

## Reading List

### MOOC Energiewende

Weeks	Title	Readings
Week 1	<p><b>History and overview</b></p> <ol style="list-style-type: none"><li>1) Craig Morris (IASS): What is the Energiewende?</li><li>2) Craig Morris (IASS): Milestones in the Energiewende</li><li>3) Sybille Röhrkasten (IASS): Setting the Energiewende in an international context</li><li>4) Sara Lingstädt (IASS): Why the energy transition?</li><li>5) Pia Buschmann: 100% renewable energy regions</li></ol>	<p><b>Readings Week 1</b></p> <ul style="list-style-type: none"><li>- Chapter 4, "History of the Energiewende" at <a href="http://energytransition.de/">http://energytransition.de/</a></li><li>- <i>Energy democracy</i>, <a href="http://energiewendebook.de/">http://energiewendebook.de/</a></li><li>- Quitzow, R., Röhrkasten, S., Jänicke, M. (2016): The German Energy Transition in International Perspective. - IASS Study, March 2016. DOI: <a href="http://doi.org/10.2312/iass.2016.009">http://doi.org/10.2312/iass.2016.009</a></li><li>- Steinbacher, K., &amp; Pahle, M. (2015). <a href="#">Leadership by diffusion and the German Energiewende</a>. PIK Discussion paper</li><li>- The Energy of the Future: <a href="#">Fourth "Energy Transition" Monitoring Report</a> — Summary (PDF). Berlin, Germany: Federal Ministry for Economic Affairs and Energy (BMWi). November 2015</li></ul>

<p><b>Week 2</b></p>	<p><b>Electricity</b></p> <ol style="list-style-type: none"> <li>1) Craig Morris (IASS): Reading Energy-Charts.de</li> <li>2) Craig Morris (IASS): Why a German nuclear phaseout but not a coal phaseout?</li> <li>3) Arne Jungjohann: Germany's coal conundrum</li> <li>4) Dominik Schäuble (IASS): Efforts to reign in lignite</li> <li>5) Daniela Setton (IASS): The politics of the coal clamp-down</li> </ol>	<p><b>Readings Week 2</b></p> <ul style="list-style-type: none"> <li>- <a href="#">German coal conundrum</a></li> <li>- <a href="#">Energy charts</a></li> <li>- <a href="#">Agora Energiewende on coal debate</a></li> <li>- Wronski, R., Schäuble, D., Setton, D., Fiedler, S. (2016): Finanzielle Vorsorge im Braunkohlebereich: Optionen zur Sicherung der Braunkohlerückstellungen und zur Umsetzung des Verursacherprinzips, Berlin / Potsdam : Forum Ökologisch-Soziale Marktwirtschaft e.V. / IASS Potsdam Institute for Advanced Sustainability Studies e.V., 80 p.</li> <li>- Helgenberger, S. (2016): Consensus with Losers: Civic demand for rapid decarbonisation is revealing open lines of conflict in Germany's Energiewende <a href="http://blog.iass-potsdam.de/2016/05/consensus-with-losers/">http://blog.iass-potsdam.de/2016/05/consensus-with-losers/</a></li> <li>-</li> </ul>
<p><b>Week 3</b></p>	<p><b>Industry</b></p> <ol style="list-style-type: none"> <li>1) Philip Hiersemenzel (Yunicos): Batteries, but different</li> <li>2) Rainer Quitzow (IASS): Innovation</li> </ol>	<p><b>Readings Week 3</b></p> <ul style="list-style-type: none"> <li>- Chapter 2, section on industry (pp. 72-74), and Chapter 3, solutions 2 &amp; 8 of <a href="#">IRENA's REmap</a></li> </ul>

	<ul style="list-style-type: none"> <li>3) Craig Morris (IASS): Industry makes its own energy</li> <li>4) Barbara Praetorius (Agora): “Flex efficiency” in industry</li> </ul>	<ul style="list-style-type: none"> <li>- “Solar Energy in Germany and China: Dynamics of a Policy-Driven Market,” <a href="#">by Rainer Quitzow</a></li> <li>- <a href="#">“How batteries can stabilize the grid”</a></li> <li>- <a href="#">Flex efficiency</a></li> <li>- <a href="#">Renewable energy patents boom in Germany</a></li> </ul>
<b>Week 4</b>	<b>Buildings</b> <ul style="list-style-type: none"> <li>1) Janna Breitfeld (PHI): Passive House</li> <li>2) Heiko Thomas (IASS): sector coupling and district heat</li> <li>3) Stefan Vögele (Jülich): 6 theses for a heat transition</li> </ul>	<b>Readings Week 4</b> <ul style="list-style-type: none"> <li>- <a href="http://www.passipedia.org/start">http://www.passipedia.org/start</a></li> <li>- <a href="#">The magic of efficiency revealed</a></li> <li>- <a href="#">BMW i buildings website</a></li> <li>- <a href="#">Energiewende and efficiency</a>, Clean Energy Wire</li> </ul>
<b>Week 5</b>	<b>Sustainable Mobility</b> <ul style="list-style-type: none"> <li>1) Andreas Knie (Innoz): Where there’s an app, there’s a way</li> <li>2) Jürgen Resch (DUH): Dieselgate</li> <li>3) Ellen Matthies (OVGU): 6 theses for electric vehicles</li> <li>4) Gero Lücking (Lichtblick): A swarm of EVs for the grid</li> </ul>	<b>Readings Week 5</b> <ul style="list-style-type: none"> <li>- Schill, W. P., &amp; Gerbaulet, C. (2015). <a href="#">Power system impacts of electric vehicles in Germany: Charging with coal or renewables?</a>. Applied Energy, 156, 185-196.</li> </ul>

