



**NEEP 2017 Strategic Electrification Project
Resource Catalogue
June, 2017**

Publication	Summary
US DOE's Quadrennial Energy Review: Transforming the National Electricity System : (January 2017)	Section detailing necessity of electrifying non-electric end uses in buildings, industry, and transportation (Chapter 2, p 28-32).
The Brattle Group's Electrification Emerging Opportunities for Utility Growth (January 2017)	The Brattle whitepaper provides an alternative paradigm for the U.S. utility industry where electricity sales break out of the often-cited "utility death spiral" through beneficial electrification.
Vermont 2016 Comprehensive Energy Plan (February 2016)	Outlines a statewide strategy and extensively analyzes implications of a shift away from fossil fuel- based end uses. For detailed explanation of policy framework, see this NEEP Blog .
New York PSC Order Adopting Ratemaking and Utility Revenue Model Policy Framework (May 2016)	Groundbreaking decision that suggests the utilities should plan for and facilitate electrification of transportation and home heating sectors to reduce emissions, raise the load factor of the electric grid, and reduce consumer costs (p. 90). For further details, see first section of this NEEP Blog. Summary of the order and its requirements/deadlines
New York PSC's Notice of Technical Conference for Development of Thermal Renewable Energy Credits in Compliance with Clean Energy Standard (January 2017)	The New York Public Service Commission will provide for a thermal renewable energy credit carve out under their Clean Energy Standard.
Systems Integration Rhode Island Vision Document (OER/RAP/et al.- January 2016)	Analysis and possible pursuit of strategic electrification is one of the document's six major recommendations.
Rhode Island Power System Transformation Initiative (2017)	This initiative aims to design a new regulatory framework for Rhode Island's electric system. This includes five work streams: utility business model, grid connectivity, distributed system planning, beneficial electrification, and video archive
RAP/NRECA's Environmentally Beneficial Electrification: The Dawn of Emissions Efficiency (August 2016)	Coins the term "Emiciency" to indicate the importance of emissions efficiency going forward.
RAP's Beneficial Electrification: Opportunity Knocks for Utilities (January 2017)	Most recent in a series of articles authored by RAP's Ken Colburn on the benefits of strategic electrification. (related webinar available here)
Keith Dennis's "Environmentally Beneficial Electrification: Electricity as the End-Use Option" (November 2015)	Proposes applying a systems approach to end use efficiency (et al.)



<p>Bloomberg New Energy Finance’s Ten Predictions for 2017 (January 2017)</p>	<p>Mentions electrification as an underlying trend toward further integration of renewables on the grid.</p>
<p>Benefits of Port Electrification (ICF on behalf of EPA- December 2016)</p>	<p>Highlights benefits of electrifying machinery and other fossil-intensive end uses at our nation’s ports.</p>
<p>SWEEP’s How Leading Utilities are Embracing Electric vehicles (February 2016)</p>	<p>Provides detailed analysis of how electric vehicles may impact the electric grid in the Southwest.</p>
<p>NW Energy Coalition’s Building Good Load to Reduce Carbon Emissions: Getting Northwest Utilities More Involved in Widespread Transportation Electrification (January 2016)</p>	<p>Provides detailed analysis of benefits and costs associated with transportation sector electrification in the Northwest.</p>
<p>MJ Bradley and Associates’ Power Switch: The Future of the Electric Power System in the Northeast and the Disruptive Power of Innovation (October 2016)</p>	<p>Cites Northeast states’ commitment to emission reduction and notes that electrification strategies will be required to satisfy such commitments.</p>
<p>Acadia Center’s EnergyVision2030 (February 2014)</p>	<p>Identifies electrification as a priority in the shift towards a cleaner energy system.</p>
<p>LBNL’s Scenarios for Meeting California’s 2050 Climate Goals: Volume I, Non-Electricity Sectors and Overall Scenario Results (September 2013)</p>	<p>Provides technical analysis identifying widespread electrification of passenger vehicles, building heating, and industry heating as a requirement of meeting California’s 2050 emission reduction goal of 80%.</p>
<p>NESCAUM’s Zero Emission Vehicle Action Plan (May 2014)</p>	<p>Outlines steps forward for promotion of zero emission vehicles and ultimately transportation electrification.</p>
<p>Rhode Island Greenhouse Gas Emissions Reduction Plan (December 2016)</p>	<p>Electrification of transportation and building heating identified as key emission reduction strategy.</p>
<p>Fraunhofer’s What Will the Energy Transformation cost: Pathways for Transforming the German Energy System by 2050 (November 2015)</p>	<p>Identifies electrification of transportation as a key variable in moving Germany toward a clean energy grid.</p>
<p>VOX’s The Key to Tackling Climate Change: Electrify Everything (September 2016)</p>	<p>Discusses electrification and outlines several prominent resources on the subject from respected sources:</p> <ul style="list-style-type: none"> • Environmental and Energy Economics (E3) • Mark Jacobson and colleagues at Stanford University • The UN Sustainable Development Solutions Network’s Deep Decarbonization Pathways Project • The California Council of Science and Technology • Jeffrey Sachs and Johan Rockström of Columbia University and Stockholm University respectively