

# Multi-Value Transmission Projects and Lessons for Transmission Planning

## A Northwestern Electricity Dialogue Webinar

Northwestern Pritzker School of Law

Tuesday, October 26, 2021

8:45 a.m. – 12:00 p.m. CDT

9:45 a.m. – 1:00 p.m. EDT

*Times listed below are CDT.*

*There is growing recognition that more transmission is needed throughout the country to enable the transition of the generation fleet, allow for interconnection of renewables, preserve reliability, enhance resilience, and of course to allow for the lowest cost delivered electricity. On June 17, 2021, the FERC announced, with NARUC, the creation of a joint federal-state task force on electric transmission to find a way to promote, encourage, and encourage transmission development.*

*This Dialogue will address the transmission issues from multiple angles. It starts with a Big Picture, national perspective; then moves to a review of the MVP Transmission process from key participants and the experience and lessons they learned from being part of the at successful effort. It closes with a discussion among regulators coping with today's transmission issues.*

*In the summer of 2004, a group of utilities in the Upper Midwest came together to promote transmission development. They called themselves CapX2020 for Capacity Expansion Needed by 2020. On September 18, 2008, the governors of Iowa, Minnesota, North Dakota, South Dakota, and Wisconsin collectively announced a joint transmission planning effort designed to promote regional electric transmission investment and cost sharing. They called it the Upper Midwest Transmission Development Initiative (UMTDI) whose goal, according to then-Minnesota Governor Tim Pawlenty, was to “identify wind generation resources, transmission projects and infrastructure needed to support those resources in a cost-effective manner...and...determine a reasonable allocation for the costs of the region and will lead to the development of a concrete plan or tariff proposal for the Midwest Independent Transmission System Operator (MISO).”*

*On July 15, 2010, MISO filed its MVP Transmission tariff with FERC. That filing was both the culmination of the CapX2020 and UMTDI transmission planning processes, combined with the arduous OMS-led Cost Allocation and Regional Planning (CARP) effort. That MISO tariff facilitated roughly \$7 Billion of new transmission investment in 17 transmission projects throughout the Midwest.*

8:45-9:00 a.m.

**Welcome**

**Carrie Zalewski, Chair, Illinois Commerce Commission**

9:00-10:00

**Keynote Addresses**

**Moderator: Carrie Zalewski, Chair, Illinois Commerce Commission**

- **Richard Glick**, Chair, Federal Energy Regulatory Commission
- **Philip D. Moeller**, Executive Vice President, Business Operations Group and Regulatory Affairs, Edison Electric Institute (EEI)

10:00-11:00

**Session One — MVPs: Lessons Learned from A Transmission Planning Success Story**

*This Panel will describe the good, bad, and ugly of the process that led to creation of the Multi-Value Transmission Projects in the MISO footprint from people who were intimately involved in that multiyear process.*

**Moderator: David Boyd**, Regulatory and Policy Strategist, AESL Consulting (*Minnesota PUC 2007 – 2015*)

**Eric J. Callisto**, Partner, Michael Best & Friedrich LLP (*Wisconsin PSC 2008 – 2015*)

**Tony Clark**, Senior Advisor, Wilkinson Barker Knauer LLP (*North Dakota PSC 2001 – 2012; FERC 2012 – 2016*)

**Valerie Lemmie**, Director of Exploratory Research, Kettering Foundation (*PUC of Ohio 2006 – 2011*)

11:00-12:00 p.m.

**Session Two — That Was Then; This Is Now: Can the MVP Lessons Be Applied to Meet Today’s Transmission Needs?**

*This panel will feature regulators who are currently struggling with meeting present and future transmission needs and will discuss how the lessons of the MVP process are applicable (or not) to today’s situation.*

**Moderator: Krista Tanner**, SVP and Chief Business Unit Office, ITC Holdings (*Iowa Utility Board 2007 – 2011*)

**Andrew J. French**, Chairperson, Kansas Corporation Commission

**Kristine Raper**, Commissioner, Idaho Public Utilities Commission

**Dan Scripps**, Chair, Michigan Public Service Commission

12:00 p.m.

