.	4065694	Black Hills Corporation	394,518
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	228,165
Consumers Energy Company	4057081	CMS Energy Corporation	6,886,034
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc	12,869,012
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc	689,802
Rockland Electric Company	4062660	Consolidated Edison, Inc	285,366
DTE Electric Company	4057083	DTE Energy Company	6,532,137
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	11,544,512
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	6,054,203
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	4,242,432
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation	588,296
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation	3,397,125
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	8,306,831
El Paso Electric Company	4056994		1,216,430
Kansas City Power & Light Company	4072456	Eversource Energy	2,494,577
Kansas Gas and Electric Company	4057089	Eversource Energy, Inc	2,898,040
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy, Inc	1,225,822
Westar Energy (KPL)	4082573	Eversource Energy, Inc	4,007,623
Connecticut Light and Power Company	4056992	Eversource Energy	3,921,604
NSTAR Electric Company	4008369	Eversource Energy	3,695,100
Public Service Company of New Hampshire	4057022	Eversource Energy	1,147,930
Western Massachusetts Electric Company	4057035	Eversource Energy	#VALUE!
Hawaii Electric Light Company, Inc.	4060446	Hawaiian Electric Industries, Inc.	#VALUE!
Hawaiian Electric Company, Inc	4057001	Hawaiian Electric Industries, Inc	#VALUE!
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	#VALUE!
Florida Power & Light Company	4056997	NextEra Energy, Inc	21,115,342
NorthWestern Corporation	4057053		1,899,900
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp.	3,581,331
Otter Tail Power Company	4147257	Otter Tail Corporation	588,830
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	5,625,283
Public Service Company of New Mexico	4073320	PNM Resources, Inc	1,537,574
Portland General Electric Company	4057019		2,486,240
Alabama Power Company	4014956	Southern Company	7,579,031
Georgia Power Company	4004152	Southern Company	13,850,732
Gulf Power Company	4057000	Southern Company	1,604,255
Mississippi Power Company	4057010	Southern Company	1,442,751
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	122,594
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc	3,514,261
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	1,805,634
Northern States Power Company - MN	4057754	Xcel Energy Inc	5,533,123
Northern States Power Company - WI	4061925	Xcel Energy Inc.	907,506
Public Service Company of Colorado	4057094	Xcel Energy Inc.	6,238,765
Southwestern Public Service Company	4057027	Xcel Energy Inc	2,380,749

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Common Equity 2018Q2
ALLETE (Minnesota Power)	4061513	ALLETE, Inc.	2,109,457
Superior Water, Light and Power Company	4063281	ALLETE, Inc	53,091
Interstate Power and Light Company	4057087	Alliant Energy Corporation	2,658,272
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	2,077,475
Ameren Illinois Company	4272394	Ameren Corporation	3,484,577
Union Electric Company	4057102	Ameren Corporation	4,156,678
AEP Texas Central Company	4056979	American Electric Power Company, Inc	#VALUE!
AEP Texas North Company	4057034	American Electric Power Company, Inc	#VALUE!
AEP Texas Inc	4056935	American Electric Power Company, Inc.	2,362,916
Appalachian Power Company	4056972	American Electric Power Company, Inc	3,925,919
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc	2,307,947
Kentucky Power Company	4057006	American Electric Power Company, Inc.	708,741
Kingsport Power Company	4060895	American Electric Power Company, Inc	45,591
Ohio Power Company	4057015	American Electric Power Company, Inc	2,233,461
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc	1,219,787
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc	2,243,132
Wheeling Power Company	4063994	American Electric Power Company, Inc	414,045
Central Maine Power Company	4056978	Iberdrola, S A	1,811,424
New York State Electric & Gas Corporation	4004389	Iberdrola, S A	1,272,686
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A	962,185
United Illuminating Company	3004222	Iberdrola, S A	989,652
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation	425,268
Black Hills Power, Inc	4065694	Black Hills Corporation	391,173
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	230,752
Consumers Energy Company	4057081	CMS Energy Corporation	6,850,887
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc	12,624,564
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc	678,956
Rockland Electric Company	4062660	Consolidated Edison, Inc	276,694
DTE Electric Company	4057083	DTE Energy Company	6,341,989
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	11,297,503
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	5,895,296
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	4,217,053
Duke Energy Kentucky, Inc.	4057103	Duke Energy Corporation	569,694
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation	3,300,545
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	8,258,009
El Paso Electric Company	4056994		1,157,139
Kansas City Power & Light Company	4072456	Evergy, Inc	2,433,386
Kansas Gas and Electric Company	4057089	Evergy, Inc	2,828,756
KCP&L Greater Missouri Operations Company	4000843	Evergy, Inc	1,170,437
Westar Energy (KPL)	4082573	Evergy, Inc	3,898,596
Connecticut Light and Power Company	4056992	Eversource Energy	3,822,675
NSTAR Electric Company	4008369	Eversource Energy	3,549,886
Public Service Company of New Hampshire	4057022	Eversource Energy	1,107,003
Western Massachusetts Electric Company	4057035	Eversource Energy	#VALUE!
Hawaii Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc	#VALUE!
Hawaiian Electric Company, Inc	4057001	Hawaiian Electric Industries, Inc	#VALUE!
Mau Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	#VALUE!
Florida Power & Light Company	4056997	NextEra Energy, Inc	19,000,176
NorthWestern Corporation	4057053		1,897,731
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	3,581,106
Otter Tail Power Company	4147257	Otter Tail Corporation	579,841
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	5,285,516
Public Service Company of New Mexico	4073320	PNM Resources, Inc.	1,458,009
Portland General Electric Company	4057019		2,464,719
Alabama Power Company	4014956	Southern Company	7,394,442
Georgia Power Company	4004152	Southern Company	12,702,382
Gulf Power Company	4057000	Southern Company	1,575,428
Mississippi Power Company	4057010	Southern Company	1,397,559
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	119,937
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc	3,490,994
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	1,727,946
Northern States Power Company - MN	4057754	Xcel Energy Inc	5,526,761
Northern States Power Company - WI	4061925	Xcel Energy Inc	894,313
Public Service Company of Colorado	4057094	Xcel Energy Inc	6,129,578
Southwestern Public Service Company	4057027	Xcel Energy Inc	2,159,146

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Common Equity 2018Q1
ALLETE (Minnesota Power)	4061513	ALLETE, Inc	2,098,543
Superior Water, Light and Power Company	4063281	ALLETE, Inc	52,898
Interstate Power and Light Company	4057087	Alliant Energy Corporation	2,518,621
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	1,921,455
Ameren Illinois Company	4272394	Ameren Corporation	3,362,697
Union Electric Company	4057102	Ameren Corporation	3,988,583
AEP Texas Central Company	4056979	American Electric Power Company, Inc	#VALUE!
AEP Texas North Company	4057034	American Electric Power Company, Inc.	#VALUE!
AEP Texas Inc.	4056935	American Electric Power Company, Inc	2,316,060
Appalachian Power Company	4056972	American Electric Power Company, Inc	3,889,499
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc	2,246,372
Kentucky Power Company	4057006	American Electric Power Company, Inc.	694,739
Kingsport Power Company	4060895	American Electric Power Company, Inc.	44,834
Ohio Power Company	4057015	American Electric Power Company, Inc	2,277,504
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc	1,195,941
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc	2,225,376
Wheeling Power Company	4063994	American Electric Power Company, Inc	415,329
Central Maine Power Company	4056978	Iberdrola, S A	1,863,227
New York State Electric & Gas Corporation	4004389	Iberdrola, S A	1,257,244
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A	992,923
United Illuminating Company	3004222	Iberdrola, S A	960,454
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation	422,339
Black Hills Power, Inc.	4065694	Black Hills Corporation	390,021
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	232,069
Consumers Energy Company	4057081	CMS Energy Corporation	6,675,888
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc.	12,662,198
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc	681,470
Rockland Electric Company	4062660	Consolidated Edison, Inc	273,136
DTE Electric Company	4057083	DTE Energy Company	6,293,342
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	11,438,785
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	5,722,954
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	4,199,216
Duke Energy Kentucky, Inc.	4057103	Duke Energy Corporation	524,077
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation	3,149,222
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	8,126,159
El Paso Electric Company	4056994		1,138,269
Kansas City Power & Light Company	4072456	Eversource Energy	2,468,844
Kansas Gas and Electric Company	4057089	Eversource Energy	2,805,834
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy	1,199,076
Westar Energy (KPL)	4082573	Eversource Energy	3,909,712
Connecticut Light and Power Company	4056992	Eversource Energy	3,633,345
NSTAR Electric Company	4008369	Eversource Energy	3,454,346
Public Service Company of New Hampshire	4057022	Eversource Energy	1,385,957
Western Massachusetts Electric Company	4057035	Eversource Energy	#VALUE!
Hawaii Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc	#VALUE!
Hawaiian Electric Company, Inc	4057001	Hawaiian Electric Industries, Inc	#VALUE!
Mau Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	#VALUE!
Florida Power & Light Company	4056997	NextEra Energy, Inc	18,374,364
NorthWestern Corporation	4057053		1,834,622
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	3,487,998
Otter Tail Power Company	4147257	Otter Tail Corporation	569,815
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	5,267,599
Public Service Company of New Mexico	4073320	PNM Resources, Inc	1,430,159
Portland General Electric Company	4057019		2,449,142
Alabama Power Company	4014956	Southern Company	7,328,934
Georgia Power Company	4004152	Southern Company	13,419,690
Gulf Power Company	4057000	Southern Company	1,536,024
Mississippi Power Company	4057010	Southern Company	1,350,363
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	116,904
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc.	3,457,883
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	1,645,450
Northern States Power Company - MN	4057754	Xcel Energy Inc.	5,522,848
Northern States Power Company - WI	4061925	Xcel Energy Inc.	891,987
Public Service Company of Colorado	4057094	Xcel Energy Inc.	5,866,996
Southwestern Public Service Company	4057027	Xcel Energy Inc	2,130,239

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Common Equity 2017Q4
ALLETE (Minnesota Power)	4061513	ALLETE, Inc	2,069,267
Superior Water, Light and Power Company	4063281	ALLETE, Inc.	51,047
Interstate Power and Light Company	4057087	Alliant Energy Corporation	2,515,633
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	1,901,831
Ameren Illinois Company	4272394	Ameren Corporation	3,247,848
Union Electric Company	4057102	Ameren Corporation	4,000,217
AEP Texas Central Company	4056979	American Electric Power Company, Inc	#VALUE!
AEP Texas North Company	4057034	American Electric Power Company, Inc	#VALUE!
AEP Texas Inc	4056935	American Electric Power Company, Inc	2,169,916
Appalachian Power Company	4056972	American Electric Power Company, Inc	3,804,481
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc	2,217,623
Kentucky Power Company	4057006	American Electric Power Company, Inc	670,263
Kingsport Power Company	4060895	American Electric Power Company, Inc	43,517
Ohio Power Company	4057015	American Electric Power Company, Inc	2,310,331
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc	1,215,336
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc.	2,234,770
Wheeling Power Company	4063994	American Electric Power Company, Inc	415,197
Central Maine Power Company	4056978	Iberdrola, S A	1,834,087
New York State Electric & Gas Corporation	4004389	Iberdrola, S A	1,197,260
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A	947,595
United Illuminating Company	3004222	Iberdrola, S A	933,483
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation	439,923
Black Hills Power, Inc	4065694	Black Hills Corporation	394,232
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	237,200
Consumers Energy Company	4057081	CMS Energy Corporation	6,451,911
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc	12,438,861
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc	665,815
Rockland Electric Company	4062660	Consolidated Edison, Inc	272,915
DTE Electric Company	4057083	DTE Energy Company	6,268,943
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	11,365,886
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	5,617,925
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	4,099,984
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation	511,414
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation	3,174,239
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	7,948,667
El Paso Electric Company	4056994		1,160,566
Kansas City Power & Light Company	4072456	Evergy, Inc	2,507,748
Kansas Gas and Electric Company	4057089	Evergy, Inc	2,789,009
KCP&L Greater Missouri Operations Company	4000843	Evergy, Inc	1,189,160
Westar Energy (KPL)	4082573	Evergy, Inc	3,908,122
Connecticut Light and Power Company	4056992	Eversource Energy	3,585,579
NSTAR Electric Company	4008369	Eversource Energy	2,794,008
Public Service Company of New Hampshire	4057022	Eversource Energy	1,350,594
Western Massachusetts Electric Company	4057035	Eversource Energy	652,071
Hawaiian Electric Light Company, Inc.	4060446	Hawaiian Electric Industries, Inc	#VALUE!
Hawaiian Electric Company, Inc	4057001	Hawaiian Electric Industries, Inc.	#VALUE!
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	#VALUE!
Florida Power & Light Company	4056997	NextEra Energy, Inc	17,039,981
NorthWestern Corporation	4057053		1,798,915
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	3,455,703
Otter Tail Power Company	4147257	Otter Tail Corporation	553,828
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	5,256,829
Public Service Company of New Mexico	4073320	PNM Resources, Inc.	1,422,173
Portland General Electric Company	4057019		2,416,205
Alabama Power Company	4014956	Southern Company	6,822,546
Georgia Power Company	4004152	Southern Company	11,931,474
Gulf Power Company	4057000	Southern Company	1,530,833
Mississippi Power Company	4057010	Southern Company	1,357,324
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	49,699
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc	3,383,923
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	1,625,930
Northern States Power Company - MN	4057754	Xcel Energy Inc	5,475,570
Northern States Power Company - WI	4061925	Xcel Energy Inc	876,589
Public Service Company of Colorado	4057094	Xcel Energy Inc.	5,828,323
Southwestern Public Service Company	4057027	Xcel Energy Inc	2,130,364

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Common Equity 2017Q3
ALLETE (Minnesota Power)	4061513	ALLETE, Inc.	2,043,517
Superior Water, Light and Power Company	4063281	ALLETE, Inc.	45,497
Interstate Power and Light Company	4057087	Alliant Energy Corporation	2,438,289
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	1,828,625
Ameren Illinois Company	4272394	Ameren Corporation	3,163,139
Union Electric Company	4057102	Ameren Corporation	4,036,848
AEP Texas Central Company	4056979	American Electric Power Company, Inc	#VALUE!
AEP Texas North Company	4057034	American Electric Power Company, Inc	#VALUE!
AEP Texas Inc	4056935	American Electric Power Company, Inc	2,004,586
Appalachian Power Company	4056972	American Electric Power Company, Inc	3,740,810
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc	2,202,878
Kentucky Power Company	4057006	American Electric Power Company, Inc	662,164
Kingsport Power Company	4060895	American Electric Power Company, Inc	42,381
Ohio Power Company	4057015	American Electric Power Company, Inc	2,217,840
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc	1,232,465
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc	2,246,702
Wheeling Power Company	4063994	American Electric Power Company, Inc	412,952
Central Maine Power Company	4056978	Iberdrola, S A	1,846,545
New York State Electric & Gas Corporation	4004389	Iberdrola, S A	1,165,472
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A	921,620
United Illuminating Company	3004222	Iberdrola, S A	908,900
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation	427,149
Black Hills Power, Inc	4065694	Black Hills Corporation	877,373
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	229,257
Consumers Energy Company	4057081	CMS Energy Corporation	6,495,526
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc	12,394,984
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc	666,402
Rockland Electric Company	4062660	Consolidated Edison, Inc	268,701
DTE Electric Company	4057083	DTE Energy Company	6,138,527
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	11,159,413
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	5,273,638
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	4,063,369
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation	464,112
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation	3,109,552
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	7,780,061
El Paso Electric Company	4056994		1,154,057
Kansas City Power & Light Company	4072456	Eversource Energy	2,535,026
Kansas Gas and Electric Company	4057089	Eversource Energy	2,793,644
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy	1,327,711
Westar Energy (KPL)	4082573	Eversource Energy	3,929,004
Connecticut Light and Power Company	4056992	Eversource Energy	3,539,024
NSTAR Electric Company	4008369	Eversource Energy	2,738,232
Public Service Company of New Hampshire	4057022	Eversource Energy	1,463,998
Western Massachusetts Electric Company	4057035	Eversource Energy	695,394
Hawaii Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc	#VALUE!
Hawaiian Electric Company, Inc.	4057001	Hawaiian Electric Industries, Inc	#VALUE!
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	#VALUE!
Florida Power & Light Company	4056997	NextEra Energy, Inc	17,346,278
NorthWestern Corporation	4057053		1,726,190
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	3,412,887
Otter Tail Power Company	4147257	Otter Tail Corporation	551,518
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	5,237,812
Public Service Company of New Mexico	4073320	PNM Resources, Inc	1,511,717
Portland General Electric Company	4057019		2,402,289
Alabama Power Company	4014956	Southern Company	6,855,331
Georgia Power Company	4004152	Southern Company	12,002,685
Gulf Power Company	4057000	Southern Company	1,588,782
Mississippi Power Company	4057010	Southern Company	1,913,043
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	#VALUE!
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc	3,387,461
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	1,632,622
Northern States Power Company - MN	4057754	Xcel Energy Inc	5,440,694
Northern States Power Company - WI	4061925	Xcel Energy Inc.	833,293
Public Service Company of Colorado	4057094	Xcel Energy Inc	5,626,852
Southwestern Public Service Company	4057027	Xcel Energy Inc	2,025,733

