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NAESB Membership Report - Quadrant/Segment Membership Analysis		Number of Members
WGQ Segments	TOTAL	125
	End Users	16
	Distributors	24
	Pipelines	39
	Producers	12
	Services	34
RMQ Segments	TOTAL	42
	Retail Electric End Users/Public Agencies	17
	Retail Gas Market Interests Segment	10
	Retail Electric Utilities	7
	Retail Electric Service Providers/Suppliers	8
WEQ Segments	TOTAL	137
	End Users	13
	Distributors	19
	Transmission	43
	Generation	21
	Marketers	21
	None Specified	1
	Independent Grid Operators/Planners	8
	Technology /Services	11

North American Energy Standards Board Membership List
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	Organization	Seg¹	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	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
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, Debra Anderson, Mark Carpenter
24	Ontario Ministry of Energy	e	Senka Krsikapa, Andrew Howse
25	Open Access Technology International, Inc.	s	Michelle Coon
26	Open Energy Solutions, Inc.	s	Larry Lackey
27	Pennsylvania Office Of Consumer Advocate	e	Tanya J. McCloskey
28	Pennsylvania Office of Consumer Advocate	g	Tanya J. McCloskey
29	Pennsylvania Public Utility Commission	e	Lee Yalcin, Jeff McCracken
30	Philadelphia Gas Works	g	Frank Weigert
31	Public Utilities Commission of Ohio	e	Krystina Schaefer, Barbara Cote
32	Public Utility Commission of Texas	e	Therese Harris
33	Southern Company Services, Inc.	u	Lincoln E. Wood
34	SouthStar Energy Services, LLC	g	Michael Braswell
35	Sprague Operating Resources LLC	g	Paul Scoff

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.

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	Organization	Seg¹	Contact
36	Systrends USA	g	Dave Darnell
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

Wholesale Gas Quadrant (WGQ) Members:

1	44Farris, LLC	s	Sylvia Munson
2	8760, Inc.	s	Jim Buccigross
3	Alliance Pipeline, LP	pl	Marcy McCain, Megan Miller
4	Ambit Energy Holdings, LLC	s	Drew Gormley
5	American Gas Association	l	Matthew J. Agen, Pete Connor
6	American Midstream Partners, LP	s	Bryan M. Escobedo
7	Anadarko Energy Services Company	pr	Y.J. Bourgeois, Beth Fruge, Scott Marshall, Chris Briggs, Brent Beitler
8	Aquilon Energy Services, Inc.	s	Jeffrey Wagner, Sylvia Munson
9	Atmos Energy	pl	Steve Easley
10	Blackstone Technology Group, Inc.	s	Rakesh Agrawal
11	Boardwalk Pipeline Partners, LP	pl	Randy Young, Kim Van Pelt
12	BP Energy	pr	Kathleen E. Magruder
13	California Energy Commission	e	Melissa Jones
14	Calpine Corporation	e	Shonnie Daniel, Jay Dibble, Brian Fields
15	Cascade Natural Gas Corporation	l	Eric Wood
16	Castleton Commodities Merchant Trading L.P.	s	Tara Liscombe, Amy McConnel
17	CenterPoint Energy Services, Inc.	s	Jeffrey Perryman, Timothy Muller, Wade Sadler
18	Centro Nacional de Control del Gas Natural (CENAGAS)	s	Eduardo Fernando Prud'homme Nieves
19	Cheniere Creole Trail Pipeline, LP	pl	Valerie Salas
20	Chevron Natural Gas	pr	Charles (Chuck) Cook
21	Cimarex Energy Co.	pr	Vanessa Hutto
22	Citigroup Energy, Inc.	s	Carrie Southard, Angela Davis
23	Colorado Springs Utilities	l	Abdessamad Nassif
24	ConocoPhillips Company	pr	Ben Schoene
25	Consolidated Edison Company of NY	l	Joel Yu
26	Corpus Christi Liquefaction, LLC	e	Donna Lowry
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