**Adjourn**

**Participants (as of October 26, 2021)**

1. **David Boyd**, Regulatory and Policy Strategist, AESL Consulting
2. **Eric J. Callisto**, Partner, Michael Best & Friedrich LLP
3. **Tony Clark**, Senior Advisor, Wilkinson Barker Knauer LLP
4. **Andrew J. French**, Chairperson, Kansas Corporation Commission
5. **Richard Glick**, Chair, Federal Energy Regulatory Commission
6. **Valerie Lemmie**, Director of Exploratory Research, Kettering Foundation
7. **Phil Moeller**, Executive Vice President, Edison Electric Institute
8. **Dan Scripps**, Chair, Michigan Public Service Commission
9. **Kristine Raper**, Commissioner, Idaho Public Utilities Commission
10. **Krista Tanner**, SVP and Chief Business Unit Office, ITC Holdings
11. **Carrie Zalewski**, Chair, Illinois Commerce Commission

**Registrants (as of October 26, 2021)**

1. **Ed Achaab**, Asset Strategy, AEP
2. **Jared Alholinna**, Leader, Economic Transmission Planning, Great River Energy
3. **Kelsey Allen**, Lead Engineer, Southwest Power Pool
4. **Heather Anderson**, Staff Attorney, SC Senate
5. **Kenneth Anderson**, Former PUCT Commissioner
6. **Pedram Arani**, FERC CAISO ANALYST, PG&E
7. **Alison Archer**, Regional Director, MISO
8. **Kelly Aves**, Legal and Policy Advisor, Illinois Commerce Commission
9. **Vicki Baldwin**, Shareholder, Parsons Behle & Latimer
10. **Kim Ballard**, Senior Analyst, Indiana Utility Regulatory Commission
11. **William Barkasy**, Rate Analyst, New Jersey Board of Public Utilities
12. **James Bartridge**, Program and Policy Specialist, California Energy Commission
13. **Mark Bender**, Advisor, Public Service Commission of Wisconsin
14. **Stephen Bennett**, Manager, Regulatory & Legislative Affairs, PJM
15. **Adam Benschhoff**, VP, Regulatory Affairs, EEI
16. **Deborah Birgen**, Vice-President, Legislative and Governmental Relations, Missouri River Energy Services
17. **Scott Bolton**, SVP, Transmission Development, PacifiCorp
18. **David Borden**, Senior Energy Industry Analyst, Federal Energy Regulatory Commission
19. **Brandon Bowen**, Senior Analyst, Indiana Utility Regulatory Commission
20. **Bev Bowlby**, Manager Regulatory Affairs, Ameren Illinois
21. **Kate Bowman**, Renewable Energy Program Manager, Utah Clean Energy
22. **Joe Bowring**, President, Monitoring Analytics
23. **Tim Brennan**, Senior Fellow, Resources for the Future
24. **Daryl Brown**, Executive Director - External Affairs - South Region, MISO-Little Rock
25. **David Brown**, Engineer, NJBPU
26. **Rich Brunt**, Sr. Analyst, Indiana Utility Regulatory Commission
27. **Denise Buffington**, Director Federal Regulatory Affairs, Evergy Companies
28. **Ven Bujimalla**, Deputy General Counsel, IUB
29. **Kim Burton**, Chief of Staff and Legal Advisor to Chairman Silvey, Missouri PSC
30. **Colin Byers**, Senior Campaign Coordinator, Union of Concerned Scientists
31. **Tanya Capellan**, Director ORMD, Illinois Commerce Commission
32. **Michael Carrigan**, Commissioner, Illinois Commerce Commission
33. **Phillip Casey**, Partner, Calfee
34. **Ricardo Charles**, Energy Industry Analyst, FERC