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Common Equity 2017Q2
ALLETE (Minnesota Power)	4061513	ALLETE, Inc	2,017,816
Superior Water, Light and Power Company	4063281	ALLETE, Inc.	45,021
Interstate Power and Light Company	4057087	Alliant Energy Corporation	2,350,970
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	1,770,143
Ameren Illinois Company	4272394	Ameren Corporation	3,108,155
Union Electric Company	4057102	Ameren Corporation	3,962,623
AEP Texas Central Company	4056979	American Electric Power Company, Inc	#VALUE!
AEP Texas North Company	4057034	American Electric Power Company, Inc	#VALUE!
AEP Texas Inc	4056935	American Electric Power Company, Inc	1,940,007
Appalachian Power Company	4056972	American Electric Power Company, Inc	3,685,236
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc	2,168,869
Kentucky Power Company	4057006	American Electric Power Company, Inc.	664,436
Kingsport Power Company	4060895	American Electric Power Company, Inc	40,942
Ohio Power Company	4057015	American Electric Power Company, Inc	2,135,463
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc	1,203,952
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc	2,200,892
Wheeling Power Company	4063994	American Electric Power Company, Inc	412,605
Central Maine Power Company	4056978	Iberdrola, S A	1,791,470
New York State Electric & Gas Corporation	4004389	Iberdrola, S A.	1,261,179
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A	904,271
United Illuminating Company	3004222	Iberdrola, S A	876,428
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation	427,867
Black Hills Power, Inc	4065694	Black Hills Corporation	390,568
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	230,243
Consumers Energy Company	4057081	CMS Energy Corporation	6,424,897
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc	11,958,312
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc	654,084
Rockland Electric Company	4062660	Consolidated Edison, Inc	263,189
DTE Electric Company	4057083	DTE Energy Company	6,026,643
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	10,942,809
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	5,151,971
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	4,092,810
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation	455,162
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation	3,053,742
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	7,659,343
El Paso Electric Company	4056994		1,104,543
Kansas City Power & Light Company	4072456	Eversource Energy, Inc	2,469,813
Kansas Gas and Electric Company	4057089	Eversource Energy, Inc	2,719,324
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy, Inc	1,297,777
Westar Energy (KPL)	4082573	Eversource Energy, Inc	3,825,529
Connecticut Light and Power Company	4056992	Eversource Energy	3,550,225
NSTAR Electric Company	4008369	Eversource Energy	2,723,067
Public Service Company of New Hampshire	4057022	Eversource Energy	1,430,095
Western Massachusetts Electric Company	4057035	Eversource Energy	687,196
Hawaiian Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc	#VALUE!
Hawaiian Electric Company, Inc.	4057001	Hawaiian Electric Industries, Inc.	#VALUE!
Mau Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	#VALUE!
Florida Power & Light Company	4056997	NextEra Energy, Inc	17,180,445
NorthWestern Corporation	4057053		1,708,597
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp.	3,356,261
Otter Tail Power Company	4147257	Otter Tail Corporation	550,733
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	4,952,062
Public Service Company of New Mexico	4073320	PNM Resources, Inc.	1,448,033
Portland General Electric Company	4057019		2,391,580
Alabama Power Company	4014956	Southern Company	6,702,303
Georgia Power Company	4004152	Southern Company	11,708,919
Gulf Power Company	4057000	Southern Company	1,553,384
Mississippi Power Company	4057010	Southern Company	1,872,464
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	#VALUE!
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc.	3,357,875
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	1,601,829
Northern States Power Company - MN	4057754	Xcel Energy Inc	5,457,955
Northern States Power Company - WI	4061925	Xcel Energy Inc	821,651
Public Service Company of Colorado	4057094	Xcel Energy Inc.	5,456,609
Southwestern Public Service Company	4057027	Xcel Energy Inc	1,985,434

SNLTable			
Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Common Equity 2017Q1
ALLETE (Minnesota Power)	4061513	ALLETE, Inc.	2,002,273
Superior Water, Light and Power Company	4063281	ALLETE, Inc.	44,581
Interstate Power and Light Company	4057087	Alliant Energy Corporation	2,247,128
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	1,763,399
Ameren Illinois Company	4272394	Ameren Corporation	3,051,147
Union Electric Company	4057102	Ameren Corporation	3,954,333
AEP Texas Central Company	4056979	American Electric Power Company, Inc	#VALUE!
AEP Texas North Company	4057034	American Electric Power Company, Inc	#VALUE!
AEP Texas Inc.	4056935	American Electric Power Company, Inc.	1,890,691
Appalachian Power Company	4056972	American Electric Power Company, Inc	3,663,673
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc	2,189,231
Kentucky Power Company	4057006	American Electric Power Company, Inc	671,788
Kingsport Power Company	4060895	American Electric Power Company, Inc	38,400
Ohio Power Company	4057015	American Electric Power Company, Inc.	2,138,473
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc	1,201,210
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc	2,203,706
Wheeling Power Company	4063994	American Electric Power Company, Inc	412,518
Central Maine Power Company	4056978	Iberdrola, S A	1,758,315
New York State Electric & Gas Corporation	4004389	Iberdrola, S A.	1,233,241
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A	816,847
United Illuminating Company	3004222	Iberdrola, S A	977,406
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation	395,916
Black Hills Power, Inc	4065694	Black Hills Corporation	390,257
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	230,463
Consumers Energy Company	4057081	CMS Energy Corporation	6,208,755
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc.	11,991,412
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc	659,235
Rockland Electric Company	4062660	Consolidated Edison, Inc	260,710
DTE Electric Company	4057083	DTE Energy Company	5,995,901
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	10,869,219
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	4,991,028
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	4,136,571
Duke Energy Kentucky, Inc.	4057103	Duke Energy Corporation	449,429
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation	3,049,261
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	7,505,577
El Paso Electric Company	4056994		1,081,492
Kansas City Power & Light Company	4072456	Eversource Energy, Inc	2,493,874
Kansas Gas and Electric Company	4057089	Eversource Energy, Inc	2,690,839
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy, Inc	1,279,187
Westar Energy (KPL)	4082573	Eversource Energy, Inc.	3,805,793
Connecticut Light and Power Company	4056992	Eversource Energy	3,509,785
NSTAR Electric Company	4008369	Eversource Energy	2,690,898
Public Service Company of New Hampshire	4057022	Eversource Energy	1,403,557
Western Massachusetts Electric Company	4057035	Eversource Energy	678,957
Hawaiian Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc	#VALUE!
Hawaiian Electric Company, Inc	4057001	Hawaiian Electric Industries, Inc.	#VALUE!
Mau Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	#VALUE!
Florida Power & Light Company	4056997	NextEra Energy, Inc	16,654,384
NorthWestern Corporation	4057053		1,709,204
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp.	3,269,103
Otter Tail Power Company	4147257	Otter Tail Corporation	550,670
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	4,929,889
Public Service Company of New Mexico	4073320	PNM Resources, Inc.	1,418,435
Portland General Electric Company	4057019		2,387,162
Alabama Power Company	4014956	Southern Company	6,636,621
Georgia Power Company	4004152	Southern Company	11,645,855
Gulf Power Company	4057000	Southern Company	1,550,869
Mississippi Power Company	4057010	Southern Company	2,925,635
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	#VALUE!
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc.	3,333,591
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	1,526,292
Northern States Power Company - MN	4057754	Xcel Energy Inc	5,424,286
Northern States Power Company - WI	4061925	Xcel Energy Inc.	836,216
Public Service Company of Colorado	4057094	Xcel Energy Inc	5,419,148
Southwestern Public Service Company	4057027	Xcel Energy Inc	1,975,060

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Capital 2018Q4	Capital 2018Q3	Capital 2018Q2
ALLETE (Minnesota Power)	4061513	ALLETE, Inc	3,512,850	3,503,968	3,496,327
Superior Water, Light and Power Company	4063281	ALLETE, Inc	93,361	90,965	92,591
Interstate Power and Light Company	4057087	Alliant Energy Corporation	5,720,415	5,726,927	5,267,053
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	4,241,664	4,170,593	4,065,965
Ameren Illinois Company	4272394	Ameren Corporation	7,094,199	6,824,663	6,638,957
Union Electric Company	4057102	Ameren Corporation	7,955,090	8,026,419	8,106,533
AEP Texas Central Company	4056979	American Electric Power Company, Inc	#VALUE!	#VALUE!	#VALUE!
AEP Texas North Company	4057034	American Electric Power Company, Inc.	#VALUE!	#VALUE!	#VALUE!
AEP Texas Inc.	4056935	American Electric Power Company, Inc.	5,903,130	5,605,238	5,469,134
Appalachian Power Company	4056972	American Electric Power Company, Inc.	8,297,191	8,155,596	8,195,788
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc.	5,273,652	5,261,018	5,227,922
Kentucky Power Company	4057006	American Electric Power Company, Inc.	1,630,750	1,601,828	1,594,176
Kingsport Power Company	4060895	American Electric Power Company, Inc.	116,544	111,626	104,173
Ohio Power Company	4057015	American Electric Power Company, Inc	4,088,792	4,129,414	4,124,425
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc.	2,644,106	2,580,030	2,628,863
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc.	4,928,897	5,327,258	4,801,517
Wheeling Power Company	4063994	American Electric Power Company, Inc	771,269	772,586	764,045
Central Maine Power Company	4056978	Iberdrola, S A	2,990,137	2,964,129	2,908,535
New York State Electric & Gas Corporation	4004389	Iberdrola, S A	2,717,513	2,670,070	2,587,294
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A	2,057,959	2,029,083	2,013,573
United Illuminating Company	3004222	Iberdrola, S A.	1,947,382	1,897,030	1,916,607
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation	813,988	812,095	842,105
Black Hills Power, Inc.	4065694	Black Hills Corporation	785,861	751,259	749,003
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	456,133	443,784	447,355
Consumers Energy Company	4057081	CMS Energy Corporation	13,816,202	13,294,719	12,986,412
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc.	28,360,218	27,633,669	27,570,206
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc	1,545,485	1,524,315	1,462,439
Rockland Electric Company	4062660	Consolidated Edison, Inc	287,482	285,366	276,694
DTE Electric Company	4057083	DTE Energy Company	13,517,913	13,219,026	13,029,042
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	23,009,660	22,734,332	22,423,973
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	12,295,814	12,193,126	12,084,035
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	8,278,096	8,236,425	8,231,419
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation	1,186,580	1,142,122	1,096,042
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation	5,309,678	5,182,175	5,062,985
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	16,842,576	16,364,768	16,055,930
El Paso Electric Company	4056994		2,494,149	2,504,452	2,501,162
Kansas City Power & Light Company	4072456	Eergy, Inc.	5,214,758	5,248,293	5,300,210
Kansas Gas and Electric Company	4057089	Eergy, Inc.	3,878,210	3,868,898	3,799,596
KCP&L Greater Missouri Operations Company	4000843	Eergy, Inc.	2,322,581	2,380,266	2,491,651
Westar Energy (KPL)	4082573	Eergy, Inc	7,122,365	7,079,548	7,132,284
Connecticut Light and Power Company	4056992	Eversource Energy	7,474,894	7,243,083	7,122,256
NSTAR Electric Company	4008369	Eversource Energy	6,971,146	6,898,272	6,956,549
Public Service Company of New Hampshire	4057022	Eversource Energy	2,774,890	2,709,362	2,750,768
Western Massachusetts Electric Company	4057035	Eversource Energy	#VALUE!	#VALUE!	#VALUE!
Hawaii Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc	#VALUE!	#VALUE!	#VALUE!
Hawaiian Electric Company, Inc.	4057001	Hawaiian Electric Industries, Inc	#VALUE!	#VALUE!	#VALUE!
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	#VALUE!	#VALUE!	#VALUE!
Florida Power & Light Company	4056997	NextEra Energy, Inc	33,913,584	32,801,776	32,217,968
NorthWestern Corporation	4057053		4,057,018	3,928,537	3,920,368
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	6,773,092	6,751,052	6,601,472
Otter Tail Power Company	4147257	Otter Tail Corporation	1,112,457	1,100,830	1,106,716
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	10,413,881	10,478,926	10,341,117
Public Service Company of New Mexico	4073320	PNM Resources, Inc	3,124,883	3,202,874	3,161,809
Portland General Electric Company	4057019		4,993,824	4,922,210	4,900,675
Alabama Power Company	4014956	Southern Company	15,639,392	15,751,028	15,566,136
Georgia Power Company	4004152	Southern Company	24,563,752	24,289,178	23,588,264
Gulf Power Company	4057000	Southern Company	3,214,628	2,948,729	2,959,765
Mississippi Power Company	4057010	Southern Company	3,196,577	3,186,607	3,285,967
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	325,590	256,096	230,139
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc	6,311,415	6,277,064	6,249,238
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	3,388,152	3,289,000	3,219,623
Northern States Power Company - MN	4057754	Xcel Energy Inc	10,703,973	10,537,679	10,569,025
Northern States Power Company - WI	4061925	Xcel Energy Inc.	1,809,017	1,873,122	1,690,601
Public Service Company of Colorado	4057094	Xcel Energy Inc.	11,500,620	11,132,966	11,323,780
Southwestern Public Service Company	4057027	Xcel Energy Inc	4,725,085	4,287,100	4,239,465

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Capital 2018Q1	Capital 2017Q4	Capital 2017Q3
ALLETE (Minnesota Power)	4061513	ALLETE, Inc	3,475,650	3,446,610	3,421,172
Superior Water, Light and Power Company	4063281	ALLETE, Inc.	84,398	85,547	81,497
Interstate Power and Light Company	4057087	Alliant Energy Corporation	5,045,509	5,000,496	4,711,771
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	3,913,837	3,895,457	3,722,246
Ameren Illinois Company	4272394	Ameren Corporation	6,423,841	6,146,826	5,933,107
Union Electric Company	4057102	Ameren Corporation	7,975,944	7,744,226	7,741,605
AEP Texas Central Company	4056979	American Electric Power Company, Inc	#VALUE!	#VALUE!	#VALUE!
AEP Texas North Company	4057034	American Electric Power Company, Inc	#VALUE!	#VALUE!	#VALUE!
AEP Texas Inc.	4056935	American Electric Power Company, Inc.	5,186,496	4,807,490	4,682,804
Appalachian Power Company	4056972	American Electric Power Company, Inc	8,128,009	7,994,656	7,814,336
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc	5,130,567	4,998,568	4,899,283
Kentucky Power Company	4057006	American Electric Power Company, Inc	1,584,532	1,549,904	1,544,373
Kingsport Power Company	4060895	American Electric Power Company, Inc	102,895	93,517	96,036
Ohio Power Company	4057015	American Electric Power Company, Inc	4,304,516	4,028,005	4,015,257
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc	2,665,756	2,655,605	2,641,184
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc	4,812,374	4,724,387	4,665,824
Wheeling Power Company	4063994	American Electric Power Company, Inc	765,329	765,197	762,952
Central Maine Power Company	4056978	Iberdrola, S A	2,903,209	2,874,106	2,886,520
New York State Electric & Gas Corporation	4004389	Iberdrola, S A	2,614,915	2,520,995	2,492,282
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A.	1,954,506	1,909,218	1,883,183
United Illuminating Company	3004222	Iberdrola, S A	1,852,554	1,835,883	1,831,550
Black Hills Colorado Electric, Inc.	4215172	Black Hills Corporation	839,178	856,757	843,978
Black Hills Power, Inc.	4065694	Black Hills Corporation	746,430	750,484	1,562,900
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	446,635	451,988	446,863
Consumers Energy Company	4057081	CMS Energy Corporation	12,590,402	12,542,707	12,452,167
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc	26,934,537	25,947,200	25,201,421
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc	1,475,920	1,441,301	1,414,889
Rockland Electric Company	4062660	Consolidated Edison, Inc	273,136	272,915	268,701
DTE Electric Company	4057083	DTE Energy Company	12,773,050	12,542,313	12,469,293
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	22,169,958	21,558,410	21,142,043
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	11,463,166	11,407,940	10,663,456
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	8,141,073	8,053,834	7,858,616
Duke Energy Kentucky, Inc.	4057103	Duke Energy Corporation	1,007,528	962,846	915,531
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation	4,864,916	4,821,221	4,726,748
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	15,737,960	15,445,950	15,237,107
El Paso Electric Company	4056994		2,445,293	2,408,591	2,394,083
Kansas City Power & Light Company	4072456	Eergy, Inc	5,301,499	5,269,765	5,201,440
Kansas Gas and Electric Company	4057089	Eergy, Inc	3,776,655	3,759,811	3,764,427
KCP&L Greater Missouri Operations Company	4000843	Eergy, Inc	2,541,559	2,501,037	2,619,259
Westar Energy (KPL)	4082573	Eergy, Inc.	6,944,862	6,929,035	6,863,179
Connecticut Light and Power Company	4056992	Eversource Energy	7,208,922	6,731,865	6,615,806
NSTAR Electric Company	4008369	Eversource Energy	6,784,380	5,422,913	5,179,023
Public Service Company of New Hampshire	4057022	Eversource Energy	2,663,752	2,619,975	2,672,767
Western Massachusetts Electric Company	4057035	Eversource Energy	#VALUE!	1,396,081	1,360,838
Hawaiian Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc	#VALUE!	#VALUE!	#VALUE!
Hawaiian Electric Company, Inc	4057001	Hawaiian Electric Industries, Inc	#VALUE!	#VALUE!	#VALUE!
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	#VALUE!	#VALUE!	#VALUE!
Florida Power & Light Company	4056997	NextEra Energy, Inc	31,571,699	30,368,294	28,861,790
NorthWestern Corporation	4057053		3,864,259	3,925,108	3,802,540
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	6,508,256	6,475,852	6,432,919
Otter Tail Power Company	4147257	Otter Tail Corporation	1,105,953	1,078,199	1,065,738
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	10,160,641	9,892,704	9,905,691
Public Service Company of New Mexico	4073320	PNM Resources, Inc.	3,150,032	3,127,219	3,176,936
Portland General Electric Company	4057019		4,885,087	4,852,136	4,788,209
Alabama Power Company	4014956	Southern Company	15,249,008	14,497,451	14,302,316
Georgia Power Company	4004152	Southern Company	24,941,222	23,982,318	24,240,006
Gulf Power Company	4057000	Southern Company	2,891,296	2,870,018	2,890,261
Mississippi Power Company	4057010	Southern Company	3,440,697	3,454,646	4,047,273
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	182,006	137,801	#VALUE!
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc	6,183,864	6,260,303	6,111,501
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	3,099,295	3,093,602	3,052,868
Northern States Power Company - MN	4057754	Xcel Energy Inc	10,502,835	10,560,285	10,470,125
Northern States Power Company - WI	4061925	Xcel Energy Inc	1,680,207	1,653,742	1,591,647
Public Service Company of Colorado	4057094	Xcel Energy Inc	10,504,647	10,322,051	10,120,301
Southwestern Public Service Company	4057027	Xcel Energy Inc	3,988,525	3,978,618	3,873,953

