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<b>NAESB Membership Report - Quadrant/Segment Membership Analysis</b>		<b>Number of Members</b>
<b>WGQ Segments</b>	<b>TOTAL</b>	<b>122</b>
	End Users	15
	Distributors	24
	Pipelines	38
	Producers	11
	Services	34
<b>RMQ Segments</b>	<b>TOTAL</b>	<b>42</b>
	Retail Electric End Users/Public Agencies	17
	Retail Gas Market Interests Segment	10
	Retail Electric Utilities	7
	Retail Electric Service Providers/Suppliers	8
<b>WEQ Segments</b>	<b>TOTAL</b>	<b>136</b>
	End Users	14
	Distributors	18
	Transmission	43
	Generation	19
	Marketers	21
	None Specified	1
	Independent Grid Operators/Planners	8
	Technology /Services	12

North American Energy Standards Board Membership List  
As of April 30, 2019

	<b>Organization</b>	<b>Seg<sup>1</sup></b>	<b>Contact</b>
Retail Markets Quadrant (RMQ) Members:			
1	Ameren Services Company	u	Patrick Eynon
2	American Public Gas Association (APGA)	g	Donnie Sharp
3	Arizona Corporation Commission	e	Robert G. Gray
4	Big Data Energy Services	s	J. Cade Burks, Jennifer Teel
5	Brilliant Energy, LLC	s	Vidyasagar Sandela
6	California Energy Commission	e	Melissa Jones
7	California Public Utilities Commission	e	Marzia Zafar
8	CenterPoint Energy Houston Electric, LLC	u	John Hudson
9	City of Houston	e	James P. Cargas
10	Dominion Energy	u	Brandon Stites
11	Duke Energy Corporation	u	Stuart Laval, David Lawrence
12	Electric Reliability Council of Texas, Inc. (ERCOT)	e	Susan Anthony
13	Emil Peña Interests, Inc. (EPII)	s	Emil Peña
14	Gas Natural Servicios, S.A. de C.V.	g	Alberto Alberto Alfaro
15	Green Button Alliance	s	Jeremy J. Roberts
16	Intelometry, Inc.	s	Raymond W. Anderson
17	ISO New England, Inc.	e	Doug Smith
18	Latitude Technologies LLC	g	Leigh Spangler
19	Maryland Public Service Commission	e	Dan Hurley
20	Minnesota Public Utilities Commission	e	Robert Harding
21	National Association of Regulatory Utility Commissioners	e	Sam Watson
22	New Jersey Board of Public Utilities	e	Cynthia Covie, Lauren Mattox
23	Oncor Electric Delivery Company LLC	u	Debbie McKeever, Chris Rowley, Mark Carpenter
24	Ontario Ministry of Energy	e	Senka Krsikapa, Andrew Howse
25	Open Energy Solutions, Inc.	s	Larry Lackey
26	Pennsylvania Office Of Consumer Advocate	e	Tanya J. McCloskey
27	Pennsylvania Office of Consumer Advocate	g	Tanya J. McCloskey
28	Pennsylvania Public Utility Commission	e	Lee Yalcin, Jeff McCracken
29	Philadelphia Gas Works	g	Frank Weigert
30	Public Utilities Commission of Ohio	e	Krystina Schaefer, Barbara Cote
31	Public Utility Commission of Texas	e	Therese Harris
32	Schweitzer Engineering Laboratories	s	Jedidiah W. Bartlett
33	Southern Company Services, Inc.	u	Don Brundage, Lincoln E. Wood
34	SouthStar Energy Services, LLC	g	Michael Braswell
35	Sprague Operating Resources LLC	g	Paul Scoff
36	Systrends USA	g	Dave Darnell

<sup>1</sup> The segment abbreviations are: **RMQ**: u – retail electric utilities, g – retail gas market interests, e – retail electric end users/public agencies, s – retail electric service providers/suppliers. **WEQ**: m – marketer/broker, d – distribution, i – independent grid operators/planners, t – transmission owner, e – end user, g – generator, ts – technology/services. **WGO**: s – services, pl – pipeline, l – LDC, pr – producer, e – end user.

