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## **Achieving Deep Carbon Reductions: Paths for Pennsylvania's Electricity Future**

<b>March 15, 2017</b>	<b>The Learning Day</b>
<b>8:00 a.m.</b>	Coffee and Continental Breakfast
<b>8:30 a.m.</b>	<b>Welcome:</b> Davitt Woodwell, Pennsylvania Environmental Council <b>Introductory Remarks:</b> Patrick McDonnell, Acting Secretary, Pennsylvania Department of Environmental Protection
<b>8:50 a.m.</b>	<b>Setting the Stage:</b> Neil Donahue, Carnegie Mellon University
<b>9:15 a.m.</b>	<b>Morning Keynote:</b> Why Deep Decarbonization? Granger Morgan, Carnegie Mellon University
<b>10:15 a.m.</b>	<b>Break</b>
<b>10:40 a.m.</b>	<b>Renewable Energy: Potential and Limitations</b> <b>Lead presenter:</b> Jesse Jenkins, Massachusetts Institute of Technology <b>Panelists:</b> Eric Gimon, Energy Innovation Steve Brick, Clean Air Task Force  <b>Moderator:</b> Mark Alan Hughes, Kleinman Center for Energy Policy, University of Pennsylvania
<b>11:50 a.m.</b>	<b>Lunch Buffet</b> <b>Introductory Remarks:</b> Jared Cohon, Scott Institute, Carnegie Mellon University <b>Lunch Keynote:</b> "Climate Change and National Security: People not Polar Bears," David Titley, Penn State University
<b>1:00 p.m.</b>	<b>Nuclear Power: Obsolete Technology or Key to Decarbonized Future?</b>  <b>Lead presenter:</b> Mike Ford, Carnegie Mellon University <b>Panelists:</b> Amber Robson, Third Way Matthew McKinzie, Natural Resources Defense Council  <b>Moderator:</b> Mike Griffin, Carnegie Mellon University

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2:15 p.m.	<p><b>Redefining Energy Efficiency for Deep Decarbonization: Thinking Outside of the Building</b></p> <p><b>Lead presenter:</b> Inês Azevedo, Carnegie Mellon University</p> <p><b>Panelists:</b> Matt Jungclaus, Rocky Mountain Institute Sebastien Houde, University of Maryland</p> <p><b>Moderator:</b> Sonny Popowsky, former Consumer Advocate of Pennsylvania, Kleinman Center for Energy Policy Advisory Board</p>
3:35 p.m.	<p><b>Afternoon Break</b></p>
3:55 p.m.	<p><b>Carbon Capture and Storage for Natural Gas and Coal in a Decarbonized Future</b></p> <p><b>Lead presenter:</b> John Quigley, Kleinman Center for Energy Policy, University of Pennsylvania</p> <p><b>Panelists:</b> David Mohler, Department of Energy, <i>retired</i> Jennie Stephens, Northeastern University</p> <p><b>Moderator:</b> Aimee Curtright, RAND Corporation</p>
5:05 p.m.	<p><b>Wrap-Up</b></p>
5:15 p.m.	<p><b>Reception</b> Location: Allegheny Overlook <i>Cocktails and Hors d'oeuvres</i></p>

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March 16, 2017	Discussing a Pennsylvania Strategy
8:00 a.m.	Coffee and Continental Breakfast
9:00 a.m.	<b>Welcome</b>
9:15 a.m.	<b>Environmental Leaders Response</b> Moderator: Davitt Woodwell, Pennsylvania Environmental Council Armond Cohen, Clean Air Task Force Mark Brownstein, Environmental Defense Fund Jason Albritton, The Nature Conservancy
10:00 a.m.	<b>Case Study: The U.S. Mid-Century Strategy for Deep Decarbonization</b> Jae Edmonds, Pacific Northwest National Laboratory
11:00 a.m.	<b>Break</b>
11:20 a.m.	<b>Concurrent Sessions</b> Break out sessions with panels comprised of Pennsylvania decision makers and issue experts, with audience engagement about whether a deep decarbonization strategy is appropriate for Pennsylvania, and what state-specific next steps should be.  <u>Panel Participants include:</u> <ul style="list-style-type: none"><li>• Hayley Book, PA PUC</li><li>• Baird Brown, Drinker Biddle</li><li>• Mark Brownstein, Environmental Defense Fund</li><li>• Evan Endres, The Nature Conservancy</li><li>• John Hanger, Hanger Consulting, former DEP Secretary</li><li>• Mel Koleber, Rye Development</li><li>• Bobby McKinstry, Ballard Spahr</li><li>• Kathy Robertson, Exelon</li><li>• Aurora Sharrard, Green Building Alliance</li><li>• Christina Simeone, Kleinman Center for Energy Policy, University of Pennsylvania</li><li>• Mort Webster, Pennsylvania State University</li><li>• Keith Welks, Pennsylvania State Treasury</li></ul>
12:35 p.m.	<b>Wrap Up and Next Steps</b> Boxed lunches provided.
2:00 p.m.	<b>Adjourn</b>