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	Capital	Capital
			2017Q2	2017Q1
ALLETE (Minnesota Power)	4061513	ALLETE, Inc	3,410,625	3,410,312
Superior Water, Light and Power Company	4063281	ALLETE, Inc.	80,021	76,581
Interstate Power and Light Company	4057087	Alliant Energy Corporation	4,619,281	4,483,069
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	3,652,449	3,524,885
Ameren Illinois Company	4272394	Ameren Corporation	5,856,831	5,708,981
Union Electric Company	4057102	Ameren Corporation	7,727,228	7,721,208
AEP Texas Central Company	4056979	American Electric Power Company, Inc	#VALUE!	#VALUE!
AEP Texas North Company	4057034	American Electric Power Company, Inc	#VALUE!	#VALUE!
AEP Texas Inc.	4056935	American Electric Power Company, Inc.	4,119,968	3,999,368
Appalachian Power Company	4056972	American Electric Power Company, Inc	7,825,730	7,788,302
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc	4,730,727	4,706,223
Kentucky Power Company	4057006	American Electric Power Company, Inc	1,538,989	1,553,891
Kingsport Power Company	4060895	American Electric Power Company, Inc	90,384	90,162
Ohio Power Company	4057015	American Electric Power Company, Inc	3,955,678	3,786,383
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc	2,636,082	2,655,720
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc	4,630,169	4,727,213
Wheeling Power Company	4063994	American Electric Power Company, Inc	762,605	762,518
Central Maine Power Company	4056978	Iberdrola, S A	2,831,441	2,798,282
New York State Electric & Gas Corporation	4004389	Iberdrola, S A	2,523,646	2,549,705
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A	1,865,824	1,782,481
United Illuminating Company	3004222	Iberdrola, S A	1,826,728	1,810,606
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation	848,970	845,081
Black Hills Power, Inc	4065694	Black Hills Corporation	733,331	733,019
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	454,461	447,461
Consumers Energy Company	4057081	CMS Energy Corporation	12,153,518	11,943,196
Consolidated Edison Company of New York, Inc.	4057080	Consolidated Edison, Inc	25,366,976	24,596,858
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc	1,382,558	1,396,703
Rockland Electric Company	4062660	Consolidated Edison, Inc	263,189	260,710
DTE Electric Company	4057083	DTE Energy Company	12,255,401	12,071,647
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	20,992,018	20,721,251
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	10,791,578	10,630,421
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	7,887,930	7,931,548
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation	841,113	820,050
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation	4,670,507	4,665,596
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	14,947,384	14,664,693
El Paso Electric Company	4056994		2,440,870	2,371,820
Kansas City Power & Light Company	4072456	Eversource Energy	5,266,938	5,265,217
Kansas Gas and Electric Company	4057089	Eversource Energy	3,690,088	3,661,585
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy	2,660,042	2,641,868
Westar Energy (KPL)	4082573	Eversource Energy	6,899,666	6,776,893
Connecticut Light and Power Company	4056992	Eversource Energy	6,581,092	6,442,734
NSTAR Electric Company	4008369	Eversource Energy	5,163,795	4,956,331
Public Service Company of New Hampshire	4057022	Eversource Energy	2,700,647	2,624,892
Western Massachusetts Electric Company	4057035	Eversource Energy	1,324,674	1,319,369
Hawaiian Electric Light Company, Inc.	4060446	Hawaiian Electric Industries, Inc.	#VALUE!	#VALUE!
Hawaiian Electric Company, Inc.	4057001	Hawaiian Electric Industries, Inc	#VALUE!	#VALUE!
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	#VALUE!	#VALUE!
Florida Power & Light Company	4056997	NextEra Energy, Inc	28,616,678	28,313,937
NorthWestern Corporation	4057053		3,818,863	3,744,708
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	6,363,622	6,114,929
Otter Tail Power Company	4147257	Otter Tail Corporation	1,053,733	1,042,021
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	9,673,942	9,382,462
Public Service Company of New Mexico	4073320	PNM Resources, Inc.	3,126,225	3,074,800
Portland General Electric Company	4057019		4,752,485	4,748,056
Alabama Power Company	4014956	Southern Company	14,185,179	14,119,287
Georgia Power Company	4004152	Southern Company	23,942,757	23,127,235
Gulf Power Company	4057000	Southern Company	2,932,697	2,737,652
Mississippi Power Company	4057010	Southern Company	4,021,102	5,946,281
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	#VALUE!	#VALUE!
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc	6,097,429	6,032,683
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	3,033,246	2,956,680
Northern States Power Company - MN	4057754	Xcel Energy Inc	10,517,023	10,348,063
Northern States Power Company - WI	4061925	Xcel Energy Inc.	1,533,972	1,535,471
Public Service Company of Colorado	4057094	Xcel Energy Inc	9,949,778	9,544,685
Southwestern Public Service Company	4057027	Xcel Energy Inc	3,802,925	3,736,488

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	CE Ratio			
			2018Q4	2018Q3	2018Q2	2018Q1
ALLETE (Minnesota Power)	4061513	ALLETE, Inc	61.39%	60.43%	60.33%	60.38%
Superior Water, Light and Power Company	4063281	ALLETE, Inc.	55.76%	56.58%	57.34%	62.68%
Interstate Power and Light Company	4057087	Alliant Energy Corporation	53.05%	49.64%	50.47%	49.92%
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	51.29%	52.04%	51.09%	49.09%
Ameren Illinois Company	4272394	Ameren Corporation	52.32%	51.98%	52.49%	52.35%
Union Electric Company	4057102	Ameren Corporation	52.16%	53.26%	51.28%	50.01%
AEP Texas Central Company	4056979	American Electric Power Company, Inc	NA	NA	NA	NA
AEP Texas North Company	4057034	American Electric Power Company, Inc.	NA	NA	NA	NA
AEP Texas Inc	4056935	American Electric Power Company, Inc.	43.71%	43.19%	43.20%	44.66%
Appalachian Power Company	4056972	American Electric Power Company, Inc.	48.28%	48.70%	47.90%	47.85%
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc	44.62%	44.53%	44.15%	43.78%
Kentucky Power Company	4057006	American Electric Power Company, Inc.	44.94%	44.93%	44.46%	43.85%
Kingsport Power Company	4060895	American Electric Power Company, Inc.	44.27%	46.09%	43.76%	43.57%
Ohio Power Company	4057015	American Electric Power Company, Inc.	56.19%	53.50%	54.15%	52.91%
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc.	47.20%	49.12%	46.40%	44.86%
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc	46.97%	43.43%	46.72%	46.24%
Wheeling Power Company	4063994	American Electric Power Company, Inc	54.62%	54.70%	54.19%	54.27%
Central Maine Power Company	4056978	Iberdrola, S.A	63.21%	62.84%	62.28%	64.18%
New York State Electric & Gas Corporation	4004389	Iberdrola, S.A.	53.50%	53.68%	49.19%	48.08%
Rochester Gas and Electric Corporation	4057096	Iberdrola, S.A	48.89%	48.16%	47.78%	50.80%
United Illuminating Company	3004222	Iberdrola, S.A	56.46%	53.89%	51.64%	51.84%
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation	48.79%	48.67%	50.50%	50.33%
Black Hills Power, Inc	4065694	Black Hills Corporation	51.44%	52.51%	52.23%	52.25%
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	51.54%	51.41%	51.58%	51.96%
Consumers Energy Company	4057081	CMS Energy Corporation	49.83%	51.80%	52.75%	53.02%
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc.	45.52%	46.57%	45.79%	47.01%
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc	46.10%	45.25%	46.43%	46.17%
Rockland Electric Company	4062660	Consolidated Edison, Inc.	100.00%	100.00%	100.00%	100.00%
DTE Electric Company	4057083	DTE Energy Company	50.29%	49.41%	48.68%	49.27%
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	50.79%	50.78%	50.38%	51.60%
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	49.60%	49.65%	48.79%	49.92%
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	52.19%	51.51%	51.23%	51.58%
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation	50.25%	51.51%	51.98%	52.02%
Duke Energy Ohio, Inc.	4057079	Duke Energy Corporation	65.08%	65.55%	65.19%	64.73%
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	50.12%	50.76%	51.43%	51.63%
El Paso Electric Company	4056994		47.44%	48.57%	46.26%	46.55%
Kansas City Power & Light Company	4072456	Eversgy, Inc.	47.81%	47.53%	45.91%	46.57%
Kansas Gas and Electric Company	4057089	Eversgy, Inc	74.97%	74.91%	74.45%	74.29%
KCP&L Greater Missouri Operations Company	4000843	Eversgy, Inc	50.73%	51.50%	46.97%	47.18%
Westar Energy (KPL)	4082573	Eversgy, Inc	55.67%	56.61%	54.66%	56.30%
Connecticut Light and Power Company	4056992	Eversource Energy	56.18%	54.14%	53.67%	50.40%
NSTAR Electric Company	4008369	Eversource Energy	53.51%	53.57%	51.03%	50.92%
Public Service Company of New Hampshire	4057022	Eversource Energy	46.94%	42.37%	40.24%	52.03%
Western Massachusetts Electric Company	4057035	Eversource Energy	NA	NA	NA	NA
Hawaii Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc.	NA	NA	NA	NA
Hawaiian Electric Company, Inc	4057001	Hawaiian Electric Industries, Inc	NA	NA	NA	NA
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	NA	NA	NA	NA
Florida Power & Light Company	4056997	NextEra Energy, Inc	61.98%	64.37%	58.97%	58.20%
NorthWestern Corporation	4057053		47.88%	48.36%	48.41%	47.48%
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	53.20%	53.05%	54.25%	53.59%
Otter Tail Power Company	4147257	Otter Tail Corporation	53.13%	53.49%	52.39%	51.52%
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	54.36%	53.68%	51.11%	51.84%
Public Service Company of New Mexico	4073320	PNM Resources, Inc	44.72%	48.01%	46.11%	45.40%
Portland General Electric Company	4057019		50.19%	50.51%	50.29%	50.14%
Alabama Power Company	4014956	Southern Company	47.77%	48.12%	47.50%	48.06%
Georgia Power Company	4004152	Southern Company	58.31%	57.02%	53.85%	53.81%
Gulf Power Company	4057000	Southern Company	59.73%	54.40%	53.23%	53.13%
Mississippi Power Company	4057010	Southern Company	50.34%	45.28%	42.53%	39.25%
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	40.88%	47.87%	52.12%	64.23%
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc	54.83%	55.99%	55.86%	55.92%
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	52.52%	54.90%	53.67%	53.09%
Northern States Power Company - MN	4057754	Xcel Energy Inc	52.07%	52.51%	52.29%	52.58%
Northern States Power Company - WI	4061925	Xcel Energy Inc	52.09%	48.45%	52.90%	53.09%
Public Service Company of Colorado	4057094	Xcel Energy Inc	54.76%	56.04%	54.13%	55.85%
Southwestern Public Service Company	4057027	Xcel Energy Inc	53.68%	55.53%	50.93%	53.41%