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37	UGI Utilities, Inc.	g	Angelina Borelli
38	Vermont Public Service Board	e	Mary Jo Krolewski
39	WEC Energy Group	g	Tom Aridas, Ken Thiry
40	WEC Energy Group	u	Dennis Derricks, Ken Thiry
41	Xtensible Solutions LLC	s	Shawn Hu
42	ZigBee Alliance	e	Tobin Richardson
<b>Wholesale Gas Quadrant (WGQ) Members:</b>			
1	44Farris, LLC	s	Sylvia Munson
2	8760, Inc.	s	Jim Buccigross
3	ALFA Corporativo S.A. de C.V.	s	Gerardo Galvan, Christian Kukutschka, Roberto Blanco
4	Alliance Pipeline, LP	pl	Robert Engelhardt, Marcy McCain, Megan Miller
5	Ambit Energy Holdings, LLC	s	Drew Gormley
6	American Gas Association	l	Matthew J. Agen, Pete Connor
7	American Midstream Partners, LP	s	Bryan M. Escobedo
8	Anadarko Energy Services Company	pr	Y.J. Bourgeois, Beth Fruge, Scott Marshall, Chris Briggs, Brent Beitler
9	Aquilon Energy Services, Inc.	s	Jeffrey Wagner, Sylvia Munson
10	Atmos Energy	pl	Steve Easley
11	Blackstone Technology Group, Inc.	s	Rakesh Agrawal
12	Boardwalk Pipeline Partners, LP	pl	Randy Young, Kim Van Pelt
13	BP Energy	pr	Jennifer Minnis
14	California Energy Commission	e	Melissa Jones
15	Calpine Corporation	e	Shonnie Daniel, Jay Dibble, Brian Fields
16	Cascade Natural Gas Corporation	l	Eric Wood
17	Castleton Commodities Merchant Trading L.P.	s	Tara Liscombe, Amy McConnell
18	CenterPoint Energy Services, Inc.	s	Jeffrey Perryman, Timothy Muller, Wade Sadler
19	Centro Nacional de Control del Gas Natural (CENAGAS)	s	Eduardo Fernando Prud'homme Nieves
20	Cheniere Creole Trail Pipeline, LP	pl	Valerie Salas
21	Chevron Natural Gas	pr	Charles (Chuck) Cook
22	Cimarex Energy Co.	pr	Vanessa Hutto
23	Citigroup Energy, Inc.	s	Carrie Southard, Angela Davis
24	Colorado Springs Utilities	l	Abdessamad Nassif
25	ConocoPhillips Company	pr	Ben Schoene
26	Consolidated Edison Company of NY	l	Joel Yu
27	Crestwood Equity Partners LP	pl	Rob Perkins, Mark Mitchell, James Johnston, Christine Dixon
28	Dauphin Island Gathering Partners	pl	Don Perkins, Tyler Culbertson
29	Defense Logistics Agency Energy	e	Paul Rossi, Brett Campeol, Scott Taetsch
30	Department of Energy	e	Christopher Freitas
31	Devon Energy Corporation	pr	Brandon Guderian
32	Dominion Energy Inc.	l	Craig Colombo
33	Dominion Energy Transmission Inc.	pl	Rachel A. Hogge, Ron Tomlinson

