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NAESB Membership Report - Quadrant/Segment Membership Analysis		Number of Members
WGQ Segments	TOTAL	127
	End Users	14
	Distributors	24
	Pipelines	41
	Producers	13
	Services	35
RMQ Segments	TOTAL	40
	Retail Electric End Users/Public Agencies	16
	Retail Gas Market Interests Segment	9
	Retail Electric Utilities	7
	Retail Electric Service Providers/Suppliers	8
WEQ Segments	TOTAL	135
	End Users	11
	Distributors	19
	Transmission	43
	Generation	22
	Marketers	22
	None Specified	1
	Independent Grid Operators/Planners	8
	Technology /Services	9

North American Energy Standards Board Membership List
As of June 21, 2017

	Organization	Seg ¹	Contact
Retail Markets Quadrant (RMQ) Members:			
1	Ameren Services Company	u	Patrick Eynon
2	American Public Gas Association (APGA)	g	Alonzo Weaver
3	Arizona Corporation Commission	e	Robert G. Gray
4	Big Data Energy Services	s	J. Cade Burks, Jennifer Teel
5	California Energy Commission	e	Melissa Jones
6	California Public Utilities Commission	e	Marzia Zafar
7	CenterPoint Energy Houston Electric, LLC	u	John Hudson
8	City of Houston	e	James P. Cargas
9	Comverge, Inc.	s	Wendell Miyaji
10	Dominion Energy	u	Brandon Stites
11	Duke Energy Corporation	u	Dan Jones, Stuart Laval
12	Electric Reliability Council of Texas, Inc. (ERCOT)	e	Susan Anthony
13	Ernst & Young LLP	s	M. Joe Zhou
14	Green Button Alliance	s	Barry Haaser
15	Intelometry, Inc.	s	Raymond W. Anderson
16	ISO New England, Inc.	e	Doug Smith
17	Latitude Technologies LLC	g	Leigh Spangler
18	Maryland Public Service Commission	e	Dan Hurley
19	Minnesota Public Utilities Commission	e	Robert Harding
20	National Association of Regulatory Utility Commissioners	e	Sam Watson
21	New Jersey Board of Public Utilities	e	Cynthia Covie, Lauren Mattox
22	Oncor Electric Delivery Company LLC	u	Debbie McKeever, Chris Rowley, Debra Anderson, Mark Carpenter
23	Open Access Technology International, Inc.	s	Michelle Coon
24	Open Energy Solutions, Inc.	s	Larry Lackey
25	Pennsylvania Office Of Consumer Advocate	e	Tanya J. McCloskey
26	Pennsylvania Office of Consumer Advocate	g	Tanya J. McCloskey
27	Pennsylvania Public Utility Commission	e	Lee Yalcin, Jeff McCracken
28	Philadelphia Gas Works	g	Eloise N Young
29	Public Utilities Commission of Ohio	e	Amanda Stallings
30	Public Utility Commission of Texas	e	Therese Harris
31	Southern Company Services, Inc.	u	Lincoln E. Wood
32	SouthStar Energy Services, LLC	g	Michael Braswell, Joseph C. Monroe
33	Sprague Operating Resources LLC	g	Paul Scoff
34	Systrends USA	g	Dave Darnell
35	UGI Utilities, Inc.	g	Kelly Beaver
36	Vermont Public Service Board	e	Mary Jo Krolewski

¹ 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.

North American Energy Standards Board Membership List
As of June 21, 2017

	Organization	Seg¹	Contact
37	WEC Energy Group	g	Tom Aridas, Ken Thiry
38	Wisconsin Public Service Corporation	u	Dennis Derricks, Ken Thiry
39	Xtensible Solutions LLC	s	Shawn Hu
40	ZigBee Alliance	e	Tobin Richardson

Wholesale Gas Quadrant (WGQ) Members:

1	8760, Inc.	s	Jim Buccigross
2	Alliance Pipeline, LP	pl	Wendy Rhyno, Brian Troicuk
3	Ambit Energy Holdings, LLC	s	Drew Gormley
4	American Gas Association	l	Susan Bergles, Pete Connor
5	American Midstream Partners, LP	s	Chelsea Whitworth
6	Anadarko Energy Services Company	pr	Y.J. Bourgeois, Beth Fruge, Scott Marshall, Chris Briggs, Brent Beitler
7	Aquilon Energy Services, Inc.	s	Jeffrey Wagner, Sylvia Munson
8	Atmos Energy	pl	Steve Easley
9	Baltimore Gas & Electric Co.	l	Ronald T. Jennings
10	Blackstone Technology Group, Inc.	s	Rakesh Agrawal
11	Boardwalk Pipeline Partners, LP	pl	Randy Young, Kim Van Pelt
12	BP Energy	pr	Mark Stultz, Kathleen E. Magruder
13	California Energy Commission	e	Melissa Jones
14	Calpine Corporation	e	Shonnie Daniel, Jay Dibble, Brian Fields
15	Cargill Incorporated	s	Lester Welch
16	Cascade Natural Gas Corporation	l	Eric Wood
17	Castleton Commodities Merchant Trading L.P.	s	Tara Liscombe
18	CenterPoint Energy Services, Inc.	s	Mickey Moon, Larry Kunkle
19	Centra Gas Manitoba Inc.	l	Laurie MacDonald
20	Centro Nacional de Control del Gas Natural (CENAGAS)	s	Eduardo Fernando Prud'homme Nieves
21	Cheniere Creole Trail Pipeline, LP	pl	Valerie Salas
22	Chevron Natural Gas	pr	Charles (Chuck) Cook
23	Cimarex Energy Co.	pr	Vanessa Hutto
24	Citigroup Energy, Inc.	s	Carrie Southard, Angela Davis
25	Colorado Springs Utilities	l	Joe M. Holmes
26	ConocoPhillips Company	pr	Ben Schoene
27	Consolidated Edison Company of NY	l	Marie Berninger, Shelly Lyser
28	Crestwood Equity Partners LP	pl	Rob Perkins, Mark Mitchell, James Johnston, Christine Dixon
29	Dauphin Island Gathering Partners	pl	Don Perkins, Tyler Culbertson
30	Defense Logistics Agency Energy	e	Veronica Jones, Scott Taetsch
31	Department of Energy	e	Christopher Freitas
32	Devon Energy Corporation	pr	Bill Green, Mary Nelson
33	Direct Energy Business, LLC	s	Stephen F. Salese
34	Dominion Energy Inc.	l	Craig Colombo
35	Dominion Energy Transmission Inc.	pl	Rachel A. Hogge, Ron Tomlinson

North American Energy Standards Board Membership List
As of June 21, 2017

	Organization	Seg¹	Contact
36	DTE Energy Trading, Inc.	s	Gregory V. Staton, James Buck, Dena Crawford, Marcia L. Hissong, Ann Marie Jambor, Cynthia Klots, Shelley Greene
37	DTE Gas Company	l	Kelly Fedele
38	Eastern Shore Natural Gas Company	pl	Jeffrey R. Tietbohl
39	Eclipse Resources Corporation	pr	Daniel T. Sweeney
40	Enable Energy Resources LLC	s	Cary Metz
41	Enable Gas Transmission, LLC	pl	Cindy Suarez, Valerie Price
42	Enable Mississippi River Transmission, LLC	pl	Cindy Suarez, Valerie Price
43	Enbridge (U.S.) Inc.	pl	Susan Schwager
44	Encana Marketing (USA) Inc.	s	Jeff Jarvis
45	Energex LLC	s	Jay Bhatti
46	Energy Transfer Equity, L.P.	pl	Michael Langston, Larry Biediger, Mary Draemer, William White, Miki Kolobara
47	Entergy Services, Inc.	e	Laura Berryman, Scott Marino
48	Environmental Defense Fund, Inc.	e	N. Jonathan Peress
49	Environmental Resources Management (ERM)	s	Keith Sappenfield
50	EP Energy E&P Company, L.P.	pr	Stephanie Karm
51	Equitrans, L.P.	pl	Paul W. Diehl
52	Exelon Generation Company, LLC	s	Lisa Simpkins, Joseph Kirwan, Andrea Kullman, Jennifer Scott
53	Exxon Mobil Corporation	pr	Randy E. Parker
54	FIS	s	Kirt Kleinman
55	Florida Power & Light Company	e	Paul Zhang, Art Morris
56	Freeport LNG Development L.P.	pl	Adam Valentine
57	Gas Natural Fenosa LNG, S.L.	s	Carlos Humphrey Garcia, Lourdes Cacho
58	Gasoductos de Chihuahua S. de R.L. de C.V.	pl	Victor Manuel Lozano Chavez
59	Gasoductos del Noreste S. de R.L. de C.V.	pl	Victor Manuel Lozano Chavez
60	Golden Pass Pipeline, LLC	pl	Richard Smith
61	Golden Triangle Storage, Inc.	pl	Kimberly Watson, John Fortman, Darryl Kilpatrick
62	Iberdrola USA Management Corporation (Rochester Gas and Electric Corp)	l	Mark Marini
63	Idaho Public Utilities Commission	e	Gene Fadness
64	Imperial Irrigation District	e	Belen Valenzuela, Arcadio (Art) Magana, Scott Harding
65	Iroquois Gas Transmission System	pl	Tom Gwilliam
66	Kern River Gas Transmission Company	pl	Brenda Horton
67	Kinder Morgan Inc	pl	Gene Nowak, Mark Gracey, Nichole Lopez
68	Kinetica Partners, LLC	pl	Michelle Dundee
69	Latitude Technologies LLC	s	Leigh Spangler
70	Macquarie Energy LLC	s	Michele McLendon, David Webster, Christi Nicolay
71	Marathon Oil Company	pr	Robin Perrine
72	MCP Operating LLC	pl	Jeremy Durocher
73	Midcontinent Independent System Operator, Inc.	e	Mark Thomas, Leonard Ashley