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33	Dominion Energy Questar Pipeline, LLC	pl	Rachel A. Hogge, Mark Christiansen
34	Dominion Energy Transmission Inc.	pl	Rachel A. Hogge, Ron Tomlinson
35	DTE Energy Trading, Inc.	s	Gregory V. Staton, James Buck, Dena Crawford, Marcia L. Hissong, Ann Marie Jambor, Cynthia Klots, Shelley Greene
36	DTE Gas Company	l	Kelly Fedele
37	Eastern Shore Natural Gas Company	pl	Laura Fevrin
38	Eclipse Resources Corporation	pr	Michael Truax
39	Emera Energy Services, Inc.	s	Dary Jessome, Will Szubielski
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	Marcy McCain, Megan Miller
44	Encana Marketing (USA) Inc.	s	Jeff Jarvis
45	Energycross LLC	s	Jay Bhatt
46	Energy Transfer Equity, L.P.	pl	Michael Langston, Larry Biediger, Mary Draemer, William White, Miki Kolobara
47	Entergy Services, Inc.	e	Laura Berryman, Brad Clausen
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	Racquel Jackson
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	Florida Southeast Connection LLC	pl	Mark McClure
58	Golden Pass Pipeline, LLC	pl	Joel Hindman
59	Golden Triangle Storage, Inc.	pl	Kimberly Watson, John Fortman, Darryl Kilpatrick
60	Gunvor USA LLC	S	David Webster, Jonathan Lietzke
61	Haynes and Boone, LLP	s	Kim Mai
62	Iberdrola USA Management Corporation (Rochester Gas and Electric Corp)	l	Mark Marini
63	Idaho Public Utilities Commission	e	Gene Fadness
64	IEnova Pipelines, S de R.L. de C.V.	pl	Victor Manuel Lozano Chavez
65	Imperial Irrigation District	e	Timothy Hamilton, R. Marc Printy, Scott Harding
66	Iroquois Gas Transmission System	pl	Tom Gwilliam
67	Kern River Gas Transmission Company	pl	Brenda Horton
68	Kinder Morgan Inc	pl	Gene Nowak, Mark Gracey, Nichole Lopez
69	Kinetica Partners, LLC	pl	Lynn Nguyen
70	Latitude Technologies LLC	s	Leigh Spangler
71	Liberty Utilities	l	Bill Killeen, Deborah Gilbertson

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	Organization	Seg¹	Contact
72	Macquarie Energy LLC	s	Michele McLendon, David Webster, Christi Nicolay
73	Marathon Oil Company	pr	Robin Phillips, Roger Raymond
74	MCP Operating LLC (Stingray Pipeline Company, L.L.C.)	pl	Jeremy Durocher
75	Midcontinent Independent System Operator, Inc.	e	Leonard Ashley
76	Millennium Pipeline Company, LLC	pl	Georgia B. Carter
77	Munich Re Trading LLC	s	Yvonne L. Aponte
78	National Fuel Gas Distribution Corporation	l	Mike Novak
79	National Fuel Gas Supply Corp.	pl	Deborah Kupczyk
80	National Grid	l	Andrew MacBride
81	New Jersey Natural Gas	l	Kathryn Ferreira
82	NiSource Inc.	l	Deepak Raval, Michael D. Watson
83	NJR Energy Services Company	s	Ginger Richman
84	Northern Natural Gas	pl	Micki Hoffee, Vickie Wonder
85	Northwest Natural Gas Company	l	Randolph Friedman
86	ONE Gas, Inc.	l	Larry Dykes
87	ONEOK Partners GP, LLC	pl	Teri Tingler, Denise Adams
88	Open Access Technology International, Inc.	s	Michelle Coon
89	PAA Natural Gas Storage, LLC	s	Eileen W. Kisluk
90	Pacific Gas and Electric Company	l	Dave Lewis
91	Paiute PipeLine Company	pl	Mark A. Litwin
92	Peoples Gas System	l	Karen L. Bramley, David Crabtree
93	Piedmont Natural Gas	l	Michelle Mendoza
94	Power Authority of the State of New York (dba NYPA)	e	Enrico Montesa, Jr.
95	QEP Resources, Inc.	pr	Steve Stanton
96	Quorum Business Solutions Inc.	s	Emily Perryman
97	Rager Mountain Storage Company, LLC	pl	Paul Diehl, Shawn A. Smith
98	S&P Global	s	Sue Dlin, Arleen Long
99	Sabine Pass Liquefaction, LLC	e	Emily Browning
100	Salt River Project Agricultural Improvement & Power District	e	Willis E. McCluskey
101	Sempra Infrastructure, LLC	pl	Dan King, Elizabeth Peters
102	Sequent Energy Management, L.P.	s	Karen Bleil, Kathryn L. McCoy, Chris Russo
103	Shell Energy North America (US), L.P.	s	Eric Gillaspie
104	Skipping Stone, LLC	s	Greg Lander
105	Southern California Gas Company	l	Richard Ishikawa
106	Southern Company Gas	l	Tim Sherwood
107	Southern Company Services, Inc.	e	Alan Kilpatrick, Roy D. Hiller
108	Southern Star Central Gas Pipeline	pl	Robin Joska, Ronnie Hensley, Doug Field
109	Southwest Gas Corporation	l	John Olenick, Mark Anderson, Mark Litwin
110	Spire Inc.	l	Mark Darrell
111	SWN Energy Services Company, LLC	pr	Bill Hebenstreit
112	Tallgrass Operations, LLC	pl	Karl Almquist
113	Tennessee Valley Authority	e	Valerie Crockett