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34	DTE Energy Trading, Inc.	s	Gregory V. Staton, James Buck, Dena Crawford, Marcia L. Hissong, Ann Marie Jambor, Cynthia Klots, Shelley Greene
35	DTE Gas Company	l	Kelly Fedele
36	Eastern Shore Natural Gas Company	pl	Laura Fevrin
37	Eclipse Resources Corporation	pr	Rosemary Ciletti
38	Emera Energy Services, Inc.	s	Dary Jessome, Will Szubielski
39	Enable Energy Resources LLC	s	Cary Metz
40	Enable Gas Transmission, LLC	pl	Cindy Suarez, Valerie Price
41	Enable Mississippi River Transmission, LLC	pl	Cindy Suarez, Valerie Price
42	Enbridge (U.S.) Inc.	pl	Marcy McCain, Megan Miller
43	Encana Marketing (USA) Inc.	s	Jeff Jarvis
44	Energex LLC	s	Jay Bhatt
45	Energy Transfer Equity, L.P.	pl	Michael Langston, Larry Biediger, Mary Draemer, William White, Miki Kolobara
46	Entergy Services, Inc.	e	Laura Berryman, Brad Clausen
47	Environmental Defense Fund, Inc.	e	N. Jonathan Peress
48	EP Energy E&P Company, L.P.	pr	Racquel Jackson
49	Equitrans, L.P.	pl	Sarah Shaffer
50	Exelon Generation Company, LLC	s	Lisa Simpkins, Joseph Kirwan, Andrea Kullman, Jennifer Scott
51	Exxon Mobil Corporation	pr	Randy E. Parker
52	FIS	s	Kirt Kleinman
53	Florida Power & Light Company	e	Paul Zhang, Art Morris
54	Freeport LNG Development L.P.	pl	Adam Valentine
55	Florida Southeast Connection LLC	pl	Mark McClure
56	Golden Pass Pipeline, LLC	pl	Joel Hindman
57	Golden Triangle Storage, Inc.	pl	Kimberly Watson, John Fortman, Darryl Kilpatrick
58	Gunvor USA LLC	S	David Webster, Jonathan Lietzke
59	Haynes and Boone, LLP	s	Kim Mai
60	Iberdrola USA Management Corporation (Rochester Gas and Electric Corp)	l	Mark Marini
61	Idaho Public Utilities Commission	e	Gene Fadness
62	IEnova Pipelines, S de R.L. de C.V.	pl	Victor Manuel Lozano Chavez
63	Imperial Irrigation District	e	Timothy Hamilton, R. Marc Printy, Scott Harding
64	Iroquois Gas Transmission System	pl	Tom Gwilliam
65	Kern River Gas Transmission Company	pl	Brenda Horton
66	Kinder Morgan Inc	pl	Gene Nowak, Mark Gracey, Nichole Lopez
67	Kinetica Partners, LLC	pl	Lynn Nguyen
68	Latitude Technologies LLC	s	Leigh Spangler
69	Liberty Utilities	l	Bill Killeen, Deborah Gilbertson
70	Macquarie Energy LLC	s	Kevin Pooler, David Webster, Christi Nicolay
71	Marathon Oil Company	pr	Robin Phillips, Roger Raymond
72	MCP Operating LLC (Stingray Pipeline Company, L.L.C.)	pl	Jeremy Durocher