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	CE Ratio	CE Ratio	CE Ratio	CE Ratio
			2017Q4	2017Q3	2017Q2	2017Q1
ALLETE (Minnesota Power)	4061513	ALLETE, Inc.	60.04%	59.73%	59.16%	58.71%
Superior Water, Light and Power Company	4063281	ALLETE, Inc.	59.67%	55.83%	56.26%	58.21%
Interstate Power and Light Company	4057087	Alliant Energy Corporation	50.31%	51.75%	50.89%	50.12%
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	48.82%	49.13%	48.46%	50.03%
Ameren Illinois Company	4272394	Ameren Corporation	52.84%	53.31%	53.07%	53.44%
Union Electric Company	4057102	Ameren Corporation	51.65%	52.14%	51.28%	51.21%
AEP Texas Central Company	4056979	American Electric Power Company, Inc.	NA	NA	NA	NA
AEP Texas North Company	4057034	American Electric Power Company, Inc.	NA	NA	NA	NA
AEP Texas Inc.	4056935	American Electric Power Company, Inc.	45.14%	42.81%	47.09%	47.27%
Appalachian Power Company	4056972	American Electric Power Company, Inc.	47.59%	47.87%	47.09%	47.04%
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc.	44.37%	44.96%	45.85%	46.52%
Kentucky Power Company	4057006	American Electric Power Company, Inc.	43.25%	42.88%	43.17%	43.23%
Kingsport Power Company	4060895	American Electric Power Company, Inc.	46.53%	44.13%	45.30%	47.59%
Ohio Power Company	4057015	American Electric Power Company, Inc.	57.36%	55.24%	53.98%	56.48%
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc.	45.76%	46.66%	45.67%	45.23%
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc.	47.30%	48.15%	47.53%	46.62%
Wheeling Power Company	4063994	American Electric Power Company, Inc.	54.26%	54.13%	54.10%	54.10%
Central Maine Power Company	4056978	Iberdrola, S.A.	63.81%	63.97%	63.27%	62.84%
New York State Electric & Gas Corporation	4004389	Iberdrola, S.A.	47.49%	46.76%	49.97%	48.37%
Rochester Gas and Electric Corporation	4057096	Iberdrola, S.A.	49.63%	48.94%	48.46%	45.83%
United Illuminating Company	3004222	Iberdrola, S.A.	50.85%	49.62%	47.98%	53.98%
Black Hills Colorado Electric, Inc.	4215172	Black Hills Corporation	51.35%	50.61%	50.40%	46.85%
Black Hills Power, Inc.	4065694	Black Hills Corporation	52.53%	56.14%	53.26%	53.24%
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	52.48%	51.30%	50.66%	51.50%
Consumers Energy Company	4057081	CMS Energy Corporation	51.44%	52.16%	52.86%	51.99%
Consolidated Edison Company of New York, Inc.	4057080	Consolidated Edison, Inc.	47.94%	49.18%	47.14%	48.75%
Orange and Rockland Utilities, Inc.	4057093	Consolidated Edison, Inc.	46.20%	47.10%	47.31%	47.20%
Rockland Electric Company	4062660	Consolidated Edison, Inc.	100.00%	100.00%	100.00%	100.00%
DTE Electric Company	4057083	DTE Energy Company	49.98%	49.23%	49.18%	49.67%
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	52.72%	52.78%	52.13%	52.45%
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	49.25%	49.46%	47.74%	46.95%
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	50.91%	51.71%	51.89%	52.15%
Duke Energy Kentucky, Inc.	4057103	Duke Energy Corporation	53.11%	50.69%	54.11%	54.81%
Duke Energy Ohio, Inc.	4057079	Duke Energy Corporation	65.84%	65.79%	65.38%	65.36%
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	51.46%	51.06%	51.24%	51.18%
El Paso Electric Company	4056994		48.18%	48.20%	45.25%	45.60%
Kansas City Power & Light Company	4072456	Eversource Energy	47.59%	48.74%	46.89%	47.37%
Kansas Gas and Electric Company	4057089	Eversource Energy	74.18%	74.21%	73.69%	73.49%
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy	47.55%	50.69%	48.79%	48.42%
Westar Energy (KPL)	4082573	Eversource Energy	56.40%	57.25%	55.45%	56.16%
Connecticut Light and Power Company	4056992	Eversource Energy	53.26%	53.49%	53.95%	54.48%
NSTAR Electric Company	4008369	Eversource Energy	51.52%	52.87%	52.73%	54.29%
Public Service Company of New Hampshire	4057022	Eversource Energy	51.55%	54.77%	52.95%	53.47%
Western Massachusetts Electric Company	4057035	Eversource Energy	46.71%	51.10%	51.88%	51.46%
Hawaiian Electric Light Company, Inc.	4060446	Hawaiian Electric Industries, Inc.	NA	NA	NA	NA
Hawaiian Electric Company, Inc.	4057001	Hawaiian Electric Industries, Inc.	NA	NA	NA	NA
Mau Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc.	NA	NA	NA	NA
Florida Power & Light Company	4056997	NextEra Energy, Inc.	56.11%	60.10%	60.04%	58.82%
NorthWestern Corporation	4057053		45.83%	45.40%	44.74%	45.64%
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp.	53.36%	53.05%	52.74%	53.46%
Otter Tail Power Company	4147257	Otter Tail Corporation	51.37%	51.75%	52.26%	52.85%
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	53.14%	52.88%	51.19%	52.54%
Public Service Company of New Mexico	4073320	PNM Resources, Inc.	45.48%	47.58%	46.32%	46.13%
Portland General Electric Company	4057019		49.80%	50.17%	50.32%	50.28%
Alabama Power Company	4014956	Southern Company	47.06%	47.93%	47.25%	47.00%
Georgia Power Company	4004152	Southern Company	49.75%	49.52%	48.90%	50.36%
Gulf Power Company	4057000	Southern Company	53.34%	54.97%	52.97%	56.65%
Mississippi Power Company	4057010	Southern Company	39.29%	47.27%	46.57%	49.20%
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc.	36.07%	NA	NA	NA
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc.	54.05%	55.43%	55.07%	55.26%
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc.	52.56%	53.48%	52.81%	51.62%
Northern States Power Company - MN	4057754	Xcel Energy Inc.	51.85%	51.96%	51.90%	52.42%
Northern States Power Company - WI	4061925	Xcel Energy Inc.	53.01%	52.35%	53.56%	54.46%
Public Service Company of Colorado	4057094	Xcel Energy Inc.	56.46%	55.60%	54.84%	56.78%
Southwestern Public Service Company	4057027	Xcel Energy Inc.	53.55%	52.29%	52.21%	52.86%

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	LTD Ratio	LTD Ratio	LTD Ratio	LTD Ratio
			2018Q4	2018Q3	2018Q2	2018Q1
ALLETE (Minnesota Power)	4061513	ALLETE, Inc.	38 61%	39 57%	39 67%	39 62%
Superior Water, Light and Power Company	4063281	ALLETE, Inc.	42.31%	43.42%	42 66%	32 58%
Interstate Power and Light Company	4057087	Alliant Energy Corporation	46 07%	50 36%	49 53%	50 08%
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	46 04%	46 85%	48 08%	49 94%
Ameren Illinois Company	4272394	Ameren Corporation	46.66%	45.76%	47 04%	44 16%
Union Electric Company	4057102	Ameren Corporation	47 16%	46 74%	48 72%	46 45%
AEP Texas Central Company	4056979	American Electric Power Company, Inc	NA	NA	NA	NA
AEP Texas North Company	4057034	American Electric Power Company, Inc	NA	NA	NA	NA
AEP Texas Inc	4056935	American Electric Power Company, Inc.	52 63%	55 42%	56 80%	50 86%
Appalachian Power Company	4056972	American Electric Power Company, Inc.	49 24%	50 09%	49 99%	49 12%
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc.	55 36%	55 47%	55 85%	50 09%
Kentucky Power Company	4057006	American Electric Power Company, Inc	53 35%	54 31%	54.57%	54 91%
Kingsport Power Company	4060895	American Electric Power Company, Inc	42 90%	44 79%	48 00%	48 59%
Ohio Power Company	4057015	American Electric Power Company, Inc.	41 02%	40 62%	40 66%	47 09%
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc.	48 81%	50 02%	49 09%	48 42%
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc	53 03%	56 57%	50 79%	50 67%
Wheeling Power Company	4063994	American Electric Power Company, Inc	45 38%	45 30%	45 81%	45 73%
Central Maine Power Company	4056978	Iberdrola, S A	36 79%	35 09%	35 76%	35 82%
New York State Electric & Gas Corporation	4004389	Iberdrola, S.A	45 02%	45 82%	47 28%	40.12%
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A	51 11%	51 84%	52 24%	49 20%
United Illuminating Company	3004222	Iberdrola, S A	43 54%	38 67%	38 27%	39 59%
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation	43 00%	43 10%	41 56%	41 71%
Black Hills Power, Inc	4065694	Black Hills Corporation	43 62%	45 63%	45 76%	45 92%
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	44 29%	45 52%	45 15%	45 23%
Consumers Energy Company	4057081	CMS Energy Corporation	49 28%	45 91%	47 05%	46 78%
Consolidated Edison Company of New York, Inc.	4057080	Consolidated Edison, Inc	50 27%	49 80%	52.22%	49 60%
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc	49 12%	48 17%	45 07%	44 66%
Rockland Electric Company	4062660	Consolidated Edison, Inc	0 00%	0.00%	0 00%	0 00%
DTE Electric Company	4057083	DTE Energy Company	48 39%	49.48%	50 20%	47 12%
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	47 30%	45.68%	46.32%	48.20%
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	49 52%	50.35%	51 21%	50 08%
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	45 80%	46.06%	46.08%	46 59%
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation	46 48%	39 53%	41.19%	44 81%
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation	30 50%	31 24%	31 97%	33.26%
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	48.14%	49.24%	45.20%	46 11%
El Paso Electric Company	4056994		51 64%	51 43%	51.50%	47.56%
Kansas City Power & Light Company	4072456	Eergy, Inc.	48 80%	48 48%	48 01%	47 99%
Kansas Gas and Electric Company	4057089	Eergy, Inc.	25 03%	25 09%	25 55%	25 71%
KCP&L Greater Missouri Operations Company	4000843	Eergy, Inc	41.98%	40.97%	43.31%	42 46%
Westar Energy (KPL)	4082573	Eergy, Inc	38 55%	38 78%	38 49%	39 53%
Connecticut Light and Power Company	4056992	Eversource Energy	43 82%	45 22%	45 99%	49 60%
NSTAR Electric Company	4008369	Eversource Energy	42 50%	42 95%	42 59%	43.67%
Public Service Company of New Hampshire	4057022	Eversource Energy	51 01%	55 91%	55 44%	37 78%
Western Massachusetts Electric Company	4057035	Eversource Energy	NA	NA	NA	NA
Hawaiian Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc.	NA	NA	NA	NA
Hawaiian Electric Company, Inc.	4057001	Hawaiian Electric Industries, Inc.	NA	NA	NA	NA
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	NA	NA	NA	NA
Florida Power & Light Company	4056997	NextEra Energy, Inc	34 31%	35 00%	37 96%	36 86%
NorthWestern Corporation	4057053		52.12%	51.64%	51.59%	52 52%
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	46 80%	46 95%	45 75%	46.41%
Otter Tail Power Company	4147257	Otter Tail Corporation	46 02%	46 51%	46 26%	46 29%
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	45 64%	46 32%	44 05%	45 64%
Public Service Company of New Mexico	4073320	PNM Resources, Inc	53 29%	51.99%	52.67%	52 87%
Portland General Electric Company	4057019		49.81%	49 49%	49 71%	49 86%
Alabama Power Company	4014956	Southern Company	52 23%	51 86%	52 47%	50 31%
Georgia Power Company	4004152	Southern Company	40 49%	42 56%	44 11%	46 19%
Gulf Power Company	4057000	Southern Company	40 27%	43 90%	43.73%	44 77%
Mississippi Power Company	4057010	Southern Company	49 65%	54 72%	54 43%	52 03%
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	46.07%	39 05%	43 45%	27 47%
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc	43 03%	38 50%	38.67%	43.11%
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	39 09%	35 71%	36 48%	37 90%
Northern States Power Company - MN	4057754	Xcel Energy Inc	46 52%	47 25%	47 11%	47 40%
Northern States Power Company - WI	4061925	Xcel Energy Inc	45 09%	51 55%	45 33%	45 60%
Public Service Company of Colorado	4057094	Xcel Energy Inc	42 48%	43 88%	45 79%	42 71%
Southwestern Public Service Company	4057027	Xcel Energy Inc	45 43%	43 11%	43 60%	46 34%

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	LTD Ratio	LTD Ratio	LTD Ratio	LTD Ratio
			2017Q4	2017Q3	2017Q2	2017Q1
ALLETE (Minnesota Power)	4061513	ALLETE, Inc	39 96%	40 27%	40 84%	41 29%
Superior Water, Light and Power Company	4063281	ALLETE, Inc.	32.15%	33 74%	34 37%	35 91%
Interstate Power and Light Company	4057087	Alliant Energy Corporation	49 69%	48 17%	49 11%	49 67%
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	50 35%	44 65%	45 53%	47 20%
Ameren Illinois Company	4272394	Ameren Corporation	46 15%	43 66%	44 22%	45 36%
Union Electric Company	4057102	Ameren Corporation	47 84%	47 86%	47 94%	48 32%
AEP Texas Central Company	4056979	American Electric Power Company, Inc	NA	NA	NA	NA
AEP Texas North Company	4057034	American Electric Power Company, Inc	NA	NA	NA	NA
AEP Texas Inc	4056935	American Electric Power Company, Inc	54.86%	57.19%	48.11%	49.56%
Appalachian Power Company	4056972	American Electric Power Company, Inc.	50 09%	51 24%	51 31%	50 62%
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc	51 40%	51 41%	53 24%	47 39%
Kentucky Power Company	4057006	American Electric Power Company, Inc	56.13%	56 33%	56 53%	55.98%
Kingsport Power Company	4060895	American Electric Power Company, Inc	53 47%	52 06%	44 26%	44 36%
Ohio Power Company	4057015	American Electric Power Company, Inc	40 46%	40 59%	41 20%	43 04%
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc.	48 60%	48 87%	48.97%	48 60%
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc	50.19%	50 81%	51 20%	49.83%
Wheeling Power Company	4063994	American Electric Power Company, Inc	45 74%	45 87%	45 90%	45 90%
Central Maine Power Company	4056978	Iberdrola, S A	36 18%	36 03%	36 73%	37 16%
New York State Electric & Gas Corporation	4004389	Iberdrola, S A	41 61%	50 11%	49 49%	48 98%
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A	50 36%	51 06%	51 54%	37 11%
United Illuminating Company	3004222	Iberdrola, S A	39 95%	41 69%	43 99%	44 38%
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation	40 85%	41 47%	41 23%	41 42%
Black Hills Power, Inc	4065694	Black Hills Corporation	45 67%	43 86%	46 74%	46 76%
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	44 69%	45 20%	44 45%	45 14%
Consumers Energy Company	4057081	CMS Energy Corporation	47 00%	45 79%	46 93%	47 80%
Consolidated Edison Company of New York, Inc.	4057080	Consolidated Edison, Inc.	51.48%	50 23%	49.90%	49.44%
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc	45 73%	46 59%	47 68%	47.19%
Rockland Electric Company	4062660	Consolidated Edison, Inc	0 00%	0 00%	0 00%	0 00%
DTE Electric Company	4057083	DTE Energy Company	47 98%	48 26%	47 96%	48 69%
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	46 80%	45 00%	45.33%	45 92%
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	50 75%	50 54%	52 26%	53 05%
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	47 10%	48 29%	48 11%	47 85%
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation	46 89%	49 31%	42 97%	44 07%
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation	33 55%	34 21%	34 62%	34 64%
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	46.99%	48.94%	44.52%	45.40%
El Paso Electric Company	4056994		48 29%	48 58%	49.01%	50 44%
Kansas City Power & Light Company	4072456	Eversource Energy	49 23%	49 88%	49 85%	48 93%
Kansas Gas and Electric Company	4057089	Eversource Energy	25 82%	25 79%	26 31%	26 51%
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy	43.19%	41.24%	40.61%	40.89%
Westar Energy (KPL)	4082573	Eversource Energy	39 62%	40 00%	39 78%	40 50%
Connecticut Light and Power Company	4056992	Eversource Energy	45 70%	46 51%	44 52%	45 47%
NSTAR Electric Company	4008369	Eversource Energy	44 16%	47 13%	47 27%	42 19%
Public Service Company of New Hampshire	4057022	Eversource Energy	38 42%	37 66%	39 86%	41 01%
Western Massachusetts Electric Company	4057035	Eversource Energy	40 71%	41 78%	42 94%	43 13%
Hawaiian Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc.	NA	NA	NA	NA
Hawaiian Electric Company, Inc.	4057001	Hawaiian Electric Industries, Inc	NA	NA	NA	NA
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	NA	NA	NA	NA
Florida Power & Light Company	4056997	NextEra Energy, Inc	37 51%	35 29%	35 59%	35 97%
NorthWestern Corporation	4057053		46 03%	47 51%	47 31%	48 24%
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	46.64%	46.95%	47.24%	46.54%
Otter Tail Power Company	4147257	Otter Tail Corporation	38 21%	38 66%	42 23%	42 71%
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	46 86%	46 80%	44 82%	46 21%
Public Service Company of New Mexico	4073320	PNM Resources, Inc	53 25%	52 42%	52 47%	53 34%
Portland General Electric Company	4057019		50 20%	49 83%	49 68%	49 72%
Alabama Power Company	4014956	Southern Company	52 92%	52 07%	52 75%	53 00%
Georgia Power Company	4004152	Southern Company	49 62%	48 83%	45 97%	49 64%
Gulf Power Company	4057000	Southern Company	45 09%	45 03%	44.37%	39.70%
Mississippi Power Company	4057010	Southern Company	60 59%	52 63%	53 02%	50 20%
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	36 28%	NA	NA	NA
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc	42.58%	43.61%	43.70%	44 16%
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	37 96%	42 56%	42 84%	43 95%
Northern States Power Company - MN	4057754	Xcel Energy Inc	47 14%	47 54%	46 44%	47 19%
Northern States Power Company - WI	4061925	Xcel Energy Inc	46 33%	41 87%	43 44%	43 39%
Public Service Company of Colorado	4057094	Xcel Energy Inc	43.47%	44 33%	45.09%	42.82%
Southwestern Public Service Company	4057027	Xcel Energy Inc	46 45%	47 71%	43.40%	44 17%