35. **Theresa Christian**, Sr. Corp. Strategy Manager, Exelon
36. **Julie Clark**, Attorney, Clark Energy Law
37. **Maida Coleman**, Commissioner, Missouri Public Service Commission
38. **Emile Cordaro**, External Affairs Manager, aep swepeco
39. **David Crawford**, Of Counsel, Betts & Holt LLP
40. **James Critchfield**, Program Manager, US EPA
41. **Sarah Cronin**, Commissioner Assistant, ICC
42. **Richard Dahl**, Director of Transmission Services, Missouri River Energy Services
43. **Jeff Danielson**, Central States Director, American Clean Power Association
44. **Eric Dearmont**, Director, Ameren
45. **Megan Decker**, Commission Chair, Oregon PUC
46. **Scott Deffenderfer**, Principal Engineer, Ameren
47. **Joseph DeLosa**, Bureau Chief, Federal and Regional Policy, New Jersey Board of Public Utilities
48. **Jeff Dodd**, Senior Director - Transmission Policy & Stakeholder Relations, Ameren
49. **Jeremiah Doner**, Director, Economic and Policy Planning, MISO
50. **Brian Drumm**, Director, Regional Policy, ITC
51. **Scott Drzycimski**, Director - Public Affairs, ITC Midwest
52. **Maisha Earl**, Regulatory Affairs Manager, ComEd
53. **Eric Eisenman**, Director, FERC & ISO Relations, Pacific Gas & Electric Company
54. **Matt Ellis**, Regional Transmission Program Manager, Great River Energy
55. **Abigail Emery**, Paralegal, Kansas Corporation Commission
56. **Robert Endris**, Associate General Counsel, Otter Tail Power Company
57. **Christine Ericson**, Federal Energy Counsel, Illinois Commerce Commission
58. **Linda Evers**, Shareholder, Stevens & Lee
59. **Jeff Ewart**, Deputy Director, Midwestern Governors Association
60. **Joseph Fallah**, Policy Advisor, Illinois Commerce Commission
61. **John Feeley**, Staff Attorney ICC, Illinois Commerce Commission
62. **Neal A. Fitch**, Sr. Director, Regulatory Affairs, NRG Energy, Inc.
63. **Trevor Freberg**, Transmission Reliability Planning Engineer, ComEd
64. **Al Freeman**, Assistant to Division Director, Michigan Public Service Commission
65. **Edward Garvey**, Regulatory Strategist, AESL Consulting
66. **Larry Gasteiger**, Executive Director, WIRES
67. **Bruce Gerhardson**, VP Regulatory Affairs, Otter Tail Power Company
68. **Glenda Gibson**, Manager, Regulatory Compliance, NorthWestern Energy
69. **James Gignac**, Senior Midwest Energy Analyst, Union of Concerned Scientists
70. **Suzanne Glatz**, Director, Strategic Initiatives and Interregional Planning, PJM Interconnection
71. **Moinica Gonzalez**, Assistant General Counsel - Operations & Planning, ISO New England Inc.
72. **Katherine Goyette**, Counsel, MA DPU
73. **Justin Grady**, Chief of Revenue Requirements, Cost of Service and Finance, Kansas Corporation Commission
74. **Jordan Graham**, Policy Advisor, Illinois Commerce Commission
75. **Ryan Granholm**, Staff Attorney, Illinois Commerce Commission
76. **Richard Griffin**, Associate, Latham & Watkins
77. **Emma Guilfoil**, Senior Analyst, ScottMadden Inc.
78. **Justin Gundlach**, Senior Attorney, Institute for Policy Integrity at NYU School of Law
79. **Glenn Haake**, Special Counsel, New York Power Authority
80. **Daniel Hall**, Central Region Senior Director, Electricity and Transmission Policy, ACPA
81. **Neil Hammer**, GM, Transmission Development & Policy, MidAmerican Energy Company
82. **James Harmening**, Director of Cybersecurity and Risk Management, Illinois Commerce Commission

83. **Matt Harris**, Lead Assistant General Counsel, Xcel Energy Services Inc.
84. **Marcus Hawkins**, Executive Director, OMS
85. **Christina Hayes**, VP, Fed Reg Affairs, BHE
86. **Pat Hayes**, Manager of Transmission Policy, LS Power
87. **Ryan Heater**, Chief of Staff, Indiana Utility Regulatory Commission
88. **Stacie Hebert**, Manager, FERC/RTO Policy, Otter Tail Power Company
89. **Erik Heinle**, APC, DC OPC
90. **Jessica Hendricks**, State Policy Director, The Alliance for Affordable Energy
91. **Mary-Anna Holden**, Commissioner, NJ Board of Public Utilities
92. **Cynthia Holland**, Assistant General Counsel, Exelon
93. **Amber Housholder**, Regulatory Affairs Manager, Evergy
94. **Cullen Howe**, Senior Attorney, NRDC
95. **Tyler Huebner**, Commissioner, Public Service Commission of Wisconsin
96. **Kevin Huyler**, Director, National Grid
97. **Brian Isom**, Research Manager, The Center for Growth and Opportunity
98. **Diana James**, Regulatory Conslt, SWEPCO
99. **Bonnie Janssen**, Manager, Energy Markets, Michigan Public Service Commission
100. **Graham Jesmer**, Regulatory Counsel, ISO New England
101. **Jared Jevons**, Litigation Counsel, Kansas Corporation Commission
102. **David Johnston**, Chief Technical Advisor, Indiana Utility Regulatory Commission
103. **Philip Jones**, Executive Director, Alliance for Transportation Electrification
104. **Ben Kaldunski**, Public Policy Analyst, Public Service Commission of Wisconsin
105. **Christopher Kennedy**, Partner, Whitt Sturtevant LLP
106. **Brad Klein**, Senior Attorney, ELPC
107. **Mark Klein**, Chief Operating Officer, Broad Reach Power LLC
108. **Joshua Kmiec**, Director, ScottMadden, Inc.
109. **Ryan Kohler**, Director, Office of Regional Markets, Public Service Commission of Wisconsin
110. **Jonghwan Kwon**, Energy Systems Engineer, Argonne National Laboratory
111. **Clay Layson**, Assistant Attorney General, AR Attorney General's Office
112. **Matt Lecar**, Principal, PG&E
113. **Brett Leopold**, President, ITC Great Plains
114. **Wei Chen Lin**, Policy Advisor - Cybersecurity & Risk Management, Illinois Commerce Commission
115. **Shelby Linton Keddie**, Sr. Director, State Energy and Regulatory Policy, EEI
116. **Nicole Luckey**, Senior Vice President, Regulatory Affairs, Invenergy LLC
117. **Ivy Lyn**, Director, State Regulatory Affairs, EEI
118. **Kavita Maini**, Principal, Midwest Industrial Customers
119. **Sophia Markowska**, market Associate, ICC
120. **Chris Martel**, Regulatory Consultant, SWEPCO
121. **James Martin**, Student, Kellogg School of Management, Northwestern University
122. **Carly Masenthin**, Litigation Counsel, Kansas Corporation Commission
123. **Rodney Massman**, Asst Gen Counsel, MOPSC
124. **Daryl Maxwell**, Department Manager, Manitoba Hydro
125. **Ann McCabe**, US Program Director and Principal, Regulatory Assistance Project (Providence, RI)
126. **Janna McCardel**, Analyst, Indiana Utility Regulatory Commission
127. **Jeff McClanahan**, Director - Utilities Division, Kansas Corporation Commission
128. **Kate McCormick**, Assistant Director, Policy, Illinois Commerce Commission
129. **Natalie McIntire**, Consultant, Clean Grid Alliance
130. **Sri Medicherla**, Engineer, NJ BPU