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73	Midcontinent Independent System Operator, Inc.	e	Leonard Ashley
74	Millennium Pipeline Company, LLC	pl	Georgia B. Carter
75	National Fuel Gas Distribution Corporation	l	Mike Novak
76	National Fuel Gas Supply Corp.	pl	Deborah Kupczyk
77	National Grid	l	Andrew MacBride
78	New Jersey Natural Gas	l	Kathryn Ferreira
79	NiSource Inc.	l	Deepak Raval, Michael D. Watson
80	NJR Energy Services Company	s	Ginger Richman
81	Northern Natural Gas	pl	Micki Hoffee, Vickie Wonder
82	Northwest Natural Gas Company	l	Randolph Friedman
83	ONE Gas, Inc.	l	Larry Dykes
84	ONEOK, Inc.	pl	Denise Adams, Melissa McBroom, Aaron Wright
85	PAA Natural Gas Storage, LLC	s	Eileen W. Kisluk
86	Pacific Gas and Electric Company	l	Dave Lewis
87	Paiute PipeLine Company	pl	Mark A. Litwin
88	Peoples Gas System	l	Karen L. Bramley, David Crabtree
89	Piedmont Natural Gas	l	Michelle Mendoza
90	Power Authority of the State of New York (dba NYPA)	e	Enrico Montesa, Jr.
91	Quorum Business Solutions Inc.	s	Emily Perryman
92	Rager Mountain Storage Company, LLC	pl	Sarah Shaffer, Shawn A. Smith
93	RBN Energy LLC	s	Richard G. Smead
94	S&P Global	s	Sue Dlin, Arleen Long
95	Sabine Pass Liquefaction, LLC	e	Emily Browning
96	Salt River Project Agricultural Improvement & Power District	e	Willis E. McCluskey
97	Sempra Infrastructure, LLC	pl	Dan King, Elizabeth Peters
98	Sequent Energy Management, L.P.	s	Karen Bleil, Kathryn L. McCoy, Chris Russo
99	Shell Energy North America (US), L.P.	s	Eric Gillaspie
100	Skipping Stone, LLC	s	Greg Lander
101	Southern California Gas Company	l	Richard Ishikawa
102	Southern Company Gas	l	Tim Sherwood
103	Southern Company Services, Inc.	e	Alan Kilpatrick, Roy D. Hiller
104	Southern Star Central Gas Pipeline	pl	Robin Joska, Ronnie Hensley, Doug Field
105	Southwest Gas Corporation	l	John Olenick, Mark Anderson, Mark Litwin
106	Spire Inc.	l	Mark Darrell
107	SWN Energy Services Company, LLC	pr	Bill Hebenstreit
108	Tallgrass Operations, LLC	pl	Karl Almquist
109	Tennessee Valley Authority	e	Valerie Crockett
110	The Energy Authority, Inc.	s	Mark Kinevan, John B. Lucas
111	Tiger Natural Gas	s	John Burriss
112	TransCanada Pipelines Limited	pl	Steven W. McCord, Millie S. Moran, Sherry Hill
113	UGI Central Gas Control, LC	pl	Craig Blume
114	Unitil Service Corporation	l	Joseph Conneely

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115	Vector Pipeline L.P.	pl	Amy Bruhn
116	Vectren Corporation	l	Perry Pergola
117	Vitol Inc.	pl	Robert Viola, Juany Martinez
118	WBI Energy Transmission, Inc.	pl	Nancy Senger, Lori Myerchin, Gwen Schoepp
119	WEC Energy Group	l	Todd Duffield, Jody Arendt
120	Williams	pl	Michael Rasmuson, Melissa Casey, Brian Roquemore
121	World Fuel Services, Inc.	s	Rachel Welch
122	WPX Energy Marketing, LLC	s	Rich Ficken, Sherry Sawyer

Wholesale Electric Quadrant (WEQ) Members:

1	8760, Inc.	ts	Jim Buccigross
2	Adapt2 Solutions, Inc.	ts	David Nilsson
3	Adjoint Inc.	ts	Havell Rodrigues
4	Alabama Municipal Electric Authority	d	Mark Ennis
5	Alliance for Cooperative Energy Services Power Marketing LLC (ACES)	m	Roy J. True, Amadou Fall
6	American Electric Power Service Corp.	g	Barry Schumann, Phil Cox
7	American Municipal Power, Inc.	m	Chris Norton
8	American Public Power Association	d	Delia Patterson
9	Arizona Electric Power Cooperative, Inc.	t	Shane Sanders, Barry Brown
10	Arizona Public Service Company	t	Ashley Kelly, Twyana Blair
11	Associated Electric Cooperative, Inc.	t	Chris McGeeney
12	AVANGRID	t	Jim Clemente
13	Avangrid Renewables, LLC	g	Erin Kester, Jan Korver
14	Avista Corporation	t	Jeff Schlect, Kenneth Dillon
15	Basin Electric Power Cooperative	t	Dave Rudolph, Jill Rummel
16	Basin Electric Power Cooperative	m	Ken Rutter
17	Basin Electric Power Cooperative	g	Jason Doerr
18	BC Hydro	t	Brenda Ambrosi
19	Black Hills Corporation	g	Kenna Hagan
20	Bonneville Power Administration	d	Eric H. Carter, Michael Steigerwald, Rebecca Berdahl
21	Bonneville Power Administration	g	Scott Winner, Ann Shintani
22	Bonneville Power Administration	m	Andrew P. Meyers, Ann Shintani
23	Bonneville Power Administration	t	Michael D. Bausch, Rebecca Berdahl
24	California Energy Commission	e	Melissa Jones
25	California ISO	i	Brian Jacobsen
26	California Public Utilities Commission	e	Marzia Zafar
27	Central Electric Power Cooperative	d	Kale Ford
28	Corpus Christi Liquefaction, LLC	e	Donna Lowry
29	Deseret Generation & Transmission Co-operative	g	Clay MacArthur
30	Dominion Resources Services, Inc.	g	Lou Oberski
31	Duke Energy Corporation	d	Paul Graves

