

# **Suggested Readings**

Below is a list of studies, reports, books, and articles related to the low-carbon pathways and deep decarbonization, current as of April 2017.

### **Low-Carbon Pathways Overview**

- Heinberg, Richard and David Fridley. 2016. Our Renewable Future. Post Carbon Institute, Island Press, Introduction, pp. 1-11
- Near-Term Strategies for Achieving Greenhouse Gas Emissions Reduction in the Pacific Northwest: Lessons from Existing Literature and Models," October 19,2016. Energy + Environmental Economics
- Rockstrom, Johan, Owen Gaffney, Joeri Rogelj, Makta Meinshausen, Nebojsa
   Nakicenovic, Hans Joachim Schellnhuber. March 24, 2017. Science, Vol 355. Issue 6331. p. 1269-1271
- Horn, Heather. The Atlantic. December 18, 2015. The Race to Remake the World's Energy
- Hawken, Paul. 2017. **Drawdown.** Penguin Books. Chapter—Energy pp. 2-36, 222-225.
- Heinberg, Richard and David Fridley. 2016. *Our Renewable Future*. Post Carbon Institute,
   Island Press, Chapter 1—A Quick at Our Current Energy System, pp. 13-34
- Kolbert, Elizabeth. November 20, 2017. The New Yorker. <u>Can Carbon-Dioxide Removal</u> Save the World?
- Romm, Joseph J. and Amory B. Lovins. Foreign Policy, 1992/Winter. <u>Fueling a Competitive</u>
   <u>Economy</u>

## **Low-Carbon Pathways Electricity**

- Heinberg, Richard and David Fridley. 2016. *Our Renewable Future*. Post Carbon Institute, Island Press, Chapter 3—Renewable Electricity: Falling Costs, Variability, and Scaling Challenges p. 48-80
- Roberts, David. October 27, 2017. Vox. <u>The key to tackling climate change: electrify</u> everything
- Adams, Rod. November 21, 2017. The Energy Collective. <u>Consumers Win if Electricity</u>
   Production Capacity Remains High
- Johnson, Kirk. December 11, 2017. The New York Times. Rethinking Electric Power, Prompted by Politics and Disaster.
- Heerema, Dylan. Pembina three-part series on the Electrifying Path to Decarbonization.
   Part 1 Electric heat pumps are key to low-carbon homes and buildings January 4,2018;

   Part 2: Unleashing the benefits of electrification for utilities and customers January 8,
   2018; Part 3: Electrification of buildings: A cornerstone of Canada's low-carbon future
   January 10, 2018.
- Op-ed battle re: Columbia Generating Station between Brent Ridge, CFO of Energy Northwest and Robert McCullough. Oregon Live. August 3, 2016.

#### **Low-Carbon Pathways-Transportation**

- Heinberg, Richard and David Fridley. 2016. Our Renewable Future. Post Carbon Institute, Island Press, Chapter 4—Transportation: The Substitution Challenge p. 81-95
- Ghosh, Indradeep. May 23, 2016. CleanTechnica. Fuel Switching: An Essential Step to a Decarbonized Future.
- Saxon, Steve and Matt Stone. November 1, 2017. McKinsey & Company. <u>How Container</u> Shipping could reinvent itself for the digital age
- Vinsel, Lee and Constantine Samaras. September 19, 2017. The Conversation. Some of the best parts of autonomous vehicles are already here.
- Mims, Christopher. August 28, 2016. Wall Street Journal. Why EVs will be here sooner than you think
- Milman, Oliver. January 1, 2018. The Guardian. Vehicles are now America's biggest CO2 source, but EPA is tearing up regulations.
- Williams, Eric. January 11, 2018. The Conversation. Autonomous Vehicles help millions catch up on sleep and work.
- Soudi, Abdesalam. January 7, 2018. The Conversation. <u>Driverless cars might follow the</u> rules of road but what about language of driving?
- Barkenbus, Jack. January 3, 2018. The Conversation. To get most out of self-driving cars, tap brakes on rollout
- Erriquez, Mario, Thomas Morel, Pierre-Yves Mouliere, and Philip Schafer. October 2017. McKinsey & Company. <u>Trends in electric-vehicle design</u>
- Mitchell, Russ. June 16, 2017. Los Angeles Times. Why electric buses juice California's economy? Start-up Proterra thinks so.
- Conca, James. March 23, 2017. Forbes. Charged Up: Electric Cars Are Morphing into Many Species.
- Cheung, Albert. July 31, 2107. Bloomberg New Energy Finance. The EV Bandwagon is Accelerating, but is it unstoppable?
- July 14, 2017. Bloomberg New Energy Finance. <u>Big Oil Just Woke Up to Threat of Rising</u> **Electric Car Demand**

#### Low-Carbon Pathways-Transportation-Aviation, Freight, & Marine

- Berg, Nate. January 5, 2016. GreenBiz. The Future of Freight: More Shipping, Less **Emissions?**
- Clauber, Adam and Isaac Toussie. October 19, 2017. GreenBiz. Why the Time Is Right for Aviation Biofuels to Take Off.
- Pyper, Julia. November 16, 2017. GreenTech Media. Why Tesla's Electric Truck is the Toughest Thing Elon Musk Has Attempted Yet.
- Ghosh, Indradeep. May 23, 1016. CleanTechnica. Fuel Switching: An Essential Step **Toward A Decarbonized Future**

- Hawken, Paul. 2016. Drawdown. Chapters on Ships, p. 140-141, Airplanes, 150-151, Trucks, 152-153, Trains, 156.
- Zuckerman, Seth. 2015. Climate Solutions. Toward Sustainable Aviation Fuels: A Primer and State of the Industry.
- Climate Solutions et al., May 25, 2011. Sustainable Aviation Fuels Northwest.
- Rocky Mountain Institute Carbon War Room and SkyNRG. July 2017. Innovative <u>Funding for Sustainable Aviation Fuel at US Airports: Explored at SeaTac International.</u>
- Natural Resources Defense Council. January 2015. Issue Brief: National Freight Pathways.
- Rocky Mountain Institute/UMAS. February 20, 2017. Navigating Decarbonization.

#### **Deep Decarbonization Pathways**

- Sickinger, Ted February 17, 2018. Oregon Business Review. PGE study: low-carbon grid is doable, affordable.
- Energy Northwest. January 2, 2018. Reducing carbon emissions at the lowest cost.
- Evolved Energy Research. February 7, 2018. <u>Decarbonization Study for Portland General</u> Electric Integrated Resource Plan.
- Haley, Ben; Gabe Kwok; Ryan Jones; Jim Williams. April 2017. Deep Decarbonization Pathways Analysis for Washington State: Executive Summary. Deep Decarbonization Pathways Analysis for Washington State.
- Energy +Environmental Economics. December 15, 2017. Greenhouse Gas Reduction Study for Public Generating Pool.
- Bloomberg, Michael R.; Henry M. Paulson, Jr.; Thomas F. Steyer. Risky Business Project. 2016. From Risk to Return: Investing in a Clean Energy Economy.
- Mahone, Amber; Elaine Hart; Ben Haley; Jim Williams; Sam Borgeson; Nancy Ryan; Snuller Price. Energy + Environmental Economics. April 6, 2015. California PATHWAYS: GHG Scenario Results.