131. **Scott Miller**, Executive Director, Western Power Trading Forum
132. **John Miller**, Energy Industry Analyst, Federal Energy Regulatory Commission
133. **David Moeller**, Senior Attorney & Director of Regulatory Compliance, ALLETE
134. **Sonia Morgan**, Rate Manager, AEP-SWEPCO
135. **Meagan Morley**, Staff Attorney, Office of General Counsel, Illinois Commerce Commission
136. **Lindsay Mouw**, Policy Associate, Center for Rural Affairs
137. **Tony Mugera**, Economist, Illinois Commerce Commission
138. **Jennifer Murphy**, Dir. of Energy Policy, NARUC
139. **Neeharika Naik-Dhungel**, Program Manager, U.S. EPA
140. **Chris Nelson**, Commissioner, SD PUC
141. **Liam Noailles**, Manager, Federal Regulatory Affairs, Xcel Energy Inc.
142. **Ellen Nowak**, Commissioner, Public Service Commission of Wisconsin
143. **Stacy Nowak**, Utility Analyst, Indiana Utility Regulatory Commission
144. **Erin O'Connell-Diaz**, President, FutureFWD, Inc.
145. **Kim O'Guinn**, Commissioner, Arkansas Public Service Commission
146. **Matthew Olsen**, Mgr, Regulatory Proceedings and Compliance, Otter Tail Power Co.
147. **Christopher Oprysk**, environmental engineer, NJ BPU
148. **Katie Otterbeck**, Associate Attorney, Wilkinson Barker Knauer
149. **Nikodem Pancewicz**, Student, Northwestern University
150. **Katie Papadimitriou**, Deputy ED-Policy, ICC
151. **Lopa Parikh**, Senior Director, EEI
152. **Rushi Patel**, Sr. Analyst, Metroplex Energy
153. **Matt Pawlowski**, Executive Director - Business Management, NextEra Energy Resources, LLC
154. **Audrey Penner**, Market Access, Manitoba Hydro
155. **Katherine Peretick**, Commissioner, Michigan Public Service Commission
156. **Tom Petersen**, Director - Marketing & Communications, ITC
157. **Bennett Peterson**, Consultant, Guidehouse
158. **Matt Prorok**, Sr Policy Manager, Great Plains Institute
159. **Tetyana Rabczak**, Chairman Legal Advisor, Illinois Commerce Commission
160. **Steve Rakow**, Analyst Coordinator, Minnesota Department of Commerce
161. **Christopher Randall**, Director, Federal Regulatory Affairs, EEI
162. **Jay Rasmussen**, Wholesale Markets and Transmission Policy Senior Manager, Duke Energy
163. **John Ratnaswamy**, Member, The Law Office of John Ratnaswamy, LLC
164. **Kolton Ray**, Illinois Commerce Commission
165. **Ryann Reagan**, Aide to the Commissioner, NJBPU
166. **Ann Rendahl**, Commissioner, Washington Utilities and Transportation Commission
167. **Ashley Renkor**, Commissioner's Assistant, Illinois Commerce Commission
168. **Jeff Ripp**, Director, Regulatory Strategy & Solutions, Alliant Energy
169. **Jack Roback**, Low Carbon and Sustainability Strategy Lead, bp
170. **Tom Rutigliano**, Sr. Advocate, NRDC
171. **Mike Saer**, Transmission Policy Program Manager, Great River Energy
172. **Susan Satter**, Chief, Public Utilities Bureau, Ofc Illinois Attorney General
173. **David Schmitt**, Legal Specialist, New Jersey Board of Public Utilities
174. **Jeremy Schwartz**, Lead Pricing Analyst, Oklahoma Gas & Electric Company
175. **Doug Scott**, Vice President, Great Plains Institute
176. **Brian Selinger**, Energy Team Leader, Iowa Economic Development Authority Iowa Energy Office
177. **Bridget Sheehan**, Staff Attorney, Illinois Commerce Commission
178. **Katie Sieben**, Chair, MN Public Utilities Commission
179. **Drew Siebenaler**, Manager, Regional Transmission Planning and Analytics, Xcel Energy