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32	Duke Energy Corporation	t	Jack Armstrong, Lee Schuster
33	Edison Electric Institute	n	Philip D. Moeller, Jennifer Murray
34	El Paso Electric	t	Mike Sahs
35	Electric Reliability Council of Texas, Inc. (ERCOT)	i	Carrie Bivens, Paul Wattles, Joel Mickey
36	Emera Maine	t	Lisa Martin
37	Enbridge (U.S.) Inc.	t	Travis Allen
38	Entergy Services, Inc.	t	Yarrow Etheredge
39	EVC Insights, LLC	ts	Mark Stultz
40	Eversource Energy	t	David Burnham, Andrew Y. Tan
41	Exelon Generation Company, LLC	m	William Berg
42	FIS	ts	Robin Pollara
43	Florida Municipal Power Agency	g	Carol Chinn, Chris Gowder
44	Florida Municipal Power Agency	d	Carol Chinn, Chris Gowder
45	Florida Power & Light Company	m	Timothy W. Gerrish, Tom Hartman
46	Florida Power & Light Company	t	Bernardo Benigni, Miguel Yanes
47	Georgia Transmission Corporation	t	Patrick McGovern
48	GMO GlobalSign, Inc.	e	Lila Kee
49	Hartigen Solutions LLC	ts	Andy Tritch
50	Hydro – Quebec Transenergie	t	Michel Prevost
51	Idaho Power Company	t	Josh Harris, Kathy Anderson
52	Idaho Public Utilities Commission	e	Gene Fadness
53	Independent Electricity System Operator (IESO)	i	Nicholas Ingman, Scott Berry
54	Indiana Municipal Power Agency	g	Scott Berry
55	Indianapolis Power and Light Company	t	Michael L. Holtsclaw
56	ISO New England, Inc.	i	Matthew F. Goldberg, Douglas Smith
57	JEA	t	John Babik
58	KCP&L and Westar, Evergy Companies	t	Denise Buffington
59	KCP&L and Westar, Evergy Companies	g	Denise Buffington
60	LG&E and KU Services Company	t	Ashley Moore, Daryn Barker
61	Los Angeles Department of Water and Power	t	Sueyen McMahan
62	Los Angeles Department of Water and Power	m	Anton Vu, Joel F. Cordero
63	Maine Public Utilities Commission	e	Denis Bergeron
64	Manitoba Hydro	t	Robin Rebillard
65	MidAmerican Energy Company	m	Dennis Kimm
66	Minnesota Public Utilities Commission	e	Robert Harding
67	MISO	i	Angela Weber, David Zwergel
68	Missouri River Energy Services	d	Raymond J. Wahle
69	Monitoring Analytics, LLC	ts	John Dadourian
70	Morgan, Lewis & Bockius LLP	t	Stephen M. Spina
71	Municipal Energy Agency of Nebraska	m	Robin Spady
72	Nalcor Energy	m	Erin McCormack
73	National Association of Regulatory Utility Commissioners	e	Sam Watson