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	STD Ratio	STD Ratio	STD Ratio	STD Ratio
			2018Q4	2018Q3	2018Q2	2018Q1
ALLETE (Minnesota Power)	4061513	ALLETE, Inc	0.00%	0.00%	0.00%	0.00%
Superior Water, Light and Power Company	4063281	ALLETE, Inc.	1.93%	0.00%	0.00%	4.74%
Interstate Power and Light Company	4057087	Alliant Energy Corporation	0.88%	0.00%	0.00%	0.00%
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	2.67%	1.10%	0.83%	0.96%
Ameren Illinois Company	4272394	Ameren Corporation	1.02%	2.25%	0.47%	3.49%
Union Electric Company	4057102	Ameren Corporation	0.69%	0.00%	0.00%	3.54%
AEP Texas Central Company	4056979	American Electric Power Company, Inc	NA	NA	NA	NA
AEP Texas North Company	4057034	American Electric Power Company, Inc	NA	NA	NA	NA
AEP Texas Inc.	4056935	American Electric Power Company, Inc	3.66%	1.39%	0.00%	4.49%
Appalachian Power Company	4056972	American Electric Power Company, Inc	2.48%	1.21%	2.11%	3.03%
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc.	0.02%	0.00%	0.00%	6.12%
Kentucky Power Company	4057006	American Electric Power Company, Inc.	1.71%	0.75%	0.97%	1.25%
Kingsport Power Company	4060895	American Electric Power Company, Inc.	12.83%	9.12%	8.24%	7.83%
Ohio Power Company	4057015	American Electric Power Company, Inc	2.79%	5.88%	5.19%	0.00%
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc.	3.99%	0.85%	4.51%	6.72%
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc	0.00%	0.00%	2.50%	3.09%
Wheeling Power Company	4063994	American Electric Power Company, Inc	0.00%	0.00%	0.00%	0.00%
Central Maine Power Company	4056978	Iberdrola, S A	0.00%	2.08%	1.96%	0.00%
New York State Electric & Gas Corporation	4004389	Iberdrola, S A	1.49%	0.50%	3.53%	11.80%
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A	0.00%	0.00%	-0.02%	0.00%
United Illuminating Company	3004222	Iberdrola, S A	0.00%	7.44%	10.09%	8.56%
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation	8.21%	8.23%	7.94%	7.96%
Black Hills Power, Inc	4065694	Black Hills Corporation	4.94%	1.86%	2.01%	1.83%
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	4.18%	3.07%	3.26%	2.81%
Consumers Energy Company	4057081	CMS Energy Corporation	0.89%	2.30%	0.20%	0.20%
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc.	4.20%	3.63%	1.99%	3.39%
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc.	4.78%	6.58%	8.50%	9.17%
Rockland Electric Company	4062660	Consolidated Edison, Inc.	0.00%	0.00%	0.00%	0.00%
DTE Electric Company	4057083	DTE Energy Company	1.32%	1.10%	1.12%	3.61%
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	1.91%	3.54%	3.30%	0.20%
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	0.88%	0.00%	0.00%	0.00%
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	2.01%	2.43%	2.69%	1.83%
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation	3.28%	8.96%	6.83%	3.18%
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation	4.42%	3.21%	2.84%	2.01%
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	1.74%	0.00%	3.36%	2.25%
El Paso Electric Company	4056994		0.92%	0.00%	2.24%	5.89%
Kansas City Power & Light Company	4072456	Eversource Energy, Inc	3.39%	3.99%	6.08%	5.44%
Kansas Gas and Electric Company	4057089	Eversource Energy, Inc	0.00%	0.00%	0.00%	0.00%
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy, Inc	7.29%	7.53%	9.72%	10.36%
Westar Energy (KPL)	4082573	Eversource Energy, Inc	5.78%	4.61%	6.84%	4.17%
Connecticut Light and Power Company	4056992	Eversource Energy	0.00%	0.63%	0.34%	0.00%
NSTAR Electric Company	4008369	Eversource Energy	4.00%	3.49%	6.38%	5.41%
Public Service Company of New Hampshire	4057022	Eversource Energy	2.05%	1.72%	4.32%	10.18%
Western Massachusetts Electric Company	4057035	Eversource Energy	NA	NA	NA	NA
Hawaiian Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc	NA	NA	NA	NA
Hawaiian Electric Company, Inc	4057001	Hawaiian Electric Industries, Inc	NA	NA	NA	NA
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	NA	NA	NA	NA
Florida Power & Light Company	4056997	NextEra Energy, Inc	3.70%	0.62%	3.06%	4.94%
NorthWestern Corporation	4057053		0.00%	0.00%	0.00%	0.00%
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	0.00%	0.00%	0.00%	0.00%
Otter Tail Power Company	4147257	Otter Tail Corporation	0.84%	0.00%	1.34%	2.18%
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	0.00%	0.00%	4.83%	2.51%
Public Service Company of New Mexico	4073320	PNM Resources, Inc.	1.99%	0.00%	1.22%	1.73%
Portland General Electric Company	4057019		0.00%	0.00%	0.00%	0.00%
Alabama Power Company	4014956	Southern Company	0.00%	0.02%	0.02%	1.63%
Georgia Power Company	4004152	Southern Company	1.20%	0.42%	2.03%	0.00%
Gulf Power Company	4057000	Southern Company	0.00%	1.69%	3.04%	2.11%
Mississippi Power Company	4057010	Southern Company	0.01%	0.00%	3.04%	8.72%
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	13.05%	13.08%	4.43%	8.30%
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc.	2.14%	5.51%	5.47%	0.97%
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	8.39%	9.39%	9.85%	9.01%
Northern States Power Company - MN	4057754	Xcel Energy Inc	1.41%	0.24%	0.60%	0.01%
Northern States Power Company - WI	4061925	Xcel Energy Inc.	2.82%	0.00%	1.77%	1.31%
Public Service Company of Colorado	4057094	Xcel Energy Inc.	2.75%	0.08%	0.08%	1.44%
Southwestern Public Service Company	4057027	Xcel Energy Inc	0.89%	1.35%	5.47%	0.25%

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138	STD Ratio	STD Ratio	STD Ratio	STD Ratio
			2017Q4	2017Q3	2017Q2	2017Q1
ALLETE (Minnesota Power)	4061513	ALLETE, Inc	0.00%	0.00%	0.00%	0.00%
Superior Water, Light and Power Company	4063281	ALLETE, Inc	8.18%	10.43%	9.37%	5.88%
Interstate Power and Light Company	4057087	Alliant Energy Corporation	0.00%	0.08%	0.00%	0.21%
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation	0.82%	6.22%	6.00%	2.77%
Ameren Illinois Company	4272394	Ameren Corporation	1.01%	3.03%	2.71%	1.19%
Union Electric Company	4057102	Ameren Corporation	0.50%	0.00%	0.78%	0.47%
AEP Texas Central Company	4056979	American Electric Power Company, Inc	NA	NA	NA	NA
AEP Texas North Company	4057034	American Electric Power Company, Inc	NA	NA	NA	NA
AEP Texas Inc	4056935	American Electric Power Company, Inc	0.00%	0.00%	4.80%	3.16%
Appalachian Power Company	4056972	American Electric Power Company, Inc	2.33%	0.89%	1.59%	2.34%
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc	4.23%	3.62%	0.92%	6.09%
Kentucky Power Company	4057006	American Electric Power Company, Inc	0.62%	0.79%	0.30%	0.78%
Kingsport Power Company	4060895	American Electric Power Company, Inc	0.00%	3.81%	10.45%	13.05%
Ohio Power Company	4057015	American Electric Power Company, Inc	2.18%	4.18%	4.82%	0.48%
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc.	5.63%	4.47%	5.36%	6.16%
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc.	2.51%	1.04%	1.26%	3.55%
Wheeling Power Company	4063994	American Electric Power Company, Inc	0.00%	0.00%	0.00%	0.00%
Central Maine Power Company	4056978	Iberdrola, S A	0.00%	0.00%	0.00%	0.00%
New York State Electric & Gas Corporation	4004389	Iberdrola, S A	10.90%	3.12%	0.53%	2.65%
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A	0.00%	0.00%	0.00%	17.06%
United Illuminating Company	3004222	Iberdrola, S A	9.20%	8.69%	8.04%	1.64%
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation	7.80%	7.92%	8.38%	11.73%
Black Hills Power, Inc	4065694	Black Hills Corporation	1.80%	0.00%	0.00%	0.00%
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation	2.83%	3.49%	4.89%	3.35%
Consumers Energy Company	4057081	CMS Energy Corporation	1.56%	2.05%	0.21%	0.21%
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc.	0.58%	0.58%	2.96%	1.81%
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc	8.07%	6.31%	5.01%	5.61%
Rockland Electric Company	4062660	Consolidated Edison, Inc.	0.00%	0.00%	0.00%	0.00%
DTE Electric Company	4057083	DTE Energy Company	2.04%	2.51%	2.86%	1.64%
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation	0.48%	2.21%	2.55%	1.63%
Duke Energy Florida, LLC	4056998	Duke Energy Corporation	0.00%	0.00%	0.00%	0.00%
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation	2.00%	0.00%	0.00%	0.00%
Duke Energy Kentucky, Inc	4057103	Duke Energy Corporation	0.00%	0.00%	2.92%	1.13%
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation	0.61%	0.00%	0.00%	0.00%
Duke Energy Progress, LLC	4004192	Duke Energy Corporation	1.55%	0.00%	4.23%	3.42%
El Paso Electric Company	4056994		3.53%	3.22%	5.74%	3.96%
Kansas City Power & Light Company	4072456	Evers, Inc	3.18%	1.38%	3.26%	3.71%
Kansas Gas and Electric Company	4057089	Evers, Inc	0.00%	0.00%	0.00%	0.00%
KCP&L Greater Missouri Operations Company	4000843	Evers, Inc	9.26%	8.07%	10.60%	10.69%
Westar Energy (KPL)	4082573	Evers, Inc	3.98%	2.76%	4.77%	3.34%
Connecticut Light and Power Company	4056992	Eversource Energy	1.03%	0.00%	1.54%	0.05%
NSTAR Electric Company	4008369	Eversource Energy	4.32%	0.00%	0.00%	3.52%
Public Service Company of New Hampshire	4057022	Eversource Energy	10.03%	7.57%	7.19%	5.52%
Western Massachusetts Electric Company	4057035	Eversource Energy	12.59%	7.12%	5.19%	5.41%
Hawaiian Electric Light Company, Inc.	4060446	Hawaiian Electric Industries, Inc	NA	NA	NA	NA
Hawaiian Electric Company, Inc.	4057001	Hawaiian Electric Industries, Inc	NA	NA	NA	NA
Mauui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc	NA	NA	NA	NA
Florida Power & Light Company	4056997	NextEra Energy, Inc	6.38%	4.60%	4.37%	5.21%
NorthWestern Corporation	4057053		8.14%	7.09%	7.95%	6.11%
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp	0.00%	0.00%	0.02%	0.00%
Otter Tail Power Company	4147257	Otter Tail Corporation	10.42%	9.59%	5.50%	4.45%
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation	0.00%	0.32%	3.99%	1.24%
Public Service Company of New Mexico	4073320	PNM Resources, Inc	1.27%	0.00%	1.22%	0.53%
Portland General Electric Company	4057019		0.00%	0.00%	0.00%	0.00%
Alabama Power Company	4014956	Southern Company	0.02%	0.00%	0.00%	0.00%
Georgia Power Company	4004152	Southern Company	0.63%	1.65%	5.13%	0.00%
Gulf Power Company	4057000	Southern Company	1.57%	0.00%	2.66%	3.65%
Mississippi Power Company	4057010	Southern Company	0.12%	0.10%	0.41%	0.60%
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc	27.65%	NA	NA	NA
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc	3.37%	0.97%	1.23%	0.58%
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc	9.48%	3.96%	4.35%	4.43%
Northern States Power Company - MN	4057754	Xcel Energy Inc	1.01%	0.49%	1.67%	0.39%
Northern States Power Company - WI	4061925	Xcel Energy Inc	0.67%	5.78%	3.00%	2.15%
Public Service Company of Colorado	4057094	Xcel Energy Inc.	0.07%	0.07%	0.07%	0.40%
Southwestern Public Service Company	4057027	Xcel Energy Inc	0.00%	0.00%	4.39%	2.97%

SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138
ALLETE (Minnesota Power)	4061513	ALLETE, Inc.
Superior Water, Light and Power Company	4063281	ALLETE, Inc
Interstate Power and Light Company	4057087	Alliant Energy Corporation
Wisconsin Power and Light Company	4008669	Alliant Energy Corporation
Ameren Illinois Company	4272394	Ameren Corporation
Union Electric Company	4057102	Ameren Corporation
AEP Texas Central Company	4056979	American Electric Power Company, Inc
AEP Texas North Company	4057034	American Electric Power Company, Inc
AEP Texas Inc	4056935	American Electric Power Company, Inc.
Appalachian Power Company	4056972	American Electric Power Company, Inc
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc
Kentucky Power Company	4057006	American Electric Power Company, Inc.
Kingsport Power Company	4060895	American Electric Power Company, Inc
Ohio Power Company	4057015	American Electric Power Company, Inc
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc.
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc
Wheeling Power Company	4063994	American Electric Power Company, Inc
Central Maine Power Company	4056978	Iberdrola, S A
New York State Electric & Gas Corporation	4004389	Iberdrola, S A
Rochester Gas and Electric Corporation	4057096	Iberdrola, S A
United Illuminating Company	3004222	Iberdrola, S A
Black Hills Colorado Electric, Inc	4215172	Black Hills Corporation
Black Hills Power, Inc.	4065694	Black Hills Corporation
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation
Consumers Energy Company	4057081	CMS Energy Corporation
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc
Rockland Electric Company	4062660	Consolidated Edison, Inc
DTE Electric Company	4057083	DTE Energy Company
Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation
Duke Energy Florida, LLC	4056998	Duke Energy Corporation
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation
Duke Energy Kentucky, Inc.	4057103	Duke Energy Corporation
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation
Duke Energy Progress, LLC	4004192	Duke Energy Corporation
El Paso Electric Company	4056994	
Kansas City Power & Light Company	4072456	Evergy, Inc
Kansas Gas and Electric Company	4057089	Evergy, Inc
KCP&L Greater Missouri Operations Company	4000843	Evergy, Inc
Westar Energy (KPL)	4082573	Evergy, Inc
Connecticut Light and Power Company	4056992	Eversource Energy
NSTAR Electric Company	4008369	Eversource Energy
Public Service Company of New Hampshire	4057022	Eversource Energy
Western Massachusetts Electric Company	4057035	Eversource Energy
Hawaii Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc
Hawaiian Electric Company, Inc	4057001	Hawaiian Electric Industries, Inc
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc
Florida Power & Light Company	4056997	NextEra Energy, Inc
NorthWestern Corporation	4057053	
Oklahoma Gas and Electric Company	4057016	OGE Energy Corp
Otter Tail Power Company	4147257	Otter Tail Corporation
Arizona Public Service Company	4056974	Pinnacle West Capital Corporation
Public Service Company of New Mexico	4073320	PNM Resources, Inc
Portland General Electric Company	4057019	
Alabama Power Company	4014956	Southern Company
Georgia Power Company	4004152	Southern Company
Gulf Power Company	4057000	Southern Company
Mississippi Power Company	4057010	Southern Company
Upper Michigan Energy Resources Corporation	4887639	WEC Energy Group, Inc
Wisconsin Electric Power Company	4057105	WEC Energy Group, Inc
Wisconsin Public Service Corporation	4057106	WEC Energy Group, Inc
Northern States Power Company - MN	4057754	Xcel Energy Inc
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SNLTable Company Name	SNL Institution Key	Ultimate Parent Company Name 201138
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AEP Texas North Company	4057034	American Electric Power Company, Inc.
AEP Texas Inc	4056935	American Electric Power Company, Inc.
Appalachian Power Company	4056972	American Electric Power Company, Inc.
Indiana Michigan Power Company	4057003	American Electric Power Company, Inc.
Kentucky Power Company	4057006	American Electric Power Company, Inc.
Kingsport Power Company	4060895	American Electric Power Company, Inc.
Ohio Power Company	4057015	American Electric Power Company, Inc.
Public Service Company of Oklahoma	4057023	American Electric Power Company, Inc.
Southwestern Electric Power Company	4057026	American Electric Power Company, Inc.
Wheeling Power Company	4063994	American Electric Power Company, Inc.
Central Maine Power Company	4056978	Iberdrola, S.A
New York State Electric & Gas Corporation	4004389	Iberdrola, S.A
Rochester Gas and Electric Corporation	4057096	Iberdrola, S.A
United Illuminating Company	3004222	Iberdrola, S.A
Black Hills Colorado Electric, Inc.	4215172	Black Hills Corporation
Black Hills Power, Inc	4065694	Black Hills Corporation
Cheyenne Light, Fuel and Power Company	4059189	Black Hills Corporation
Consumers Energy Company	4057081	CMS Energy Corporation
Consolidated Edison Company of New York, Inc	4057080	Consolidated Edison, Inc
Orange and Rockland Utilities, Inc	4057093	Consolidated Edison, Inc
Rockland Electric Company	4062660	Consolidated Edison, Inc
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Duke Energy Carolinas, LLC	4004320	Duke Energy Corporation
Duke Energy Florida, LLC	4056998	Duke Energy Corporation
Duke Energy Indiana, LLC	4062444	Duke Energy Corporation
Duke Energy Kentucky, Inc.	4057103	Duke Energy Corporation
Duke Energy Ohio, Inc	4057079	Duke Energy Corporation
Duke Energy Progress, LLC	4004192	Duke Energy Corporation
El Paso Electric Company	4056994	
Kansas City Power & Light Company	4072456	Eversource Energy, Inc
Kansas Gas and Electric Company	4057089	Eversource Energy, Inc
KCP&L Greater Missouri Operations Company	4000843	Eversource Energy, Inc
Westar Energy (KPL)	4082573	Eversource Energy, Inc
Connecticut Light and Power Company	4056992	Eversource Energy
NSTAR Electric Company	4008369	Eversource Energy
Public Service Company of New Hampshire	4057022	Eversource Energy
Western Massachusetts Electric Company	4057035	Eversource Energy
Hawaii Electric Light Company, Inc	4060446	Hawaiian Electric Industries, Inc
Hawaiian Electric Company, Inc	4057001	Hawaiian Electric Industries, Inc
Maui Electric Company, Limited	4061329	Hawaiian Electric Industries, Inc
Florida Power & Light Company	4056997	NextEra Energy, Inc
NorthWestern Corporation	4057053	
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Georgia Power Company	4004152	Southern Company
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Hawaiian Electric Company, Inc | Balance Sheet (AS REPORTED)