North American Energy Standards Board Membership List
As of June 21, 2017

	Organization	Seg¹	Contact
74	Millennium Pipeline Company, LLC	pl	Georgia B. Carter
75	Munich Re Trading LLC	s	Yvonne L. Aponte
76	National Fuel Gas Distribution Corporation	l	Mike Novak
77	National Fuel Gas Supply Corp.	pl	Deborah Kupczyk
78	National Grid	l	Andrew MacBride
79	New Jersey Natural Gas	l	Kathryn Ferreira
80	NextEra Energy Pipeline Services Company	s	Angela Dunn
81	NiSource Inc.	l	Deepak Raval, Michael D. Watson
82	NJR Energy Services Company	s	Ginger Richman
83	Noble Americas Corp	pl	Joseph Limone, Vanessa R. Mathieu
84	Noble Energy, Inc.	pr	Kathryn Skelton, Tammy M. Stevens
85	Northern Natural Gas	pl	James Weidner, Micki Hoffee
86	Northwest Natural Gas Company	l	Randolph Friedman
87	ONE Gas, Inc.	l	Larry Dykes
88	ONEOK Partners GP, LLC	pl	Teri Tingler, Denise Adams
89	Open Access Technology International, Inc.	s	Michelle Coon
90	PAA Natural Gas Storage, LLC	s	Eileen W. Kisluk
91	Pacific Gas and Electric Company	l	Dave Lewis
92	Paiute PipeLine Company	pl	Mark A. Litwin
93	Peoples Gas System	l	Wraye Grimard
94	Piedmont Natural Gas	l	Michelle Mendoza
95	QEP Resources, Inc.	pr	Steve Stanton
96	Questar Pipeline, LLC	pl	Jerry H. Gross
97	Quorum Business Solutions Inc.	s	Seth Peters
98	Rager Mountain Storage Company, LLC	pl	Paul Diehl, Rob Kovacevic
99	S&P Global, Platts, Bentek	s	Arlene Long
100	Sabine Pass Liquefaction, LLC	e	Emily Browning
101	Salt River Project Agricultural Improvement & Power District	e	Willis E. McCluskey
102	Sempra Infrastructure, LLC	pl	Dan King, Elizabeth Peters
103	Sequent Energy Management, L.P.	s	Pat Metteauer, Kathryn L. McCoy, Chris Russo
104	Shell Energy North America (US), L.P.	s	Eric Gillaspie
105	Skipping Stone, LLC	s	Greg Lander
106	SNL Financial	s	Jana Wootton
107	Southern California Gas Company	l	Richard Ishikawa
108	Southern Company Gas	l	Tim Sherwood
109	Southern Company Services, Inc.	e	Alan Kilpatrick, Roy D. Hiller
110	Southern Star Central Gas Pipeline	pl	Philip Rullman, Doug Field
111	Southwest Gas Corporation	l	John Olenick, Mark Anderson, Mark Litwin
112	Spectra Energy Corp	pl	Richard Kruse, Marcy McCain
113	SWN Energy Services Company, LLC	pr	Bill Hebenstreit
114	Sylvia Munson – Consultant	s	Sylvia Munson
115	Tallgrass Operations, LLC	pl	Karl Almquist