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74	National Grid	t	Kevin Reardon
75	National Institute of Standards and Technology	ts	David A. Wollman
76	National Rural Electric Cooperative Association	d	Paul McCurley
77	Nebraska Public Power District	t	Don Schmit
78	New Jersey Board of Public Utilities	g	Cynthia Covie, Lauren Mattox
79	New York Independent System Operator, Inc. (NYISO)	i	Wesley Yeomans, Vijaya Ganugula
80	New York State Reliability Council	d	Bruce Ellsworth
81	North American Electric Reliability Corporation	d	Mark Lauby
82	North American Electric Reliability Corporation	e	Kenneth McIntyre
83	North Carolina Electric Membership Corporation	d	Luis Fondacci, John Lemire, Richard McCall, James R. Manning
84	Northwestern Corporation	t	Mike Cashell
85	NRG Energy, Inc.	g	Derek Mauzy, Alan Johnson, Elizabeth Killinger
86	NV Energy	m	Sheryl Torrey
87	NV Energy, Inc.	t	Marilyn Franz
88	Open Access Technology International, Inc.	e	Jerry Dempsey
89	Open Access Technology International, Inc.	t	Paul R. Sorenson
90	Organization for the Advancement of Structured Information Standards (OASIS)	ts	Laurent M. Liscia
91	PacifiCorp	m	Joseph Hoerner
92	PacifiCorp	t	Rick Vail
93	PJM Interconnection, LLC	i	Rich Brown
94	Portland General Electric	t	John Walker, Johnny Useldinger
95	Power Costs, Inc. (PCI)	ts	Javier Martin
96	Powerex Corp.	m	Michael L McWilliams, Erika Rosin, Connor Curson
97	PowerSouth Energy Cooperative	d	William Ronald Graham
98	Public Service Company of New Mexico	m	Steven Maestas, Darren Wilkins, Roger Vaughn
99	Public Utilities Commission of Ohio	e	Krystina Schaefer, Barbara Cote
100	Puget Sound Energy, Inc.	t	George Marshall, Bob Harshbarger, Chelsey Neil
101	Reliable Energy Analytics	ts	Richard Brooks
102	Sacramento Municipal Utility District	d	Jon Olson, Sunny Buchert, Kelly Goodson
103	San Diego Gas & Electric Company	t	Martine Blair
104	Santee Cooper	t	Chris Wagner
105	SaskPower Corporation	t	Darwin Bender
106	Seattle City Light	m	Robin Cross
107	Seattle City Light	e	Robin Cross, Cory Anderson
108	Seminole Electric Cooperative, Inc.	m	Michael Ward
109	Snohomish County PUD No. 1	d	Ian Hunter
110	SoftSmiths, Inc.	ts	Lawrence S. Stone
111	South Carolina Electric & Gas Company	t	Matt Hammond, James T. Starling, Jr. , Sonya Green Sumpter, Matt Bullard, Kevin Spitzform
112	Southern Company Services, Inc.	g	Steven D. Lowe, JT Wood
113	Southern Company Services, Inc.	m	Ron Carlsen, JT Wood



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114	Southern Company Services, Inc.	t	Wes Barber, JT Wood
115	Southwest Power Pool	i	Carl Monroe, Michael Desselle, Charles Yeung, Joshua Phillips
116	SSL.com	e	Leonard Grove
117	Tacoma Power	d	Rick Applegate
118	Tampa Electric Company	d	David Crabtree
119	Tenaska, Inc.	g	Brad Cox
120	Tennessee Valley Authority	g	Karen Utt, Valerie Crockett
121	Tennessee Valley Authority	m	Dianne Hensley, Valerie Crockett
122	Tennessee Valley Authority	t	Jason L. Adams, Heather Burnette, Valerie Crockett
123	TransAlta Energy Marketing (U.S.) Inc.	m	Steve Lincoln
124	Tri-State Generation and Transmission Association, Inc.	t	Doug Reese
125	Tri-State G&T Association, Inc.	g	Janelle Marriott
126	Tucson Electric Power Company	t	Raquel Aguilar, Ed Beck, Amy Welander
127	Vermont Public Power Supply Authority	g	William J. Gallagher
128	Vermont Public Service Board	e	Mary Jo Krolewski
129	Wabash Valley Power Association	g	Susan Sosbe
130	We Energies (Wisconsin Electric)	d	Linda Horn
131	We Energies (Wisconsin Electric)	g	Christopher Plante
132	Western Area Power Administration	t	Raymond Vojdani, Steve Sanders
133	Western Area Power Administration	m	Rebecca Johnson
134	Western Electricity Coordinating Council	t	Layne Brown
135	WPPI Energy	d	Todd Komplin
136	Xcel Energy Inc.	m	Randall L. Oye