		<ul style="list-style-type: none"> <li>- <a href="#">A swarm of EVs for the grid</a></li> <li>- <a href="#">Solar makes EV battery support for the grid complicated financially</a></li> <li>- <a href="#">The VW scandal is an opportunity for the Energiewende</a></li> <li>- <a href="#">Reactions to government decision on e-car subsidies</a></li> <li>- <a href="#">Why do they love electric cars in the Arctic Circle?</a></li> </ul>
<p><b>Week 6</b></p>	<p><b>The future (roadmaps and scenarios)</b></p> <ol style="list-style-type: none"> <li>1) IWES: Reading the Kombikraftwerk II visualization</li> <li>2) IWES: Kombikraftwerk II</li> <li>3) DLR: Making scenarios and roadmaps</li> <li>4) Franz Mauelshagen</li> <li>5) Hartmut Kahl (Environmental and Energy Law Foundation): German and EU</li> <li>6) Oliver Geden (SWP): Targets</li> <li>7) Craig Morris and Sebastian Helgenberger (IASS): Future of community energy</li> </ol>	<p><b>Readings Week 6</b></p> <ul style="list-style-type: none"> <li>- Helgenberger, S. (2016): Social benefits of renewable energies <a href="http://blog.iass-potsdam.de/2016/05/social-benefits-of-renewable-energies/">http://blog.iass-potsdam.de/2016/05/social-benefits-of-renewable-energies/</a></li> <li>- <a href="#">The Combined Power Plant 2 Project: Renewable energy yielding results</a></li> <li>- <a href="#">Kombikraftwerk II website</a></li> <li>- <a href="#">Kombikraftwerk animation</a></li> <li>- <a href="#">Series of articles on Kombikraftwerk II</a></li> <li>- <a href="#">Greenpeace Energy (R)evolution</a></li> <li>- <a href="#">Leitstudie Strommarkt</a>, executive summary in English, pp. 1-5</li> <li>- <a href="#">Modifying the 2°C Target</a></li> </ul>

		<ul style="list-style-type: none"> <li>- <a href="#">Ensuring the Quality of Scientific Climate Policy Advice</a></li> <li>- <a href="#">An actionable climate target</a></li> <li>- <a href="#">Abandon hype in climate models</a></li> <li>- <a href="#">In defense of NIMBYism</a></li> <li>- <a href="#">The benefits of community energy in Ontario and elsewhere</a></li> </ul>
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## Additional readings

### - Scientific papers

- Quitzow, L., Canzler, W., Grundmann, P., Leibenath, M., Moss, T., & Rave, T. (2016). The German Energiewende—What's Happening? Introducing the Special Issue. *Utilities Policy*.
- Holstenkamp, L., & Kahla, F. (2016). What are community energy companies trying to accomplish? An empirical investigation of investment motives in the German case. *Energy Policy*, 97, 112-122.
- Strunz, S. (2014). The German energy transition as a regime shift. *Ecological Economics*, 100, 150-158.
- Ohlhorst, D., Schreurs, M., & Gullberg, A. T. (2012). Norway—“Battery” for the German Energy Transition? Different National Interests in Energy Policies Norway—, Batterie “der deutschen Energiewende? Unterschiedliche Länderinteressen in der Energiepolitik. *GAIA-Ecological Perspectives for Science and Society*, 21(4), 319-320.
- Beermann, J., & Tews, K. (2016). Decentralised laboratories in the German energy transition. Why local renewable energy initiatives must reinvent themselves. *Journal of Cleaner Production*.

### - Articles:

- Kunzig, R. (2015): Germany Could Be a Model for How We’ll Get Power in the Future <http://ngm.nationalgeographic.com/2015/11/climate-change/germany-renewable-energy-revolution-text>

### Websites:

- <https://www.cleanenergywire.org/>
- <http://strom-report.de/renewable-energy/>

- Agentur für Erneuerbare Energien <https://www.unendlich-viel-energie.de/media-library/background-papers>
- Energiewende Who is Who (in German)  
[https://www.bundesregierung.de/Content/Infomaterial/AA/EnergiewendeWhoisWho\\_710430.html](https://www.bundesregierung.de/Content/Infomaterial/AA/EnergiewendeWhoisWho_710430.html)