North American Energy Standards Board Membership List
As of June 21, 2017

	Organization	Seg¹	Contact
116	Tennessee Valley Authority	e	Valerie Crockett
117	Tiger Natural Gas	s	John Burriss
118	TransCanada Pipelines Limited	pl	Sherry Hill
119	TransCanada Pipelines USA, Ltd	pl	Steven W. McCord, Millie S. Moran
120	Unitil Service Corporation	l	Joseph Conneely
121	Vector Pipeline L.P.	pl	Amy Bruhn
122	Vectren Corporation	l	Elizabeth Beck
123	WBI Energy Transmission, Inc.	pl	Lori Myerchin, Gwen Schoepp, Kelly Brooks
124	WEC Energy Group	l	Todd Duffield, Jody Arendt
125	Williams	pl	Lynn Dahlberg, Melissa Casey
126	World Fuel Services, Inc.	s	Rachel Welch
127	WPX Energy Marketing, LLC	s	Rich Ficken, Sherrie Dodson

Wholesale Electric Quadrant (WEQ) Members:

1	8760, Inc.	ts	Jim Buccigross
2	Alabama Municipal Electric Authority	d	Mark Ennis
3	Alcoa Power Generating Inc	m	Michael Padgett, Matt Fullerton
4	Alliance for Cooperative Energy Services Power Marketing LLC (ACES)	m	Roy J. True, Amadou Fall
5	American Electric Power Service Corp.	g	Joanne Goza, Joseph Hartsoe, Phil Cox
6	American Municipal Power, Inc.	m	Chris Norton
7	American Public Power Association	d	Delia Patterson
8	Arizona Electric Power Cooperative, Inc.	t	Shane Sanders, Barry Brown
9	Arizona Public Service Company	t	Twyana Blair
10	Associated Electric Cooperative, Inc.	t	Jeff Johns
11	AVANGRID	t	Jim Clemente, Carol A. Purinton
12	Avangrid Renewables, LLC	g	Erin Kester, Jan Korver
13	Avista Corporation	t	Jeff Schlect, Kenneth Dillon
14	Basin Electric Power Cooperative	t	Dave Rudolph
15	Basin Electric Power Cooperative	m	Ken Rutter
16	Basin Electric Power Cooperative	g	Jason Doerr
17	BC Hydro	t	Brenda Ambrosi
18	Black Hills Corporation	g	Kenna Hagan
19	Bonneville Power Administration	d	Eric H. Carter, Michael Steigerwald, Rebecca Berdahl, Rod Kelley
20	Bonneville Power Administration	g	Francis Halpin, Ann Shintani
21	Bonneville Power Administration	m	Andrew P. Meyers, Ann Shintani, Marie Pompel
22	Bonneville Power Administration	t	Michael D. Bausch
23	California Department of Water Resources	g	Glenn Solberg, William Forsythe
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

North American Energy Standards Board Membership List
As of June 21, 2017

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28	Deseret Generation & Transmission Co-operative	g	Clay MacArthur
29	Dominion Resources Services, Inc.	g	Lou Oberski
30	Duke Energy Corporation	d	Alan Pritchard
31	Duke Energy Corporation	t	Jack Armstrong, Michael Anthony, Lee Schuster
32	Dynegy Marketing and Trade, LLC	g	Contracts – Legal Department
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	Alan Richardson
37	Empire District Electric Company, The	t	Melinda Campbell
38	Enbridge (U.S.) Inc.	t	Travis Allen
39	Entergy Services, Inc.	t	Yarrow Etheredge, Narinder Saini
40	Eversource Energy	t	David Boguslawski, David Burnham
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	Hydro – Quebec Transenergie	t	Michel Prevost
50	Idaho Power Company	t	Kathy Anderson
51	Idaho Public Utilities Commission	e	Gene Fadness
52	Independent Electricity System Operator (IESO)	i	Nicholas Ingman, Scott Berry
53	Indiana Municipal Power Agency	g	Scott Berry
54	Indianapolis Power and Light Company	t	Michael L. Holtsclaw
55	ISO New England, Inc.	i	Matthew F. Goldberg, Douglas Smith, Eric Winkler
56	JEA	t	John Babik
57	Kansas City Power & Light Company	t	Denise Buffington
58	Kansas City Power & Light Company	g	Jennifer Flandermeyer
59	LG&E and KU Services Company	t	Ashley Moore, Daryn Barker
60	Links Technology Solutions, Inc.	ts	Robert VanValkenburg
61	Los Angeles Department of Water and Power	t	Kenneth Silver, Sueyen McMahon
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	MCG Energy Solutions	ts	Jerome Khan
66	Michigan Public Power Agency	d	Bruce Van Farowe
67	MidAmerican Energy Company	m	Dennis Kimm
68	Minnesota Public Utilities Commission	e	Robert Harding
69	MISO	i	Ed Skiba, Ellen Oswald