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	Organization	Seg¹	Contact
114	Tiger Natural Gas	s	John Burris
115	TransCanada Pipelines Limited	pl	Steven W. McCord, Millie S. Moran, Sherry Hill
116	UGI Central Gas Control, LC	pl	Craig Blume
117	Unitil Service Corporation	l	Joseph Conneely
118	Vector Pipeline L.P.	pl	Amy Bruhn
119	Vectren Corporation	l	Perry Pergola
120	Vitol Inc.	pl	Robert Viola, Juany Martinez
121	WBI Energy Transmission, Inc.	pl	Nancy Senger, Lori Myerchin, Gwen Schoepp
122	WEC Energy Group	l	Todd Duffield, Jody Arendt
123	Williams	pl	Michael Rasmuson, Melissa Casey, Brian Roquemore
124	World Fuel Services, Inc.	s	Rachel Welch
125	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
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, Rod Kelley
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	Deseret Generation & Transmission Co-operative	g	Clay MacArthur

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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	Chad Wilcox
37	Enbridge (U.S.) Inc.	t	Travis Allen
38	Entergy Services, Inc.	t	Yarrow Etheredge, Narinder Saini
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	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
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	Los Angeles Department of Water and Power	t	Sueyen McMahon
61	Los Angeles Department of Water and Power	m	Anton Vu, Joel F. Cordero
62	Maine Public Utilities Commission	e	Denis Bergeron
63	Manitoba Hydro	t	Robin Rebillard
64	Michigan Public Power Agency	d	Erinn Evans
65	MidAmerican Energy Company	m	Dennis Kimm
66	Minnesota Public Utilities Commission	e	Robert Harding
67	MISO	i	Ed Skiba, 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

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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
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	RBN Energy LLC	ts	Richard G. Smead
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	Tom Abrams
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	Kim Haugen
110	SoftSmiths, Inc.	ts	Lawrence S. Stone
111	South Carolina Electric & Gas Company	t	Matt Hammond, James T. Starling, Jr. , Sonya Green-

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			Sumpter, Matt Bullard, Kevin Spitzform
112	Southern Company Services, Inc.	g	Marie Craig Knight, JT Wood
113	Southern Company Services, Inc.	m	Ron Carlsen, JT Wood
114	Southern Company Services, Inc.	t	Wes Barber, JT Wood
115	Southwest Power Pool	i	Carl Monroe, Michael Desselle, Charles Yeung
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	Westar Energy, Inc.	g	Grant Wilkerson
133	Western Area Power Administration	t	Raymond Vojdani, Steve Sanders
134	Western Area Power Administration	m	Rebecca Johnson
135	Western Electricity Coordinating Council	t	Layne Brown
136	WPPI Energy	d	Todd Komplin
137	Xcel Energy Inc.	m	Randall L. Oye