Periods Custom
Source SNL Financial

	2018 FQ4	2018 FQ3
As Of Date	12/31/2018	9/30/2018
Source Document	3/31/2019 10-Q	9/30/2018 10-Q
Currency Code	USD	USD
(in thousands)		
Assets		
Property, plant and equipment		
Utility property, plant and equipment		
Land	49,667 00	53,515 00
Plant and equipment	6,809,671 00	6,720,046 00
Less accumulated depreciation	(2,577,342 00)	(2,567,708 00)
Construction in progress	233,145 00	193,086 00
Utility property, plant and equipment, net	4,515,141 00	4,398,939 00
Nonutility property, plant and equipment, less accumulated depreciation	6,961 00	7,580 00
Total property, plant and equipment, net	4,522,102 00	4,406,519 00
Current assets		
Cash and cash equivalents	35,877 00	7,224 00
Customer accounts receivable, net	177,896 00	178,785 00
Accrued unbilled revenues, net	121,738 00	127,702 00
Other accounts receivable, net	6,215 00	3,378 00
Fuel oil stock, at average cost	79,935 00	91,822 00
Materials and supplies, at average cost	55,204 00	58,507 00
Prepayments and other	32,118 00	60,732 00
Regulatory assets	71,016 00	89,430 00
Total current assets	579,999 00	617,580 00
Other long-term assets		
Regulatory assets	-	741,494 00
Unamortized debt expense	762,410 00	NA
Other	102,992 00	116,534 00
Total other long-term assets	865,402 00	858,028 00
Total assets	5,967,503 00	5,882,127 00
Capitalization and liabilities		
Capitalization		
Common stock	111,696 00	107,634 00
Premium on capital stock	681,305 00	614,667 00
Retained earnings	1,164,541 00	1,155,070 00
Accumulated other comprehensive loss, net of tax benefits	99 00	(1,134 00)
Common stock equity	1,957,641 00	1,876,237 00
Cumulative preferred stock - not subject to mandatory redemption	34,293 00	34,293 00
Long-term debt, net	1,418,802 00	1,418,631 00
Total capitalization	3,410,736 00	3,329,161 00
Current liabilities		
Current portion of long-term debt	-	49,993 00
Short-term borrowings from non-affiliates	25,000 00	85,913 00
Accounts payable	171,791 00	122,932 00
Interest and preferred dividends payable	23,215 00	28,258 00
Taxes accrued, including revenue taxes	233,333 00	195,776 00
Regulatory liabilities	17,977 00	10,159 00
Other	60,003 00	81,054 00
Total current liabilities	531,319 00	574,085 00
Deferred credits and other liabilities		
Deferred income taxes	383,197 00	401,069 00
Regulatory liabilities	932,259 00	922,193 00
Unamortized tax credits	91,522 00	93,073 00
Defined benefit pension and other postretirement benefit plans	503,659 00	460,279 00
liability		
Other	114,811 00	102,267 00
Total deferred credits and other liabilities	2,025,448 00	1,978,881 00
Contributions in aid of construction	5,967,503 00	NA
Total capitalization and liabilities	5,967,503 00	5,882,127 00
Common Equity	57.55%	54.69%
Long-term Debt	41.71%	42.81%
Short-term Debt	0.73%	2.50%

Data shown on this page is extracted directly from the company's documents. S&P Global Market Intelligence makes every effort to line up fields, captions and headers that in the company's presentation over time may be too significant, potentially resulting in repeating and/or disordered items. Despite possible issues with the presentation, S&P

2018 FQ2	2018 FQ1	2017 FQ4	2017 FQ3	2017 FQ2	2017 FQ1
6/30/2018 6/30/2018 10-Q USD	3/31/2018 3/31/2018 10-Q USD	12/31/2017 9/30/2018 10-Q USD	9/30/2017 9/30/2017 10-Q USD	6/30/2017 6/30/2017 10-Q USD	3/31/2017 3/31/2017 10-Q USD
52,914 00	52,940 00	53,177 00	53,913 00	53,178 00	53,157 00
6,652,982 00	6,452,215 00	6,401,040 00	6,778,254 00	6,711,418 00	6,651,094 00
(2,534,428 00)	(2,507,942 00)	(2,476,352 00)	(2,460,429 00)	(2,430,097 00)	(2,399,222 00)
165,608 00	291,937 00	263,094 00	307,492 00	272,438 00	230,072 00
4,337,076 00	4,289,150 00	4,240,959 00	4,679,230 00	4,606,937 00	4,535,101 00
7,581 00	7,582 00	7,580 00	7,409 00	7,410 00	7,410 00
4,344,657 00	4,296,732 00	4,248,539 00	4,686,639 00	4,614,347 00	4,542,511 00
20,860 00	23,399 00	12,517 00	9,987 00	42,582 00	13,207 00
157,260 00	141,433 00	127,889 00	133,135 00	126,161 00	117,990 00
110,839 00	99,635 00	107,054 00	109,707 00	103,596 00	97,632 00
6,896 00	3,953 00	7,163 00	4,097 00	3,684 00	20,388 00
107,016 00	88,723 00	86,873 00	60,253 00	72,392 00	73,874 00
57,941 00	55,692 00	54,397 00	55,959 00	57,099 00	57,045 00
29,240 00	30,208 00	25,355 00	29,871 00	36,340 00	28,934 00
103,566 00	102,800 00	88,390 00	72,773 00	74,167 00	81,952 00
593,618 00	545,843 00	509,638 00	475,782 00	516,021 00	491,022 00
756,844 00	769,699 00	780,907 00	864,191 00	864,110 00	863,457 00
NA	NA	NA	661 00	690 00	183 00
106,595 00	98,295 00	91,529 00	80,228 00	75,987 00	71,869 00
865,439 00	867,994 00	872,436 00	945,080 00	940,787 00	935,509 00
5,803,714 00	5,710,569 00	5,630,613 00	6,107,501 00	6,071,155 00	5,969,042 00
107,634 00	107,634 00	107,634 00	106,818 00	106,818 00	106,818 00
614,667 00	614,667 00	614,675 00	601,487 00	601,486 00	601,491 00
1,131,185 00	1,125,842 00	1,124,193 00	1,120,571 00	1,095,025 00	1,091,323 00
(1,162 00)	(1,188 00)	(1,219 00)	199 00	177 00	137 00
1,852,324 00	1,846,955 00	1,845,283 00	1,829,075 00	1,803,506 00	1,799,769 00
34,293 00	34,293 00	34,293 00	34,293 00	34,293 00	34,293 00
1,418,474 00	1,318,654 00	1,318,516 00	1,318,623 00	1,318,845 00	1,318,871 00
3,305,091 00	3,199,902 00	3,198,092 00	3,181,991 00	3,156,644 00	3,152,933 00
49,983 00	49,973 00	49,963 00	NA	NA	NA
91,880 00	121,983 00	4,999 00	6,000 00	43,990 00	1,500 00
153,759 00	142,399 00	159,610 00	124,240 00	162,375 00	129,863 00
22,684 00	26,204 00	22,575 00	25,261 00	19,497 00	26,174 00
172,063 00	166,465 00	199,101 00	183,365 00	142,263 00	131,330 00
9,787 00	6,933 00	3,401 00	3,399 00	2,883 00	2,691 00
59,203 00	59,875 00	59,456 00	59,611 00	53,140 00	56,235 00
559,359 00	573,832 00	499,105 00	401,876 00	424,148 00	347,793 00
388,875 00	393,089 00	394,041 00	767,611 00	759,972 00	748,017 00
895,429 00	888,160 00	877,369 00	462,817 00	428,747 00	417,249 00
92,798 00	91,936 00	90,369 00	88,827 00	91,386 00	91,012 00
457,953 00	465,626 00	472,948 00	581,713 00	587,718 00	593,856 00
104,209 00	98,024 00	98,689 00	57,548 00	79,336 00	78,608 00
1,939,264 00	1,936,835 00	1,933,416 00	1,958,516 00	1,947,159 00	1,926,742 00
NA	NA	NA	565,118 00	543,204 00	541,574 00
5,803,714 00	5,710,569 00	5,630,613 00	6,107,501 00	6,071,155 00	5,969,042 00
54 28%	55 34%	57 33%	58 00%	56 96%	57 68%
43 03%	41 01%	42 52%	41 81%	41 65%	42 27%
2 69%	3 65%	0 16%	0 19%	1 39%	0 05%

t represent the same data over time, despite vanations in how the company may report these items in different documents. In certain ins
² Global Market Intelligence, as always, stands by its commitment to the quality of the data

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864
TEXAS COAST UTILITIES COALITION
REQUEST NO.: TCUC04-03**

QUESTION:

Regarding Mr. McRae's rebuttal testimony at page 14, lines 9-13:

- a. Please provide a table that traces the issuance of long-term debt to each asset in rate base.
- b. Please provide a table that traces the issuance of equity to each asset in rate base

ANSWER:

It is not possible to trace the issuance of long-term debt or of equity to each individual asset in rate base.

SPONSOR (PREPARER):

Robert McRae (Robert McRae)

RESPONSIVE DOCUMENTS:

None

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**TEXAS COAST UTILITIES COALITION
REQUEST NO.: TCUC04-04**

QUESTION:

Regarding Mr. McRae's rebuttal testimony at page 15, lines 3-13, please state whether it is Mr. McRae's testimony that CenterPoint Energy Houston Electric's earned equity return is exactly as the Commission authorizes it to earn, and if so, please provide all studies, analyses, reports showing that to be the case.

ANSWER:

No. To see CenterPoint Energy Houston Electric's earned equity return, please see the CenterPoint Energy Houston Electric earnings monitoring reports provided for 2017, 2016, and 2015. In particular, refer to Schedule III on the rows "Earned Return on Ending Equity" and, again under the weather adjusted column heading, "Earned Return on Ending Equity." CenterPoint Energy Houston Electric has no studies, analysis, or reports showing that it earns exactly the "earned equity return" that the Commission authorizes it to earn.

The requested information is voluminous and will be provided to the propounding party only in electronic format via "SendThisFile". Please contact Alice Hart at (713) 207-5322 to request a copy of the files. Please see index of voluminous material below.

Date	Title	Preparer	Number of Pages	Page No(s)
April 4, 2016	TCUC04-04 2015EMR	Kristie Colvin / Robert McRae	43	1-43
April 6, 2017	TCUC04-04 2016EMR	Kristie Colvin / Robert McRae	45	1-45
April 4, 2018	TCUC04-04 2017EMR	Kristie Colvin / Robert McRae	44	1-44

SPONSOR (PREPARER):

Kristie Colvin/Robert McRae (Kristie Colvin/Robert McRae)

RESPONSIVE DOCUMENTS:

TCUC04-02 2015EMR.pdf

TCUC04-02 2016EMR.pdf

TCUC04-02 2017EMR.pdf

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**TEXAS COAST UTILITIES COALITION
REQUEST NO.: TCUC04-05**

QUESTION:

Regarding Mr. McRae's rebuttal testimony at page 17, lines 7-28:

- a. Please provide copies of the order in the "general rate case" to which Mr. McRae refers.
- b. If not previously provided, please provide a copy of the Moody's reports to which Mr. McRae refers regarding Alliant Energy Corporation, Consolidated Edison, Inc., Oklahoma Gas & Electric Company, Xcel Energy Inc, and WEC Energy Group.

ANSWER:

- a. The general rate case Mr. McRae referenced was ALLETE's Minnesota Power Docket No. E-015/GR-16-664. A copy of the final order is attached.

The requested information is voluminous and will be provided to the propounding party only in electronic format via "SendThisFile". Please contact Alice Hart at (713) 207-5322 to request a copy of the filing. Please see index of voluminous material below.

- b. The Moody's reports were provided as WP R-RBM-1 Confidential.

Date	Title	Preparer	Number of Pages	Page No(s)
N/A	TCUC04-05 MP RC 16 664 FOF 03122018	Robert McRae	128	1-128

SPONSOR (PREPARER):
Robert McRae (Robert McRae)

RESPONSIVE DOCUMENTS:
TCUC04-05 MP RC 16 664 FOF 03122018.pdf

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**TEXAS COAST UTILITIES COALITION
REQUEST NO.: TCUC04-06**

QUESTION:

Regarding Mr. McRae's rebuttal testimony at page 42, lines 9-13, for the period from January 1, 2013 to the present, please provide all studies, analyses, or reports performed by or on behalf of CenterPoint Energy, Inc. and/or CenterPoint Energy Houston Electric that:

- a. Correlate the impact on CenterPoint Energy Houston Electric's rates and a change in their credit rating. If no such studies, analyses, or reports are available, please so state.
- b. Quantify the net benefit to ratepayers of a higher credit rating than a lower credit rating.

If no such studies, analyses, or reports are available, please so state.

ANSWER:

- a. Mr. McRae is not aware of any studies or analyses performed by CenterPoint Energy Inc. and/or CenterPoint Energy Houston Electric that evaluate the correlation of CenterPoint Energy Houston Electric's rates and changes in its credit rating. However, there is a relationship between the cost of debt and credit ratings. The lower the rating, all else equal, the higher the cost of debt. Since the cost of debt is used to calculate the weighted average cost of capital, or WACC, and the WACC is used to calculate the revenue requirement, it is possible to state that changes in credit ratings do impact customer rates.
- b. Page 38, lines 10-23 of Mr. McRae's direct testimony provide empirical evidence of an example that quantifies the difference between bonds of differing credit ratings.

SPONSOR (PREPARER):

Robert McRae (Robert McRae)

RESPONSIVE DOCUMENTS:

None

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**TEXAS COAST UTILITIES COALITION
REQUEST NO.: TCUC04-07**

QUESTION:

Please state whether Mr. McRae or any other CenterPoint Energy Houston Electric witness contends that funds CenterPoint Energy Houston Electric receives are not fungible.

ANSWER:

If the question is asking whether Mr. McRae believes that dollars are fungible, the answer is that he does. However, dollars from one source of funding (e.g., short-term debt) may be replaced with other sources of funding (e.g., long-term debt or equity). Thus, Mr. McRae's agreement that dollars are fungible should not be construed as agreement that sources of capital are irrelevant. If sources of capital were irrelevant, there would be no difference in the cost of short term debt, long term debt, and equity.

SPONSOR (PREPARER):

Robert McRae (Robert McRae)

RESPONSIVE DOCUMENTS:

None

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**TEXAS COAST UTILITIES COALITION
REQUEST NO.: TCUC04-08**

QUESTION:

Please state whether Mr. McRae or any other CenterPoint Energy Houston Electric witness disagrees that that funds CenterPoint Energy Houston Electric receives are fungible.

ANSWER:

Please refer to CenterPoint Houston's response to Question No. TCUC04-07.

SPONSOR (PREPARER):

Robert McRae (Robert McRae)

RESPONSIVE DOCUMENTS:

None

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**TEXAS COAST UTILITIES COALITION
REQUEST NO.: TCUC04-09**

QUESTION:

Please state whether CenterPoint Energy Houston Electric maintains separate checking accounts for funds it receives from:

- a. Issuance of long-term debt;
- b. Issuance of short-term debt;
- c. Issuance of equity; and
- d. Internally generated cash flow

ANSWER:

CenterPoint Energy Houston Electric utilizes multiple bank accounts, but funds received from all of the sources listed in the question would be deposited into the same general fund account.

SPONSOR (PREPARER):
Robert McRae (Robert McRae)

RESPONSIVE DOCUMENTS:
None

CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864

TEXAS COAST UTILITIES COALITION
REQUEST NO.: TCUC04-10

QUESTION:

Please provide the carrying rate CenterPoint Energy Houston Electric employs for allowance for funds used during construction ("AFUDC"). If this varies by period, please provide the rate per period as maintained by CenterPoint Energy Houston Electric.

ANSWER:

Please see the table below for the rates employed for allowance for funds used during construction (AFUDC).