180. **Jay Skabo**, VP Elec Supply, MDU
181. **Ben Sloan**, Director of Regulatory Affairs, OMS
182. **Robert Snook**, Assistant Attorney General, Connecticut Department of Energy and Environmental Protection
183. **Beth Soholt**, Executive Director, Clean Grid Alliance
184. **Regina Speed-Bost**, Founder and Managing Partner, SB Law, PLLC
185. **David Spence**, Professor, University of Texas
186. **Andrea Spring**, Staff, FERC
187. **Priya Sreedharan**, Program Director, GridLab
188. **Elizabeth Stephens**, Regulatory Consultant, AEP/SWEPCO
189. **Marina Stever**, Energy Policy Analyst, State of Missouri
190. **Justin Stewart**, Ameren
191. **Tyler Stoff**, Director of Regulatory Affairs, American Council on Renewable Energy
192. **Dylan Stupca**, Supervisor T&D Studies, Otter Tail Power Company
193. **Chris Sturgill**, Director, ScottMadden, Inc.
194. **Haibin Sun**, Director, Transmission, Exelon
195. **Heather Svenson**, RTO Strategy Manager, PSEG
196. **Simon Tanapat-Andre**, Engineer, Manitoba Hydro
197. **Justin Tate**, Commissioner, Arkansas PSC
198. **Robert Taylor**, Manager, Transmission Strategy, Exelon Utilities
199. **Dusky Terry**, President, ITC Midwest
200. **Rob Threlkeld**, Global Manager - Energy Strategy, General Motors
201. **Ahmed Tijani**, Project Manager (Renewable Energy), Sterling Bank Plc
202. **Henry Tilghman**, Principal, Tilghman Associates
203. **Beth Trombold**, Commissioner, Public Utilities Commission of Ohio
204. **Brian Tulloh**, Executive Director, External Affairs North Region, MISO
205. **William VanderLaan**, Economic Analyst, Illinois Commerce Commission
206. **Justin Vickers**, Staff Attorney, ELPC
207. **Julie Voeck**, Senior Director, Legislative and Regulatory Affairs, NextEra Energy Resources
208. **John Wachtler**, Energy Director, Minnesota Department of commerce
209. **Michael Watkins**, Strategic Advisor, Seattle City Light
210. **Quentin Watkins**, Manager, ScottMadden, Inc.
211. **Jason Weiers**, Manager, Delivery Planning, Otter Tail Power Company
212. **Carolyn Wetterlin**, Senior Manager, RTO Policy, Xcel Energy (Northern States Power Company)
213. **Rebecca West**, Research Associate, Illinois Commerce Commission
214. **Simon Whitelocke**, President, ITC Michigan, ITC
215. **Andy Witmeier**, Director Resource Utilization, MISO
216. **Hannah Wiseman**, Professor, Penn State Law--University Park
217. **Jeremi Wofford**, Sr. RTO Policy Specialist, Ameren
218. **Lynn Wolters**, Rates Analyst, Otter Tail Power
219. **Leet Wood**, Analyst, Edison Electric Institute
220. **John Wright**, Assistant Attorney General, CT Attorney General
221. **Kevin Yearington**, Electric Inspector Supervisor, Iowa Utilities Board
222. **Ryan Young**, Project Manager, State of Iowa Energy Office
223. **Michelle Zaccagnino**, Sr. Manager, State Regulatory Policy, Edison ElectricInstitute