North American Energy Standards Board Membership List
As of June 21, 2017

	Organization	Seg¹	Contact
70	Missouri River Energy Services	d	Thomas J. Heller
71	Morgan, Lewis & Bockius LLP	t	Stephen M. Spina
72	Municipal Energy Agency of Nebraska	m	Robin Spady
73	Nalcor Energy	m	Brad Coady
74	National Association of Regulatory Utility Commissioners	e	Sam Watson
75	National Grid	t	Kevin Reardon
76	National Institute of Standards and Technology	ts	David A. Wollman
77	National Rural Electric Cooperative Association	d	Paul McCurley
78	Nebraska Public Power District	t	Don Schmit
79	New Jersey Board of Public Utilities	g	Cynthia Covie, Lauren Mattox
80	New York Independent System Operator, Inc. (NYISO)	i	Wesley Yeomans, Vijaya Ganugula
81	New York State Reliability Council	d	P. Donald Raymond
82	North American Electric Reliability Corporation	d	Mark Lauby
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	Todd Dinehart
93	PJM Interconnection, LLC	i	Rich Brown
94	Portland General Electric	t	Frank Afranji, John Walker, Johnny Useldinger
95	Power Costs, Inc. (PCI)	ts	David Nilsson, 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	Amanda Stallings
100	Puget Sound Energy, Inc.	t	George Marshall, Bob Harshbarger, Chelsey Neil
101	RBN Energy LLC	ts	Richard G. Smead
102	Sacramento Municipal Utility District	d	Steve Sorey
103	San Diego Gas & Electric Company	t	Martine Blair
104	Santee Cooper	t	Tom Abrams
105	Seattle City Light	m	Robin Cross
106	Seattle City Light	e	Robin Cross, Cory Anderson
107	Seminole Electric Cooperative, Inc.	m	Michael Ward
108	Snohomish County PUD No. 1	d	Kim Haugen
109	SoftSmiths, Inc.	ts	Lawrence S. Stone
110	South Carolina Electric & Gas Company	t	Matt Hammond, James T. Starling, Jr. , Sonya Green-

North American Energy Standards Board Membership List
As of June 21, 2017

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			Sumpter, Matt Bullard, Kevin Spitzform
111	Southern Company Services, Inc.	g	Marie Craig Knight, JT Wood
112	Southern Company Services, Inc.	m	Steve Lowe, JT Wood
113	Southern Company Services, Inc.	t	Terry Mozena, JT Wood
114	Southwest Power Pool	i	Carl Monroe, Michael Desselle, Charles Yeung
115	Tacoma Power	d	Rick Applegate
116	Tampa Electric Company	d	David Crabtree
117	Tenaska, Inc.	g	Brad Cox
118	Tennessee Valley Authority	g	Kathy York
119	Tennessee Valley Authority	m	Andrea Sanders Brackett, Valerie Crockett
120	Tennessee Valley Authority	t	Armando Rodriguez
121	TransAlta Energy Marketing (U.S.) Inc.	m	Steve Lincoln
122	Tri-State Generation and Transmission Association, Inc.	t	Doug Reese
123	Tri-State G&T Association, Inc.	g	Janelle Marriott
124	Tucson Electric Power Company	t	Raquel Aguilar, Ed Beck, Amy Welander
125	Vermont Public Power Supply Authority	g	William J. Gallagher
126	Vermont Public Service Board	e	Mary Jo Krolewski
127	Wabash Valley Power Association	g	Susan Sosbe
128	We Energies (Wisconsin Electric)	d	Linda Horn
129	We Energies (Wisconsin Electric)	g	Christopher Plante
130	Westar Energy, Inc.	g	Grant Wilkerson
131	Western Area Power Administration	t	Raymond Vojdani, Steve Sanders
132	Western Area Power Administration	m	Rebecca Johnson
133	Western Electricity Coordinating Council	t	Vijay A. Satyal
134	WPPI Energy	d	Todd Komplin
135	Xcel Energy Inc.	m	Randall L. Oye