Year	AFUDC Debt	AFUDC Equity	Total AFUDC
Mar. 2009 - Feb. 2010	3.25%	5.25%	8.50%
Mar. 2010 - Feb. 2011	3.75%	5.25%	9.00%
Mar. 2011 - Feb. 2012	3.50%	5.00%	8.50%
Mar. 2012 - Feb. 2013	3.71%	4.50%	8.21%
Mar. 2013 - Feb. 2014	3.71%	4.50%	8.21%
Mar. 2014 - Feb. 2015	3.25%	4.50%	7.75%
Mar. 2015 - Feb. 2016	3.00%	4.50%	7.50%
Mar. 2016 - Feb. 2017	2.00%	2.00%	4.00%
Mar. 2017 - Feb. 2018	2.50%	4.00%	6.50%
Mar. 2018 - Feb. 2019	2.50%	3.75%	6.25%

SPONSOR (PREPARER):
Kristie Colvin (Kristie Colvin)

RESPONSIVE DOCUMENTS:
None

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**TEXAS COAST UTILITIES COALITION
REQUEST NO.: TCUC04-11**

QUESTION:

Regarding Mr. Hevert's rebuttal testimony at page 174, lines 16-18, please state whether the common equity ratio of 53.25% he notes, includes or excludes short-term debt.

ANSWER:

The common equity ratio of 53.25 percent excludes short-term debt.

SPONSOR (PREPARER):

Robert B. Hevert (Robert B. Hevert)

RESPONSIVE DOCUMENTS:

None

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**TEXAS COAST UTILITIES COALITION
REQUEST NO.: TCUC04-12**

QUESTION:

Please confirm that Mr. Hevert relies on Mr. McRae's recommendations regarding the appropriate capital structure for CenterPoint Energy Houston Electric.

ANSWER:

Please refer to Mr. Hevert's Direct Testimony at page 52. There, he notes the Company proposes a capital structure including 50.00 percent common equity and 50.00 percent long-term debt, as discussed in Mr. McRae's testimony. For the reasons discussed in his Direct Testimony at pages 52 to 54, and his Rebuttal Testimony (for example, pages 174 and 175), Mr. Hevert continues to find the Company's proposed capital structure consistent with industry practice, and reasonable.

SPONSOR (PREPARER):

Robert B. Hevert (Robert B. Hevert)

RESPONSIVE DOCUMENTS:

None

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**TEXAS COAST UTILITIES COALITION
REQUEST NO.: TCUC04-13**

QUESTION:

Please state whether it is Mr. Hevert's opinion that funds CenterPoint Energy, Inc., or CenterPoint Energy Houston Electric, or any other affiliate or subsidiary of CenterPoint Energy, Inc., are fungible.

ANSWER:

Mr. Hevert believes cash is fungible.

SPONSOR (PREPARER):

Robert B. Hevert (Robert B. Hevert)

RESPONSIVE DOCUMENTS:

None

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**TEXAS COAST UTILITIES COALITION
REQUEST NO.: TCUC04-14**

QUESTION:

Please state whether it is Mr. Hevert's opinion that funds CenterPoint Energy, Inc., or CenterPoint Energy Houston Electric, or any other affiliate or subsidiary of CenterPoint Energy, Inc., receives from short-term debt, long-term debt, equity, or internally generated cash flow, may be traced dollar-for-dollar to each specific expenditure made by these companies. If so, please provide all data showing how such funds are traced.

ANSWER:

Mr. Hevert does not believe a given dollar may be traced from its source to its use.

SPONSOR (PREPARER):

Robert B. Hevert (Robert B. Hevert)

RESPONSIVE DOCUMENTS:

None

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864
TEXAS COAST UTILITIES COALITION
REQUEST NO.: TCUC04-15**

QUESTION:

Regarding Mr. Hevert's rebuttal testimony at page 116, lines 18-19, please confirm that the Commission's order in Docket No. 48401 is the product of a settled rate case.

ANSWER:

Confirmed.

SPONSOR (PREPARER):

Robert B. Hevert (Robert B. Hevert)

RESPONSIVE DOCUMENTS:

None

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**TEXAS COAST UTILITIES COALITION
REQUEST NO.: TCUC04-16**

QUESTION:

Regarding Mr. Hevert's rebuttal testimony at page 117, lines 7-12, please identify:

- a. The "delivery companies" to which Mr. Hevert refers;
- b. By docket number or other identifying number, the proceeding in which the delivery companies' authorized ROE was set;
- c. The "distribution-only companies" to which Mr. Hevert refers;
- d. By docket number or other identifying number, the proceeding in which the delivery companies' authorized ROE was set;
- e. The difference Mr. Hevert attributes to the terms "delivery companies" versus "distribution-only companies," if any;
- f. The companies that are included in Mr. Hevert's proxy group of companies.

ANSWER:

- a. Please see previously filed Hevert Rebuttal Exhibits R-RBH-1 – R-RBH-31.XLSX; specifically Exhibit R-RBH-31.
- b. See response to a. above.
- c. See response to a. above.
- d. See response to a. above.
- e. Mr. Hevert does not attribute any specific difference between the use of the terms "delivery companies" and "distribution-only companies"
- f. Please see TCUC04-16 Attachment 1.xlsx.

SPONSOR (PREPARER):

Robert B. Hevert (Robert B. Hevert)

RESPONSIVE DOCUMENTS:

TCUC04-16 Attachment 1.xlsx

Recently Authorized ROEs by RRA Ranking

Proxy	State	Company	Ticker	Case Identification	Service	Case Type	Date	Return on Equity (%)	RRA Rank	Electric Utilities		
										Top Tier (Average/1 and higher)	Middle Tier (Average/2)	Bottom Tier (Average/3 and lower)
	Washington	Avista Corp	AVA	D-UE-150204	Electric	Vertically Integrated	1/5/2016	9.50	Average / 3			9.50
	Arkansas	Entergy Arkansas LLC	ETR	D-15-015-U	Electric	Vertically Integrated	2/23/2016	9.75	Average / 1	9.75		
	Indiana	Indianapolis Power & Light Co	AES	Ca-44576	Electric	Vertically Integrated	3/15/2016	9.85	Average / 1	9.85		
	Massachusetts	Fitchburg Gas & Electric Light	UTL	DPU 15-80	Electric	Distribution	4/29/2016	9.80	Average / 2		9.80	
	Maryland	Baltimore Gas and Electric Co	EXC	C-9406 (elec)	Electric	Distribution	6/3/2016	9.75	Below Average / 3			9.75
YES	New Mexico	El Paso Electric Co	EE	C-15-00127-UT	Electric	Vertically Integrated	6/8/2016	9.48	Below Average / 2			9.48
	New York	NY State Electric & Gas Corp	IBE	C-15-E-0283	Electric	Distribution	6/15/2016	9.00	Average / 1	9.00		
	New York	Rochester Gas & Electric Corp	IBE	C-15-E-0285	Electric	Distribution	6/15/2016	9.00	Average / 1	9.00		
	Indiana	Northern IN Public Svc Co	NI	Ca-44688	Electric	Vertically Integrated	7/18/2016	9.98	Average / 1	9.98		
YES	Tennessee	Kingsport Power Company	AEP	D-16-00001	Electric	Vertically Integrated	8/9/2016	9.85	Above Average / 3	9.85		
	Arizona	UNS Electric Inc	FTS	D-E-04204A-15-0142	Electric	Vertically Integrated	8/18/2016	9.50	Average / 3			9.50
	New Jersey	Atlantic City Electric Co	EXC	D-ER-16030262	Electric	Distribution	8/24/2016	9.75	Below Average / 1			9.75
	Washington	PacificCorp	BRK A	D-UE-152253	Electric	Vertically Integrated	9/1/2016	9.50	Average / 3			9.50
	Michigan	Upper Peninsula Power Co		C-U-17895	Electric	Vertically Integrated	9/8/2016	10.00	Above Average / 3	10.00		
YES	New Mexico	Public Service Co. of NM	PNM	C-15-00261-UT	Electric	Vertically Integrated	9/28/2016	9.58	Below Average / 2			9.58
	Massachusetts	Massachusetts Electric Co	NG	DPU-15-155	Electric	Distribution	9/30/2016	9.90	Average / 2		9.90	
	Wisconsin	Madison Gas and Electric Co	MOEE	D-3270-UR-121 (Elec)	Electric	Vertically Integrated	11/9/2016	9.80	Above Average / 2	9.80		
YES	Oklahoma	Public Service Co. of OK	AEP	Ca-PUD201500208	Electric	Vertically Integrated	11/10/2016	9.50	Average / 3			9.50
	Maryland	Potomac Electric Power Co	EXC	C-9416	Electric	Distribution	11/15/2016	9.55	Below Average / 3			9.55
YES	Wisconsin	Wisconsin Power and Light Co	LNT	D-6680-UR-120 (Elec)	Electric	Vertically Integrated	11/18/2016	10.00	Above Average / 2	10.00		
YES	Florida	Florida Power & Light Co	NEE	D-160021-EI	Electric	Vertically Integrated	11/29/2016	10.55	Above Average / 2	10.55		
	California	Liberty Utilities (CalPeco Elect	AQN	A-15-05-008	Electric	Vertically Integrated	12/1/2016	10.00	Average / 1	10.00		
YES	South Carolina	Duke Energy Progress LLC	DUK	D-2016-227-E	Electric	Vertically Integrated	12/7/2016	10.10	Average / 3			10.10
	New Jersey	Jersey Cntrl Power & Light Co	FE	D-ER-16040383	Electric	Distribution	12/12/2016	9.60	Below Average / 1			9.60
	Connecticut	United Illuminating Co	IBE	D-16-06-04	Electric	Distribution	12/14/2016	9.10	Below Average / 1			9.10
	Maine	Emera Maine	EMA	D-2015-00360	Electric	Distribution	12/19/2016	9.00	Average / 2		9.00	
YES	Colorado	Black Hills Colorado Electric	BKH	D-16AL-0326E	Electric	Vertically Integrated	12/19/2016	9.37	Average / 2		9.37	
	Nevada	Sierra Pacific Power Co	BRK A	D-16-06006	Electric	Vertically Integrated	12/22/2016	9.60	Average / 2		9.60	
	North Carolina	Virginia Electric & Power Co	D	D-E-22, Sub 532	Electric	Vertically Integrated	12/22/2016	9.90	Average / 1	9.90		
	Idaho	Avista Corp	AVA	C-AVU-E-16-03	Electric	Vertically Integrated	12/28/2016	9.50	Average / 2		9.50	
	Wyoming	MDU Resources Group Inc	MDU	D-20004-117-ER-16	Electric	Vertically Integrated	1/18/2017	9.45	Average / 3			9.45
YES	New York	Consolidated Edison Co. of NY	ED	C-16-E-0060	Electric	Distribution	1/24/2017	9.00	Average / 1	9.00		
YES	Michigan	DTE Electric Co	DTE	C-U-18014	Electric	Vertically Integrated	1/31/2017	10.10	Above Average / 3	10.10		
	Maryland	Delmarva Power & Light Co	EXC	C-9424	Electric	Distribution	2/15/2017	9.60	Below Average / 3			9.60
YES	New Jersey	Rockland Electric Company	ED	D-ER-16050426	Electric	Distribution	2/22/2017	9.60	Below Average / 1			9.60
	Arizona	Tucson Electric Power Co	FTS	D-E-01933A-15-0322	Electric	Vertically Integrated	2/24/2017	9.75	Average / 3			9.75
YES	Michigan	Consumers Energy Co	CMS	C-U-17990	Electric	Vertically Integrated	2/26/2017	10.10	Above Average / 3	10.10		
YES	Minnesota	Otter Tail Power Co	OTTR	D-E-017/GR-15-1033	Electric	Vertically Integrated	3/2/2017	9.41	Average / 2		9.41	
YES	Oklahoma	Oklahoma Gas and Electric Co	OGE	Ca-PUD201500273	Electric	Vertically Integrated	3/20/2017	9.50	Average / 3			9.50
YES	Florida	Gulf Power Co	NEE	D-160186-EI	Electric	Vertically Integrated	4/4/2017	10.25	Above Average / 2	10.25		
	New Hampshire	Liberty Utilities Granite St	AQN	D-DE-16-383	Electric	Distribution	4/12/2017	9.40	Average / 3			9.40
	New Hampshire	Unitil Energy Systems Inc	UTL	D-DE-16-384	Electric	Distribution	4/20/2017	9.50	Average / 3			9.50
YES	Missouri	Kansas City Power & Light	EVRG	C-ER-2016-0285	Electric	Vertically Integrated	5/3/2017	9.50	Average / 3			9.50
YES	Minnesota	Northern States Power Co. - MN	XEL	D-E-002/GR-15-826	Electric	Vertically Integrated	5/11/2017	9.20	Average / 2		9.20	
YES	Arkansas	Oklahoma Gas and Electric Co	OGE	D-16-052-U	Electric	Vertically Integrated	5/18/2017	9.50	Average / 1	9.50		
	Delaware	Delmarva Power & Light Co	EXC	D-16-0649	Electric	Distribution	5/23/2017	9.70	Average / 3			9.70
	North Dakota	MDU Resources Group Inc	MDU	C-PUI-16-888	Electric	Vertically Integrated	6/16/2017	9.65	Average / 1	9.65		
	Kentucky	Kentucky Utilities Co	PPL	C-2016-00370	Electric	Vertically Integrated	6/22/2017	9.70	Average / 1	9.70		

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**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**TEXAS COAST UTILITIES COALITION
REQUEST NO.: TCUC04-17**

QUESTION:

Regarding Mr. Hevert's rebuttal testimony at page 117, line 18 – p. 118, line 4, please provide Mr. Hevert's quantitative analysis that shows how he considered each of his ROE recommendations to arrive at his recommendation of a 10.40% ROE. If no such quantitative analysis exists, please confirm that Mr. Hevert's "empirical, but not entirely mathematical exercise" leading him to a ROE of 10.40% is based on his subjective judgment.

ANSWER:

The inputs, assumptions, and data for Mr. Hevert's analyses are discussed throughout his Direct and Rebuttal Testimonies. Mr. Hevert does not attach specific weights to those results. Rather, he considers each model's structure and assumptions relative to current and expected capital market conditions, and reviews general and Company-specific business risks. He then applies his experienced judgment to determine a reasonable range of ROE estimates, and a specific ROE recommendation within that range.

SPONSOR (PREPARER):

Robert B. Hevert (Robert B. Hevert)

RESPONSIVE DOCUMENTS:

None

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**TEXAS COAST UTILITIES COALITION
REQUEST NO.: TCUC04-18**

QUESTION:

Regarding Mr. Hevert's rebuttal testimony at page 119, lines 14-16, please provide all studies, analyses, reports Mr. Hevert relied upon for his statement that, "Measures of income are far more likely to be considered by the financial community in making credit assessments and investment decisions than are measures of revenue."

ANSWER:

Please see Mr. Hevert's Rebuttal Testimony at page 119, line 16 through page 120, line 10.

SPONSOR (PREPARER):

Robert B. Hevert (Robert B. Hevert)

RESPONSIVE DOCUMENTS:

None

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**TEXAS COAST UTILITIES COALITION
REQUEST NO.: TCUC04-19**

QUESTION:

To the extent not provided in work papers, please provide copies of Exhibit Nos. R-RBH-1 through Exhibit R-RBH-31 in Microsoft Excel. Please include keep all data formulas embedded in the worksheet.

ANSWER:

Please see previously filed Hevert Rebuttal Exhibits R-RBH-1 – R-RBH-31.XLSX.

SPONSOR (PREPARER):

Robert B. Hevert (Robert B. Hevert)

RESPONSIVE DOCUMENTS:

None

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**TEXAS COAST UTILITIES COALITION
REQUEST NO.: TCUC04-20**

QUESTION:

To the extent not provided in work papers, please provide copies of the source documents, data and work papers associated with the development of Exhibit Nos. RRBH-1 through Exhibit. R-RBH-31. Please provide the underlying data and Exhibits in both paper and electronic (Microsoft Excel Worksheet) forms. For the Microsoft Excel version, please include keep all formulas embedded in the worksheet.

ANSWER:

Please see previously filed Workpapers to Rebuttal Testimony of Robert B. Hevert. Note, Workpapers were voluminous and provided on CD.

SPONSOR (PREPARER):

Robert B. Hevert (Robert B. Hevert)

RESPONSIVE DOCUMENTS:

None

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**TEXAS COAST UTILITIES COALITION
REQUEST NO.: TCUC04-21**

QUESTION:

To the extent not provided in work papers, please provide copies of all articles, publications, regulatory decisions, references, and/or documents cited in the testimony and/or footnotes. If the reference is a book, please provide a copy of the relevant section of the book.

ANSWER:

Please see previously filed Workpapers to Rebuttal Testimony of Robert B. Hevert. Note, Workpapers were voluminous and provided on CD. Workpapers included items cited in Mr. Hevert's Rebuttal Testimony.

SPONSOR (PREPARER):

Robert B. Hevert (Robert B. Hevert)

RESPONSIVE DOCUMENTS:

None

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**TEXAS COAST UTILITIES COALITION
REQUEST NO.: TCUC04-22**

QUESTION:

To the extent not provided in work papers, please provide: (1) copies of the source documents, data and work papers associated with the development of Figure Nos. 1-48 in the rebuttal testimony; and (2) the data and work papers in both paper and electronic (Microsoft Excel Worksheet) forms. For the Microsoft Excel version, please include keep all formulas embedded in the worksheet.

ANSWER:

Please see previously filed Workpapers to Rebuttal Testimony of Robert B. Hevert. Note, Workpapers were voluminous and provided on CD.

SPONSOR (PREPARER):

Robert B. Hevert (Robert B. Hevert)

RESPONSIVE DOCUMENTS:

None

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**TEXAS COAST UTILITIES COALITION
REQUEST NO.: TCUC04-23**

QUESTION:

With reference to page 117, lines 3-12, please provide; (1) the source documents, data and calculations that develop the 9.48% and the 9.60% ROEs; (2) identify why Mr. Hevert's 9.48% ROE is different from the 9.38% average electric delivery ROE in 2018 as listed on page 9 of the January 31, 2019 S&P Global Market Intelligence report entitled, "RRA Regulatory Focus, Major Rate Case Decision – January-December 2018;" (3) list the rate cases, states, and authorized ROEs used to compute the 9.48% ROE; and (4) provide the work papers and data used in (1)-(3) in Microsoft Excel, with all data and formulas embedded in the worksheet.

ANSWER:

1. Please see previously filed Hevert Rebuttal Exhibits R-RBH-1 – R-RBH-31.XLSX; specifically Exhibit R-RBH-31, and WP Hevert Direct_CONFIDENTIAL_3.20.19.xlsx, specifically WP Past Rate Cases-CONFIDENTIAL.
2. Mr. Hevert does not include the authorized ROEs that result from Illinois Formula Rate Proceedings.
3. Please see response to 1.
4. Please see response to 1.

SPONSOR (PREPARER):

Robert B. Hevert (Robert B. Hevert)

RESPONSIVE DOCUMENTS:

None

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**TEXAS COAST UTILITIES COALITION
REQUEST NO.: TCUC04-24**

QUESTION:

With reference to pages 117-118 and the Q and A regarding the “disconnect between Mr. Hevert’s recommended ROE and his ROE studies,” please provide the exact percentage weights Mr. Hevert gives to his DCF, CAPM, and bond yield risk premium ROE results shown in Tables 1a and 1b on page 7 of his initial testimony. The sum of the three percentage weights should be 100%.

ANSWER:

Please see the response to TCUC04-17.

SPONSOR (PREPARER):

Robert B. Hevert (Robert B. Hevert)

RESPONSIVE DOCUMENTS:

None

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**TEXAS COAST UTILITIES COALITION
REQUEST NO.: TCUC04-25**

QUESTION:

With reference to pages 132-135 and Mr. Hevert's defense of the market risk premiums 10.72% and 14.10% in his CAPM analyses, please identify and provide copies of all empirical studies published in refereed professional or academic journals in the past ten years that report a U.S. market risk premium as high as 10.72% and 14.10%.

ANSWER:

Please see Mr. Hevert's Direct Testimony at page 66, line 16 to page 68, line 4. There, Mr. Hevert explains the basis of his approach to developing the Market Risk Premium, and provides a historical context for his results. Please also see Mr. Hevert's Rebuttal Testimony at page 82 line 1 through page 83, line 6 for a discussion of financial literature addressing the time-varying nature of the Market Risk Premium. Those articles generally address the method by which Mr. Hevert estimated the Market Risk Premium. Mr. Hevert has not undertaken a review of literature to identify specific Market Risk Premium estimates.

SPONSOR (PREPARER):

Robert B. Hevert (Robert B. Hevert)

RESPONSIVE DOCUMENTS:

None

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**TEXAS COAST UTILITIES COALITION
REQUEST NO.: TCUC04-26**

QUESTION:

With reference to pages 136-138 and Mr. Hevert's discussion of GDP growth and S&P 500 EPS growth, please: (1) identify and provide copies of all empirical studies published in refereed professional or academic journals in the past ten years that demonstrate that S&P 500 and/or corporate profit growth can exceed GDP growth over long periods of time; (2) demonstrate and calculate what GDP growth rate is required to generate the Bloomberg and Value Line projected S&P 500 EPS growth rates used to compute the CAPM market risk premiums of 10.72% and 14.10%; and the work papers and data used in (2) in Microsoft Excel, with all data and formulas embedded in the worksheet.

ANSWER:

1. Mr. Hevert is not aware of any such empirical studies. Mr. Hevert notes, however, that his testimony made no specific reference to corporate profit growth exceeding GDP growth over long-periods of time. Pages 136-138 of Mr. Hevert's testimony discuss several studies on which Dr. Woolridge relies for his determination of an appropriate GDP growth projection.
2. The question is unclear. The growth rates included in Mr. Hevert's Market Risk Premium calculations are provided in Exhibit RBH-2.

SPONSOR (PREPARER):

Robert B. Hevert (Robert B. Hevert)

RESPONSIVE DOCUMENTS:

None

**CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC
2019 CEHE RATE CASE
DOCKET 49421-SOAH DOCKET NO. 473-19-3864**

**TEXAS COAST UTILITIES COALITION
REQUEST NO.: TCUC04-27**

QUESTION:

Regarding Ellen Lapson Rebuttal Testimony:

To the extent not provided in work papers, please provide copies of Exhibit Nos. R-EL-1 through Exhibit R-EL-6 in Microsoft Excel. Please include keep all data formulas embedded in the worksheet.

ANSWER:

Please see Attachment TCUC04-27 for the Excel version of Exhibit R-EL-6 with formulas. None of Ms. Lapson's other exhibits are in Excel or have formulas.

SPONSOR (PREPARER):

Ellen Lapson (Ellen Lapson)

RESPONSIVE DOCUMENTS:

TCUC04-27 Exhibit R-EL-6.xlsx

Cap Structure 60-40, ROE 9.25% Gorman

CenterPoint Energy Houston Electric, LLC - 55/45 10% ROE

Transmission and Distribution Utility

Years Ended December 31, \$ in millions

	2018	2019	2020	2021	2022	2023
Income Statement						
Total Revenues	\$ 3,004.0	\$ 2,984.9	\$ 3,135.4	\$ 3,275.6	\$ 3,441.7	
Operating and Administrative	1,503.4	1,532.3	1,599.5	1,662.6	1,770.5	
Taxes Other Than Income	252.0	261.8	269.3	277.0	284.5	
Depreciation and Amortization	650.9	592.3	622.7	640.0	652.3	
Operating Income	597.6	598.5	643.9	696.1	734.3	
Interest Income (intercompany)	20.5	14.5	7.7	2.6	0.1	
Other Income	(9.9)	(9.2)	(5.8)	(6.6)	(8.5)	
EBIT	608.1	603.8	645.9	692.1	726.0	
Securitization Interest	39.7	28.0	20.8	13.4	7.6	
Other Interest (external)	163.5	174.4	185.2	203.0	211.2	
Other Interest (intercompany)	-	-	0.1	2.2	5.3	
EBT	404.9	401.5	439.8	473.6	501.9	
Tax Expense	74.7	60.7	61.2	70.1	77.9	
Net Income before Non-Recurring Items	330.2	340.8	378.6	403.5	424.0	
Non-Recurring Items	-	-	-	-	-	
Net Income	\$ 330.2	\$ 340.8	\$ 378.6	\$ 403.5	\$ 424.0	

Cap Structure 60-40, ROE 9.25% Gorman

CenterPoint Energy Houston Electric, LLC - 55/45 10% ROE

Transmission and Distribution Utility

Years Ended December 31; \$ in millions

	2018	2019	2020	2021	2022	2023
Cash Flows						
Net Income	\$ 330.2	\$ 340.8	\$ 378.6	\$ 403.5	\$ 424.0	
Non-Recurring Items, net of tax	-	-	-	-	-	
Net Income before Non-Recurring Items	330.2	340.8	378.6	403.5	424.0	
Depreciation and Amortization	650.9	592.3	622.7	640.0	652.3	
Amortization of Deferred Financing Costs	10.5	10.2	9.9	8.6	6.9	
Deferred Taxes	(69.2)	(61.3)	(65.3)	(54.2)	(43.8)	
Funds From Operations	922.5	882.0	945.8	997.8	1,039.4	
Changes in Working Capital	(48.7)	(23.5)	(68.9)	(74.4)	(84.6)	
Operating Cash Flow	873.8	858.5	876.9	923.4	954.8	
Capital Expenditures	(979.1)	(1,027.9)	(1,177.9)	(978.8)	(980.0)	
Other Investing Activities	-	-	-	-	-	
Investing Cash Flow	(979.1)	(1,027.9)	(1,177.9)	(978.8)	(980.0)	
Increase (decrease) in Intercompany Notes Payable	(589.8)	123.8	503.7	77.2	220.3	
Increase (decrease) in Securitization Debt	(264.3)	(176.4)	(181.6)	(169.3)	(148.7)	
Increase (decrease) in Other Long Term Debt	700.0	300.0	197.6	300.0	200.0	
Dividends	(193.2)	(176.5)	(223.0)	(152.5)	(246.4)	
Other Financing Activities	452.5	98.6	4.4	-	-	
Financing Cash Flow	105.3	169.4	301.0	55.4	25.1	
Total Cash Flow	\$ (0.0)	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	

Cap Structure 60-40, ROE 9.25% Gorman

CenterPoint Energy Houston Electric, LLC - 55/45 10% ROE

Transmission and Distribution Utility

Years Ended December 31; \$ in millions

	2018	2019	2020	2021	2022	2023
Balance Sheet						
ASSETS						
Cash/Temporary Investments	\$ (0.2)	\$ 588.4	\$ 464.6	\$ (0.2)	\$ (0.2)	\$ (0.2)
Current Assets	949.5	998.1	1,021.3	1,045.2	1,070.4	1,096.8
PP&E, net	8,401.7	8,993.4	9,604.9	10,341.4	10,849.4	11,325.6
Other Assets	1,156.1	928.5	771.4	625.4	493.2	388.5
Total Assets	<u>\$ 10,507.1</u>	<u>\$ 11,508.4</u>	<u>\$ 11,862.2</u>	<u>\$ 12,011.8</u>	<u>\$ 12,412.8</u>	<u>\$ 12,810.8</u>
LIABILITIES AND EQUITY						
Facility/Intercompany Debt	\$ 1.2	\$ -	\$ -	\$ 38.9	\$ 116.1	\$ 336.4
Other Current Liabilities	630.3	655.6	679.8	696.2	715.6	731.4
Total Current Liabilities	<u>631.5</u>	<u>655.6</u>	<u>679.8</u>	<u>735.1</u>	<u>831.7</u>	<u>1,067.8</u>
Non-Recourse Securitization Debt	1,435.4	1,171.8	995.9	814.7	645.6	497.0
Other Long Term Debt (external)	3,281.5	3,984.7	4,288.0	4,489.0	4,792.2	4,995.6
Deferred Income Taxes	1,022.9	953.7	892.4	827.1	772.9	729.1
Other Liabilities	1,454.4	1,471.5	1,472.1	1,452.1	1,425.5	1,398.8
Total Liabilities	<u>7,825.7</u>	<u>8,237.3</u>	<u>8,328.2</u>	<u>8,317.9</u>	<u>8,467.9</u>	<u>8,688.3</u>
Common Equity	2,681.5	3,271.1	3,534.0	3,693.9	3,944.9	4,122.5
Total Equity	<u>2,681.5</u>	<u>3,271.1</u>	<u>3,534.0</u>	<u>3,693.9</u>	<u>3,944.9</u>	<u>4,122.5</u>
Total Liabilities and Equity	<u>\$ 10,507.1</u>	<u>\$ 11,508.4</u>	<u>\$ 11,862.2</u>	<u>\$ 12,011.8</u>	<u>\$ 12,412.8</u>	<u>\$ 12,810.8</u>
Balance check	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)

Cap Structure 60-40, ROE 9.25% Gorman

CenterPoint Energy Houston Electric, LLC

Moody's Methodology

Transmission and Distribution Utility

Years Ended December 31, \$ in millions

	2019	2020	2021	2022	2023
Income Statement					
Total Revenues	\$ 3,004.0	\$ 2,984.9	\$ 3,135.4	\$ 3,275.6	\$ 3,441.7
Operation and Maintenance	\$ 1,503.4	\$ 1,532.3	\$ 1,599.5	\$ 1,662.6	\$ 1,770.5
Taxes Other Than Income	\$ 252.0	\$ 261.8	\$ 269.3	\$ 277.0	\$ 284.5
Depreciation and Amortization	\$ 650.9	\$ 592.3	\$ 622.7	\$ 640.0	\$ 652.3
Operating Income	597.6	598.5	643.9	696.1	734.3
Interest Income (intercompany) (1)	\$ 20.5	\$ 14.5	\$ 7.7	\$ 2.6	\$ 0.1
Other Income (2)	\$ (9.9)	\$ (9.2)	\$ (5.8)	\$ (6.6)	\$ (8.5)
EBIT	608.1	603.8	645.9	692.1	726.0
Securitization Interest	\$ 39.7	\$ 28.0	\$ 20.8	\$ 13.4	\$ 7.6
Other Interest (external)	\$ 163.5	\$ 174.4	\$ 185.2	\$ 203.0	\$ 211.2
Other Interest (intercompany)	\$ -	\$ -	\$ 0.1	\$ 2.2	\$ 5.3
EBT	404.9	401.5	439.8	473.6	501.9
Tax Expense	\$ 74.7	\$ 60.7	\$ 61.2	\$ 70.1	\$ 77.9
Net Income before Non-Recurring Items	330.2	340.8	378.6	403.5	424.0
Non-Recurring Items	-	-	-	-	-
Net Income	\$ 330.2	\$ 340.8	\$ 378.6	\$ 403.5	\$ 424.0

(1) Plan amounts attributable to \$700 debt issuance and \$535 equity infusion in first quarter 2019

(2) Includes the non-service cost component of compensation retirement benefits (ASU No. 2017-07, effective 2018)

Criteria Ratios - MOODY's

	Aa	A	Baa	Ba	B	Caa
CFO pre-WC Interest Coverage	6x-8x	4.5x-6x	3x-4.5x	2x-3x	1x-2x	<1x
CFO pre-WC to Debt Ratio	27%-38%	19%-27%	11%-19%	5%-11%	1%-5%	<1%
CFO pre-WC-Dividends to Debt Ratio	23%-34%	15%-23%	7%-15%	0%-7%	(5%)-0%	<(5%)
Debt to Capital Ratio	29%-40%	40%-50%	50%-59%	59%-67%	67%-75%	>=75%

Cap Structure 60-40, ROE 9.25% Gorman

CenterPoint Energy Houston Electric, LLC

Moody's Methodology

Years Ended December 31, \$ in millions

Cash Flows

Net Income	\$	330.2	\$	340.8	\$	378.6	\$	403.5	\$	424.0
Non-Recurring Items, net of tax	\$	-	\$	-	\$	-	\$	-	\$	-
Net Income before Non-Recurring Items		330.2		340.8		378.6		403.5		424.0
Depreciation and Amortization	\$	650.9	\$	592.3	\$	622.7	\$	640.0	\$	652.3
Amortization of Deferred Financing Costs	\$	10.5	\$	10.2	\$	9.9	\$	8.6	\$	6.9
Deferred Taxes	\$	(69.2)	\$	(61.3)	\$	(65.3)	\$	(54.2)	\$	(43.8)
Funds From Operations		922.5		882.0		945.8		997.8		1,039.4
Changes in Working Capital		(48.7)		(23.5)		(68.9)		(74.4)		(84.6)
Operating Cash Flow		873.8		858.5		876.9		923.4		954.8
Capital Expenditures		(979.1)		(1,027.9)		(1,177.9)		(978.8)		(980.0)
Other Investing Activities		-		-		-		-		-
Investing Cash Flow		(979.1)		(1,027.9)		(1,177.9)		(978.8)		(980.0)
Increase (decrease) in Intercompany Notes Payable		(589.8)		123.8		503.7		77.2		220.3
Increase (decrease) in Securitization Debt		(264.3)		(176.4)		(181.6)		(169.3)		(148.7)
Increase (decrease) in Other Long Term Debt		700.0		300.0		197.6		300.0		200.0
Dividends		(193.2)		(176.5)		(223.0)		(152.5)		(246.4)
Other Financing Activities		452.5		98.6		4.4		-		-
Financing Cash Flow		105.3		169.4		301.0		55.4		25.1
Total Cash Flow	\$	(0.0)	\$	0.0	\$	0.0	\$	0.0	\$	0.0